



SMS REFERENCE

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SMS ADMINISTRATION

The commands below may be prefixed by '@1@' or '@2@' on two devices configurations.

'@1@' prefixed SMS will only be processed by the modem equipped device.

'@2@' prefixed SMS will only be processed by the other device.

If no prefix is specified, both devices will process the command.

For example, on a C4C-H4 configuration, the SMS '@2@reset' will only reset the H4 device.

Reset

Action

Resets the device.

Return value

None.

Example in

reset

Example out

Rupd

Action

Starts a remote update.

First parameter is 'rupd', then the 'login', then the 'server URL', then the 'server port' and finally the 'path'.

Return value

A SMS to the sender that gives the status.

Example in

rupd,testLogin,mobile-devices.dnsalias.com,6667,testDirectory

Example out

Remote update started

Iupd

Action

Gets the remote update status.

Return value

A SMS to the sender with the current status.

Example in

iupd

Example out

Update finished

Supd**Action**

Stops remote update.

Return value

None.

Example in

supd

Example out**Restore****Action**

Restore to default some software part.
First parameter is 'restore', then the part to restore.
1 - pdm, erase all the PDM ;
2 - db, erase the DB ;
3 - user, erase the user component configuration ;
4 - write, resets configuration and remote DB ;
5 - all, all of the above.

Return value

None

Example in

restore,all

Example out**Package****Action**

Fetch package production information.

Return value

Returns a SMS with production package informations.
Also tells about the updates done to the device :
C : coproc update
B : Bootloader update
K : Kernel update
R : Root FS update

J : JVM update

M : Core software update

U : User software update.

It returns 'pck unknown' if it was not a regular package and had no update done.

Example in

package

Example out

MDI_PCK2007081201MCCJKUUU

Set

Action

Set one or many config parameter.

First parameter is 'set', then the component name point the parameter, then the value.

If you need to set an array, add bracket index bracket after the parameter name, before the coma value.

To handle multiple parameters just add '#' to the end of the value and the new parameter.

Format Regexp: set,cpn.param(L_BRACKET INDEX R_BRACKET)?(,VALUE)?(#cpn.param(L_BRACKET INDEX R_BRACKET)?(,VALUE)?)*

Return value

On success "CNF:set:cpn.param(L_BRACKET INDEX R_BRACKET)?=VALUE#(cpn.param(L_BRACKET INDEX R_BRACKET)?=VALUE#)*".

On error, returns "Unable to set config value"

or when updating multiparam "CNF:set:(cpn.param(L_BRACKET INDEX R_BRACKET)?=VALUE#)*" followed by

- "Unable to find cpn.param(L_BRACKET INDEX R_BRACKET)?=VALUE"

- "Unable to set cpn.param(L_BRACKET INDEX R_BRACKET)?=VALUE"

Example in

set,modem.cnfapn,internet (update one parameter)

set,modem.cnfapn,internet#geoFencing.active,1 (update multi Parameter)

Example out

CNF:set:modem.cnfapn=internet#

CNF:set:modem.cnfapn=internet#geoFencing.active=1#

Get

Action

Fetches a config parameter value.
First parameter is 'get', then the component name point the parameter to fetch. If you need to fetch an array, add bracket index bracket after the parameter name.

Return value

A SMS with the value.
On error, returns "Unable to fetch config value".

Example in

```
get,modem.cnfapn  
get,modem.cnfapn#geoFencing.active
```

Example out

```
CNF:get:modem.cnfapn=internet#  
CNF:get:modem.cnfapn=internet#geoFencing.active=1#
```

GpsSwitchAntenna

Action

Switch the antenna source for GPS in runtime until next reset.
The first parameter is 'gpsSwitchAntenna', the second the desired source.
'0' is for internal antenna source, and '1' is for external source.

Return value

The status of the antenna.
On error, returns "Unable to switch antenna".

Example in

```
gpsSwitchAntenna,0
```

Example out

```
switched GPS antenna source to external
```

ApnSet

Action

Changes immediately and save the new modem APN, then resets the device.

Return value

On success, returns CNF:set:modem.cnfapn=value and resets.
On error, returns "Unable to set config value" and abort reset.

Example in

```
apnSet,internet
```

Example out

CNF:set:modem.cnfapn=test.com

SetDB

Action

Sets one or many DB parameter.

First parameter is 'setDB', then the parameter, then the value.

You can add parameters by adding # character.

Regexp Format: setDB,param(,value)?(#param(,value)?)*

Return value

On success "DB:set:param=value#".

