

TransferTo

Cross-Border Mobile Payments

Airtime API Document

Version 2.8.4



Revision History

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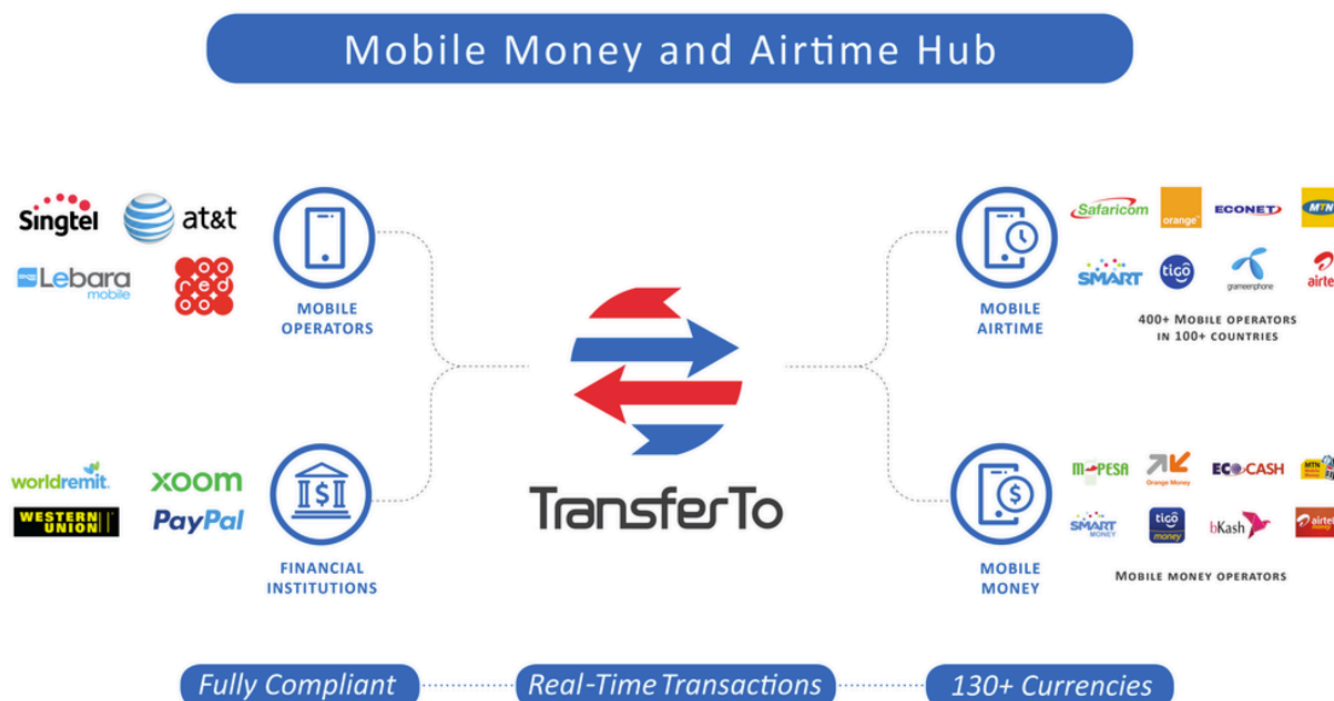
Glossary

Acronym or Term	Definition
DTH	Direct-To-Home
MSISDN	Mobile Subscriber Integrated Services Digital Network-Number
PLN	Perusahaan Listrik Negara, English: 'State Electricity Company'

1.0 Company Profile

TransferTo helps businesses offer airtime top-ups, goods and services, and mobile money around the world in real time. Our global airtime and mobile money Hub provides an essential combination of services and technology to mobile telecommunication companies and financial institutions including MTN, Singtel, Orange, Western Union, PayPal, and Xoom.

Thousands of companies in over 100 countries depend on TransferTo to provide mobile financial transactions for their customers without the need for a bank account. TransferTo's clients are companies whose consumer base consists largely of people connecting with family and friends back home. Founded in 2005, TransferTo currently links +4.5 billion mobile users across more than 400 mobile operators.



2.0 Getting Started: Account Set-Up and Management

This API enables developers to integrate TransferTo Top-up service into their system. If you are building application that leverages international recharge services, then this is the API for you.

Before started, you may want to explore what developers have done by integrating this API. Then, you should have a look at the URL listed in Annexes (Web and Mobile Apps Developers Samples, chapters 10.4 and 10.5).

This section introduces the following best practices related to account set-up and management:

- Retrieve your account credentials
- Send a request (HTTPS)
- Establish a connection to the API
- Generate a temporary and unique key to query the API
- Consult and credit your account balance
- Test your account

2.1 Retrieve your API Token

Once you have received your account credentials (login, password) to access the TransferTo web interface, you must log in and retrieve your API token to be used with the TransferTo API.

To activate access to your API account, enable Two Factor Authentication (2FA). Google Authenticator app is available on iTunes and Google Play. We strongly recommend you the use of the Google Authenticator app over SMS Authentication as it is not time or network-dependent. If you do not have access to the Google Authenticator app, select SMS Token.

To sign up to 2FA

1. Login to <http://shop.transferto.com/>.
2. Select **Developer** from the top menu, and click **Click Here to enable 2FA**.
3. Select **Google Authenticator** and click **Save**.
4. In **Google Authenticator** app, scan the displayed barcode or direct key-in the displayed code.

You are registered.

Then, to retrieve your API token

1. Select **Developer** from the bottom menu.
2. Enter the 6 digits code displayed on your device's Google Authenticator.
3. Click on **Submit** button.

Your API token is displayed.

Click on **REGENERATE** and **Save** if you need to reset it.

2.2 How to Send Requests

TransferTo platform is reachable via HTTPS URL.

There are currently 3 ways or methods to send a request to the API:

- XML format (POST method)
- Plain text (POST method)
- Plain text (GET method)

The platform will send a response formatted to XML if XML format was used in the request.

Plain Text POST/GET Requests

You must provide parameters using the HTTPS POST or GET methods (both are valid and recognized by the system). While GET method is good for writing test requests quickly, we recommend using POST method for production as there is no length limitation and is safer.

The URL to reach the platform is <https://airtime.transferto.com/cgi-bin/shop/topup>

A GET request will look like this one:

<https://airtime.transferto.com/cgi-bin/shop/topup?login=login&key=key&md5=md5&action=ping>

With the following parameters passed in the URL:

- login
- key
- md5
- action (here ping)

For a POST request, the parameters are sent in the request body.

If you send the parameters using the POST method or the GET method, the TransferTo API sends back a “text/plain” document with human readable information formatted in the following format (each line ends with ‘\r\n’):

```
value1=result1
value2=result2
...
```

XML POST Request

As discussed above, you can also reach the platform using XML.

When sending a request, format content in XML before creating the URL request.

Note: Set the content type to “text/xml.”

The response will be in XML. All field names that you used to create the request and received in the response remain the same as those used in “text/plain” format.

2.3 Authentication and Security

In addition to HTTPS, an IPSEC VPN can be established upon request.

In the XML message itself being transmitted over HTTPS, 3 parameters are related to authentication: login, key, MD5.

Parameter	Type	Description
login	Alphanumeric String	Account login name provided by TransferTo.
key	Integer	Key generated by the client. The transaction is rejected if the key has been used.
md5	Alphanumeric String	MD5 sum of the hex encoded concatenation of login, token, and key.

Table 1 – Authentication parameters

For each request, generate a key, which is a unique integer. Generate and manage this key on your side. To generate this key, you need to use your API token (alphanumeric string retrieve from the web interface as described in chapter 2.1).

The following is an example of a good key.

- Use a unique server: a time stamp with milliseconds.
- Use multiple servers.
 - Use a common sequence shared through a database to ensure that all the servers are synchronized.
 - Set up several accounts through the Transfer-To web interface to have distinct sequences (one per server for instance).

Note: As of 31st July 2013 (API version 1.06.18), access to the API is fully independent from your account's credentials. A separate token must be activated to connect to the TransferTo API. For existing users prior to 31st July 2013, your token is the same as your account's password.

Example

The login and token used below are for this example only. You need to use your own login and token.

- login: client
- token: pass99
- key: 1 to 5

Calculation of the MD5 hash:

- md5 = md5_hex(login.token.key)

Results

```
key = 1, md5 = 2f922ef79253f93d0fc05d0ac0b0d100
key = 2, md5 = 43dd325a272140a9f47a3be015eb8129
key = 3, md5 = cc98cf7d902047101be5635f6af3877e
key = 4, md5 = b4a9d3a95ac0efb73d840bd0dbbe1d1c
key = 5, md5 = a43cff6e5d057f84b1ae99e64245bff8
```

As you can see in these samples, the calculated key is distinct for each transaction.

2.4 Timeout Parameter

More than 99.5% of the transactions are currently processed within a few seconds.

However, it may happen in some rare cases that a transaction takes longer to be processed by the receiving operator due to congested system on their end for instance.

TransferTo guarantees that transactions not processed within 600 seconds will not be charged, whatever the final status of the transaction (successful or not). In addition, TransferTo is operating a real time system; therefore, the status returned in the Top-up response is final and will not change.

To ensure that your system captures successfully the status of all transactions especially the longest ones, it is advised to either set up a high timeout value of 600seconds to be on the safe side (TCP connection could potentially be opened for a long time in this case) or to set up a mechanism to check on the status (to do so, you can call the [trans_info](#) method to retrieve the final status of a transaction).

In case of timeout, both methods [reserve_id](#) and [get_id_from_key](#) of the API could be useful to identify the ID of the transaction (we recommend to either send a [reserve_id](#) request and to use the ID returned in the response in the subsequent top-up request so that you know in advance the ID of the transaction).

2.5 Account, Sub-Accounts

TransferTo creates an account, and you can retrieve your token through the portal with the login name provided. This account stands for your master account.

If you're looking to create sub-accounts, this is possible thanks to TransferTo web interface:

To create a sub-account

1. Login to <http://shop.transferto.com/>.
2. Accept Terms and Conditions.
3. Click on **Manage Users** button and then on **+ Add a New User**
4. Fill out the form (define login/password, contact information, etc.). For balance settings, please refer to section 2.6 hereafter.

Your sub-account is created. Your new sub-account user will receive an email invitation.

2.6 Account balance: How does it work?

Master account

TransferTo system works on a prepaid basis. Each new account is initialized with a minimum amount in their balance allowing to perform the basic tests. Check your balance by either connect to the web interface (see hereafter) or use the API method described in chapter 7.1.

To consult your balance and credit your account

1. Login to <http://shop.transferto.com/>.
2. Your **balance** is displayed on the top left corner.
3. Select **Add Credit** from the top menu (next to your balance).
4. Follow the instructions to credit your account balance.

The main **payment method** supported by TransferTo platform is the bank transfer. Details on bank account can be find directly on the web interface. Moreover, other payments methods are provided depending on your location.

Sub accounts

There are 3 things to know for sub-account balance management:

1. Sub-account balance can be shared with master (default setting)

This is defined at sub-account creation. If shared, each transaction will imply a debit from master account balance. Else, only sub-account balance will be impacted.

2. A daily limit can be fixed on sub-account balance

To define a daily limit

- a. Login to your master account on <http://shop.transferto.com/>.
- b. Click on **Manage Users** button and search for your **sub-account login name**
- c. Define the limitation in Daily Limit column

Note: the sub-account's balance is automatically reset to the daily limit amount every day at 01h GMT.

3. Sub-account balance is credited from Master

To credit your sub-account balance

- a. Login to your master account on <http://shop.transferto.com/>.
- b. Click on **Manage Users** button and search for your **sub-account login name**
- c. Define the amount in Manage Funds column and click Add. This amount will be debited from your Master account balance.

To check your master account balance, you must send the request with the login name provided by TransferTo.

To check your sub-account balance, you must send the request with the login name defined at sub-account creation.

Please refer to section 7.1 to see more details on how to check account balance.

2.7 Get ready, test your account!

The URL to reach TransferTo Top-up API is: <https://airtime.transferto.com/cgi-bin/shop/topup>

Before starting, check your account credentials by using the [ping](#) method.

Then, try to simulate a Top-up (method [simulation](#)) and also the most common error codes returned by TransferTo system in the [topup](#) method response.

Please refer to section 0 for more details.

3.0 API Overview

This API enables developers to access some of the core primitives of TransferTo platform including [msisdn_info](#), [reserve_id](#) and [topup](#). In addition, this API also offers several methods identified by a specific value of the parameter “action”.

Basics

Airtime Recharge Query

`msisdn_info`
`reserve_id`
`topup`

Account

Balance, Offer and Pricelist Query

`check_wallet`
`pricelist`

Tests

Simulate Top-up and Error Codes

`ping`
`simulation`

Reports

Transaction Information Query

`trans_info`
`trans_list`
`get_id_from_key`

Advanced values

[PLN and DTH Recharge Query](#)

Basics

Action	Description
msisdn_info	Returns relevant information on a MSISDN (operator, country...) as well as the list of products configured for your account and the destination operator linked to that MSISDN. Allows to check if a MSISDN is subjected to a promotion.
reserve_id	Returns a transaction ID reserved in the system to be used during next topup or simulation query. This way, your system has the ID of the transaction before sending the request to TransferTo. Otherwise, it will appear only in the response.
topup	Allows to conduct a Top-up. Returns transaction details based on product type (PIN-Less or PIN-Based): transaction id and status, error code, pin information, local amount received, etc.

Account

Action	Description
check_wallet	Returns your account balance. Do not use this method more than 24 times per day.
pricelist	Returns information configured in your account such as counties list, operators list, or products list and prices (wholesale and retail).

Tests

Action	Description
ping	Allows to check account credentials.
simulation	This method is used to simulate a Top-up. It takes the same arguments as topup action. It does not perform a real Top-up to the destination number.

Reports

Action	Description
trans_info	Returns all available information on a specific transaction ID.
trans_list	Returns the list of transactions performed during a given date range.
get_id_from_key	Returns the ID of a transaction previously performed based on the key used in the request at that time.

