



Things Mobile API

Change History

Version	Date	Description
1.20	2020-06-24	deprecated API simList
1.21	2020-06-26	added CURL examples
1.22	2020-07-07	deleted API simList and added sendSms new check in the description of the API
1.23	2020-09-14	added API downloadCdr
1.24	2020-09-25	added APIs call limit
1.25	2020-09-28	API endpoint "www.thingsmobile.com" deprecated
1.26	2020-09-29	added API rechargeSim
1.27	2020-10-08	pagination on simStatus and simListLite
1.28	2020-10-14	fixed test API calls
1.29	2020-12-01	added API disconnectSim
1.30	2021-04-28	added API integration and support paragraph
1.31	2021-06-25	updated test Basic Auth credentials
1.32	2021-06-30	updated 'Setup sim expiration date' description
1.33	2021-07-07	updated API downloadCdr response message
1.34	2021-07-30	updated API simListLite
1.34	2021-07-30	updated description for APIs' pagination usage
1.35	2021-11-17	added API getCdrPaginated
1.36	2021-11-30	pagination on credit API
1.37	2021-12-02	manage new SIM status 'active waiting initial recharge' in simListLite API
1.38	2021-12-06	updated API downloadCdr curl example
1.39	2021-12-09	updated API credit curl example

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1. Overview

Using the API described in this document, any user can manage sims and credit automatically and remotely.

To insure an optimal performance of the API service, Things Mobile APIs are limited by design to filter subsequent calls that are too frequent. In case of too many subsequent requests, the response of Things Mobile APIs will contain the corresponding error code specified in the requested API.

The API endpoint "www.thingsmobile.com" is now marked as **deprecated**. The official domain name is "**api.thingsmobile.com**". Deprecated endpoint "www.thingsmobile.com" will be available until 2020/10/31.

2. API integration and support

Things Mobile REST API integration at client level is responsibility of API users.

In case of API malfunctioning or information request, please contact Things Mobile support attaching an example of HTTP request and the corresponding response to optimize the support procedure.

3. Abbreviations and acronyms

Acronym	Meaning
API	Application Programming Interface
HTTP	HyperText Transfer Protocol
MSISDN	Mobile Subscriber ISDN Number
REST	REpresentational State Transfer
SIM	Subscriber Identity Module
URL	Uniform Resource Locator

4. Things Mobile API

You need your personal token to use the APIs. To create the token go to your IOT portal, in the Profile section, and click the button to generate your token.

APIs that take effect on a single Things Mobile SIM require to specify at least one parameter between MSISDN or ICCID.

If both parameters are left empty, the API will return an input error.

API will return balance in bytes. To get the equivalent value in MB you have to apply the following conversion:

$$1\text{MB} = 1024 * 1024 \text{ byte} = 1048576 \text{ byte}$$

4.1. Activate SIM

description	Activation of a SIM
test env URL	https://test.thingsmobile.com/services/business-api/activateSim
prod env URL	https://api.thingsmobile.com/services/business-api/activateSim
method	POST [form-data]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
msisdn	sim number (i.e.: 882360001975037)	string	YES
simBarcode	sim barcode (19 or 20 digits number)	string	YES

API Call Limit

For this API there is an API call limit. You can make an API call after at least **5 seconds** from your last activateSim API call.

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token" -F "msisdn=sim_msisdn" -F "simBarcode=sim_simbarcode"  
"https://api.thingsmobile.com/services/business-api/activateSim"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal
- *sim_msisdn*: the MSISDN of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal

- *sim_simbarcode*: the ICCID of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal

Output:

OK response:

```
<result>
  <done>true</done>
</result>
```

KO response:

```
<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <errorMessage>Error description</errorMessage>
</result>
```

Error codes:

code	description
10	generic error: <i>description</i>
20	input error: <i>description</i>
30	user error: <i>description</i>
40	sim error: <i>description</i>

4.2. Block sim

description	Block a sim
test env URL	https://test.thingsmobile.com/services/business-api/blockSim
prod env URL	https://api.thingsmobile.com/services/business-api/blockSim
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
msisdn	sim number (i.e.: 882360001975037)	string	NO
iccid	sim iccid (19 or 20 digits number)	string	NO

N.B.: at least one of msisdn or iccid is mandatory

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token" [-F "msisdn=sim_msisdn"] [-F "iccid=sim_iccid"] "https://api.thingsmobile.com/services/business-api/blockSim"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal
- *sim_msisdn*: [optional] the MSISDN of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sim_iccid*: [optional] the ICCID of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal

Output:

OK response:

```
<result>
  <done>true</done>
</result>
```

KO response:

```
<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <errorMessage>Error description</errorMessage>
</result>
```

Error codes:

code	description
10	generic error: <i>description</i>
20	input error: <i>description</i>
30	user error: <i>description</i>
40	sim error: <i>description</i>

4.3. Disconnect sim

description	Disconnect a sim from network
test env URL	https://test.thingsmobile.com/services/business-api/disconnectSim
prod env URL	https://api.thingsmobile.com/services/business-api/disconnectSim
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
msisdn	sim number (i.e.: 882360001975037)	string	NO
iccid	sim iccid (19 or 20 digits number)	string	NO

N.B.: at least one of msisdn or iccid is mandatory

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token" [-F "msisdn=sim_msisdn"] [-F "iccid=sim_iccid"] "https://api.thingsmobile.com/services/business-api/disconnectSim"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal
- *sim_msisdn*: [*optional*] the MSISDN of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sim_iccid*: [*optional*] the ICCID of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal

Output:

OK response:

```
<result>
  <done>true</done>
</result>
```

KO response:

```
<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <errorMessage>Error description</errorMessage>
</result>
```