On error, returns "Unable to set DB value".

or when updating multiparam "DB:set:(param=value#)*" followed with

- "Unable to getKey param"

- "Unable to set param"

Example in

setDB,DB_NAME,DB_VALUE (update one parameter)

setDB,DB_NAME1,DB_VALUE1#DB_NAME2,DB_VALUE2 (update multi parameter)

Example out

DB:set:DB_NAME=DB_VALUE#

DB:set:DB_NAME1=DB_VALUE1#DB_NAME2=DB_VALUE2#

GetDB

Action

Fetches one or many DB parameter value.

First parameter is 'getDB', then the DBNAME to fetch.

To handle multiple parameters just add '#' to the end of DBNAME,

and add the new DBNAME wanted.

Return value

A SMS with the value.

On error, returns "Unable to fetch DB value".

Example in

getDB,DBNAME

getDB,DBNAME1#DBNAME2

Example out

DB:get:DBNAME=DBVALUE#

DB:get:DBNAME1=DBVALUE1#DBNAME2=DBVALUE2#

GetIOS

Action

Fetches the inputs and outputs states.

Return value

A SMS with the value.

'0' is for 'false', '1' is for 'true' and '-1' for error.

1 - IG is ignition status ;

2 - AL is for alarm ;

3 - I1 is for input 1 ;

4 - I2 is for input 2 ;

5 - I3 is for input 3 ;

6 - O1 is for output 1 ;

7 - O2 is for output 2.

On errors, returns unable to fetch ios state.

Example in

getIOS

Example out

IOS,IG:1,AL:1,I1:1,I2:1,I3:1,O1:0,O2:0

Seto

Action

Sets an output status.

First parameter is 'setO', then the output ('1' or '2'), then the value ('0' for 'false' or '1' for 'true').

On error, returns "Unable to set output".

Return value

None

Example in

setO,1,0

Example out

ModemStats

Action

Return modem statistics.

Statistic description

PC : PPP Connection

PF : PPP Failed

PD : PPP Deconnection

GC : GSM data connection

GF : GSM data failed

GD : GSM data deconnection

R : Modem hard reset

The first value is value since boot, the second value is the total value.

Return value

A SMS with statistics information.

On error, returns "Unable to fetch modem stats".

Example in

modemStats

Example out

PC=2|2,PF=1|1,PD=1|1,GC=0|0,GF=0|0,GD=0|0,R=0|0

ModemStateMachine

Action

Return modem state machine.

State description

S : Library status (1:Init, 2:Runnig, 3:Stopping, 4:Stopped)

M : Modem status (1:On, 2:Off, 3:Starting, 4:Stopping)

TM : Transfert mode type (1:PPP, 2:GSM data, 3:None)

P : PPP status (1:On, 2:Off, 3:Starting, 4:Stopping, 5:Cancelling)

PN : PPP needed (1:Needed, 2:Not needed)

G : GSM data status (1:On, 2:Off, 3:Starting, 4:Stopping, 5:Failed, 6:Terminated, 7:Terminating)

MX : Multiplex status (1:On, 2:Off)

MP : Modem power (1:Down, 2:Init, 3:Run)

D : Dial status (1:Off, 2:On, 3:Answering)

T : Transfert status (1:Off, 2:On, 3:Answering)

H : HFK status (1:Off, 2:Ringing, 3:Answering, 4:Terminating, 5:Calling, 6:On)

C : CREG status (1: Not reg no search, 2:Registered, 3:Not reg search, 4:Denied, 5:Unknown, 6:Roaming, 7:Switching state)

CG : CGREG status (1:Detach not available, 2:Attach available, 3:Detach available, 4:Attaching, 5:Switching state)

CS : CSQ level (0:0-99, 1:1-11, 2:11-18, 3:18-25, 4:25-32)

S : SIM status (1:Init, 2:Ready, 3:PIN, 4:PUK, 5:PIN2, 6:PUK2, 7:PHSIM, 8:NETSIM, 9:Absent)

N : Network state (1:Init, 2:Ready, 3:Down, 4:Down_112, 5:Retry, 6:Luf_112, 7:SelfFail_112, 8:Error, 9:Switching state)

CP : Phone activity (1:Ready, 2:Unavailable, 3:Unknown, 4:Ready, 5:Call, 6:Asleep)

SM : SMS to send status (1:Some, 2:None, 3:Sending)

Return value

A SMS with state machine information.

On error, returns "Unable to fetch modem state machine".

Example in

modemStateMachine

Example out

S=2,M=1, TM=1,P=1,PN=1,G=2,MX=1,MP=2,D=1,T=2,C=2,CG=2,CS=2
,S=2,N=2,CP=1,SM=2

Version**Action**

Fetches a component version.
Put the component path, if it is not found,
we will try with the prefix 'com.' then with the
prefix 'com.mdi.'.
On error, returns "Unable to fetch version".