4.0 Basics: Airtime Recharge Query

This section introduces the different steps to the Top-up process flow:

- Retrieve information on a MSISDN
- Reserve an ID in the system
- Send an airtime recharge

4.1 Introduction to Top-up End-To-End Flow

Using “msisdn_info”, “reserve_id” and “topup” Methods

The following process describes a typical transaction flow based on the **main** methods provided by the API:

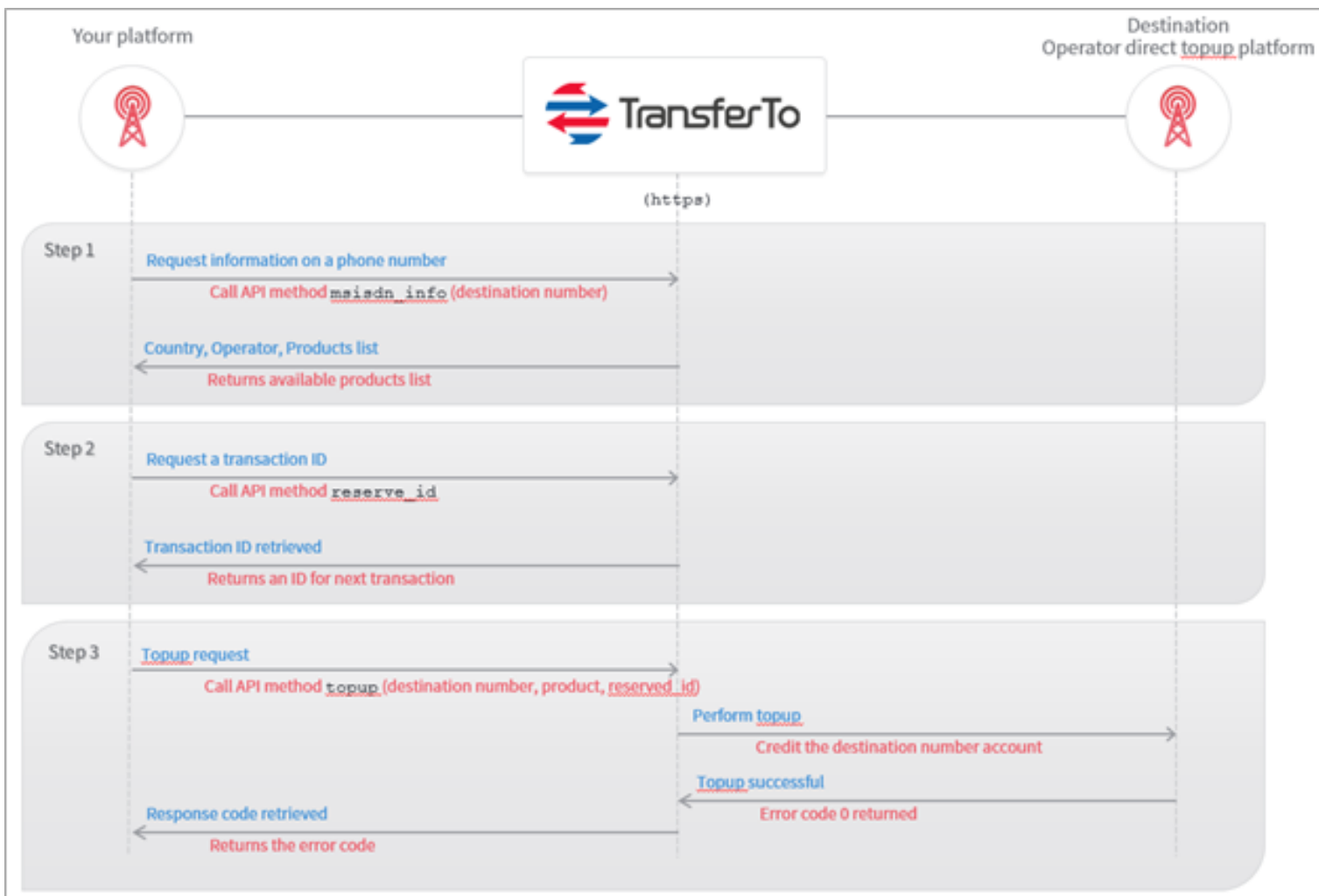


Figure 1 – Top-up Process Flow

SMS Management

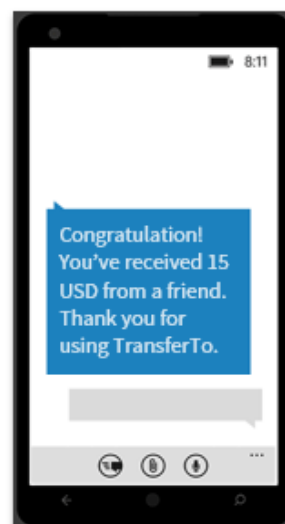
By default, an SMS notification is sent to the recipient after every successful Top-up.

The following is the default SMS which is translated into local languages for most of recipient countries:

Congratulations! You've received
AMOUNT_CURRENCY from SENDER. Thank you for us-
ing TransferTo. FREE_TEXT.

- AMOUNT CURRENCY is the amount that has been sent with the currency.
- SENDER can be a name or a phone number.
- FREE_TEXT is the content of the field named "sms" of the [topup](#) method.

Example:



The default originating address for the SMS is "8888".

4.2 Get details on a MSISDN

Purpose: Check phone number format; Get operator and available denominations; etc.

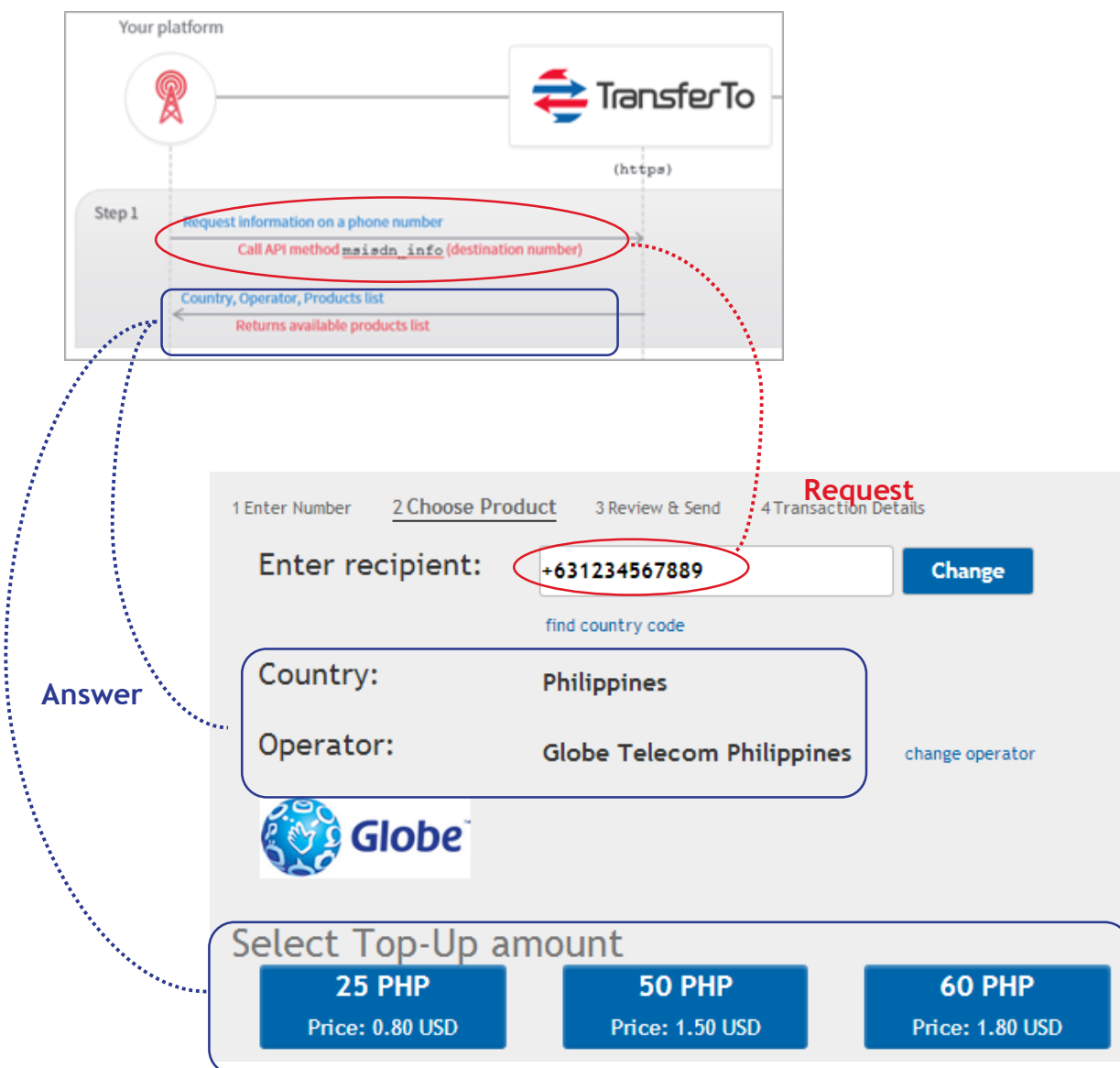


Figure 2 – “`msisdn_info` Method Illustration”

Method `msisdn_info`

Returns relevant information on a MSISDN (operator, country...) as well as the list of products configured for your account and the destination operator linked to that MSISDN. Allows to check if a MSISDN is subjected to a promotion.

Request Parameters

Name	Type	Required (Yes/No)	Description
login	Alphanumeric String	Y	Account login name provided by TransferTo.
key	Integer	Y	Key generated by the client. The transaction is rejected if the key has been used.
md5	Alphanumeric String	Y	MD5 sum of the hex encoded concatenation of login, token, and key.
action	Alphanumeric String	Y	Must be set to "msisdn_info"
destination_msisdn	Numeric String	Y	Destination MSISDN (usually recipient phone number). This is the destination phone number that will be credited with the amount transferred. Format is similar to "msisdn" and restricted to international phone number only.
delivered_amount_info	Alphanumeric String (less than 2 chars)	N	Setting this to "1" will return the fields local_info_amount_list, local_info_currency and local_info_value_list in the API response. Blank or "no" if you do not want this returned.
return_service_fee	Numeric	N	Setting this to "1" will return the field service_fee_list in the API response. Blank or "0" if you do not want it returned.
operatorid	Integer	N	Operator ID of the receiving operator that must be used when treating the request. If set, the platform will be forced to use this operator ID and will not identify the operator of the destination MSISDN based on the numbering plan. It is very useful in case of countries with number portability if you are able to know the destination operator.
return_promo	Numeric	N	Setting this to "1" will return the current promotion related to the transaction's operator.

Response Parameters

Name	Type	Description
authentication_key	Integer	Key generated by the client to perform the request (specified in key request parameter). The transaction is rejected if the key has been used.
error_code	Integer	Error code of the transaction. Refer to section 9.0 to see the list of error codes returned by the API.
error_txt	Alphanumeric String	Description of the error.
country	Alphanumeric String	Country of the destination operator.
countryid	Integer	Unique ID of the destination country.
operator	Alphanumeric String	Destination operator name.
operatorid	Integer	Destination operator ID returned only if forced by client, else blank.
connection_status	Integer	Shows successful rate to the destination operator. 1-100 with 100 being 100% success rate.
destination_msisdn	Numeric String	Destination MSISDN (usually recipient phone number).
destination_currency	Alphanumeric String	Currency of the destination country.
product_list	String	Returns the list of all available products configured for the current account. Products are separated by a comma.
service_fee_list	String	Returns the list of all service fee configured for the current account. Prices are separated by a comma and in the currency of the current account.
retail_price_list	String	Returns the list of all final retail prices configured for the current account. Prices are separated by a comma and in the currency of the current account.
wholesale_price_list	String	Returns the wholesale price (also known as Your Cost) list of all available products configured for the current account. Prices are separated by a comma and in the currency of the current account.

Name	Type	Description
local_info_amount_list	String	List of final amounts received by recipient (after taxes and operator fees). Indicative value only.
local_info_value_list	Numeric	List of each product amount (before taxes and service fees) in local currency.
local_info_currency	Alphanumeric String	Currency of the destination country.
promotion	Alphanumeric String	Promotion details. Returned only when requested with return_promo field.
promo_start	Date	Promotion start date (e.g “yyyy-mm-dd hh:mm:ss+offset”).
promo_end	Date	Promotion end date (e.g “2013-12-01 13:05:55+00”).

Sample Request

```
<xml>
<login>test</login>
<key>1326965217</key>
<md5>md5</md5>
<destination_msisdn>+60172860300</destination_msisdn>
<delivered_amount_info>1</delivered_amount_info>
<return_service_fee>1</return_service_fee>
<action>msisdn_info</action>
</xml>
```

1 Enter Number
2 **Choose Product**
3 Review & Send
4 Transaction Details

Enter recipient:

[find country code](#)

Sample Response

```
<TransferTo>
<country>Malaysia</country>
<countryid>799</countryid>
<operator>Maxis Malaysia</operator>
<operatorid>385</operatorid>
<connection_status>100</connection_status>
<destination_msisdn>60172860300</destination_msisdn>
<destination_currency>MYR</destination_currency>
<product_list>5,10,20,30</product_list>
<service_fee_list>0.00,0.00,0.00,0.00</service_fee_list>
<retail_price_list>2.10,4.00,7.80,11.60</retail_price_list>
<wholesale_price_list>1.95,3.72,7.25,10.79</wholesale_price_list>
<authentication_key>1326965217</authentication_key>
<error_code>0</error_code>
<error_txt>Transaction successful</error_txt>
<local_info_amount_list>5.00,10.00,20.00,30.00</local_info_amount_list>
<local_info_value_list>5.00,10.00,20.00,30.00</local_info_value_list>
<local_info_currency>MYR</local_info_currency>
</TransferTo>
```

Country:

Malaysia

Operator:

Maxis Malaysia



Select Top-Up amount

5 MYR

Price: 2.10 USD

10 MYR

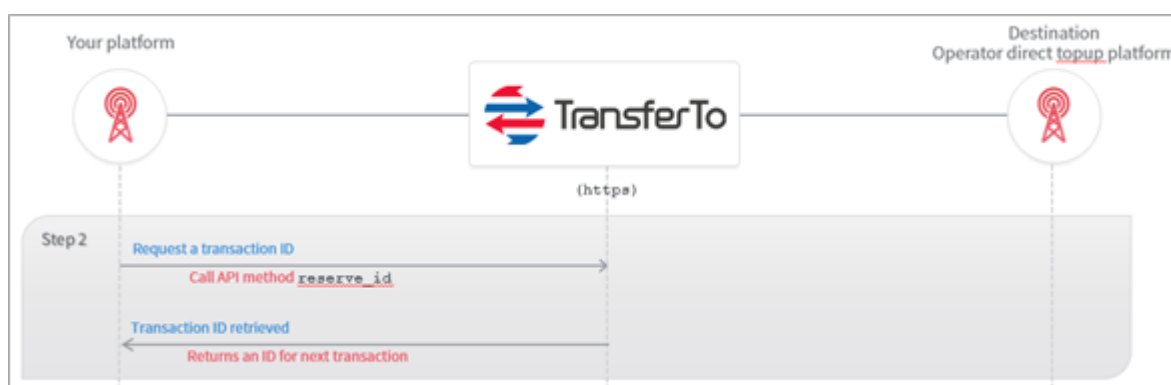
Price: 4.00 USD

20 MYR

Price: 7.80 USD

4.3 Reserve an ID

Purpose Get a reserved ID from the system



Method `reserve_id`

Returns a transaction ID reserved in the system to be used in during next [topup](#) or [simulation](#) query. This way, your system has the ID of the transaction before sending the request to TransferTo. Otherwise, it will appear only in the response.

