

Verizon Activation Process via Telit APIs

Thomas Kurcz

Solutions Engineering Manager, IoT Connectivity

Introduction

The purpose of this document is to show the reader how to activate Verizon devices using Telit APIs.

Please note that this document assumes that the reader already has an understanding of how Telit APIs work. More information about Telit APIs can be found at <u>https://docs.devicewise.com/Content/home.htm</u>



Guidelines

- 1. The device must be a Verizon certified device. This can be verified via https://opendevelopment.verizonwireless.com/device-showcase
- 2. The certified devices IMEI need to be introduced to Verizon via the ODI interface (Verizon owned): <u>https://opendevelopment.verizonwireless.com/get-certified</u>
- 3. The IMEI was not previously paired with any other SIM (ICCID) and been activated
- 4. The ICCID was not previously paired with any device (IMEI) and been activated
- 5. Telit's portal (IoTP) supports activations of Verizon SIMs provided by Telit only



The first step to activate a Verizon SIM is to verify that the SIM that you want to activate is in an Inventory state on your IoTP organization. An API call to use for this purpose is cdp.connection.find.

Here is an example of the JSON request you would use to find SIM ICCID 8914800000363285XXXX:

"1": { "command": "cdp.connection.find", "params": { "iccid": "8914800000363285XXXX"



Here is an example of the JSON result showing a status of "Inventory":

```
"1": {
    "success": true,
    "params": {
        "id": "5eledf2elc5bd7511fcfXXXX",
        "orgId": "5a299f901c5bd7029c34XXXX",
        "ownerOrgId": "5a299f901c5bd7029c34XXXX",
        "permission": "rw",
        "configId": "5a5e3df4fe2a1372b5daXXXX",
       "configName": "Verizon",
       "configType": "verizon",
        "configStatuses": [
            "activated",
            "suspended",
            "inventory",
            "testing"
        ],
        "configActions": [
            "sms",
            "refresh",
            "edit",
            "status"
        ],
       "identity": "ICCID: 8914800000363285XXXX",
        "iccid": "8914800000363285XXXX",
        "carrier": "Verizon",
       "imsi": "31127000001XXXX",
        "status": "inventory",
        "dateAdded": "2020-01-15T09:45:18.388Z",
        "createdBy": "XXXX.XXXX@telit.com",
        "createdOn": "2020-01-15T09:45:18.388Z",
        "updatedBy": "XXXX.XXXQtelit.com",
        "updatedOn": "2020-01-15T09:45:18.388Z"
```



The next step is to set the IMEI*. An API call to use for this purpose is cdp.connection.update.

Here is an example of the JSON request that you would use to set the IMEI:

```
"cmd" : {
    "command": "cdp.connection.update",
    "params": {
        "iccid": "8914800000363285xxxx",
        "imei": "35323806568xxxx"
    }
}
Here is an example of the JSON response:
{
    "cmd": {
        "success": true,
        "params": {
            "count": 1
        }
}
```

*Note that the IMEI must be certified to operate on Verizon's network before attempting to activate it. To get your device certified, you will need to complete the certification process at Verizon's ODI portal (<u>https://opendevelopment.verizonwireless.com/</u>)



The next step is to make sure that the IMEI has been correctly set in Telit's platform. The cdp.connection.find API can be used for this purpose.

Here is an example of the JSON request you would use to find SIM ICCID 8914800000363285XXXX:

"1": {
 "command": "cdp.connection.find",
 "params": {
 "iccid": "8914800000363285XXXX"
 }
}