Return value

A SMS with the value.
On error, returns "Unable to fetch DB value".

Example in

version,drivers.modem

Example out

Version:drivers.modem:257r-480

Status**Action**

Check the software status.

Return value

Returns an sms to the sender.
The sms starts with the keyword "status".
Each information is separated by a coma ','.
1 - IMEI_SerialNumber ;
2 - longitude ;
3 - latitude ;
4 - Uptime in seconds ;
5 - Modem RSSI ;
6 - GPRS connexion status ('G' connected/'g' not connected) ;
7 - PPP connexion status ('P' connected/'p' not connected) ;
8 - Modem activation status ('M' modem is on/ 'm' modem is off) ;
9 - Boot reason code ;
10 - Watchdog code ;
11 - Number of viewed satellites ;
12 - GPS status ('G' GPS is on/'g' GPS is off) ;

Example in

status

Example out

status,3500000000000,000.00000,000.00000,U471000,C99,G,P,M,b,R
15,w,S11,G

Network reset**Action**

Resets the network monitor counters.
On error, returns "Unable to do network monitor reset."

Return value

Sms "Net stats, reset done"
On error, returns "Unable to fetch DB value".

Example in

netReset

Example out

Net stats, reset done.

Network status**Action**

Fetches the network monitor counters.

Return value

Sms "Net stats, rx:%d, tx:%d"
On error, returns "Unable to fetch network stats".

Example in

netStats

Example out

Net stats, rx:124, tx:173

Network dry status**Action**

Fetches the dry network monitor counters
(since last boot).

Return value

Sms "Net dry stats, rx:%d, tx:%d"
On error, returns "Unable to fetch dry network stats".

Example in

netDryStats

Example out

Net dry stats, rx:124, tx:173

ModemSMH**Action**

Fetches the modem state machine history.
Then send it to the remote server in TCP.

Return value

A SMS with the acknowledge of the execution of the command.
On error, returns "Unable to run command".

Example in

modemSMH

Example out

ModemSMH, command run

ModemSMH,server,port**Action**

Fetches the modem state machine history.
Then send it to the remote server in TCP.

Return value

A SMS with the acknowledge of the execution of the command.
You need to specify the server URL and the connexion port.
On error, returns "Unable to run command".

Example in

modemSMH,192.168.0.1,7654

Example out

ModemSMH, command run

PdmStats**Action**

Fetches the pdm size statistics, can specify an argument to ask only for a specific pdm file.

Return value

On success, returns "PdmStat,X:XSize,Z:ZSize"
Where X and Z are two different pdm.
On error, returns "Unable to fetch pdm stats".

Example in

```
pdmStats
```

Example out

```
PdmStats,tracking:0,smsClient-  
criticalCommandManager:0,smsFile:0,smsClientsFile:0,smsClient-  
j$commandManager$0:0
```

GpsStats

Action

Get information about the GPS and its driver.

Return value

On success, returns GpsStat:GPS Power Status,Source:Antenna Source,
synchroRTC:RTC synchronisation satus,lastFrame:time in seconds since
EPOCH
when we received last NMEA Frame,curReset:number of driver resets
since last boot,
totReset:number of driver resets since first boot.
On error, returns "Unable to fetch gps stats".

Example in

```
gpsStats
```

Example out

SendNow

Action

If dataEmitter is enabled,
then ask it to emit right away.

Return value

None.

Example in

```
SENDNOW
```

Example out

SysVersion

Action

Fetches the versions of the system modules..

The categories are semi-column-separated, while the fields inside are comma-separated.

- hardware: serial number of the board, modem firmware version, gps firmware version.
- system: bootloader, kernel, modules, rootfs, coproc, [avr

Return value

A SMS with the versions

Example in

sysVersions

Example out

VERSION:

GetOdometer

Action

Get the gps odometer current value.

Return value

On error, returns "Unable to get gpsOdometer value".

Example in

getOdo

Example out

"odoValue,0,0"

SetOdometer

Action

Set the gps odometer current value.

Set partial odometer in meters, set full odometer in meters.

If full odometer is not set or negative, it won't be modified.

Return value

On error, returns "Unable to set gpsOdometer value".

Example in

setOdo,0,0

Example out

"odoValue,0,0"

Relay status

Action

If RelayControl is enabled,
then fetches the status of the controlled output.

Return value

Sends an SMS to the sender with the status.

Example in

relay,status,mdi

Example out

Status: Blocked

Relay block

Action

If RelayControl is enabled,
then blocks the output if needed.

Return value

NONE.

Example in

relay,block,mdi

Example out

Relay unblock

Action

If RelayControl is enabled,
then unblocks the output if needed.

Return value

NONE.

Example in

relay,unblock,mdi

Example out