Request Parameters

Name	Type	Required (Yes/No)	Description
login	Alphanumeric String	Y	Account login name provided by TransferTo.
key	Integer	Y	Key generated by the client. The transaction is rejected if the key has been used.
md5	Alphanumeric String	Y	MD5 sum of the hex encoded concatenation of login, token, and key.
action	Alphanumeric String	Y	Must be set to "reserve_id"

Response Parameters

Name	Type	Description
authentication_key	Integer	Key generated by the client to perform the request (specified in key request parameter). The transaction is rejected if the key has been used.
error_code	Integer	Error code of the transaction. Refer to section 9.0 to see the list of error codes returned by the API.
error_txt	Alphanumeric String	Description of the error.
reserved_id	Numeric	Reserved ID in TransferTo system to use in the next topup or simulation request.

Request

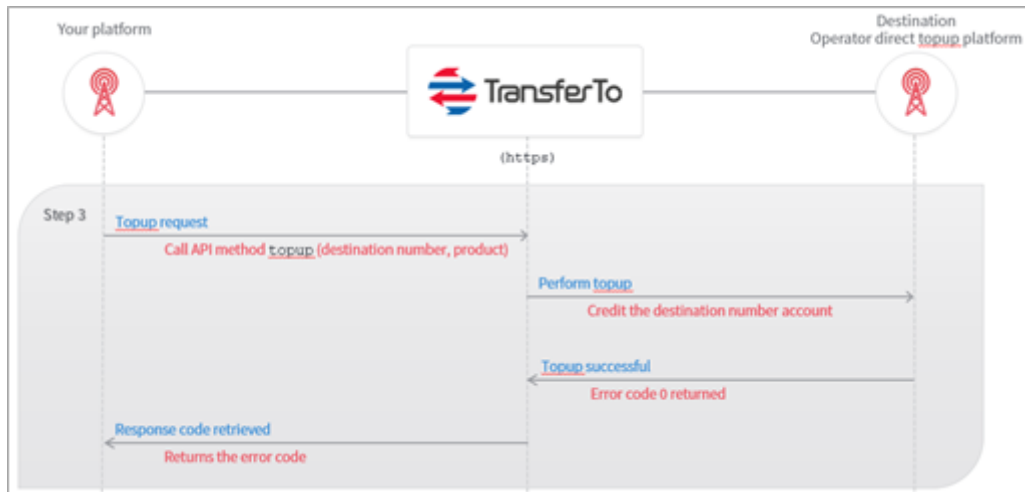
```
<xml>
<login>your_login</login>
<key>1217303174266</key>
<md5>b70aa58d2fe87d0bb0cd2b1902e5fce2</md5>
<action>reserve_id</action>
</xml>
```

Response

```
<TransferTo>
<status_code>0</status_code>
<reserved_id>20123457</reserved_id>
<error_txt>Transaction successful</error_txt>
<authentication_key>1217303174266</authentication_key>
<error_code>0</error_code>
</TransferTo>
```

4.4 Conduct a Top-up

Purpose Send an airtime recharge



Method `topup`

Allows to conduct a Top-up. Returns transaction details based on product type (PIN-Less or PIN-Based): transaction id and status, error code, pin information, local amount received, etc.

Request Parameters

Name	Type	Required (Yes/No)	Description
login	Alphanumeric String	Y	Account login name provided by TransferTo.
key	Integer	Y	Key generated by the client. The transaction is rejected if the key has been used.
md5	Alphanumeric String	Y	MD5 sum of the hex encoded concatenation of login, token, and key.
action	Alphanumeric String	Y	Must be set to "topup"

Name	Type	Required (Yes/No)	Description
destination_msisdn	Numeric String	Y	Destination MSISDN (usually recipient phone number). This is the destination phone number that will be credited with the amount transferred. Format is similar to "msisdn" and restricted to international phone number only.
return_service_fee	Numeric	N	Setting this to "1" will return the field service_fee_list in the API response. Blank or "0" if you do not want it returned.
operatorid	Integer	N	Operator ID of the receiving operator that must be used when treating the request. If set, the platform will be forced to use this operator ID and will not identify the operator of the destination MSISDN based on the numbering plan. It is very useful in case of countries with number portability if you are able to know the destination operator.
return_promo	Numeric	N	Setting this to "1" will return the current promotion related to the transaction's operator.
msisdn	Alphanumeric String	Y	The international phone number or name of the user requesting to credit a phone number (sender phone number). The format must contain the country code, and will be valid with or without the '+' or '00' placed before it. For example: "6012345678" or "+6012345678" or "006012345678" (Malaysia) or "John" are all valid. This field must not be empty.
product	Alphanumeric String	Y	Product (or denomination) to use in the request (often, the same as the amount in destination currency).

Name	Type	Required (Yes/No)	Description
cid1	Alphanumeric String (less than 64 chars)	N	This field can be used to record any kind of information when performing a transaction. It is stored in TransferTo database and may appear in various reports.
cid2	Alphanumeric String (less than 64 chars)	N	This field can also be used to record any kind of information when performing a transaction. It is stored in TransferTo database and may appear in various reports.
cid3	Alphanumeric String (less than 64 chars)	N	This field can also be used to record any kind of information when performing a transaction. It is stored in TransferTo database and may appear in various reports.
reserved_id	Numeric String	N	If defines, TransferTo system will use the previously reserved ID (via Method "reserve_id") for this transaction.
send_sms	Alphanumeric String (yes or no)	N	Recipient SMS When this field is set to "no", the notification SMS is not sent to the recipient. When this field is not defined or not equals to "no", the default SMS is sent to recipient.
sms	Alphanumeric String (less than 30 chars)	N	Recipient SMS This field is used to send your own free text message. It will be appended to the default notification SMS sent to the recipient. It does NOT define the entire content of the SMS sent to recipient. Must be less than 30 chars and special characters have to be encoded (&, <, >...).
sender_sms	Alphanumeric String	N	Sender SMS "yes" if required, blank or "no" if not required.

Name	Type	Required (Yes/No)	Description
sender_text	Alphanumeric String (less than 30 chars)	N	Sender SMS Used only if "sender_sms" is equals to "yes". This field is used to send your own free text message. It will be appended to the default notification SMS sent to the sender. It does NOT define the entire content of the SMS sent to sender.
delivered_amount_info	Alphanumeric String (less than 2 chars)	N	Setting this to "1" will return the fields local_info_amount_list, local_info_currency and local_info_value_list in the API response. Blank or "no" if you do not want this returned.
return_timestamp	Numeric	N	Setting this to "1" will return the field timestamp in the API response. Blank or "0" if you do not want it returned.
return_version	Numeric	N	Setting this to "1" will return the API version in the API response. Blank or "0" if you do not want it returned.

Response Parameters

Our system can return two possible responses depending on the type of recharge performed: Pin-Less or Pin-Based.

4.4.1 PIN Less Versus PIN Based Operators

Most receiving operators (or carriers) are PIN less (direct top-up), meaning that the mobile phone of the recipient is recharged in real time. A few operators are however PIN based (mostly in the USA and UK). For these PIN based operators, a PIN code is sent by SMS to the recipient, who then has to manually complete the recharge process (usually by calling an IVR to redeem the PIN).

The responses of the [topup](#) method are slightly different depending on the type of the operator: some additional fields are returned in case of PIN based operator (**IVR number**, **PIN code**, [instructions on how to redeem it](#), **expiration date**...).

Example of PIN based answer:

1 Enter Number 2 Choose Product 3 Review & Send 4 Transaction Details

Transaction Details

Status: Transaction successful

Number: 15105987461

Operator: Red P 1 (XXX) XXX-XXXX

Date: Wed Nov 20 2013 4:19:02 PM

Transaction ID: 159573786

Pin info 1: For instant refill, enter the 15 Digits Refill code on your handset and press CALL. Your account will be refilled automatically.

Pin info 2: Go to www.redpocketmobile.com and select "Refill". Enter the Refill code along with your Red Pocket Mobile number.

Pin value: 19.99

Pin code: 897053978431728

Pin IVR: 1-888-993-3888

Pin Serial: 894000391912

Pin Validity: N.A.

Product: 19.99 USD

Value sent: 20 USD (before taxes)

4.4.2 PIN Less

Response Parameters

Name	Type	Description
authentication_key	Integer	Key generated by the client to perform the request (specified in key request parameter). The transaction is rejected if the key has been used.
error_code	Integer	Error code of the transaction. Refer to section 9.0 to see the list of error codes returned by the API.
error_txt	Alphanumeric String	Description of the error.
country	Alphanumeric String	Country of the destination operator.
countryid	Integer	Unique ID of the destination country.
operator	Alphanumeric String	Destination operator name.
operatorid	Integer	Destination operator ID returned only if forced by client, else blank.
destination_msisdn	Numeric String	Destination MSISDN (usually recipient phone number).

Name	Type	Description
destination_currency	Alphanumeric String	Currency of the destination country.
local_info_currency	Alphanumeric String	Currency of the destination country.
promotion	Alphanumeric String	Promotion details. Returned only when requested with return_promo field.
promo_start	Date	Promotion start date (e.g “yyyy-mm-dd hh:mm:ss+offset”).
promo_end	Date	Promotion end date (e.g “2013-12-01 13:05:55+00”).
msisdn	Alphanumeric String	The international phone number or name of the user (sender) requesting to credit a phone number.
originating_currency	Alphanumeric String	Currency of the account from which the transaction is requested.
product_requested	Float	Value of the product defined in “product” field of the topup request.
actual_product_sent	Float	Returns the value requested to the operator (equals to product_requested in case of successful transaction). It equals to 0 when Top-up failed.
sms_sent	Alphanumeric String	Recipient SMS Defines the status of the notification SMS sent to the recipient. Returns “yes” only if the SMS has been successfully sent.
sms	Alphanumeric String	Recipient SMS Returns the custom message appended to the default notification SMS sent to the recipient.
sender_sms	Alphanumeric String	Sender SMS Defines the status of the notification SMS sent to the sender. Returns “yes” only if the SMS has been successfully sent.
sender_text	Alphanumeric String	Sender SMS Returns the custom message appended to the default notification SMS sent to the sender.
wholesale_price	Numeric	Returns the cost of the product defined in “product” field of the request. This cost is set in the account’s currency.

Name	Type	Description
service_fee	Numeric	Returns the service fee of the product as configured in the account.
retail_price	Numeric	Returns the retail price of the product as configured in the account.
transactionid	Integer	ID of the transaction.
cid1	Alphanumeric String	Value of the customized field cid1 sent in the Top-up request.
cid2	Alphanumeric String	Value of the customized field cid2 sent in the Top-up request.
cid3	Alphanumeric String	Value of the customized field cid3 sent in the Top-up request.
reference_operator	Alphanumeric String	Reference of the operator (returned only if available).
local_info_amount	Numeric	Final amount received by recipient (after taxes and operator fees). Indicative value only.
local_info_value	Numeric	Amount of the product (before taxes and service fees) in local currency.
return_timestamp	Date	Timestamp recorded for this transaction (e.g "2013-03-18 00:00:00").
return_version	Numeric	Version of this API.
balance	Numeric	For main account: returns the account's remaining balance. For sub-account: returns the account's remaining limit balance of the day if a daily limit is fixed. Else, returns the account remaining balance.

Sample Request

```
<xml>
<login>test</login>
<key>1326963417</key>
<md5>md5</md5>
<msisdn>69999999999</msisdn>
<sms>Happy birthday !</sms>
<destination_msisdn>+60172860300</destination_msisdn>
<product>10</product>
<cid1>My Text</cid1>
<sender_sms>yes</sender_sms>
<sender_text></sender_text>
<delivered_amount_info>1</delivered_amount_info>
<return_timestamp>1</return_timestamp>
<return_version>1</return_version>
<return_service_fee>1</return_service_fee>
<action>topup</action>
</xml>
```

Sample Response

```
<TransferTo>
<transactionid>77748538</transactionid>
<msisdn>69999999999</msisdn>
<destination_msisdn>60172860300</destination_msisdn>
<country>Malaysia</country>
<countryid>799</countryid>
<operator>Maxis Malaysia</operator>
<reference_operator></reference_operator>
<operatorid></operatorid>
<originating_currency>USD</originating_currency>
<destination_currency>MYR</destination_currency>
<product_requested>10</product_requested>
<actual_product_sent>10</actual_product_sent>
<wholesale_price>3.39</wholesale_price>
<service_fee>0.00</service_fee>
<retail_price>4.30</retail_price>
<balance>8.1</balance>
<sms_sent>yes</sms_sent>
<sms>Happy birthday </sms>
<sender_sms>yes</sender_sms>
<sender_text></sender_text>
<cid1> My Text </cid1>
<cid2></cid2>
<cid3></cid3>
<authentication_key>1326963417</authentication_key>
<error_code>0</error_code>
<error_txt>Transaction successful</error_txt>
<local_info_value>10.00</local_info_value>
<local_info_amount>10.00</local_info_amount>
<local_info_currency>MYR</local_info_currency>
<return_timestamp>2013-03-18 00:00:01</return_timestamp>
<return_version>1.06.08</return_version>
</TransferTo>
```

4.4.3 PIN Based

Response Parameters (additional parameters applicable to PIN Based only)

Name	Type	Description
pin_based	String	Returns “Yes” if PIN-based transactions. Else “No”.
pin_option_1	String	Additional information. For example, it can describe how to use the PIN directly from handset (by entering a dedicated USSD code).
pin_option_2	String	Additional information. For example, it can provide the operator refill website.
pin_option_3	String	Additional information. For example, it can provide the operator refill call center.
pin_value	Integer	Value of the PIN.
pin_code	Alphanumeric String	Code of the PIN.
pin_ivr	Integer	IVR number of the PIN.
pin_serial	Alphanumeric String	Serial number of the PIN.
pin_validity	String	Validity of the PIN.

