

- abtfilt in init.rc

```
service abtfilt /system/bin/wlan_tool abtfilt
    disabled
    oneshot
```

- android/system/bluetooth/bluedroid/bluetooth.c

We start abtfilt in the end of bt_enable(). Stop it in the beginning of bt_disable()

WLAN utilities [utilities.pod]

wlan_tool

wlan_tool is most important tool for Android system. It is a script which will help to load/unload the driver. Tcmd mode, abtfilter, dhcp and wpa_supplicant service. You are easy to modify it for your system requirement since it is scriptable.

You can run wlan_tool as script and service. Run it in adb shell as script and run it by 'start' as service. Here are the usage for running wlan_tool as service

```
start wlan_tool:load
```

which will load the driver by wlan_tool, where 'load' is the parameter of the wlan_tool. There are 8 parameters for running wlan_tool. You can modify the options for each service, e.g. debug level of the wpa_supplicant.

- init Initialize the wlan driver
- load
 - Load the driver
- unload
 - Unload the driver
- testmodeup
 - Load the TCMD mode
- testmodedown
 - Unload the TCMD mode
- abtfilt
 - Run the Atheros BT-Filter service.
- wpa_supplicant
 - Run the wpa_supplicant service
- dhcpcd
 - Run the dhcp client service

athtestcmd

You can run TCMD by athtestcmd utility. You can get further information from AR6x02 Family Sample Manufacturing Test Flow.pdf

Here are the procedure to run it. You can type athtestcmd —help to get further descriptions of parameters.

1. Load the TCMD firmware

```
insmod ar6000.ko testmode=1
or
start wlan_tool:testmodeup
```

2. Run RX test

```
athtestcmd -i wlan0 --rx promis
```

3. Stop the RX test and get the report of rx test

```
athtestcmd -i wlan0 --rx report
```

4. Run TX continuously with power 30dBm, channel 11, rate 2Mbps

```
athtestcmd -i wlan0 --tx tx99 --txfreq 11 --txpwr 30 --txrate 1
```

5. Stop TX test

```
athtestcmd -i wlan0 --tx off
```

artAgent

You can run the ART (Atheros Radio Test) to calibrate the chips via artAgent. You can get further information for ART from "AR6x02 Atheros Radio Test ART Reference Guide.pdf"

Here are the guideline how to run ART with artAgent

1. Load the ART firmware

```
insmod ar6000.ko bypasswmi=1
```

2. Run artAgent

```
artagent wlan0
```

3. Connect your USB cable between your phone and PC running ART host

4. Bridge the USB to local socket by adb command

```
adb forward tcp:5454 tcp:5454
```

5. Modify your remotelp.ini of ART host. Set the IP as 127.0.0.1

6. Run the ART host program to connect remote target via adb forward

wmiconfig

You can configure our wlan driver by wmiconfig. type the following command to get help

```
wmiconfig -i wlan0 --help
```