Error codes:

code	description
10	generic error: <i>description</i>
20	input error: <i>description</i>
30	user error: <i>description</i>
40	sim error: <i>description</i>

4.4. Unblock sim

description	Unblock a sim
test env URL	https://test.thingsmobile.com/services/business-api/unblockSim
prod env URL	https://api.thingsmobile.com/services/business-api/unblockSim
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
msisdn	sim number (i.e.: 882360001975037)	string	NO
iccid	sim iccid (19 or 20 digits number)	string	NO

N.B.: at least one of msisdn or iccid is mandatory

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token" [-F "msisdn=sim_msisdn"] [-F "iccid=sim_iccid"] "https://api.thingsmobile.com/services/business-api/unblockSim"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal
- *sim_msisdn*: [*optional*] the MSISDN of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sim_iccid*: [*optional*] the ICCID of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal

Output:

OK response:

```
<result>
  <done>true</done>
</result>
```

KO response:

```
<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <errorMessage>Error description</errorMessage>
</result>
```

Error codes:

code	description
10	generic error: <i>description</i>
20	input error: <i>description</i>
30	user error: <i>description</i>
40	sim error: <i>description</i>

4.5. SIM status

description	Get infos of a SIM
test env URL	https://test.thingsmobile.com/services/business-api/simStatus
prod env URL	https://api.thingsmobile.com/services/business-api/simStatus
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
msisdn	sim number (i.e.: 882360001975037)	string	NO
iccid	sim iccid (19 or 20 digits number)	string	NO
page	page number for SIM CDRs	string	NO
pageSize	CDR number for page	string	NO

N.B.: at least one of msisdn or iccid is mandatory

API Call Limit

For this API there is an API call limit. You can make an API call after at least **5 seconds** from your last simStatus API call.

API Pagination Parameters

This API has pagination applied for SIM's CDRs. If no parameters are given, default values are:

- **page = 1**
- **pageSize = 2000**

The maximum value for the pageSize parameter is **2000**.

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token" [-F "msisdn=sim_msisdn"] [-F "iccid=sim_iccid"] [-F "page=page"] [-F "pageSize=page_size"]
"https://api.thingsmobile.com/services/business-api/simStatus"
```

Legend:

- *your_username*: username used to register on Things Mobile portal
- *your_token*: token visible in the API section in your Things Mobile portal
- *sim_msisdn*: *[optional]* MSISDN of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sim_iccid*: *[optional]* ICCID of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *page*: *[optional]* number of the requested page. In order to see all the SIMs, increase the page value accordingly
- *page_size*: *[optional]* size of the SIMs list that will be returned for the requested page

Output:

OK response:

```

<result>
  <done>true</done>
  <sims>
    <sim>
      <activationDate>2018-02-07 15:52:49</activationDate>
      <balance>30</balance>
      <blockSimAfterExpirationDate>1</blockSimAfterExpirationDate>
      <blockSimDaily>1</blockSimDaily>
      <blockSimMonthly>1</blockSimMonthly>
      <blockSimTotal>1</blockSimTotal>
      <dailyTraffic>123</dailyTraffic>
      <dailyTrafficThreshold>1000000</dailyTrafficThreshold>
      <expirationDate>2018-02-20 00:00:00</expirationDate>
      <iccid>8944501312167518236</iccid>
      <lastConnectionDate></lastConnectionDate>
      <monthlyTraffic>1234</monthlyTraffic>
      <monthlyTrafficThreshold>2000000</monthlyTrafficThreshold>
      <msisdn>447937557899</msisdn>
      <name>name</name>
      <plan>default</plan>
      <status>active</status>
      <type>AllInOne Sim</type>
      <tag>tag</tag>
      <totalTraffic>0</totalTraffic>
      <totalTrafficThreshold>3000000</totalTrafficThreshold>
      <cdrs>
        <cdr>
          <cdrImsi>123456</cdrImsi>
          <cdrDateStart>2017-01-20 12:45:00</cdrDateStart>
          <cdrDateStop>2017-01-20 12:50:00</cdrDateStop>
          <cdrNetwork>Zone 1</cdrNetwork>
          <cdrCountry>Zone 1</cdrCountry>
          <cdrOperator>ITAWI</cdrOperator>
          <cdrTraffic>123456</cdrTraffic>
        </cdr>
      </cdrs>
    </sim>
  </sims>
</result>

```

status: "active" or "not active"**balance, dailyTraffic, monthlyTraffic, totalTraffic, cdrTraffic:** traffic in bytes

KO response:

```
<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <errorMessage>Error description</errorMessage>
</result>
```

Error codes:

code	description
10	generic error: <i>description</i>
20	input error: <i>description</i>
30	user error: <i>description</i>
40	sim error: <i>description</i>
60	too many requests
70	pagination not valid: <i>description</i>

4.6. Sim list Lite

description	Get sim list info of an user
test env URL	https://test.thingsmobile.com/services/business-api/simListLite
prod env URL	https://api.thingsmobile.com/services/business-api/simListLite
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
name	name of the sim	string	NO
tag	tag of the sim	string	NO
status	status of the SIM	string	NO
page	page number for user's SIM	string	NO
pageSize	SIM number per page	string	NO

API Call Limit

For this API there is an API call limit. You can make an API call after at least **1 second** from your last simListLite API call.

API Pagination Parameters

This API has pagination applied for user's SIM list. If no parameters are given, default values are:

- **page = 1**
- **pageSize = 500**

The maximum value for pageSize parameter is **500**.

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token" [-F "name=sim_name"] [-F "tag=sim_tag"] [-F "status=sim_status"] [-F "page=page"] [-F "pageSize=page_size"] "https://api.thingsmobile.com/services/business-api/simListLite"
```