Here is an example of the JSON result showing an IMEI of 35323806568XXXX:

```
"1": {
    "success": true,
    "params": {
        "id": "5eledf2elc5bd7511fcfXXXX",
        "orgId": "5a299f901c5bd7029c34XXXX",
        "ownerOrgId": "5a299f901c5bd7029c34XXXX",
        "permission": "rw",
        "configId": "5a5e3df4fe2a1372b5daXXXX",
       "configName": "Verizon",
       "configType": "verizon",
        "configStatuses": [
            "activated",
            "suspended",
            "inventory",
            "testing"
        ],
        "configActions": [
            "sms",
            "refresh",
            "edit",
            "status"
        ],
       "identity": "ICCID: 8914800000363285XXXX",
        "iccid": "8914800000363285XXXX",
        "carrier": "Verizon",
        "imsi": "31127000001XXXX",
        "imei": "35323806568XXXX",
        "status": "inventory",
        "dateAdded": "2020-01-15T09:45:18.388Z",
        "remoteAtEnabled": true,
        "createdBy": "XXXX.XXXX@telit.com",
        "createdOn": "2020-01-15T09:45:18.388Z",
        "updatedBy": "XXXX.XXXQtelit.com",
        "updatedOn": "2020-01-31T16:31:38.217Z"
```



The next step is to activate the SIM. This is accomplished using the cdp.connection.update call. You can choose either a status of "Testing" or "Activated". Note that no matter what option you choose, the state will go into a Testing state once the SIM is activated. The Testing state is an active state that will automatically transition to an Activated (billing) state after 150 days, 60KBs of data consumption or 15 SMS. For the purposes of this doc, the state of Testing will be used when activating SIMs.



Here is an example of the JSON request you would use to change the status of SIM ICCID 8914800000363285XXXX to a "Testing" state:

Here is an example of the JSON response you would see after changing the status to a Testing state:

```
'
''cmd": {
    "success": true,
    "params": {
        "count": 1
     }
}
```



The SIM activation typically takes a couple of minutes. Before you can start using the SIM, you need to make sure that it is in an active state (e.g. the "Testing" state). To check and see the status, you can use the cdp.connection .find API.

Here is an example of the JSON request that you would use to see if the 8914800000363285XXXX ICCID is active (in a "Testing" state):



Here is an example of the JSON response showing the SIM in a "Testing" state:

```
"cmd": {
    "success": true,
    "params": {
        "id": "5eledf2elc5bd7511fcfXXXX",
        "orgId": "5a299f901c5bd7029c34XXXX",
        "ownerOrgId": "5a299f901c5bd7029c34XXXX",
        "permission": "rw",
        "configId": "5a5e3df4fe2a1372b5daXXXX",
       "configName": "Verizon",
       "configType": "verizon",
        "configStatuses": [
            "activated",
            "suspended",
            "inventory",
            "testing"
        ],
        "configActions": [
            "sms",
            "refresh",
            "edit",
            "status"
        ],
       "identity": "ICCID: 8914800000363285XXXX",
        "iccid": "8914800000363285XXXX",
        "carrier": "Verizon Wireless",
        "imsi": "31127000001XXXX",
        "imei": "35323806568XXXX",
        "msisdn": "1561397XXXX",
        "ratePlan": "M2M1MB",
        "status": "testing",
        "dateAdded": "2020-01-15T09:45:18.388Z"
```



At this point, you now have an active SIM that is paired for use with the device IMEI that you specified. If your application only requires Internet Direct (where the device is provided with access to the Internet), you can begin device setup as defined by your device manufacturer and start using the device.

If you are a Telit VPN customer, you can also begin device setup as defined by your device manufacturer, but before you can communicate with the device through your VPN, you will first need to ask Telit to associate the SIM(s) you just activated with your VPN. To get this done, send the ICCID(s) that you just activated to <u>support-iotconnectivity@telit.com</u>. Doing so will open a case that will be routed to our engineering department. In the body of the email, be sure to include the ICCID(s) and a note asking engineering to associate the SIM(s) with your VPN. Once engineering completes the work, they will send you an email containing the private IP address(es) that you will need to use to access the device(es).





Thank You!

Any feedback/questions/comments please email <u>support-iotconnectivity@telit.com</u>

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