Sample Request

```
<xml>
<login>test</login>
<key>1326964272</key>
<md5>md5</md5>
<msisdn>69999999999</msisdn>
<sms>Test credit from TransferTo</sms>
<destination_msisdn>00009779742045269</destination_msisdn>
<product>200</product>
<delivered_amount_info>1</delivered_amount_info>
<action>Top-up</action>
</xml>
```

Sample Response 1/2

```
<TransferTo>
<transactionid>77749654</transactionid>
<msisdn>69999999999</msisdn>
<destination_msisdn>9779742045269</destination_msisdn>
<country>Nepal</country>
<countryid>819</countryid>
<operator>NTC CDMA Nepal</operator>
<reference_operator></reference_operator>
<operatorid></operatorid>
<originating_currency>USD</originating_currency>
<destination_currency>NPR</destination_currency>
<product_requested>200</product_requested>
<actual_product_sent>200</actual_product_sent>
<wholesale_price>2.58</wholesale_price>
<service_fee>0.00</service_fee>
<retail_price>3.30</retail_price>
<balance>5.52</balance>
<sms_sent>yes</sms_sent>
<sms>Test credit from TransferTo</sms>
<cid1></cid1>
<cid2></cid2>
<cid3></cid3>
```

```
<pin_based>yes</pin_based>
<pin_option_1>To recharge your mobile, dial 1415 from your own Pre-Paid mo-
bile phone and follow the instructions.</pin_option_1>
<pin_option_2>SkyPhone</pin_option_2>
<pin_option_3></pin_option_3>
<pin_value>200</pin_value>
<pin_code>12345678901234</pin_code>
<pin_ivr>1415</pin_ivr>
<pin_serial>123456789123456789</pin_serial>
<pin_validity>30 Days</pin_validity>
```

...

1 Enter Number 2 Choose Product 3 Review & Send 4 Transaction Details

Transaction Details

Status:	Transaction successful
Number:	9779742045269
Operator:	NTC CDMA Nepal
Date:	Fri Apr 25 2014 12:45:08 PM
Transaction ID:	77749654
PIN Info 1:	To recharge your mobile, dial 1415 from your own Pre-Paid mobile phone and follow the instructions.
PIN Info 2:	SkyPhone
PIN Value:	200

Sample Response 2/2

```
...  
<service_fee>0.00</service_fee>  
<retail_price>3.30</retail_price>  
...  
<authentication_key>1326964272</authentication_key>  
<error_code>0</error_code>  
<error_txt>Transaction successful</error_txt>  
<local_info_value>200.00</local_info_value>  
<local_info_amount>200.00</local_info_amount>  
<local_info_currency>NPR</local_info_currency>  
</TransferTo>
```

1 Enter Number 2 Choose Product 3 Review & Send 4 Transaction Details

Transaction Details

Status: Transaction successful
Number: 9779742045269
Operator: NTC CDMA Nepal
Date: Fri Apr 25 2014 12:45:08 PM
Transaction ID: 77749654
PIN Info 1: To recharge your mobile, dial 1415 from your own Pre-Paid mobile phone and follow the instructions.
PIN Info 2: SkyPhone
PIN Value: 200
PIN Code: 1234 5678 9012 34
PIN IVR: 1415
PIN Serial: 123 456 789 123 456 789
PIN Validity: 30 Days
Value sent: 200 NPR (before taxes)
Value received*: 200 NPR (after taxes + operator fees)
Transaction Fee: 0.00 USD
Amount paid: 3.30 USD includes a service fee of 0.00

* Estimate only. Actual amount received by recipient may differ from displayed amount.

4.4.4 Check if a MSISDN is subjected to a promotion

Both [msisdn_info](#) and [topup](#) methods allow to return the promotion related to a given phone number of destination. Hereafter is an example with *return_promo* field requested (equals to 1) and subsequent responses (promotion detail, start and end dates).

Sample Request

```
<xml>
<login>test</login>
<key>1326963417</key>
<md5>md5</md5>
<msisdn>69999999999</msisdn>
<sms>Happy birthday !</sms>
<destination_msisdn>+60172860300</destination_msisdn>
<product>10</product>
<cid1>My Text</cid1>
<sender_sms>yes</sender_sms>
<sender_text></sender_text>
<delivered_amount_info>1</delivered_amount_info>
<return_promo>1</return_promo>
<return_timestamp>1</return_timestamp>
<return_version>1</return_version>
<return_service_fee>1</return_service_fee>
<action>topup</action>
</xml>
```

Sample Response

```
<TransferTo>
<transactionid>77748538</transactionid>
<msisdn>69999999999</msisdn>
<destination_msisdn>60172860300</destination_msisdn>
<country>Malaysia</country>
<countryid>799</countryid>
<operator>Maxis Malaysia</operator>
<reference_operator></reference_operator>
<operatorid></operatorid>
<originating_currency>USD</originating_currency>
<destination_currency>MYR</destination_currency>
<product_requested>10</product_requested>
<actual_product_sent>10</actual_product_sent>
<wholesale_price>3.39</wholesale_price>
<service_fee>0.00</service_fee>
<retail_price>4.30</retail_price>
<balance>8.1</balance>
<sms_sent>yes</sms_sent>
<sms>Happy birthday </sms>
<sender_sms>yes</sender_sms>
<sender_text></sender_text>
<cid1> My Text </cid1>
<cid2></cid2>
<cid3></cid3>
<authentication_key>1326963417</authentication_key>
<error_code>0</error_code>
<error_txt>Transaction successful</error_txt>
<local_info_value>10.00</local_info_value>
<local_info_amount>10.00</local_info_amount>
<local_info_currency>MYR</local_info_currency>
<return_timestamp>2013-03-18 00:00:01</return_timestamp>
<return_version>1.06.08</return_version>
<promotion>Promotion: Quadruple (4x) Balance<br/>Operator: Claro<br/>Country: Nicaragua<br/>Denominations (USD): 5 and above<br/>Date: December 16th, 2013 to December 19th, 2013 at 11:59 pm (-6 GMT)<br/><br/>Terms and Conditions:<br/>- Claro network calls<br/>- Call international destinations<br/>- Calling other operators according to the user profile<br/>- For refills $5 to $11 your bonus will expire in 30 days<br/>- For refills $12 and above your bonus will expire in 45 days<br/><br/>Exceptions promotional balance (not to be used)<br/>- Send Text Messages<br/>- Calling other operators according to the user profile<br/>- Internet Browsing</promotion>
<promo_start>2013-12-15 16:00:00+00</promo_start>
<promo_end>2015-12-31 15:59:00+00</promo_end>
</TransferTo>
```

5.0 Advanced values across borders

As described in previous chapter, TransferTo API main purpose is to allow customers to perform airtime recharges. However, TransferTo API is also designed to offer other recharge solutions such as Electricity in Indonesia (as known as PLN) and DTH television in India and Philippines.

This chapter describes the main methods of TransferTo API for each specific product:

- Perform a [msisd_n_info](#) query to retrieve the available recharge amounts
- Use the [topup](#) method to complete the recharge

Moreover, it provides you with the different kind of responses (PIN Based / PIN Less) returned by the API and based upon the type of service.

5.1 Prepaid Electricity

5.1.1 PLN Indonesia: PIN Based

Description

A PLN product is a prepaid electricity voucher expressed in the form of a 20 digits PIN.

As the top-up solution, TransferTo provides solutions enabling migrants to conveniently recharge the PLN account to their loved ones in Indonesia.

Pre-conditions

In order to generate the PIN and ensure that it is sent to the right person, you must provide the following parameters:

- 1. Recipient's PLN prepaid meter number (11 digits)**

Note: The recipient of the PIN must have a prepaid electricity account with PLN, a leading utility company in Indonesia.

- 2. Recipient's phone number**

Note: Once generated, the PIN is sent to the recipient via SMS. Then, the PIN must be entered by the recipient into their prepaid electricity meter to recharge their meter value.

Method	<code>msisdn_info</code>
--------	--------------------------

Sample query

```
<xml>
<login>your_login</login>
<key>1326965217</key>
<md5>md5</md5>
<destination_msisdn>PLN14032918279_628123456770</destination_msisdn>
<operatorid>1671</operatorid>
<action>msisdn_info</action>
</xml>
```

Response parameters are similar to the ones described in chapter 4.2.

List of available PLN products is returned in the parameter named `product_list`.

Method	<code>topup</code>
--------	--------------------

Sample query

```
<xml>
<login>your_login</login>
<key>1326965217</key>
<md5>md5</md5>
<destination_msisdn>PLN14032918279_628123456770</destination_msisdn>
<operatorid>1671</operatorid>
<msisdn>sender number</msisdn>
<product>10000</product>
<action>topup</action>
</xml>
```

In both methods you must fill the `destination_msisdn` parameter with:

1. Recipient's PLN prepaid meter number (e.g **14032918279**)
2. Recipient's phone number (e.g **628123456770**)

Response parameters are similar to the ones described in chapter 4.4.3.

The final PIN is returned in the parameter named `pin_code`. This PIN is also sent to the recipient phone number that you can find in response parameter named `destination_msisdn`.

5.2 International Calling Service – PINLESS/PINFREE

The International Calling Service Pinless allows users to make international calls without the attachments to any phone provider. Simple register your phone number to any of the providers and enjoy international phone service at much better rates than regular phone operators.

5.2.1 DollarPhone PINLESS

DollarPhonePinless is a high-quality prepaid international calling service you can use with any phone. There are no hidden fees, no contracts, and it works automatically with your current phone service.

Pre-conditions

In order to create a new account or reload a current one, you must provide the following parameters:

1. Valid USA Phone number.

Note: If there is a new account, account will be created automatically and the account recipient will receive and SMS with the access information to make international calls.

If there is a current account, the topup will be credited and the customer will be notified of the recharge.

2. Operator ID (2010)

Note: Operator needs to be forced in order to use this service via API.

Method msisdn_info

Sample query

```
<xml>
<login>your_login</login>
<key>1326965217</key>
<md5>md5</md5>
<destination_msisdn>13057893399</destination_msisdn>
<operatorid>2010</operatorid>
<action>msisdn_info</action>
</xml>
```

Response parameters are similar to the ones described in chapter .

List of available International calling service PINLESS products is returned in the parameter named `product_list`.

Method	topup
--------	-------

Sample query

```
<xml>
<login>your_login</login>
<key>1420579279</key>
<md5>83c9c262adfee072edb44500f63f1b80</md5>
<msisdn>13057893399</msisdn>
<destination_msisdn>13057893399</destination_msisdn>
<product>1</product>
<sms></sms>
<operatorid>2010</operatorid>
<action>topup</action>
</xml>
```

Response parameters are similar to the ones described in chapter 4.4.2

SMS Notifications from DollarPhone

New Account:

< Messages +1 (813) 413-4727 Details

Text Message
Today 4:21 PM

Welcome DollarPhonePinless!
To login visit: <http://www.dollarphonepinless.com>
. To make calls dial: [\(305\) 434-4312](tel:(305)434-4312).

Topup Account:

< Messages +1 (408) 713-1460 Details

Text Message
Today 4:21 PM

DollarPhonePinless: \$2.00
has been added to your
account. Dial [\(305\) 434-4312](tel:(305)434-4312)
to place a call. Customer
Service [\(888\) 903-9047](tel:(888)903-9047)

5.3 Prepaid bundles

Prepaid bundles are a mixture of calls, data, SMS and social media access which the users can purchase other than airtime credits.

Pre-conditions

To do a recharge, you must provide the following parameters:

1. **Recipient's phone number**
2. **Operator ID**

Note: Operator ID needs to be forced in order to use this service via API.

List of operators offering prepaid bundles - Operator ID

For the list of operators available to you, please refer to your price list at

https://shop.transferto.com/cgi-bin/display_price_list

You can contact your account manager or email support@transfer-to.com if you're interested to have this product added to your account.

Method **msisdn_info**

Sample query

```
<xml>
<login>your_login</login>
<key>1326965217</key>
<md5>md5</md5>
<destination_msisdn>521122334455</destination_msisdn>
<operatorid>2446</operatorid>
<action>msisdn_info</action>
</xml>
```

Response parameters are similar to the ones described in section 4.2.

List of available denominations is returned in the parameter named [product_list](#).

Method	topup
--------	-------

Sample query

```
<xml>
<login>your_login</login>
<key>1420579279</key>
<md5>83c9c262adfee072edb44500f63f1b80</md5>
<msisdn>12025550160</msisdn>
<destination_msisdn>521122334455</destination_msisdn>
<product>30</product>
<sms></sms>
<operatorid>2446</operatorid>
<action>topup</action>
</xml>
```

Response parameters are similar to the ones described in section 4.4.2.

5.4 Credits

5.4.1 Viber Out Credits

Viber Out is a service that allows Viber users to call any phone number at low rates. Calls can be made to land lines and mobiles, even if they do not have the Viber Application installed.