Legend:

- **your_username**: username used to register on Things Mobile portal
- **your_token**: token visible in the API section in your Things Mobile portal
- **sim_name**: *[optional]* NAME of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- **sim_tag**: *[optional]* TAG of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- **sim_status**: *[optional]* status of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal. You can only use one of the following strings to indicate the status of the SIM:
 - **to-activate**: return all the not already activated SIMs
 - **active**: return all the active and active waiting initial recharge SIMs
 - **suspended**: return all the suspended SIMs
 - **deactivated**: return all the deactivated SIMs
- **page**: *[optional]* number of the requested page. In order to see all SIMs, increase page value accordingly
- **page_size**: *[optional]* size of SIMs list that will be returned for the requested page. Page size max value is **500**

Output:

OK response:

```
<result>
<done>true</done>
  <sims>
    <sim>
      <activationDate>2018-02-07 15:52:49</activationDate>
      <automation>default</automation>
```

```

    <balance>30</balance>
    <country>United States of America</country>
    <dailyTraffic>295000</dailyTraffic>
    <expirationDate>2018-02-20 00:00:00</expirationDate>
    <iccid>8944501312167518236</iccid>
    <lastConnectionDate>2019-04-20 08:37:52</lastConnectionDate>
    <monthlyTraffic>1234</monthlyTraffic>
    <msisdn>447937557899</msisdn>
    <name>name</name>
    <plan>Pay-per-use plan</plan>
    <roamingProfileTM-1</roamingProfile>
    <status>active</status>
    <tag>tag</tag>
    <type>AllInOne Sim</type>
  </sim>
</sims>
</result>

```

status: grouping of SIM status based on 'status' parameter:

- **to-active:** "not-active"
- **active:** "active", "active-waiting-initial-recharge"
- **suspended:** "suspended", "replaced", "deleted", "suspended-for-data", "suspended-for-traffic", "suspended-for-no-cash", "suspended-for-country-disabled", "waiting-activation-fixed-ip", "suspended-for-traffic-limit-in-country", "operation-in-progress", error-during-request", "pending-monthly-network-access-charge"
- **deactivated:** "deactivated"

If 'status' parameter is empty, all previous status will be returned.

balance, dailyTraffic, monthlyTraffic, totalTraffic, cdrTraffic: traffic in bytes.

iccid: sim barcode.

KO response:

```

<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <errorMessage>Error description</errorMessage>
</result>

```

Error codes:

code	description
10	generic error: <i>description</i>
20	input error: <i>description</i>
30	user error: <i>description</i>
40	sim error: <i>description</i>

4.7. Credit

description	Get the credit of an user
test env URL	https://test.thingsmobile.com/services/business-api/credit
prod env URL	https://api.thingsmobile.com/services/business-api/credit
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
startDateRange	start date of the range (date format: YYYY-MM-DD HH:mm:ss)	string	NO
endDateRange	end date of the range (date format: YYYY-MM-DD HH:mm:ss)	string	NO
page	page number for credit history	string	NO
pageSize	credit history row number per page	string	NO

N.B: With this API you can get a maximum of 5000 credit history's operation. If the amount of operation is greater you will be notified with an error so you can retry with a more restrictive value for page and pageSize or date range.

API Call Limit

For this API there is an API call limit. You can make an API call after at least **5 second** from your last credit API call.

API Pagination Parameters

This API has pagination applied for credit history's operation list. If no parameters are given, default values are:

- **page = 1**
- **pageSize = 500**

The maximum value for pageSize parameter is **5000**.

API CURL command example:

```
curl -d "username=your_username" -d "token=your_token" [-d "startDateRange=start_date" -d "endDateRange=end_date" -d "page=page" -d "pageSize=page_size"]  
"https://api.thingsmobile.com/services/business-api/credit"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal

- *start_date*: [optional] the start date of the range for the credit history's operation
- *end_date*: [optional] the end date of the range for the credit history's operation
- *page*: [optional] number of the requested page. In order to see all credit history's operation, increase page value accordingly
- *page_size*: [optional] size of credit history's operation list that will be returned for the requested page. Page size max value is **5000**

Output:

OK response:

```

<result>
  <done>true</done>
  <amount>9.00</amount>
  <currency>EUR</currency>
  <creditHistory>
    <historyRow>
      <amount>10.00</amount>
      <dateLoad>2017-06-30 15:21:00</dateLoad>
      <opDescription>Credit recharge</dateLoad>
    </historyRow>
    <historyRow>
      <amount>-1.00</amount>
      <dateLoad>2017-06-30 15:22:00</dateLoad>
      <opDescription>Sim recharge</dateLoad>
      <msisdn>882360000000001</msisdn>
    </historyRow>
  </creditHistory>
</result>

```

KO response:

```

<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <errorMessage>Error description</errorMessage>
</result>

```

Error codes:

code	description
10	generic error: <i>description</i>
20	input error: <i>description</i>
30	user error: <i>description</i>
40	sim error: <i>description</i>
60	too many requests: <i>description</i>
70	pagination not valid: <i>description</i>
90	credit history error: <i>description</i>

4.8. Update sim name

description	Update the name of a sim
test env URL	https://test.thingsmobile.com/services/business-api/updateSimName
prod env URL	https://api.thingsmobile.com/services/business-api/updateSimName
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
msisdn	sim number (i.e.: 882360001975037)	string	NO
iccid	sim iccid (19 or 20 digits number)	string	NO
name	Sim name (i.e.: my sim)	string	YES

N.B.: at least one of msisdn or iccid is mandatory

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token" [-F "msisdn=sim_msisdn"] [-F "iccid=sim_iccid"] -F "name=sim_name"  
"https://api.thingsmobile.com/services/business-api/updateSimName"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal
- *sim_msisdn*: [*optional*] the MSISDN of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sim_iccid*: [*optional*] the ICCID of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sim_name*: the NAME you would set on the chosen Things Mobile SIM

Output:

OK response:

```
<result>  
<sims/>  
<creditHistory/>  
<done>true</done>  
</result>
```

KO response:

```
<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <errorMessage>Error description</errorMessage>
</result>
```

Error codes:

code	description
10	generic error: <i>description</i>
20	input error: <i>description</i>
30	user error: <i>description</i>
40	sim error: <i>description</i>

4.9. Update sim tag

description	Update the tag of a sim
test env URL	https://test.thingsmobile.com/services/business-api/updateSimTag
prod env URL	https://api.thingsmobile.com/services/business-api/updateSimTag
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
msisdn	sim number (i.e.: 882360001975037)	string	NO
iccid	sim iccid (19 or 20 digits number)	string	NO
tag	Sim tag (i.e.: my sim tag)	string	YES

N.B.: at least one of msisdn or iccid is mandatory

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token" [-F "msisdn=sim_msisdn"] [-F
"iccid=sim_iccid"] -F "tag=sim_tag"
"https://api.thingsmobile.com/services/business-api/updateSimTag"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal
- *sim_msisdn*: [optional] the MSISDN of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sim_iccid*: [optional] the ICCID of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sim_tag*: the TAG you would set on the chosen Things Mobile SIM

Output:**OK response:**

```
<result>
<sims/>
<creditHistory/>
<done>true</done>
</result>
```

KO response:

```
<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <errorMessage>Error description</errorMessage>
</result>
```

4.10. Setup sim expiration date

description	Setup the sim expiration date of a sim
test env URL	https://test.thingsmobile.com/services/business-api/setupSimExpirationDate
prod env URL	https://api.thingsmobile.com/services/business-api/setupSimExpirationDate
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
msisdn	sim number (i.e.: 882360001975037)	string	NO
iccid	sim iccid (19 or 20 digits number)	string	NO
expirationDate	Sim expiration date (i.e.: 2018-02-28,2019-01-1)	string	YES
blockSim	Disconnect and block sim after expiration (1 = true, 0 = false)	string	YES

N.B.: at least one of msisdn or iccid is mandatory

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token" [-F "msisdn=sim_msisdn"] [-F "iccid=sim_iccid"] -F "expirationDate=sim_expiration_date" -F "blockSim=block_sim"  
"https://api.thingsmobile.com/services/business-api/setupSimExpirationDate"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal
- *sim_msisdn*: [optional] the MSISDN of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sim_iccid*: [optional] the ICCID of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sim_expiration_date*: the expiration date you would set on the chosen Things Mobile SIM
- *block_sim*: value according to which the SIM will be disconnected and blocked when expiration date is reached

Output:**OK response:**

```
<result>  
<sims/>  
<creditHistory/>  
<done>true</done>  
</result>
```

KO response:

```
<result>  
  <done>false</done>  
  <errorCode>Numeric error code</errorCode>  
  <errorMessage>Error description</errorMessage>  
</result>
```

4.11. Setup sim traffic threshold

description	Setup the sim traffic threshold
test env URL	https://test.thingsmobile.com/services/business-api/setupSimTrafficThreeshold
prod env URL	https://api.thingsmobile.com/services/business-api/setupSimTrafficThreeshold
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
msisdn	sim number (i.e.: 882360001975037)	string	NO
iccid	sim iccid (19 or 20 digits number)	string	NO
dailyLimit	daily traffic threshold (MB)	string	YES
blockSimDaily	Block sim exceed limit (0 = false, 1 = true)	string	YES
monthlyLimit	monthly traffic threshold (MB)	string	YES
blockSimMonthly	Block sim exceed limit (0 = false, 1 = true)	string	YES
totalLimit	total traffic threshold (MB)	string	YES
blockSimTotal	Block sim exceed limit (0 = false, 1 = true)	string	YES

N.B.: at least one of msisdn or iccid is mandatory

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token" [-F "msisdn=sim_msisdn"] [-F "iccid=sim_iccid"] -F "dailyLimit=sim_daily_limit" -F "blockSimDaily=block_sim_daily" -F "monthlyLimit=sim_monthly_limit" -F "blockSimMonthly=block_sim_monthly" -F "totalLimit=sim_total_limit" -F "blockSimTotal=block_sim_total"
"https://api.thingsmobile.com/services/business-api/setupSimTrafficThreshold"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal
- *sim_msisdn*: [optional] the MSISDN of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sim_iccid*: [optional] the ICCID of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sim_daily_limit*: the daily limit you would set on the chosen Things Mobile SIM
- *block_sim_daily*: value according to which the SIM will be blocked when *sim_daily_limit* is reached
- *sim_monthly_limit*: the monthly limit you would set on the chosen Things Mobile SIM
- *block_sim_monthly*: value according to which the SIM will be blocked when *sim_monthly_limit* is reached
- *sim_total_limit*: the total limit you would set on the chosen Things Mobile SIM
- *block_sim_total*: value according to which the SIM will be blocked when *sim_total_limit* is reached

Output:

OK response:

```
<result>
<sims/>
<creditHistory/>
<done>true</done>
</result>
```

KO response:

```
<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <errorMessage>Error description</errorMessage>
</result>
```

4.12. Custom plan list

description	Get the custom plan list
test env URL	https://test.thingsmobile.com/services/business-api/customPlanList
prod env URL	https://api.thingsmobile.com/services/business-api/customPlanList
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token"
"https://api.thingsmobile.com/services/business-api/customPlanList"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal

Output:

OK response:

```

<result>
<sims/>
<creditHistory/>
<plans>
<plan>
<id>1</id>
<name>Custom plan example</name>
<simAutorechargeEnabled>true</simAutorechargeEnabled>
<simAutorechargeCreditThreshold>10</simAutorechargeCreditThreshold>
<simAutorechargeAmount>10</simAutorechargeAmount>
</plan>
<plan>
<id>2</id>
<name>Custom plan example</name>
<simAutorechargeEnabled>false</simAutorechargeEnabled>
<simAutorechargeCreditThreshold></simAutorechargeCreditThreshold>
<simAutorechargeAmount></simAutorechargeAmount>
</plan>
</plans>
<done>true</done>
</result>

```

KO response:

```

<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <errorMessage>Error description</errorMessage>
</result>

```

4.13. Create custom plan

description	Create custom plan
test env URL	https://test.thingsmobile.com/services/business-api/createCustomPlan
prod env URL	https://api.thingsmobile.com/services/business-api/createCustomPlan
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
name	Name of the custom plan	string	YES
simAutorechargeEnabled	Sim auto recharge status (true or false)	boolean	YES
simAutorechargeCreditThreshold	Sim auto recharge threshold (MB)	decimal	YES
simAutorechargeAmount	Sim auto recharge amount (MB)	decimal	YES

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token" -F "name=custom_plan_name" -F
"simAutorechargeEnabled=autorecharge_enabled" -F
"simAutorechargeCreditThreshold=autorecharge_credit_threshold" -F
"simAutorechargeAmount=autorecharge_amount"
"https://api.thingsmobile.com/services/business-api/createCustomPlan"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal
- *custom_plan_name*: the name you would set to the custom plan
- *autorecharge_enabled*: value according to the auto recharge is enabled
- *autorecharge_credit_threshold*: value of the threshold of the auto recharge
- *autorecharge_amount*: value of the amount of the auto recharge

Output:**OK response:**

```
<result>
<sims/>
<creditHistory/>
<done>true</done>
</result>
```

KO response:

```
<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <errorMessage>Error description</errorMessage>
</result>
```

4.14. Modify custom plan

description	Modify custom plan
test env URL	https://test.thingsmobile.com/services/business-api/modifyCustomPlan
prod env URL	https://api.thingsmobile.com/services/business-api/modifyCustomPlan
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
id	Id of the custom plan	String	YES
name	Name of the custom plan	string	YES
simAutorechargeEnabled	Sim auto recharge status	boolean	YES
simAutorechargeCreditThreshold	Sim auto recharge threshold (MB)	decimal	YES
simAutorechargeAmount	Sim auto recharge amount (MB)	decimal	YES

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token" -F "id=custom_plan_id" -F
"name=custom_plan_name" -F "simAutorechargeEnabled=autorecharge_enabled" -F
"simAutorechargeCreditThreshold=autorecharge_credit_threshold" -F
"simAutorechargeAmount=autorecharge_amount"
"https://api.thingsmobile.com/services/business-api/modifyCustomPlan"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal
- *custom_plan_id*: the id of the custom plan you want to modify
- *custom_plan_name*: the name you want to set to the custom plan
- *autorecharge_enabled*: value according to the auto recharge is enabled
- *autorecharge_credit_threshold*: value of the threshold of the auto recharge
- *autorecharge_amount*: value of the amount of the auto recharge

Output:

OK response:

```
<result>
<sims/>
<creditHistory/>
<done>true</done>
</result>
```

KO response:

```
<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <errorMessage>Error description</errorMessage>
</result>
```

4.15. Associate plan

description	Change the custom plan of a sim
test env URL	https://test.thingsmobile.com/services/business-api/changeSimPlan
prod env URL	https://api.thingsmobile.com/services/business-api/changeSimPlan
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	User token	string	YES
msisdn	sim number (i.e.: 882360001975037)	string	NO
iccid	sim iccid (19 or 20 digits number)	string	NO
customPlanId	Id of the custom plan	string	YES

N.B.: at least one of msisdn or iccid is mandatory

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token" [-F "msisdn=sim_msisdn"] [-F "iccid=sim_iccid"] -F "customPlanId=sim_custom_plan_id"  
"https://api.thingsmobile.com/services/business-api/changeSimPlan"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal
- *sim_msisdn*: [optional] the MSISDN of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sim_iccid*: [optional] the ICCID of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sim_custom_plan_id*: id of the custom plan you want to associate to the SIM

Output:

OK response:

```
<result>
<sims/>
<creditHistory/>
<done>true</done>
</result>
```

KO response:

```
<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <errorMessage>Error description</errorMessage>
</result>
```

Error codes:

code	description
10	generic error: <i>description</i>
20	input error: <i>description</i>
30	user error: <i>description</i>
40	sim error: <i>description</i>

4.16. Send SMS

description	Send an SMS to an ACTIVE Things Mobile SIM that you own using the user's bonus SMSs or decrementing the shared credit account with the relative amount
test env URL	https://test.thingsmobile.com/services/business-api/sendSms
prod env URL	https://api.thingsmobile.com/services/business-api/sendSms
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
msisdn	sim number (i.e.: 882360001975037)	string	NO
iccid	sim iccid (19 or 20 digits number)	string	NO
message	SMS message (160 characters maximum)	string	YES

N.B.: at least one of msisdn or iccid is mandatory

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token" [-F "msisdn=sim_msisdn"] [-F "iccid=sim_iccid"] -F "message=sms_message"
"https://api.thingsmobile.com/services/business-api/sendSms"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal
- *sim_msisdn*: [optional] the MSISDN of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sim_iccid*: [optional] the ICCID of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sms_message*: the text of the sms you want to send

Output:

OK response:

```
<result>
<sims/>
<creditHistory/>
<done>true</done>
</result>
```

KO response:

```
<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <errorMessage>Error description</errorMessage>
</result>
```

Error codes:

code	description
10	generic error: <i>description</i>
20	input error: <i>description</i>
30	user error: <i>description</i>
40	sim error: <i>description</i>
50	shared credit account error: <i>description</i>

4.17. Download CDR

description	Asynchronous export of CDR for the selected SIM in the time range
test env URL	https://test.thingsmobile.com/services/business-api/downloadCdr
prod env URL	https://api.thingsmobile.com/services/business-api/downloadCdr
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
msisdnList	sims number (i.e.: 882360001975037, 882360001975038)	string	YES
startDateRange	start date of the range (date format: YYYY-MM-DD HH:mm:ss)	string	NO
endDateRange	end date of the range (date format: YYYY-MM-DD HH:mm:ss)	string	NO

N.B: With this API you can export a maximum of 200.000 CDR. If the amount of CDR is greater you will be notified with an error so you can retry with a more restrictive range of data.

API CURL command example:

```
curl -d "username=your_username" -d "token=your_token" -d "msisdnList=sims_msisdn" [-d "startDateRange=start_date" -d "endDateRange=end_date"]  
"https://api.thingsmobile.com/services/business-api/downloadCdr"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal
- *sims_msisdn*: the MSISDN comma separated list of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *start_date*: [optional] the start date of the range for the export CDR
- *end_date*: [optional] the end date of the range for the export CDR

Output:

OK response:

```
<result>  
  <done>true</done>  
  <message>  
    Export scheduled correctly. The file that you requested will be sent to you via email.  
  </message>  
</result>
```

KO response:

```
<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <message>Error description</message>
</result>
```

Error codes:

code	description
10	generic error: <i>description</i>
20	input error: <i>description</i>
30	user error: <i>description</i>
40	sim error: <i>description</i>

4.18. Recharge SIM

description	Recharge the amount in MB to the selected SIM
test env URL	https://test.thingsmobile.com/services/business-api/rechargeSim
prod env URL	https://api.thingsmobile.com/services/business-api/rechargeSim
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
msisdn	sim number (i.e.: 882360001975037)	string	NO
iccid	sim iccid (19 or 20 digits number)	string	NO
amount	recharge amount (amount value in MB, maximum value in MB: 1024)	string	YES

N.B.: at least one of msisdn or iccid is mandatory

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token" [-F "msisdn=sim_msisdn"] [-F "iccid=sim_iccid"] -F "amount=recharge_amount"
"https://api.thingsmobile.com/services/business-api/rechargeSim"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal
- *sim_msisdn*: [optional] the MSISDN of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *sim_iccid*: [optional] the ICCID of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *recharge_amount*: the amount in MB of the recharge

Output:**OK response:**

```
<result>
<sims/>
<creditHistory/>
<done>true</done>
</result>
```

KO response:

```
<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <errorMessage>Error description</errorMessage>
</result>
```

Error codes:

code	description
10	generic error: <i>description</i>
20	input error: <i>description</i>
30	user error: <i>description</i>
40	sim error: <i>description</i>

4.19. CDR paginated

description	Get paginated CDRs for the selected SIM in the time range
test env URL	https://test.thingsmobile.com/services/business-api/getCdrPaginated
prod env URL	https://api.thingsmobile.com/services/business-api/getCdrPaginated
method	POST [x-www-form-urlencoded]

Input:

param	description	type	mandatory
username	username	string	YES
token	user token	string	YES
msisdnList	sims number (i.e.: 882360001975037, 882360001975038)	string	YES
startDateRange	start date of the range (date format: YYYY-MM-DD HH:mm:ss)	string	NO
endDateRange	end date of the range (date format: YYYY-MM-DD HH:mm:ss)	string	NO
page	page number for SIM's CDR	string	NO
pageSize	CDR number per page	string	NO

N.B: With this API you can get a maximum of 10.000 CDR. If the amount of CDR is greater you will be notified with an error so you can retry with a more restrictive value for page and pageSize or date range.

API Call Limit

For this API there is an API call limit. You can make an API call after at least **5 second** from your last getCdrPaginated API call.

API Pagination Parameters

This API has pagination applied for SIM's CDR list. If no parameters are given, default values are:

- **page = 1**
- **pageSize = 500**

The maximum value for pageSize parameter is **500**.

API CURL command example:

```
curl -F "username=your_username" -F "token=your_token" -F "msisdnList=sims_msisdn" [-F "startDateRange=start_date" -F "endDateRange=end_date" -F "page=page" -F "pageSize=page_size"] "https://api.thingsmobile.com/services/business-api/getCdrPaginated"
```

Legend:

- *your_username*: the username used to register on Things Mobile portal
- *your_token*: the token visible in the API section in your Things Mobile portal

- *sims_msisdn*: the MSISDN comma separated list of the SIM visible in the SIM card list or SIM card detail in your Things Mobile portal
- *start_date*: [optional] the start date of the range for the export CDR
- *end_date*: [optional] the end date of the range for the export CDR
- *page*: [optional] number of the requested page. In order to see all CDRs, increase page value accordingly
- *page_size*: [optional] size of CDRs list that will be returned for the requested page. Page size max value is **500**

Output:

OK response:

```
<result>
  <cdrsPaginated>
    <cdrPaginated>
      <cdrCountry>ESP</cdrCountry>
      <cdrDateStart>2020-10-05 19:11:48</cdrDateStart>
      <cdrDateStop>2020-10-05 19:21:48</cdrDateStop>
      <cdrMsisdn>882360001975037</cdrMsisdn>
      <cdrNetwork>Zone 1</cdrNetwork>
      <cdrOperator>ESPVV</cdrOperator>
      <cdrTraffic>1000000</cdrTraffic>
    </cdrPaginated>
  </cdsPaginated>
  <done>true</done>
</result>
```

cdrTraffic: traffic in bytes.

