



ASUS Connectivity Manager Command Line Interface User Manual

[Home](#) » [Asus](#) » ASUS Connectivity Manager Command Line Interface User Manual 



Connectivity Manager Command Line Interface User Manual

Contents

- [1 Connectivity Manager Command Line Interface](#)
- [2 Introduction](#)
- [3 Usage](#)
- [4 Documents / Resources](#)
- [5 Related Posts](#)

Connectivity Manager Command Line Interface

ASUSTek Computer Inc.
ASUS Connectivity Manager Command Line Interface User Manual
Manual Rev.: 1.00
Revision Date: 2022/01/17
Revision History

Revision	Date	Change
1	1/17/2022	Initial release

Introduction

ASUS Connectivity manager is a tool on user space that helps user to establish data connection through modem manager and network manager easily. It also provide features for auto reconnect on cellular network and failover with all network interfaces to ensure that device is always online.

Supported functions:

- Auto generate cellular network settings based on SIM card info
- Retrive register status, signal, cell location, SIM card info from modem
- Power and flight mode control on modem
- Failover through different network interfaces
- Auto connect to cellular network when available

Usage

The basic ASUS Connectivity manager command pattarn is as followed:

asus_cmcli [COMMAND] [PARAMS]

Which COMMAND means different function and PARAMS are depanded on what command needs. In addition to terminal, logs will also printed at /var/log/syslog while executing asus_cmcli.

2.1 Get modem info

asus_cmcli get_modems

Description

Get the information of modems.

Return

sh-5.0# asus_cmcli get_modems

Index: 0

Path: /org/freedesktop/ModemManager1/Modem/0

Manufacturer: QUALCOMM INCORPORATED

Name: QUECTEL Mobile Broadband Module

Version: EC25JFAR06A05M4G

2.2 Start network

asus_cmcli start

Description

Start the cellular network connectivity.

Return

sh-5.0# asus_cmcli start

no previous settings, create new by sim's mcc mnc

modem detected

check profile with mcc=466 and mnc=92

use connection settings with apn=internet, user=, password=
connecting...

2.3 Stop network

asus_cmcli stop

Description

Stop the cellular network connectivity.

Return

sh-5.0# asus_cmcli stop

disconnecting Cellular...

Connection 'Cellular' successfully deactivated (D-Bus active path:
/org/freedesktop/NetworkManager/ActiveConnection/4)

2.4 Power on

asus_cmcli power_on

Description

Power on the modem.

Return

sh-5.0# asus_cmcli power_on

modem power state is on

power already on

2.5 Power off

asus_cmcli power_off

Description

Power off the modem.

Return

sh-5.0# asus_cmcli power_off

modem power state is on

set modem power state off

2.6 Power cycle

asus_cmcli power_cycle

Description

Power off and power on the modem.

Return

sh-5.0# asus_cmcli power_cycle

modem power state is on

set modem power state off

modem power state is off

reset modem to turn on

2.7 Keep alive

asus_cmcli keepalive [PARAMS]

Description

Control the keep alive feature for connecting to cellular network automaticly.

Parameters

Params	Description
status	Show current status
start	Turn on the keep alive feature
stop	Turn off the keep alive feature

Return

sh-5.0# asus_cmcli keepalive status

Keepalive status: on

sh-5.0# asus_cmcli keepalive stop

Disable keepalive service

sh-5.0# asus_cmcli keepalive start

Enable keepalive service

2.8 Get status

asus_cmcli status

Description

Get the status of the cellular network connection and the information of IP. Return

sh-5.0# asus_cmcli status

Connected: yes

Interface: wwan0

Apn: internet

Roaming: allowed

IPv4 address: 10.44.15.29

IPv4 gateway: 10.44.15.30

IPv4 mtu: 1500

IPv4 dns: 168.95.1.1 / 168.95.192.1

IPv6 address: —

IPv6 gateway: —

IPv6 mtu: —

IPv6 dns: —

2.9 Get attached status

asus_cmcli attach_status

Description

Get the attached status of the modem, including the state of the modem and the access technology that the modem use with, or connection status to carrier's network.

Return

```
sh-5.0# asus_cmcli attach_status
Registration state: connected
Flight mode: off
Radio interface: lte
```

2.10 Switch SIM

```
asus_cmcli switch_sim [PARAMS]
```

Description

Switch the SIM slot, only available on the device with multiple SIM slots.

Parameters

Params	Description
Id	SIM slot Ids

Return

```
sh-5.0# asus_cmcli switch_sim 1
set sim_id as 1
Completion code = 0x00
```

2.11 Unlock SIM

```
asus_cmcli unlock_pin [PARAMS]
```

Description

Unlock the SIM by PIN code.

Parameters

Params	Description
PinCode	SIM card's PIN code

Return

```
sh-5.0# asus_cmcli unlock_pin 0000
successfully sent PIN code to the SIM
```

2.12 Flight mode

```
asus_cmcli set_flight_mode [PARAMS]
```

Description

Turn on or turn off the flight mode.

Parameters

Params	Description
on	Turn on the flight mode.
off	Turn off the flight mode.

Return

```
sh-5.0# asus_cmcli set_flight_mode off successfully enabled the modem
```

2.13 Set APN

```
asus_cmcli set_apn [PARAMS]
```

Description

Set APN to the profile.

Parameters

Params	Description
APN	Access Point Name for connecting to the carrier's cellular network.