Pre-conditions

To do a recharge, you must provide the following parameters:

1. **Recipient's phone number**
2. **Operator ID**

Note: Operator needs to be forced in order to use this service via API.

List of Viber Operator ID

For the list of operators available to you, please refer to your price list at

https://shop.transferto.com/cgi-bin/display_price_list

You can contact your account manager or email support@transfer-to.com if you're interested to have this product added to your account.

Method	msisdn_info
--------	-------------

Sample query

```
<xml>
<login>your_login</login>
<key>1326965217</key>
<md5>md5</md5>
<destination_msisdn>151234567890</destination_msisdn>
<operatorid>2675</operatorid>
<action>msisdn_info</action>
</xml>
```

Response parameters are similar to the ones described in section 4.2.

List of available denominations is returned in the parameter named [product_list](#).

Method	topup
--------	-------

Sample query

```
<xml>
<login>your_login</login>
<key>1420579279</key>
<md5>83c9c262adfee072edb44500f63f1b80</md5>
<msisdn>12025550160</msisdn>
<destination_msisdn>151234567890</destination_msisdn>
<product>10</product>
<sms></sms>
<operatorid>2675</operatorid>
<action>topup</action>
</xml>
```

Response parameters are similar to the ones described in section 4.4.2.

5.5 India Gift Vouchers

Gift Vouchers are PIN-based digital vouchers. The PIN will be sent via SMS. The users can use the PIN to redeem for products and services of the respective merchants.

Pre-conditions

To do a recharge, you must provide the following parameters:

1. **Recipient's phone number**
2. **Operator ID**

Note: Operator needs to be forced in order to use this service via API.

List of Gift Vouchers' Operator ID

For the list of operators available to you, please refer to your price list at

https://shop.transferto.com/cgi-bin/display_price_list

You can contact your account manager or email support@transfer-to.com if you're interested to have this product added to your account.

Method	msisdn_info
---------------	--------------------

Sample query

```
<xml>
<login>your_login</login>
<key>1326965217</key>
<md5>md5</md5>
<destination_msisdn>911234567890</destination_msisdn>
<operatorid>2758</operatorid>
<action>msisdn_info</action>
</xml>
```

Response parameters are similar to the ones described in chapter 4.2.

List of available denominations is returned in the parameter named [product_list](#).

Method	topup
---------------	--------------

Sample query

```
<xml>
<login>your_login</login>
<key>1420579279</key>
<md5>83c9c262adfee072edb44500f63f1b80</md5>
<destination_msisdn>911234567890</destination_msisdn>
<msisdn>sender number</msisdn>
<product>100</product>
<operatorid>2675</operatorid>
</xml>
```

Response parameters are similar to the ones described in chapter 4.4.3.

6.0 Tests: Simulate Top-up and Error codes

This section is designed for developers who want to test their account credentials, simulate a Top-up, simulate different error codes returned by the API, or monitor the connection to the API.

6.1 Check account credentials

Method `ping`

Allows to check account credentials or to monitor the connection to the API.

Request Parameters

Name	Type	Required (Yes/No)	Description
login	Alphanumeric String	Y	Account login name provided by TransferTo.
key	Integer	Y	Key generated by the client. The transaction is rejected if the key has been used.
md5	Alphanumeric String	Y	MD5 sum of the hex encoded concatenation of login, token, and key.
action	Alphanumeric String	Y	Must be set to "ping"

Response Parameters

Name	Type	Description
info_txt	Integer	Contains "pong" if the transaction is successful.
authentication_key	Integer	Key generated by the client to perform the request (specified in key request parameter). The transaction is rejected if the key has been used.
error_code	Integer	Error code of the transaction. Refer to section 9.0 to see the list of error codes returned by the API.
error_txt	Alphanumeric String	Description of the error.

Sample Request

```
<xml>
<login>test</login>
<key>1327027869</key>
<md5>md5</md5>
<action>ping</action>
</xml>
```

Sample Response

```
<TransferTo>
<info_txt>pong</info_txt>
<authentication_key>1327027869</authentication_key>
<error_code>0</error_code>
<error_txt>Transaction successful</error_txt>
</TransferTo>
```

6.2 Monitor connection to the API

Monitoring the connection to the API can be done easily thanks to the [ping](#) method (as described in previous chapter).

6.3 Simulate a Top-up

Method	simulation
--------	----------------------------

The method [simulation](#) takes the same parameters as [topup](#) method. It does not perform a real Top-up to the destination number.

This action will test if the destination number is in TransferTo numbering plan, and if the product specified is valid.

- It DOES NOT verify if the destination number has expired for instance as the request is not submitted to the operator. Thus, a simulation can be successful, while a real top-up (request sent to the operator to perform both debit and Top-up) can fail.
- For PIN Based products, API will respond basics information (PIN Less like). All parameters related to PIN information will not be provided in the response.

Note that this action will provide you with some information (products available in your account) but is not part of the Top-up cycle. You should perform Top-up without making any simulations before.

6.4 Simulate error codes

A few fake phone numbers in Indonesia have been created and set up with available products of IDR 5000, 10000, 20000, 50000 and 100000:

628123456710: error code 0 for PIN based Top-up (successful transaction).

628123456770: error code 0 for PIN less Top-up (successful transaction).

628123456780: error code 204 (destination number is not a valid prepaid phone number).

628123456781: error code 301 (input value out of range or invalid product).

628123456790: error code 214 (transaction refused by the operator).

628123456798: error code 998 (system not available, please retry later).

628123456799: error code 999 (unknown error, please contact support).

TransferTo highly recommend to perform one [topup](#) query by phone number listed above, in order to ensure the good comprehension of [topup](#) responses and to develop a robust error management system.

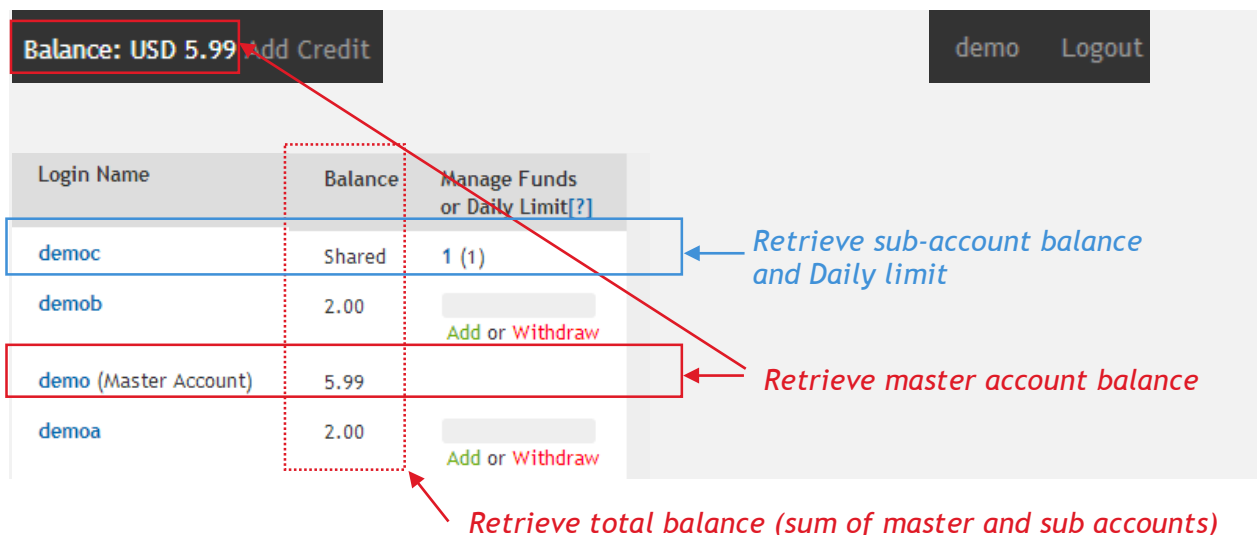
7.0 Account: Balance, Offer and Pricelist Query

This section describes how to retrieve information on your account as the following:

- Remaining balance of your master account and sub-accounts
- Daily limit of a sub-account
- List of countries offered to your account
- List of operators offered by country
- List of denomination, including wholesale and retail prices, offered to your account

7.1 Check account balance

Purpose



Balance: USD 5.99 Add Credit		demo Logout
Login Name	Balance	Manage Funds or Daily Limit[?]
democ	Shared	1 (1)
demob	2.00	Add or Withdraw
demo (Master Account)	5.99	
demoa	2.00	Add or Withdraw

Retrieve sub-account balance and Daily limit

Retrieve master account balance

Retrieve total balance (sum of master and sub accounts)

Method `check_wallet`

Returns the balance in your TransferTo account.

This method shall not be used more than 24 times per day.

If you just need to monitor the connection to the API, TransferTo highly recommend to use the [ping method](#) (refer to 6.1).

Please note that a low balance alert is automatically sent to the email configured in your account when the minimum threshold is reached.

Request Parameters

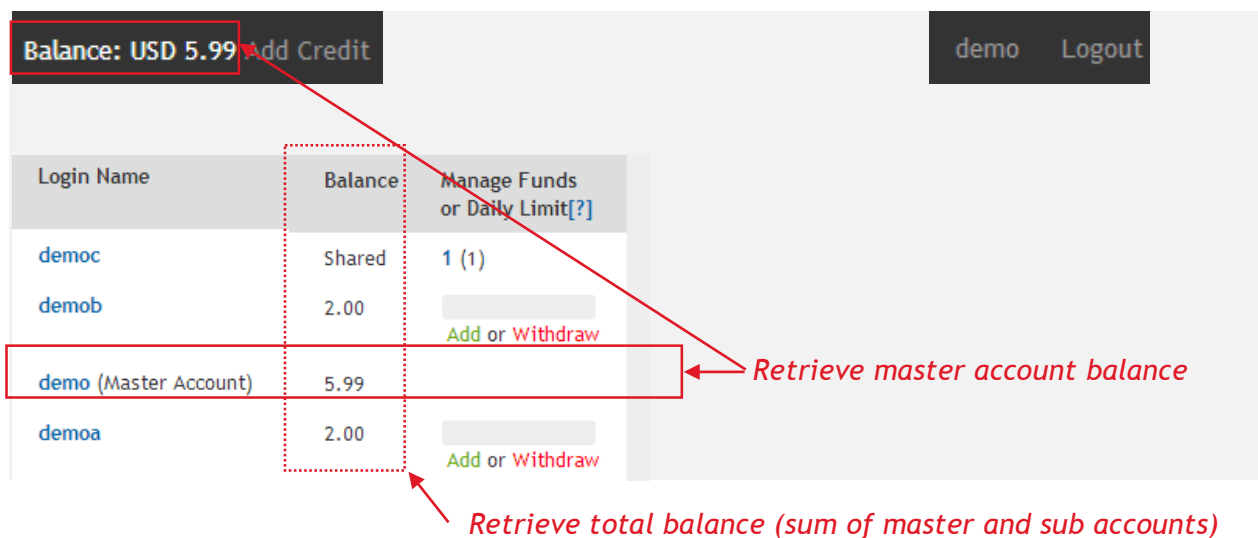
Name	Type	Required (Yes/No)	Description
login	Alphanumeric String	Y	Account login name provided by TransferTo.
key	Integer	Y	Key generated by the client. The transaction is rejected if the key has been used.
md5	Alphanumeric String	Y	MD5 sum of the hex encoded concatenation of login, token, and key.
action	Alphanumeric String	Y	Must be set to "check_wallet"

Response Parameters

Name	Type	Description
authentication_key	Integer	Key generated by the client to perform the request (specified in key request parameter). The transaction is rejected if the key has been used.
error_code	Integer	Error code of the transaction. Refer to section 9.0 to see the list of error codes returned by the API.
error_txt	Alphanumeric String	Description of the error.
type	Alphanumeric String	Account type: "Master" (main account) or "Retailer" (sub-account)
name	Alphanumeric String	Account login name.
currency	Alphanumeric String	Account currency (USD, GBP, EUR, etc...).
balance	Numeric	For main account: returns the account's remaining balance. For sub-account: returns the account's remaining limit balance of the day if a daily limit is fixed. Else, returns the account remaining balance.

Name	Type	Description
wallet	Numeric	<p>For main account: returns the total remaining balance (sum of all sub-accounts and current master).</p> <p>For sub-account:</p> <ol style="list-style-type: none"> If balance is shared and daily limit is fixed: returns the fixed daily limit amount If balance is shared but daily limit is not fixed: returns "No Limit" Else if balance is not shared: returns the remaining balance

Sample 1 – Master account



The screenshot shows a user interface with a top navigation bar containing "Balance: USD 5.99", "Add Credit", "demo", and "Logout". Below this is a table with columns "Login Name", "Balance", and "Manage Funds or Daily Limit[?]". The table lists four accounts: "democ", "demob", "demo (Master Account)", and "demoa". The "demo (Master Account)" row is highlighted with a red box, and its balance "5.99" is also highlighted. A red arrow points from the "Balance: USD 5.99" text in the top bar to the "5.99" in the table, with the label "Retrieve master account balance". Another red arrow points from the "5.99" in the table to the "Add Credit" button, with the label "Retrieve total balance (sum of master and sub accounts)".

