Command Line Interface

for Jlink LTE

Version 1.0

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NAME

jlink CLI interface of jlinklte.

SYNOPSIS

`jlink` [COMMAND] [OBJECT] [PARAMETERS]

COMMAND

add Add [OBJECT] with [PARAMETERS] (OBJECT:={mac}, PARAMERTES:={BSSID|IP})
remove Remove [OBJECT] with [PARAMETERS] (OBJECT:={mac}, PARAMERTES:={BSSID})

Specifies the action to perform on the object. The set of possible actions depends on the object type.

status Get status of [OBJECT] (OBJECT:={device|lan|gsm|uhf|wifi_adapter|bt_adapter|gps|ntrip|tcp|tcpo|power}).
config Set/Get config [PARAMETERS] of [OBJECT] (OBJECT:={lan|gsm|uhf|wifi_adapter|bt_adapter|gsetup|advsetup|data_router_map|ntrip_client|tcp_client|tcp_output}).
scan Scan [OBJECT] (OBJECT:={bt_adapter|wifi_adapter|ntrip_mountpoint})
connect Connect to [OBJECT] with [PARAMETERS] (OBJECT:={wifi_adapter|bt_adapter}, PARAMERTES:={BSSID|SSID&PASSPHRASE})
forget Forget the [OBJECT] with [PARAMETERS] (OBJECT:={wifi_adapter}, PARAMERTES:={BSSID})
pairing Pairing via [PARAMETER] interface ({PARAMETER:=USB|SER|BT}))
unpairing Unpairing via [PARAMETER] interface ({PARAMETER:=USB|SER|BT}))
test Special command for testing porpose with [PARAMETER] (PARAMETER:={uhf_dc_on|uhf_serial|led_test|uhf_update})
def_cfg Reset default configuration
fw_check Check FW update from server with [PARAMERTER] (PARAMETER:={release|prerelease|test} not mandatory).
fw_update Update FW from server
passwd Change console password for «jlink» user
shutdown Shut Down Device
help Usage

OBJECT

Specifies the object name to perform command. Each configurable object has his own parameters.

lan Config parameter of Ethernet (PARAMERERS:={ddr_alloc, ip_addr, netmask, gateway, dns1, dns2})
gsm Config parameter of GSM module (PARAMETERS:={pin, apn, pwd, user, en_pap, en_chap, carrier_profile})
uhf Config parameter of UHF module (PARAMETERS:={freq_rx, freq_tx, power, protocol, csign, fan_control, antenna_detect, tx_delay, uhf_freqs, uhf_protocol_details})
bt_adapter -Config parameter of BT adapter (PARAMETERS:={bt_pin, bt_name, bt_discoverable, bt_mode, bt_dest})
wifi_adapter Config parameter of WIFI adapter (PARAMETERS:={mode, hwmode, channel, passphrase, protection})

gsetup Config parameter of general setup (PARAMETERS:={en_gps, en_gsm, en_uhf, en_wifi, en_bt})

advsetup Config parameter of advanced setup (PARAMETERS:={ser_mode, bt_ser_mode, internet_first_prior, time_shift})

data_router_map Config parameter of data_router (PARAMETERS:={ntrip_src, ntrip_uhf_dst, ntrip_ser_dst, ntrip_bt_dst, uhf_src, uhf_ser_dst, uhf_bt_dst})

ntrip_client Config parameter of NTRIP Client (PARAMETERS:={serv_name, serv_port, user, pwd, nmeagga, nmeagga_timout, lat, lng, mpoint})

tcp_client Config parameter of TCP Client (PARAMETERS:={serv_name, serv_port, user, pwd, nmeagga})

tcp_output Config parameter of TCP Output (PARAMETERS:={server_port})

PARAMETERS

Specifies the parameter name and value.

lan:

ddr_alloc LAN satic/dinamic address config parameter (VALUE:={STATIC|DINAMIC})

ip_addr LAN static ip address config parameter (VALUE:={xxx.xxx.xxx.xxx})

netmask LAN network mask config parameter (VALUE:={xxx.xxx.xxx.xxx})

gateway LAN gateway address config parameter (VALUE:={xxx.xxx.xxx.xxx})

dns1 LAN DNS address config parameter (VALUE:={xxx.xxx.xxx.xxx})

dns2 LAN DNS address config parameter (VALUE:={xxx.xxx.xxx.xxx})

gsm:

pin GSM pin code config parameter (VALUE:={word, maxlegth 32})

apn GSM apn config parameter (VALUE:={word, maxlegth 32})

pwd GSM password config parameter (VALUE:={word, maxlegth 32})

user GSM user name config parameter (VALUE:={word, maxlegth 32})

en_pap GSM PAP enabling config parameter (VALUE:={Enable|Disable})

en_chap GSM CHAP enabling config parameter (VALUE:={Enable|Disable})

carrier_profile GSM Carrier Profile config parameter (VALUE:={GENERIC|VERIZON|ROGERS|TELUS|BELL|ATT})

uhf:

freq_rx UHF RX frequency

freq_tx UHF TX frequency

power UHF output power in dB (VALUE:={15-30})

protocol UHF protocol (VALUE:={Javad|Trimble|Satel|Pasific_crest})

csign UHF call sign string (VALUE:={A-Z,0-9, maxlength 10})

fan_control Fan control parameter (VALUE:={Enable|Disable})

antenna_detect UHF Antenna detect parameter (VALUE:={Enable|Disable})

tx_delay UHF Tx delay parameter (VALUE:={0-650})

uhf_freqs UHF frequency map (VALUE:={406000000-470000000,...})

uhf_protocol_details UHF protocol details (VALUE:={<protocol name>, <mode>, <modulation>, <chanel spaceing>, <FEC> <scrambling>, <scram_num>, <AUX (optional only for Trimble and Pasific_crest protocol)>, <compartibility(optional only for Satel protocol)>})

