Programming Note

//Check fw build date

cat /etc/openwrt_release cat /proc/version

//check CPU usage

top

//snmpwalk run in teraterm or ssh

snmpwalk -Os -c public -v 1 -u admin 192.168.1.1

//enable snmp

/etc/init.d/snmpd start snmpwalk -v 1 -c public 192.168.1.20

// disable ignore broadcasts

echo 0 >/proc/sys/net/ipv4/icmp_echo_ignore_broadcasts

//1216VX board ID

5G-11

2.4G-12

//1216V5-20 board id 5G = 31

//1216V2-20 board id 2G = 30

//upgrade fw from the command line without tftp mode

sysupgrade /path/to/firmware

//alternative to upgrade fw

winscp or scp the *firmware* to */tmp* of the board run `sysupgrade /tmp/firmeware name`

//show wireless config

```
cat /etc/config/wireless
config wifi-device 'wifi0'
       option type 'atheros'
       option hwmode '11ng'
       option antenna_gain '0'
       option txpower 'max'
       option country '356'
       option channel 'auto'
       option ochann '1'
       option chainmask '3'
       option anienablelua '1'
       option dcsenablelua '0'
config wifi-iface
       option device 'wifi0'
       option network 'lan'
       option id ssid 'wifi0 1'
       option manrate 'auto'
       option mode 'sta'
       option ssid 'telenet'
       option shortgi '1'
       option mcastenhance '2'
       option disablecoext '0'
       option wds '1'
       option encryption 'wpa2+tkip+ccmp'
       option eap_type 't'
       option auth 'MSCHAPV2'
       option identity 'telenet'
       option password 'telenet'
```

root@MimoAP:~# uci show wireless

wireless.wifi0=wifi-device wireless.wifi0.type='qcawifi' wireless.wifi0.macaddr='04:f0:21:2f:6d:61' wireless.wifi0.channel='36' wireless.wifi0.hwmode='11ac' wireless.wifi0.txpower='18' wireless.wifi0.htmode='HT80' wireless.@wifi-iface[0]=wifi-iface wireless.@wifi-iface[0].device='wifi0' wireless.@wifi-iface[0].network='lan' wireless.@wifi-iface[0].mode='ap' wireless.@wifi-iface[0].ssid='Test' wireless.@wifi-iface[0].wds='1' wireless.@wifi-iface[0].disablecoext='1' wireless.@wifi-iface[0].vht 11ng='1' wireless.@wifi-iface[0].encryption='psk2' wireless.@wifi-iface[0].key='123456789'

//set country code and tx power in qca ref fw

Please use uci command:
uci set wireless.wifi1.country=843
uci commit wireless
wifi down
wifi up
iwconfig ath1 txpower 31
iwconfig ath1
The tx power shown is either the calibrated max power
or the max power by country limit, whichever is lower.
For WLE600V5-27, the value should be 30 (2 chains).

//arp

arp -d 192.168.1.1

//872 MACID: machid: 8010008 -> NAND