Return

```
sh-5.0# asus_cmcli set_apn internet
modify connection settings with apn=internet
```

2.14 Set user

```
asus_cmcli set_user [PARAMS]
```

Description

Set user name to the profile.

Parameters

Params	Description
User	User name for connecting to the carrier's cellular network.

Return

```
sh-5.0# asus_cmcli set_user myUser
modify connection settings with user=myUser
```

2.15 Set password

```
asus_cmcli set_password [PARAMS]
```

Description

Set password to the profile.

Parameters

Params	Description
Password	Password for connecting to the carrier's cellular network.

Return

```
sh-5.0# asus_cmcli set_password myPassword
modify connection settings with password=myPassword
```

2.16 Set IP Type

```
asus_cmcli set_ip_type [PARAMS]
```

Description

Set allowed IP type to the profile.

Parameters

Params	Description
ipv4	Allowed IPv4 method type for connecting to the carrier's cellular network.
ipv6	Allowed IPv6 method type for connecting to the carrier's cellular network.
ipv4v6	Allowed both IPv4 and IPv6 method type for connecting to the carrier's cellular network.

Return

```
sh-5.0# asus_cmcli set_ip_type ipv6
modify connection settings with ip type=ipv6
```

2.17 Get profile

```
asus_cmcli get_profile
```

Description

Get the information of the profile.

Return

```
sh-5.0# asus_cmcli get_profile
Apn: this.is.apn
User: this.is.user
Password: this.is.password
Ipv4: disabled
Ipv6: auto
```

2.18 Reset profile

```
asus_cmcli reset_profile
```

Description

Reset the profile to default value, generated based on carrier's MCCMNC.

Return

```
sh-5.0# asus_cmcli reset_profile
modem detected
check profile with mcc=466 and mnc=92
use connection settings with apn=internet, user=, password=
```

2.19 Switch carrier

```
asus_cmcli switch_carrier [PARAMS]
```

Description

Switch the register network with the input of the carrier's MCCMNC.

Parameters

Params	Description
MCCMNC	Carrier's Mobile Country Code and Mobile Network Code.

Return

```
sh-5.0# asus_cmcli switch_carrier 55123
disconnecting Cellular...
Connection 'Cellular' successfully deactivated (D-Bus active path:
/org/freedesktop/NetworkManager/ActiveConnection/1)
successfully registered the modem
```

2.20 Check carrier

```
asus_cmcli check_carrier
```

Description

Get the information of the carrier including MCC, MNC, and the name of the carrier.

Return

```
sh-5.0# asus_cmcli check_carrier
MCC: 466
MNC: 92 Operator name: Chunghwa
```

2.21 Get ICCI

```
asus_cmcli iccid
```

Description

Get the Integrate Circuit Card Identity.

Return

```
sh-5.0# asus_cmcli iccid
Iccid: 89886920042034712146
```

2.22 Get IMSI

```
asus_cmcli imsi
```

Description

Get the International Mobile Subscriber Identity.

Return

```
sh-5.0# asus_cmcli imsi
Imsi: 466924203471214
```

2.23 Get signal

```
strength asus_cmcli signal
```

Description

Get the percentage of the signal strength.

Return

```
sh-5.0# asus_cmcli signal Signal strength: 71%
```

2.24 Get advanced signal info

```
asus_cmcli signal_adv
```

Description

Get the signal strength of the different measurement.

Return

```
sh-5.0# asus_cmcli signal_adv
```

Evdo rssi: — dBm

Evdo ecio: — dBm

Evdo sinr: — dB

Evdo io: — dBm

Gsm rssi: — dBm

Umts rssi: — dBm

Umts rscp: — dBm

Umts ecio: — dBm

Lte rssi: -69.00 dBm

Lte rsrq: -9.00 dB

Lte rsrp: -95.00 dBm

Lte snr: 22.20 dB

2.25 Get cell location info

```
asus_cmcli location_info
```

Description

Get the information of the cell location.

Return

```
sh-5.0# asus_cmcli location_info
```

Operator code: 466

Operator name: 92

Location area code: FFFE

Tracking area code: 2C24

Cell id: 03406935

2.26 Set failover

```
asus_cmcli failover set [PARAM1] [PARAM2]
```

Description

Set variables of the failover feature.

Parameters

Param1	Param2	Description
status	on	Turn on the failover service.
status	off	Turn off the failover service.
group	InterfaceName	Set the priority interface of the group.

Return

```
sh-5.0# asus_cmcli failover set status on
```

```
sh-5.0# asus_cmcli failover set group wwan0 eth0 wlan0
```

```
sh-5.0# asus_cmcli failover show group wwan0, eth0, wlan0
```

```
sh-5.0# asus_cmcli failover show status on
```

2.27 Get failover status

```
asus_cmcli failover show [PARAMS]
```

Description

Get variables of the failover feature.

Parameters

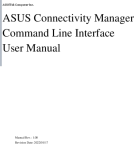
Params	Description
status	Show the status of the failover feature, on or off.
group	Show the interface priority of the group.

Return

```
sh-5.0# asus_cmcli failover show group wwan0, eth0, wlan0
sh-5.0# asus_cmcli failover show status on
```



Documents / Resources

	ASUS Connectivity Manager Command Line Interface [pdf] User Manual Connectivity Manager Command Line Interface, Manager Command Line Interface, Command Line Interface, Interface
---	--