Login Name	Balance	Manage Funds or Daily Limit[?]
democ	Shared	1 (1)
demob	2.00	<input type="text"/> Add or Withdraw
demo (Master Account)	5.99	<input type="text"/> Add or Withdraw
demoa	2.00	<input type="text"/> Add or Withdraw

Request

```
<xml>
<login>demo</login>
<key>1326958538</key>
<md5>your MD5 here</md5>
<action>check_wallet</action>
</xml>
```

Response

```
<TransferTo>
  <type>Master</type>
  <name>demo</name>
  <currency>USD</currency>
  <balance>5.99</balance>
  <wallet>9.99</wallet>
  <authentication_key>1326958538</authentication_key>
  <error_code>0</error_code>
  <error_txt>Transaction successful</error_txt>
</TransferTo>
```

← *Current balance of master account.*

← *Total balance of master and sub-accounts.*

Sample 2 – Sub-Account – Shared Balance – Daily Limit Fixed to 1

Login Name	Balance	Manage Funds or Daily Limit[?]
democ	Shared	1 (1)
demob	2.00	<input type="text"/> Add or Withdraw
demo (Master Account)	5.99	
demoa	2.00	<input type="text"/> Add or Withdraw

← Retrieve *sub-account balance*
and *Daily limit*

Request

```
<xml>
<login>democ</login>
<key>1326958538</key>
<md5>your MD5 here</md5>
<action>check_wallet</action>
</xml>
```

Response

```
<TransferTo>
<type>Retailer</type>
<name>democ</name>
<currency>USD</currency>
<balance>1.00</balance> ← Current balance of sub-account (daily remaining balance).
<wallet>1.00</wallet> ← Daily limit of sub-account.
<authentication_key>1326958689</authentication_key>
<error_code>0</error_code>
<error_txt>Transaction successful</error_txt>
</TransferTo>
```

Sample 3 – *Sub-Account – Shared Balance – No Daily Limit*

Request

```
<xml>
<login>testing1</login>
<key>1326958538</key>
<md5>your MD5 here</md5>
<action>check_wallet</action>
</xml>
```

Response

```
<TransferTo>
<type>Retailer</type>
<name>testing1</name>
<currency>USD</currency>
<balance>1.00</balance>
<wallet>No Limit</wallet>
<authentication_key>1326958689</authentication_key>
<error_code>0</error_code>
<error_txt>Transaction successful</error_txt>
</TransferTo>
```

Sample 4 – Sub-Account – No Shared Balance

Login Name	Balance	Manage Funds or Daily Limit[?]
democ	Shared	1 (1)
demob	2.00	<input type="text"/> Add or Withdraw
demo (Master Account)	5.99	
demoa	2.00	<input type="text"/> Add or Withdraw

Balance of sub-account (points to 2.00 in demoa row)

Daily Limit Not Applicable (points to demoa row)

Request

```
<xml>
<login>demoa</login>
<key>1326958538</key>
<md5>your MD5 here</md5>
<action>check_wallet</action>
</xml>
```

Response

```
<TransferTo>
<type>Retailer</type>
<name>demoa</name>
<currency>USD</currency>
<balance>2.00</balance>
<wallet>2.00</wallet>
<authentication_key>1326958689</authentication_key>
<error_code>0</error_code>
<error_txt>Transaction successful</error_txt>
</TransferTo>
```

Current balance of sub-account (points to <balance>2.00</balance> and <wallet>2.00</wallet>)

7.2 Get the list of countries offered to my account

Purpose Get the following list

Select a destination:

Afghanistan - Albania - Anguilla - Antigua and Barbuda - Argentina - Armenia - Aruba - Bangladesh - Barbados - Benin - Bolivia - Brazil - British Virgin Islands - Burkina Faso - Burundi - Cambodia - Cameroon - Cayman Islands - Central African Republic - Chile - China - Colombia - Congo - Costa Rica - Cuba - Cyprus - Democratic Republic of the Congo - Dominica - Dominican Republic - Ecuador - Egypt - El Salvador - Fiji - France - Gambia - Ghana - Grenada - Guatemala - Guinea - Guinea Bissau - Guyana - Haiti - Honduras - India - Indonesia - Iraq - Ivory Coast - Jamaica - Jordan - Kazakhstan - Kenya - Laos - Liberia - Madagascar - Malaysia - Mali - Mexico - Moldova - Montserrat - Morocco - Mozambique - Nauru - Nepal - Nicaragua - Niger - Nigeria - Pakistan - Palestine - Panama - Papua New Guinea - Paraguay - Peru - Philippines - Poland - Puerto Rico - Romania - Russia - Rwanda - Samoa - Senegal - Sierra Leone - Singapore - Somalia - South Africa - Spain - Sri Lanka - St Kitts and Nevis - St Lucia - St Vincent Grenadines - Sudan - Suriname - Swaziland - Syria - Tanzania - Thailand - Togo - Tonga - Trinidad and Tobago - Tunisia - Turkey - Turks and Caicos - Uganda - Ukraine - United States - Uruguay - Vanuatu - Vietnam - Yemen - Zambia - Zimbabwe - all

Method **pricelist**

Returns the list of countries offered to your account when request is sent with “countries” in argument (see above).

Request Parameters

Name	Type	Required (Yes/No)	Description
login	Alphanumeric String	Y	Account login name provided by TransferTo.
key	Integer	Y	Key generated by the client. The transaction is rejected if the key has been used.
md5	Alphanumeric String	Y	MD5 sum of the hex encoded concatenation of login, token, and key.
action	Alphanumeric String	Y	Must be set to “pricelist”
info_type	Alphanumeric String	Y	Must be set to “countries” to return the list of all countries offered to the account name defined in login parameter.

Response Parameters

Name	Type	Description
authentication_key	Integer	Key generated by the client to perform the request (specified in key request parameter). The transaction is rejected if the key has been used.
error_code	Integer	Error code of the transaction. Refer to section 9.0 to see the list of error codes returned by the API.
error_txt	Alphanumeric String	Description of the error.
country	Alphanumeric String	List of countries offered.
countryid	Integer	List of respective unique ID of countries listed in parameter "country".

Sample Request

```
<xml>
<login>your_login</login>
<key>1326965217</key>
<md5>md5</md5>
<info_type>countries</info_type>
<action>pricelist</action>
</xml>
```

Sample Response

```
<TransferTo>
<country>Afghanistan,Albania,Anguilla,Antigua and Barbuda,Argentina,Armenia,Aruba</country>
<countryid>661,662,916,668,669,670,671</countryid>
<authentication_key>1337662098</authentication_key>
<error_code>0</error_code>
<error_txt>Transaction successful</error_txt>
</TransferTo>
```





7.3 Get the list of operators for a given country

Purpose Send a country ID to get the list of operators offered in this destination

Select a destination:

[Afghanistan](#) - [Albania](#) - [Anguilla](#) - [Antigua and Barbuda](#) - [Argentina](#) - [Armenia](#) - [Aruba](#) - [Bangladesh](#) - [Barbados](#) - [Benin](#) - [Bolivia](#) - [Brazil](#) - [British Virgin Islands](#) - [Burkina Faso](#) - [Burundi](#) - [Cambodia](#) - [Cameroon](#) - [Cayman Islands](#) - [Central African Republic](#) - [Chile](#) - [China](#) - [Colombia](#) - [Congo](#) - [Costa Rica](#) - [Cuba](#) - [Cyprus](#) - [Democratic Republic of the Congo](#) - [Dominica](#) - [Dominican Republic](#) - [Ecuador](#) - [Egypt](#) - [El Salvador](#) - [Fiji](#) - [France](#) - [Gambia](#) - [Ghana](#) - [Grenada](#) - [Guatemala](#) - [Guinea](#) - [Guinea Bissau](#) - [Guyana](#) - [Haiti](#) - [Honduras](#) - [India](#) - [Indonesia](#) - [Iraq](#) - [Ivory Coast](#) - [Jamaica](#) - [Jordan](#) - [Kazakhstan](#) - [Kenya](#) - [Laos](#) - [Liberia](#) - [Madagascar](#) - [Malaysia](#) - [Mali](#) - [Mexico](#) - [Moldova](#) - [Montserrat](#) - [Morocco](#) - [Mozambique](#) - [Nauru](#) - [Nepal](#) - [Nicaragua](#) - [Niger](#) - [Nigeria](#) - [Pakistan](#) - [Palestine](#) - [Panama](#) - [Papua New Guinea](#) - [Paraguay](#) - [Peru](#) - [Philippines](#) - [Poland](#) - [Puerto Rico](#) - [Romania](#) - [Russia](#) - [Rwanda](#) - [Samoa](#) - [Senegal](#) - [Sierra Leone](#) - [Singapore](#) - [Somalia](#) - [South Africa](#) - [Spain](#) - [Sri Lanka](#) - [St Kitts and Nevis](#) - [St Lucia](#) - [St Vincent Grenadines](#) - [Sudan](#) - [Suriname](#) - [Swaziland](#) - [Syria](#) - [Tanzania](#) - [Thailand](#) - [Togo](#) - [Tonga](#) - [Trinidad and Tobago](#) - [Tunisia](#) - [Turkey](#) - [Turks and Caicos](#) - [Uganda](#) - [Ukraine](#) - [United States](#) - [Uruguay](#) - [Vanuatu](#) - [Vietnam](#) - [Yemen](#) - [Zambia](#) - [Zimbabwe](#) - [all](#)

Download products for: Indonesia - All Countries

Country	Operator	Denomination	Your Buying Price	Selling Price	Your Margin [?]	Transaction Fee [?]	Status
				Reset all		Reset all	Reset all
Indonesia (+62)	<div> <div>AAA-TESTING Indonesia USD (1562)</div> <div>  </div> </div>	USD 1	USD 0.03	USD 0.10	70.00 %	0.00	Live
		USD 2	USD 0.03	USD 0.10	70.00 %	0.00	Live
		USD 3	USD 0.03	USD 0.10	70.00 %	0.00	Live
		USD 5	USD 0.03	USD 0.10	70.00 %	0.00	Live
		USD 10	USD 0.03	USD 0.10	70.00 %	0.00	Live
Country	Operator	Denomination	Your Buying Price	Selling Price	Your Margin [?]	Transaction Fee [?]	Status
				Reset all		Reset all	Reset all
Indonesia (+62)	<div> <div>Axis Indonesia (1411)</div> <div>  </div> </div>	IDR 5000	USD 0.85	USD 1.00	15.00 %	0.00	Live
		IDR 10000	USD 1.28	USD 1.50	14.67 %	0.00	Live
		IDR 25000	USD 2.98	USD 3.50	14.86 %	0.00	Live
		IDR 50000	USD 5.53	USD 6.50	14.92 %	0.00	Live
		IDR 100000	USD 11.05	USD 13.00	15.00 %	0.00	Live
Country	Operator	Denomination	Your Buying Price	Selling Price	Your Margin [?]	Transaction Fee [?]	Status
				Reset all		Reset all	Reset all
Indonesia (+62)	<div> <div>Ceria Indonesia (1839)</div> <div>  </div> </div>	IDR 5000	USD 0.60	USD 0.70	14.29 %	0.00	Live
		IDR 10000	USD 1.16	USD 1.35	14.07 %	0.00	Live
		IDR 20000	USD 2.27	USD 2.66	14.66 %	0.00	Live
		IDR 50000	USD 5.62	USD 6.57	14.46 %	0.00	Live
		IDR 100000	USD 11.19	USD 13.10	14.58 %	0.00	Live
Country	Operator	Denomination	Your Buying Price	Selling Price	Your Margin [?]	Transaction Fee [?]	Status
				Reset all		Reset all	Reset all
Indonesia (+62)	<div> <div>Esia Bakrie Telecom Indonesia (1326)</div> <div>  </div> </div>	IDR 5000	USD 0.85	USD 1.00	15.00 %	0.00	Live
		IDR 10000	USD 1.28	USD 1.50	14.67 %	0.00	
		IDR 25000	USD 2.98	USD 3.50	14.86 %	0.00	
		IDR 50000	USD 5.53	USD 6.50	14.92 %	0.00	

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Method **pricelist**

Returns the list of operators offered to your account, for a specific country, when request is sent with "countryid" in argument (see above).

Request Parameters

Name	Type	Required (Yes/No)	Description
login	Alphanumeric String	Y	Account login name provided by TransferTo.
key	Integer	Y	Key generated by the client. The transaction is rejected if the key has been used.
md5	Alphanumeric String	Y	MD5 sum of the hex encoded concatenation of login, token, and key.
action	Alphanumeric String	Y	Must be set to "pricelist"
info_type	Alphanumeric String	Y	Must be set to "country" to return the list of operators available in the given country.
content	Integer	Y	This parameter is related to info_type: defines the countryid for which the operator list is requested.

Response Parameters

Name	Type	Description
authentication_key	Integer	Key generated by the client to perform the request (specified in key request parameter). The transaction is rejected if the key has been used.
error_code	Integer	Error code of the transaction. Refer to section 9.0 to see the list of error codes returned by the API.
error_txt	Alphanumeric String	Description of the error.
country	Alphanumeric String	Country requested.
countryid	Integer	Unique ID of the requested country.
operator	Alphanumeric String	List of destination operators offered.
operatorid	Integer	List of respective unique operators ID of operator listed in parameter "operator".

Sample Request

```
<xml>
<login>your_login</login>
<key>1326965217</key>
<md5>md5</md5>
<info_type>country</info_type>
<content>767</content>
<action>pricelist</action>
</xml>
```


Specify the country ID from which you request operator list.

Sample Response

```
<xml>
<country>Indonesia</country>
<countryid>767</countryid>
<operator>Indosat Starone Indonesia,Telkom Flexi Indonesia,Indosat IM3 Indonesia,AAA-TESTING Indone-
sia,Esia Bakrie Telecom Indonesia,Indosat Mentari Indonesia,Telkomsel Simpati Indonesia,Three Telecom
Indonesia,Telkomsel KartuAS Indonesia,Excelcom Indonesia,Axis Indonesia</operator>
<operatorid>1320,1322,1313,1310,1326,1312,1324,1327,1325,215,1411</operatorid>
<authentication_key>1337662386</authentication_key>
<error_code>0</error_code>
<error_txt>Transaction successful</error_txt>
</xml>
```

7.4 Get the list of products for a given operator

Purpose Send an operator ID to get the list of denomination as well as **wholesale** and **retail** prices.

Country	Operator	Denomination	Your Buying Price	Selling Price Reset all
Indonesia (+62)	 Indosat IM3 Indonesia (1313)	IDR 5000	USD 0.85	USD 1.00
		IDR 10000	USD 1.28	USD 1.50
		IDR 25000	USD 2.98	USD 3.50
		IDR 50000	USD 5.53	USD 6.50
		IDR 100000	USD 11.05	USD 13.00

Method [pricelist](#)


Returns the list of denomination including wholesale and retail prices offered to your account, for a specific operator, when request is sent with “operatorid” in argument (see above).