KO response:

```
<result>
  <done>false</done>
  <errorCode>Numeric error code</errorCode>
  <message>Error description</message>
</result>
```

Error codes:

code	description
10	generic error: <i>description</i>
20	input error: <i>description</i>
30	user error: <i>description</i>
40	sim error: <i>description</i>
60	too many request error
70	pagination not valid: <i>description</i>
80	cdrs error: <i>description</i>

5. Testing

The calls below can be used to test API functionality in sandbox. This is an entirely separate environment from your production account. Nothing created or modified in the sandbox (e.g. activations, recharges, etc.) will transfer to production.

API calls, in sandbox, are under **basic authentication**:

env	username	password
sandbox	test	Thingsmobil3

Explanations and examples about basic authentication are available here:

https://en.wikipedia.org/wiki/Basic_access_authentication

Please, send all mandatory parameters.

5.1. Activate SIM

<https://test.thingsmobile.com/services/business-api/activateSim>

Use username **"TMTEST"**, token **"91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6"** and one of the following msisdns to receive different responses:

882360000000001 → sim not found or not available
 882360000000002 → empty or not valid input: simBarcode
 882360000000003 → generic error
 882360000000004 → OK

API CURL command example:

```
curl -v -utest:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" -F "msisdn=chosen_msisdn"
"https://test.thingsmobile.com/services/business-api/activateSim"
```

Legend:

- *chosen_msisdn*: one of the msisdns previously listed

5.2. Block SIM

<https://test.thingsmobile.com/services/business-api/blockSim>

Use username **"TMTEST"**, token **"91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6"** and one of the following msisdns to receive different responses:

882360000000001 → sim not found or not available
 882360000000003 → generic error
 882360000000004 → OK

API CURL command example:

```
curl -v -utest:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" -F "msisdn=chosen_msisdn"
"https://test.thingsmobile.com/services/business-api/blockSim"
```

Legend:

- *chosen_msisdn*: one of the msisdn previously listed

5.3. Disconnect SIM

<https://test.thingsmobile.com/services/business-api/disconnectSim>

Use username "TMTEST" , token "91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" and one of the following msisdn to receive different responses:

```
8823600000000001 → sim not found or not available
8823600000000003 → generic error
8823600000000004 → OK
```

API CURL command example:

```
curl -v -utest:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" -F "msisdn=chosen_msisdn"
"https://test.thingsmobile.com/services/business-api/disconnectSim"
```

Legend:

- 6. *chosen_msisdn*: one of the msisdn previously listed

6.1. Unblock SIM

<https://test.thingsmobile.com/services/business-api/unblockSim>

Use username "TMTEST" , token "91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" and one of the following msisdn to receive different responses:

```
8823600000000001 → sim not found or not available
8823600000000003 → generic error
8823600000000004 → OK
```

API CURL command example:

```
curl -v -utest:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" -F "msisdn=chosen_msisdn"
"https://test.thingsmobile.com/services/business-api/unblockSim"
```

Legend:

- *chosen_msisdn*: one of the msisdn previously listed

6.2. SIM status

<https://test.thingsmobile.com/services/business-api/simStatus>

Use username "TMTEST" , token "91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" and one of the following msisdn to receive different responses:

882360000000001 → sim not found or not available
 882360000000002 → status=not active, activationDate=2015-01-20 12:45:00,
 traffic=321312321, plan=default
 882360000000003 → status=not active, activationDate=, traffic=0, plan= default
 882360000000004 → status=active, activationDate=2016-01-20 12:45:00,
 traffic=1231231231, plan= default

API CURL command example:

```
curl -v -utest:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" -F "msisdn=chosen_msisdn"
"https://test.thingsmobile.com/services/business-api/simStatus"
```

Legend:

- *chosen_msisdn*: one of the msisdn previously listed

6.3. Sim list Lite

<https://test.thingsmobile.com/services/business-api/simListLite>

Use username "TMTEST" , token "91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6"

API CURL command example:

```
curl -v -utest:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6"
"https://test.thingsmobile.com/services/business-api/simListLite"
```

6.4. Credit

<https://test.thingsmobile.com/services/business-api/credit>

Use username "TMTEST" , token "91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6"

API CURL command example:

```
curl -v -utest:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6"
"https://test.thingsmobile.com/services/business-api/credit"
```

6.5. Update sim name

<https://test.thingsmobile.com/services/business-api/updateSimName>

Use username "TMTEST" , token "91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" and one of the following msisdn to receive different responses:

882360000000001 → sim not found or not available
 882360000000003 → generic error
 882360000000004 → done

API CURL command example:

```
curl -v -utest:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" -F "msisdn=chosen_msisdn"
"https://test.thingsmobile.com/services/business-api/updateSimName"
```

Legend:

- *chosen_msisdn*: one of the msisdn previously listed

6.6. Update sim tag

<https://test.thingsmobile.com/services/business-api/updateSimTag>

Use username "TMTEST", token "91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" and one of the following msisdns to receive different responses:

8823600000000001 → sim not found or not available
 8823600000000003 → generic error
 8823600000000004 → done

API CURL command example:

```
curl -v -utest:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" -F "msisdn=chosen_msisdn"
"https://test.thingsmobile.com/services/business-api/updateSimTag"
```

Legend:

- *chosen_msisdn*: one of the msisdns previously listed

6.7. Setup sim expiration date

<https://test.thingsmobile.com/services/business-api/setupSimExpirationDate>

Use username "TMTEST", token "91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" and one of the following msisdns to receive different responses:

8823600000000001 → sim not found or not available
 8823600000000003 → generic error
 8823600000000004 → done

API CURL command example:

```
curl -v -utest:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" -F "msisdn=chosen_msisdn"
"https://test.thingsmobile.com/services/business-api/setupSimExpirationDate"
```

Legend:

- *chosen_msisdn*: one of the msisdns previously listed

6.8. Setup sim traffic threshold

<https://test.thingsmobile.com/services/business-api/setupSimTrafficThreshold>

Use username "TMTEST", token "91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" and one of the following msisdns to receive different responses:

8823600000000001 → sim not found or not available
 8823600000000003 → generic error
 8823600000000004 → done

API CURL command example:

```
curl -v -utest:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" -F "msisdn=chosen_msisdn"
"https://test.thingsmobile.com/services/business-api/setupSimTrafficThreshold"
```

Legend:

- *chosen_msisdn*: one of the msisdns previously listed

6.9. Custom plan list

<https://test.thingsmobile.com/services/business-api/customPlanList>

Use username "TMTEST" , token "91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6"

API CURL command example:

```
curl -v -u test:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6"
"https://test.thingsmobile.com/services/business-api/customPlanList"
```

6.10. Create custom plan

<https://test.thingsmobile.com/services/business-api/createCustomPlan>

Use username "TMTEST" , token "91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6"

API CURL command example:

```
curl -v -u test:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6"
"https://test.thingsmobile.com/services/business-api/createCustomPlan"
```

6.11. Modify custom plan

<https://test.thingsmobile.com/services/business-api/modifyCustomPlan>

Use username "TMTEST" , token "91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6"

API CURL command example:

```
curl -v -u test:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6"
"https://test.thingsmobile.com/services/business-api/modifyCustomPlan"
```

6.12. Associate plan

<https://test.thingsmobile.com/services/business-api/changeSimPlan>

Use username "TMTEST" , token "91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6"

API CURL command example:

```
curl -v -u test:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6"
"https://test.thingsmobile.com/services/business-api/changeSimPlan"
```

6.13. Send SMS

<https://test.thingsmobile.com/services/business-api/sendSms>

Use username "TMTEST" , token "91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" and one of the following msisdns to receive different responses:

8823600000000001 → sim not found or not available
8823600000000003 → generic error

882360000000004 → done

API CURL command example:

```
curl -v -utest:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" -F "msisdn=chosen_msisdn"
"https://test.thingsmobile.com/services/business-api/sendSms"
```

Legend:

- *chosen_msisdn*: one of the msisdn previously listed

6.14. Download CDR

<https://test.thingsmobile.com/services/business-api/downloadCdr>

Use username "**TMTEST**", token "**91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6**" and one of the following msisdn to receive different responses:

882360000000001 → sim not found or not available
 882360000000003 → generic error
 882360000000004 → done
 882360000000005 → CDR limit not respected

API CURL command example:

```
curl -v -utest:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" -F "msisdnList=chosen_msisdn" [-F
"startDateRange=start_date" -F "endDateRange=end_date"]
"https://test.thingsmobile.com/services/business-api/downloadCdr"
```

Legend:

- *chosen_msisdn*: one of the msisdn previously listed
- *start_date*: [optional] the start date of the range for the export CDR
- *end_date*: [optional] the end date of the range for the export CDR

6.15. Recharge SIM

<https://test.thingsmobile.com/services/business-api/rechargeSim>

Use username "**TMTEST**", token "**91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6**" and one of the following msisdn to receive different responses:

882360000000001 → sim not found or not available
 882360000000003 → generic error
 882360000000004 → done

API CURL command example:

```
curl -v -utest:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" -F "msisdn=chosen_msisdn"
"https://test.thingsmobile.com/services/business-api/rechargeSim"
```

Legend:

- *chosen_msisdn*: one of the msisdn previously listed

6.16. CDR paginated

<https://test.thingsmobile.com/services/business-api/getCdrPaginated>

Use username "**TMTEST**" , token "**91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6**" and one of the following msisdn to receive different responses:

882360000000001 → sim not found or not available

882360000000002 → done - traffic CDR

882360000000003 → done - sms MO CDR

API CURL command example:

```
curl -v -u test:Thingsmobil3 -F "username=TMTEST" -F
"token=91c6ce3c-a848-4f0e-bfca-ab9eeff5d1e6" -F "msisdnList=chosen_msisdn" [-F
"startDateRange=start_date" -F "endDateRange=end_date" -F "page=page" -F
"pageSize=page_size"] "https://test.thingsmobile.com/services/business-api/getCdrPaginated"
```

Legend:

- *chosen_msisdn*: one of the msisdn previously listed
- *start_date*: [optional] the start date of the range for the export CDR
- *end_date*: [optional] the end date of the range for the export CDR
- *page*: [optional] number of the requested page. In order to see all CDRs, increase page value accordingly
- *page_size*: [optional] size of CDRs list that will be returned for the requested page. Page size max value is **500**