bt_adapter:

bt_name	BT name config parameter (VALUE:={word,maxlength 32})
bt_discoverable	BT discoverable config parameter (VALUE:={Enable|Disable})
bt_mode	BT mode config parameter (VALUE:={MASTER|SLAVE})
bt_dest	BT destination device MAC address config parameter (VALUE:={xx:xx:xx:xx:xx:xx})

wifi_adapter:

mode	WIFI Adapter mode config parameter (VALUE:={AP|client|AP+client})
hwmode	WIFI HW operation mode config parameter (VALUE:={g|b|a})
channel	WIFI channel config parameter (VALUE:={1-14})
passphrase	WIFI passphrase config parameter (VALUE:={word,maxlength 32})
protection	WIFI protection config paarameter (VALUE:={word,maxlength 32})

gsetup:

en_gps	GPS enabling config parameter (VALUE:={Enable|Disable})
en_gsm	GSM enabling config parameter (VALUE:={Enable|Disable})
en_uhf	UHF enabling config parameter (VALUE:={Enable|Disable})
en_wifi	WIFI enabling config parameter (VALUE:={Enable|Disable})
en_bt	BT enabling config parameter (VALUE:={Enable|Disable})

advsetup:

ser_mode	Serial Port mode config parameter (VALUE:={Terminal|Console|Network})
bt_ser_mode	BT Port mode config parameter (VALUE:={Terminal|Console})
internet_first_prior	Internet router first priority (VALUE:={LAN||WIFI|GSM})
time_shift	Time zone config parameter (VALUE:={-12.00 +12.00})

data_router_map:

ntrip_src	NTRIP source enabling config parameter (VALUE:={Enable|Disable})
ntrip_uhf_dst	NTRIP router UHF destination enabling config parameter (VALUE:={Enable|Disable})
ntrip_ser_dst	NTRIP router Serial destination enabling config parameter (VALUE:={Enable|Disable})
ntrip_bt_dst	NTRIP router BT destination enabling config parameter (VALUE:={Enable|Disable})
tcp_src	TCP source enabling config parameter (VALUE:={Enable|Disable})
tcp_uhf_dst	TCP router UHF destination enabling config parameter (VALUE:={Enable|Disable})
tcp_ser_dst	TCP router Serial destination enabling config parameter (VALUE:={Enable|Disable})
tcp_bt_dst	TCP router BT destination enabling config parameter (VALUE:={Enable|Disable})
uhf_src	UHF router source enabling config parameter (VALUE:={Enable|Disable})
uhf_ser_dst	UHF router Serial destination enabling config parameter (VALUE:={Enable|Disable})
uhf_bt_dst	UHF router BT destination enabling config parameter (VALUE:={Enable|Disable})
tcpo_src	TCP output source interfae config parameter (VALUE:={SERIAL|BT|UHF|TCPC|NTRIP|NONE})

ntrip_client:

serv_name	Server name config parameter (VALUE:={word,maxlength 32})
serv_port	Server port config parameter (VALUE:={word,maxlength 32})

user Server user name config parameter (VALUE:={word,maxlength 32})
pwd Server password config parameter (VALUE:={word,maxlength 32})
nmeagga nmeagga enabling config parameter (VALUE:={Enable|Disable})

nmeagga_timeout:

nmeagga_timeout config parameter (VALUE:={<1>,<2>,<3>,<4>,<5>,<10>,<15>,<20>,<25>,<30>,<35>,<40>,<45>,<50>,<55>,<60>})
lat Latitude config parameter (VALUE:={word,maxlength 32})
lng Longtitude config parameter (VALUE:={word,maxlength 32})
mpoint Server mount point config parameter (VALUE:={word,maxlength 32})

tcp_client:

serv_name Server name config parameter (VALUE:={word,maxlength 32})
serv_port Server port config parameter (VALUE:={word,maxlength 32})
user Server user name config parameter (VALUE:={word,maxlength 32})
pwd Server password config parameter (VALUE:={word,maxlength 32})
nmeagga nmeagga enabling config parameter (VALUE:={Enable|Disable})

tcp_output:

serv_port Server port config parameter (VALUE:={word,maxlength 32})

EXAMPLES

Get UHF status:
command:

```
root@jlink:~# jlink status uhf
```

result:

```
UHF Module Info
Model: LMR400 (406-470) UHF Radio Modem, Javad GNSS
S/N: 000001362953
Hardware: Ver. 2.0
Software: 3.2.3.0
UHF Module Status
RSSI: -145 dBm
BER: 0E-0
RX Frequency: 433.000000 MHz
TX Frequency: 433.000000 MHz
Bytes received: 0 B
Bytes transmitted: 0 B
Temperature: 41 C
root@jlink:~#
```

Get UHF configuration parameters:

command:

```
root@jlink:~# jlink config uhf
```

result:

```
Config uhf
freq_rx: 433000000
freq_tx: 431000000
power: 15
protocol: Javad
csign:
fan_control: Enable
antenna_detect: Disable
uhf_freqs: 406000000,440000000,470000000
uhf_protocol_details: Javad,Transceiver,DQPSK,12.5,Enable,Enable,255
root@jlink:~#
```

Set UHF configuration parameter:

command:

```
root@jlink:~# jlink config uhf -power=25 -protocol=Javad -freq_rx=444000000
```

result:

```
root@jlink:~#
```

Scan BT adapter:

command:

```
root@jlink:~# jlink scan bt_adapter
```

result:

```
Scaned Destination Devices
        00:18:2F:9C:CE:25       Compact
        00:1E:58:EB:CC:28       ARMEN-PC
root@jlink:~#
```

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