Request Parameters

Name	Type	Required (Yes/No)	Description
login	Alphanumeric String	Y	Account login name provided by TransferTo.
key	Integer	Y	Key generated by the client. The transaction is rejected if the key has been used.
md5	Alphanumeric String	Y	MD5 sum of the hex encoded concatenation of login, token, and key.
action	Alphanumeric String	Y	Must be set to “pricelist”
info_type	Alphanumeric String	Y	Must be set to “operator” to return the list of wholesale and retail prices available for the given operator.
content	Integer	Y	This parameter is related to info_type: defines the operatorid for which the prices lists are requested.

Response Parameters

Name	Type	Description
authentication_key	Integer	Key generated by the client to perform the request (specified in key request parameter). The transaction is rejected if the key has been used.
error_code	Integer	Error code of the transaction. Refer to section 9.0 to see the list of error codes returned by the API.
error_txt	Alphanumeric String	Description of the error.
country	Alphanumeric String	Country of the requested operator.
countryid	Integer	Unique ID of the country.
operator	Alphanumeric String	Operator requested.
operatorid	Integer	Unique ID of the operator.
destination_currency	Alphanumeric String	Currency of the destination country.
product_list	String	Returns the list of all available products configured for the current account and the given operator. Products are separated by a comma.
retail_price_list	String	Returns the list of all final retail prices configured for the current account and the given operator. Prices are separated by a comma and in the currency of the current account.
wholesale_price_list	String	Returns the wholesale price (also known as Your Cost) list of all available products configured for the current account and the given operator. Prices are separated by a comma and in the currency of the current account.

Country	Operator	Denomination	Your Buying Price	Selling Price Reset all
Indonesia (+62)	 Indosat IM3 Indonesia (1313)	IDR 5000	USD 0.85	USD 1.00
		IDR 10000	USD 1.28	USD 1.50
		IDR 25000	USD 2.98	USD 3.50
		IDR 50000	USD 5.53	USD 6.50
		IDR 100000	USD 11.05	USD 13.00

Sample Request

```

<xml>
<login>your_login</login>
<key>1326965217</key>
<md5>md5</md5>
<info_type>operator</info_type>
<content>1313</content>
<action>pricelist</action>
</xml>

```

Specify the operator ID from which you request price list.

Sample Response

```

<xml>
<country>Indonesia</country>
<countryid>767</countryid>
<operator>Indosat IM3 Indonesia</operator>
<operatorid>1313</operatorid>
<destination_currency>IDR</destination_currency>
<product_list>5000,10000,20000,25000,50000,100000</product_list>
<wholesale_price_list>0.85,1.28,2.98,5.53,11.05</wholesale_price_list>
<retail_price_list>1.00,1.50,3.50,6.50,13.00</retail_price_list>
<authentication_key>1337662386</authentication_key>
<error_code>0</error_code>
<error_txt>Transaction successful</error_txt>
</TransferTo>

```

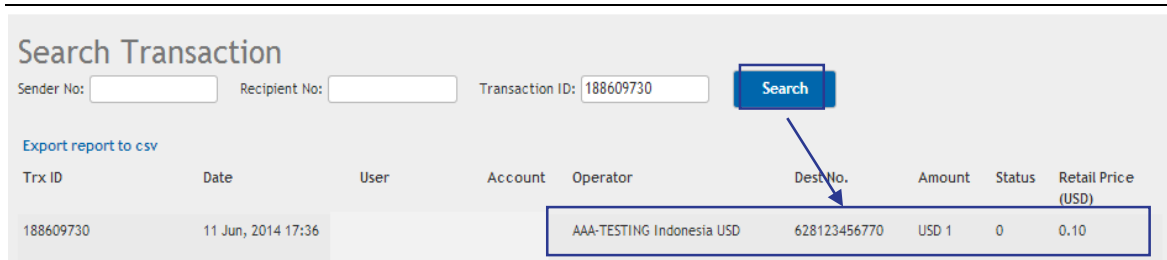
8.0 Reports: Transaction Information Query

In this section, you will find the following information:

- How to retrieve information on a transaction from an ID
- How to retrieve a list of transaction performed during a given date range
- How to retrieve a transaction ID from the unique key used during the transaction query

8.1 Get information from a transaction ID

Purpose Get destination phone number, topup amount, retail price, etc.



Method `trans_info`

Returns all available information on a specific transaction ID.

Please note that this method is useless if called just after **topup** request. First because it can take time to update database. Besides, the **topup** response provides the same information.

Request Parameters

Name	Type	Required (Yes/No)	Description
login	Alphanumeric String	Y	Account login name provided by TransferTo.
key	Integer	Y	Key generated by the client. The transaction is rejected if the key has been used.
md5	Alphanumeric String	Y	MD5 sum of the hex encoded concatenation of login, token, and key.
action	Alphanumeric String	Y	Must be set to "trans_info"
transactionid	Integer	Y	ID of the transaction which requires information.

Response Parameters

8.1.1 PIN Less

Name	Type	Description
transactionid	Integer	Defines the ID of the transaction.
msisdn	Alphanumeric String	The international phone number or name of the user (sender) requesting to credit a phone number.
destination_msisdn	Numeric String	Destination MSISDN (usually recipient phone number).
transaction_authentication_key	Integer	Authentication key used during the transaction.
transaction_error_code	Integer	Error code linked to the transaction ID specified in the request.
transaction_error_txt	Alphanumeric String	Description of the error linked to the transaction ID specified in the request.
country	Alphanumeric String	Country of the destination operator.
countryid	Integer	Unique ID of the destination country.
operator	Alphanumeric String	Destination operator name.
operatorid	Integer	Destination operator ID returned only if forced by client, else blank.
reference_operator	Alphanumeric String	Reference of the operator (returned only if available).
product_requested	Float	Value of the product defined in “product” field of the topup request.
actual_product_sent	Float	Returns the value requested to the operator (equals to product_requested in case of successful transaction). It equals to 0 when Top-up failed.
wholesale_price	Numeric	Returns the cost of the product defined in “product” field of the request. This cost is set in the account’s currency.
retail_price	Numeric	Returns the retail price of the product as configured in the account.

Name	Type	Description
sms	Alphanumeric String	Recipient SMS Returns the custom message appended to the default notification SMS sent to the recipient.
cid1	Alphanumeric String	Value of the customized field cid1 sent in the Top-up request.
cid2	Alphanumeric String	Value of the customized field cid2 sent in the Top-up request.
cid3	Alphanumeric String	Value of the customized field cid3 sent in the Top-up request.
date	String	Date of the transaction (GMT).
originating_currency	Alphanumeric String	Currency of the account from which the transaction is requested.
destination_currency	Alphanumeric String	Currency of the destination country.
pin_based	String	Type of product returned ("Yes", default "No" if not set).
local_info_amount	Numeric	Final amount received by recipient. Indicative value only.
local_info_currency	Alphanumeric String	Local currency in destination
local_info_value	Numeric	Value of this transaction before tax and service fee in local currency.
authentication_key	Integer	Key generated by the client to perform the request (specified in key request parameter). The transaction is rejected if the key has been used.
error_code	Integer	Error code of the transaction. Refer to section 10 to see the list of error codes returned by the API.
error_txt	Alphanumeric String	Description of the error.

Sample Request

```
<xml>  
<login>your_login</login>  
<key>1326967613</key>  
<md5>md5</md5>  
<transactionid>188609730</transactionid>  
<action>trans_info</action>  
</xml>
```

Sample Response

#	Trx ID	Date(UTC)	Tag	User	Sender	Dest No.	Operator	Amt	Status	cid1	cid2	cid3	Retail Price	Wholesale Price	Fee
1	188609730	11Jun2014 17:36			a friend	628123456770	AAA-TESTING Indonesia USD	1.00	0				0.00	0.03	0.00

```

<TransferTo>
<transactionid>188609730</transactionid>
<msisdn>69999999999</msisdn>
<destination_msisdn>628123456770</destination_msisdn>
<transaction_authentication_key>1326963417</transaction_authentication_key>
<transaction_error_code>0</transaction_error_code>
<transaction_error_txt>Transaction successful</transaction_error_txt>
<country>Indonesia</country>
<countryid>767</countryid>
<operator>AAA-TESTING Indonesia</operator>
<operatorid>0</operatorid>
<reference_operator>HASH(0x1343f70)</reference_operator>
<product_requested>1.00</product_requested>
<actual_product_sent>1.00</actual_product_sent>
<wholesale_price>0.03</wholesale_price>
<retail_price>0.00</retail_price>
<sms>Tshop test from me</sms>
<cid1></cid1>
<cid2></cid2>
<cid3></cid3>
<date>2014-06-11 17:36:21.326342</date>
<originating_currency>USD</originating_currency>
<destination_currency>IDR</destination_currency>
<authentication_key>1326967613</authentication_key>
<pin_based>no</pin_based>
<local_info_amount>1</local_info_amount>
<local_info_currency>IDR</local_info_currency>
<local_info_value>1</local_info_value>
<error_code>0</error_code>
<error_txt>Transaction successful</error_txt>
</TransferTo>

```

Key used to perform the transaction 188609730.

8.1.2 PIN Based

Response Parameters (additional parameters applicable to PIN Based only)

Name	Type	Description
pin_based	String	Returns “Yes” if PIN-based transactions. Else “No”.
pin_validity	String	Validity of the PIN.
pin_code	Alphanumeric String	Code of the PIN.
pin_ivr	Integer	IVR number of the PIN.
pin_serial	Alphanumeric String	Serial number of the PIN.
pin_value	Integer	Value of the PIN.
pin_option_1	String	Additional information. For example, it can describe how to use the PIN directly from handset (by entering a dedicated USSD code).
pin_option_2	String	Additional information. For example, it can provide the operator refill website.
pin_option_3	String	Additional information. For example, it can provide the operator refill call center.

Sample Request

```
<xml>
<login>your_login</login>
<key>1326968024</key>
<md5>md5</md5>
<transactionid>77749654</transactionid>
<action>trans_info</action>
</xml>
```


Sample Response

```
<TransferTo>
<transactionid>77749654</transactionid>
<msisdn>69999999999</msisdn>
<destination_msisdn>9779742045269</destination_msisdn>
<transaction_authentication_key>1326964272</transaction_authentication_key>
<transaction_error_code>0</transaction_error_code>
<transaction_error_txt>Transaction successful</transaction_error_txt>
<country>Nepal</country>
<countryid>819</countryid>
<operator>NTC CDMA Nepal</operator>
<operatorid>0</operatorid>
<reference_operator></reference_operator>
<product_requested>200</product_requested>
<actual_product_sent>200</actual_product_sent>
<wholesale_price>2.58</wholesale_price>
<retail_price>3.30</retail_price>
<sms>Free credit from TransferTo</sms>
<cid1></cid1>
<cid2></cid2>
<cid3></cid3>
<date>2012-01-19 09:11:13.792268</date>
<originating_currency>USD</originating_currency>
<destination_currency>NPR</destination_currency>
<pin_based>yes</pin_based>
<pin_value>200</pin_value>
<pin_code>12345678901234</pin_code>
<pin_ivr>1415</pin_ivr>
<pin_serial>123456789123456789</pin_serial>
<pin_validity>2014-01-18T00:00:00+05:45</pin_validity>
<pin_option_1>To recharge your mobile, dial 1415 from your own Pre-Paid mobile phone and follow the in-
structions.</pin_option_1>
<pin_option_2>SkyPhone</pin_option_2>
<pin_option_3></pin_option_3>
<local_info_amount>2.80</local_info_amount>
<local_info_currency>NPR</local_info_currency>
<local_info_value>2.80</local_info_value>
<authentication_key>1326968024</authentication_key>
<error_code>0</error_code>
<error_txt>Transaction successful</error_txt>
</TransferTo>
```

8.2 Get the list of transactions performed during a given date range

Method `trans_list`

Returns the list of transactions performed during a given date range.

Request Parameters

Name	Type	Required (Yes/No)	Description
login	Alphanumeric String	Y	Account login name provided by TransferTo.
key	Integer	Y	Key generated by the client. The transaction is rejected if the key has been used.
md5	Alphanumeric String	Y	MD5 sum of the hex encoded concatenation of login, token, and key.
action	Alphanumeric String	Y	Must be set to "trans_list"
destination_msisdn	Numeric String	N	Destination MSISDN (usually recipient phone number). This is the destination phone number that will be credited with the amount transferred. Format is similar to "msisdn" and restricted to international phone number only.
msisdn	Alphanumeric String	N	The international phone number or name of the user requesting to credit a phone number (sender phone number). The format must contain the country code, and will be valid with or without the '+' or '00' placed before it. For example: "6012345678" or "+6012345678" or "006012345678" (Malaysia) or "John" are all valid. This field must not be empty.
code	Numeric String	N	The error_code of the transactions to search for. E.g "0" to search for only all successful transactions. If left empty, all transactions will be returned (Failed and successful).

Name	Type	Required (Yes/No)	Description
start_date	String	Y	Defines the start date of the search (included). Format must be YYYY-MM-DD.
stop_date	String	Y	Defines the end date of the search (included). Format must be YYYY-MM-DD.

Response Parameters

Name	Type	Description
authentication_key	Integer	Key generated by the client to perform the request (specified in key request parameter). The transaction is rejected if the key has been used.
error_code	Integer	Error code of the transaction. Refer to section 9.0 to see the list of error codes returned by the API.
error_txt	Alphanumeric String	Description of the error.
status_code	Integer	Transaction status. 0 will be returned in case of successful transaction. Deprecated, use field "error_code" instead.
transaction_list	String	List of transaction IDs found based on search parameters (date range and MSISDN). Transactions are separated by a comma.

Sample Request

```

<xml>
<login>your_login</login>
<key>1217301496240</key>
<md5>14d1a9f386479b2af4d62a8f932f5d79</md5>
<msisdn>6598236911</msisdn>
<destination_msisdn>628123456770</destination_msisdn>
<code>0</code>
<start_date>2008-01-01</start_date>
<stop_date>2008-08-01</stop_date>
<action>trans_list</action>
</xml>

```

Refine the research by specifying Sender or/and Recipient Phone

Define the date range (mandatory parameters).

Sample Response

```
<TransferTo>
<status_code>0</status_code>
<transaction_list>6115,6137,6183,6184,6204,6514,8129,8135,14888,14891</transaction_list>
<error_txt>Transaction successful</error_txt>
<authentication_key>1217301496240</authentication_key>
<error_code>0</error_code>
</TransferTo>
```

8.3 Get a transaction ID from a given key

Method `get_id_from_key`

Returns the ID of a transaction previously performed based on the key used in the request at that time.

Request Parameters

Name	Type	Required (Yes/No)	Description
login	Alphanumeric String	Y	Account login name provided by TransferTo.
key	Integer	Y	Key generated by the client. The transaction is rejected if the key has been used.
md5	Alphanumeric String	Y	MD5 sum of the hex encoded concatenation of login, token, and key.
action	Alphanumeric String	Y	Must be set to "get_id_from_key"
from_key	Integer	Y	Key used during a transaction previously performed, whom ID is requested.

Response Parameters

Name	Type	Description
authentication_key	Integer	Key generated by the client to perform the request (specified in key request parameter). The transaction is rejected if the key has been used.
error_code	Integer	Error code of the transaction. Refer to section 9.0 to see the list of error codes returned by the API.
error_txt	Alphanumeric String	Description of the error.
from_key	Integer	Key used during a transaction previously performed, whom ID is requested (same as the one specified in from_key request parameter).
id	Integer	ID of the transaction you were looking for. Blank if not found

Sample Request

```
<xml>
<login>your_login</login>
<key>1217303174266</key>
<md5>b70aa58d2fe87d0bb0cd2b1902e5fce2</md5>
<from_key>1334909705</from_key>
<action>get_id_from_key</action>
</xml>
```

← *Key used during the transaction.*

Sample Response

```
<TransferTo>
<error_txt>Transaction successful</error_txt>
<authentication_key>1217303174266</authentication_key>
<error_code>0</error_code>
<id>7654321</id>
</TransferTo>
```

← *Transaction ID linked to the given Key.*

9.0 Standard API Errors

Code	Text	Description
0	Transaction successful.	Indicates the Top-up was successfully delivered to the recipient.
101	Destination MSISDN out of range	<p>Numbering plan not recognized: the destination/recipient number was not identified as to belonging to any operators covered by TransferTo.</p> <p>Re-check recipient number and/or escalate the case to the TransferTo Support Team for further investigation.</p>
104	MSISDN in blacklist	Here MSISDN refers to both sender and recipient phone numbers which are blacklisted due to fraudulent activities.
105	Not enough credit on your account	Transaction failed due to insufficient funds in your account's prepaid balance. Please reload balance and try again.
200	Transaction canceled by Customer	
202	Transaction canceled by TransferTo	
203	Transaction incomplete	<p>Transaction failed due to a technical issue.</p> <p>Please contact TransferTo Support Team for further investigation.</p>
204	Destination Account is not prepaid or not valid	Transaction refused by the operator because the recipient phone number is not a valid prepaid account.
207	Transaction amount limit exceeded	<p>Here limit refers to maximum amount defined for the destination MSISDN. There are some limitations set on the operator's side, not controlled by TransferTo. When one of these limits is reached, error code 207 will be returned.</p> <p>Some examples:</p> <ul style="list-style-type: none"> Indosat Indonesia operator's end, the customer must wait at least 5 mins before sending another transfer to the same recipient account. Indian operators' end, the customer must wait 3 mins before sending another transfer of the same amount to the same recipient account. Orange Africa, the recipient account is limited to a maximum rechargeable amount of 30 Euros per week and 60 Euros per month.
213	Repeated transaction	Transaction refused because it was submitted too closely after a preceding Top-up attempt.
214	Topup refused	<p>Transaction refused by the operator for a reason that was not specified.</p> <p>Common reasons for these types of failures are:</p> <ul style="list-style-type: none"> Recipient number not valid for recharge. Service outage temporarily faced on the operator. <p>Please try again at a later time and/or contact the TransferTo Support Team if the problem persists.</p>

Code	Text	Description
215	Service to this destination operator is temporarily unavailable	Transaction failed due to an outage and/or connection issue with the operator. Please try again at a later time and/or contact the TransferTo Support Team if the problem persists.
216	Destination number not activated	Transaction refused by the operator because the recipient number has not been activated.
217	Destination number expired	Transaction refused by the operator because the recipient number is no longer an active account.
218	Request timeout	Transaction timed-out and failed because of the long processing duration. Please try again at a later time and/or contact the TransferTo Support Team if the problem persists.
219	Key does not exist	Request failed because the key provided does not exist (error returned for get_id_from_key method requests only).
221	Fraud suspicion	Transaction refused and the recipient number flagged for suspicion of fraud, due to the number of consecutive Top-up requests within a short gap of time. The recipient phone number will be locked out from receiving any Top-up for a certain period of time, after which, the restriction will be automatically released.
222	Number barred from refill	This error code is returned when the recipient has been blocked from refill directly by the recipient's operator. It prevents TransferTo system from reloading his account. Recipient must call the operator's customer service to unblock it
223	ID not reserved	Transaction failed because the transaction ID specified in the request was not previously reserved.
224	Invalid length of destination MSISDN	Transaction failed because the recipient number length does not match (shorter or longer) the mobile number format of the country.
230	Recipient reached maximum topup number	This error is returned when a recipient reaches the maximum number of Top-up allowable in a certain gap of time. <ul style="list-style-type: none"> 01 Day(s) => 10 07 Day(s) => 15 30 Day(s) => 40

Code	Text	Description
231	Recipient reached maximum topup amount	This error is returned when a recipient reaches the maximum amount (in USD) of Top-up allowable in a certain gap of time. <ul style="list-style-type: none"> 01 Day(s) => max 100 USD 07 Day(s) => max 150 USD 30 Day(s) => max 200 USD
232	Account reached maximum topup number	This error is returned when your account has reached its maximum number of Top-up allowable in a certain gap of time.
233	Account reached maximum topup amount	This error is returned when your account has reached its maximum amount (in USD) of Top-up allowable in a certain gap of time.
241	Account reached maximum daily topup amount	This error is returned when your account has reached its maximum amount (in USD) of Top-up allowable within a day.
242	Account reached maximum daily topup number	This error is returned when your account has reached its maximum number of Top-up allowable within a day.
243	Account reached maximum weekly topup amount	This error is returned when your account has reached its maximum amount (in USD) of Top-up allowable within a week.
244	Account reached maximum weekly topup number	This error is returned when your account has reached its maximum number of Top-up allowable within a week.
245	Account reached maximum monthly topup amount	This error is returned when your account has reached its maximum amount (in USD) of Top-up allowable within a month.
246	Account reached maximum monthly topup number	This error is returned when your account has reached its maximum number of Top-up allowable within a month.
251	Sender reached maximum daily topup amount	This error is returned when the sender has reached its maximum amount (in USD) of Top-up allowable within a day.
252	Sender reached maximum daily topup number	This error is returned when the sender has reached its maximum number of Top-up allowable within a day.
253	Sender reached maximum weekly topup amount	This error is returned when the sender has reached its maximum amount (in USD) of Top-up allowable within a week.
254	Sender reached maximum weekly topup number	This error is returned when the sender has reached its maximum number of Top-up allowable within a week.
255	Sender reached maximum monthly topup amount	This error is returned when the sender has reached its maximum amount (in USD) of Top-up allowable within a month.
256	Sender reached maximum monthly topup number	This error is returned when the sender has reached its maximum number of Top-up allowable within a day month.
301	Denomination not available	Denomination not available for this destination.

Code	Text	Description
310	Denomination blocked	Transaction failed because the Top-up is no longer available on the operator's offer or on the account.
311	Operator blocked	Transaction failed because the Top-up is no longer available on the account.
312	Operator blocked by customer	Transaction failed because operator have been blocked explicitly in customer account.
320	Requested amount out of range	Transaction failed because the Top-amount request was not within the range of valid amounts.
321	Requested currency not allowed for this account	Transaction failed because the currency specified is not valid for the account.
401	Transaction ID not found or was not made by your account	No transaction was found with the ID specified (error returned for trans_info method requests only).
777	Insufficient balance in your master account	Transaction failed because there are not enough funds in your master account.
888	Insufficient balance in your sub-account	Transaction failed because there are not enough funds in your sub-account.
900	Not enough information to process the topup	Transaction failed because some of the required fields in your Top-up request are missing/empty.
901	Invalid action	Transaction failed because the action specified in <action> field of the request is not valid.
902	Invalid input_currency	
903	Invalid output_currency	
904	Invalid input_value	
905	Invalid start_date	
906	Invalid stop_date	
907	Invalid transaction ID	Transaction ID specified in the <reserved_id> of the Top-up request is not valid.
908	Account not configured for this service	Transaction failed because the account is not configured to carry out the requested action.
909	Invalid flag	Transaction failed because the request included an invalid field/parameter.
919	All required argument not received	Transaction failed because the request is missing a mandatory field/parameter.
921	Wrong MD5 encoding	Transaction failed because the MD5 hash was not correct. Typically indicates that the password is incorrect.

Code	Text	Description
922	Originating IP not allowed	Transaction failed because the request originated from an IP that is not whitelisted for the account.
923	Key or MD5 value cannot be empty	Request failed because Key or MD5 values are empty.
925	Key already used or invalid key value	Request failed because the key value included in the request was not unique than the previous key used.
926	Account not active. Please contact your Account Manager.	
995	Account not found. Please enter and use a correct login.	
998	System not available. Please retry later.	Request failed due to technical issues. Please contact TransferTo Support Team for further investigation.
999	Unknown error.	To be escalated to the TransferTo Support Team for further investigation.

10.0 Annexes

10.1 Sample Code in JAVA for MD5 Generation

This class generates the MD5 value in JAVA language.

```
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import java.util.GregorianCalendar;

class HelloWorldApp {

    public static void main(String[] args)
    {
        String md5_string = getKeyedDigest("your_login","your_token","your_key");
        System.out.println(md5_string);
    }

    public static String getKeyedDigest(String login, String token, String key)
    {
        try {
            String temp = login + token + key;
            MessageDigest md5 = MessageDigest.getInstance("MD5");
            byte[] bytes = md5.digest(temp.getBytes());
            return byteToHex(bytes);
        } catch (NoSuchAlgorithmException)
        {
            System.out.println("oops");
        }
        return null;
    }

    public static String byteToHex(byte[] bits)
    {
        if (bits == null)
        {
            return null;
        }
        StringBuffer hex = new StringBuffer(bits.length * 2);
        for (int i = 0; i < bits.length; i++)
        {
            if (((int) bits[i] & 0xff) < 0x10)
            {
                hex.append("0");
            }
            hex.append(Integer.toString((int) bits[i] & 0xff, 16));
        }
    }
}
```

```
        return hex.toString();  
    }  
}
```

10.2 Sample Code in PHP

https://shop.transferto.com/shop/v3/demo/api_sample.php

```
<?php  
//TransferTo  
//Sample code to send request to API  
//Version 1.03  
//7th Feb 2013  
  
// TransferTo account credentials  
$login="your_login";  
$token ="your_token";  
  
// MD5 calculation  
$key=time();  
$md5=md5($login.$token.$key);  
  
// TransferTo Platform  
$url="https://airtime.transferto.com/cgi-bin/shop/topup";  
  
//Test data  
$destination_msisdn="+628123456770";  
?>  
  
Check Wallet:  
<form name="wallet" method="post" action="<?php echo $url?>" >  
<input type="text" name="login" value="<?php echo $login?>" >  
<input type="hidden" name="key" value="<?php echo $key?>" >  
<input type="hidden" name="md5" value="<?php echo $md5?>" >  
<input type="hidden" name="action" value="check_wallet" >  
<input type="submit" value="submit" />  
</form>  
  
Check a destination number or get products for a number:  
<form name="recipient" method="post" action="<?php echo $url ?>" >  
<input type="hidden" name="login" value="<?php echo $login ?>" >  
<input type="hidden" name="key" value="<?php echo $key ?>" >  
<input type="hidden" name="md5" value="<?php echo $md5 ?>" >  
<input type="text" name="destination_msisdn" value="<?php echo $destination_msisdn ?>" >  
<input type="hidden" name="action" value="msisdn_info" >  
<input type="submit" value="submit" />  
</form>
```

Send a Topup:

```
<form name="topup" method="post" action="<?php echo $url ?>" >
<input type="hidden" name="login" value="<?php echo $login ?>" >
<input type="hidden" name="key" value="<?php echo $key ?>" >
<input type="hidden" name="md5" value="<?php echo $md5 ?>" >
<input type="hidden" name="delivered_amount_info" value="1" >
<input type="text" name="destination_msisdn" value="<?php echo $destination_msisdn ?>" >
<input type="text" name="msisdn" value="<?php echo $msisdn ?>" >
<input type="text" name="product" value="<?php echo $product ?>" >
<input type="hidden" name="action" value="topup" >
<input type="submit" value="submit" />
</form>
```

10.3 URL to retrieve operator logo images

TransferTo API offers the possibility to retrieve operator logo images.

It is quick and easy, you just need to know the operatorid.

The URL is the following: <https://operator-logo.transferto.com/logo-ID-SIZE.png>





- **ID** is the operatorid
- **SIZE** is an integer from 1 (smallest) to 3 (biggest).







Tigo Sample: <https://operator-logo.transferto.com/logo-1529-1.png>

Orange Sample: <https://operator-logo.transferto.com/logo-1530-1.png>

MTN Sample: <https://operator-logo.transferto.com/logo-1526-1.png>

10.4 Web Developers Samples

 Orange Top-Up Top-up mobile phones with Orange Top-up to over 100 countries. topup.orange.com	 Mobile Recharge With a mobile-friendly interface, send Top-ups quickly to over 100 countries. mobilerecharge.com
 PayPal France based customers only: Send a Top-up to any mobile phone on our network. paypal-mobilereload.com	 Sprint Top-up prepaid wireless accounts for a wide variety of U.S carriers and international carriers in 33 countries. m.transferto.com

 <p>Prepaid Union</p> <p>Top-up phones in 108 countries, no registration necessary. 24/7 support available on chat and mail.</p> <p>prepaidunion.com</p>	 <p>Sendly</p> <p>The most popular mobile top up app in the world. Available now for iPhone and Android.</p> <p>sendly.com</p>
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