### [Realtek RF MP Tool Guidelines ]

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## [1. Features] The following steps demonstrate Realtek Wireless Adapter Mass Production Linux Tool. This is a simple install guide, We use Linux utility "iwpriv" to get and set I/O control to WLAN driver. Or use realtek proprietary tools "rtwpriv" for Android system. [2. Software Package] - To check have the Component .tar.gz files. 1. Driver source - rtXXX linux MP vX.X.X.tar.gz 2. Wireless tool Source -(If want to use for Android system) -Android\_wireless\_tools.tar 3. Documents - LinuxDriver\_MP\_Iwpriv\_UserGuide.doc [3. Quick Start Guide] \_\_\_\_\_\_ [3.1. Build Driver module] \_\_\_\_\_ Note: Use su/sudo su for root authentication with following command. 1. Unzip Driver source folder -# tar -xvzf rtlXXX\_linux\_MP\_linux\_vx.x.x.tar.gz 2. Change to driver source code directory -# cd rtlXXX\_linux\_MP\_\_linux\_vx.x.x 3. To choose interface for 8723A WiFi Driver. # chmod 777 make drv #./make drv #input 1 or 2 for 8723AS/8723AU

### 4. Config compile Setting-

Edit the "Makefile", and modify the line 21 "CONFIG\_MP\_INCLUDED = n" to "CONFIG MP INCLUDED = y"

If your target platform is the platform you're compiling driver, maybe you don't need to change any setting.

Otherwise you need to do some configuration manually, like cross compiler and kernel source tree directory.

ex.

ARCH := arm

CROSS\_COMPILE := arm-none-linux-gnueabi-

KSRC := /usr/src/linux-2.6.34.1

5. Do the Compile the driver source code -

# make

If nothing goes wrong, the driver "8xxx.ko" will be generated

If there're still some problems or need more detail compile driver guide, please check normal driver package for more reference.

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### 3.2 Build Android wireless tools

### 3.2.1 rtwpriv for MP APK GUI Tool

The Realtek Android MP apk tool need to use the proprietary rtwpriv tool, please first to execute the adb push the rtwpriv to the android system.

In the RtkWiFiTest\_Package\_For\_Customer package more detailed information on readme.txt.

Q. How to build rtwpriv tool?

A.

[Linux]

Just "make", and you will get executable file "rtwpriv".

[Android - Speradtrum platform]

Step 1. put rtwpriv directory to idh.code/external/.

Step 2. In root directory (idh.code/), run "./mk sp6820gb u adr external/rtwpriv/".

Step 3. The binary is installed on "out/target/product/hsdroid/system/bin/rtwpriv".

### 3.2.2 iwpriv tool

If you want to use "iwpriv" for Android system, we need to Build iwpriv(wireless tools) for android.

And iwpriv use the "wireless-extensions" to ioctrl with wlan driver, If your Android kernel disable the wireless extensions,

Please rebuild kernel and enable the kernel config "wireless-extensions"



If your are use Linux kernel 3.x, maybe you can't to select and enable items on make menuconfig, you can refer the following procedures:

Changed the followings in \linux-3.0.20\net\wireless\Kconfig:

### before:

config WIRELESS\_EXT

bool

...

config WEXT\_PRIV

bool

### to:

config WIRELESS\_EXT

bool "WIRELESS EXT"

...

config WEXT PRIV

bool "WEXT\_PRIV"

and selected the followings in "make menuconfig":

Networking support --->
-\*- Wireless --->
[\*] WIRELESS\_EXT
[\*] WEXT\_PRIV

With these steps, kernel and WLAN driver seem to be compiled successfully.

### 3.2.2-1 Compile the wireless tools

#tar zxvf Android\_wireless\_tools-iwpriv.tar.gz

#cp wireless\_tools froyo-x86/external/

 $root@realtek-desktop: $$^\rho / Desktop/froyo-x86/external/wireless\_tools $$\#.../../build/envsetup.sh$ 

root@realtek-desktop:~/Desktop/froyo-x86/external/wireless\_tools# mm

. . . . .

target Non-prelinked: iwpriv (out/target/product/eeepc/symbols/system/bin/iwpriv)

target Unstripped: iwpriv

(out/target/product/eeepc/obj/EXECUTABLES/iwpriv\_intermediates/iwpriv)

Install: out/target/product/eeepc/system/xbin/iwpriv

#cp " out/target/product/eeepc/system/xbin/iwpriv " to target platform file system
" system/xbin/iwpriv ".

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### [3.3 Manual for MP Use Example]

\_\_\_\_\_

(Execute the following commands after WLAN interface is normally opened)

If you want to change the input parameter(rate > channel > txpower > bandwidth), please must input advance the command "iwpriv wlan0 mp\_ctx stop".

Please refer the doc "iwpriv\_mp\_settings\_for\_different\_data\_rate.xls " for set data rate.

.\_\_\_\_\_

Insert and enable the MP Mode Driver

-----

insmod wlan.ko rtw\_mp\_mode=1



```
3.3.1 [Continuous Tx testing]: "iwpriv wlan0 mp_ctx background"
                                           // Enable Device for MP operation
#ifconfig wlan0 up
                                           // enter MP mode
#iwpriv wlan0 mp start
                                      //Switch Antenna to WiFi (For Combo IC)
#iwpriv wlan0 mp_setrfpath 1
                                           // set channel to 1 . 2, 3, 4~13 etc.
#iwpriv wlan0 mp channel 1
#iwpriv wlan0 mp bandwidth 40M=0,shortGI=0
                                            // set 20M mode and long GI,set 40M
is 40M=1, set 80M= 2.
                                           //Select Antenna A for operation, if
#iwpriv wlan0 mp ant tx a
device have 2x2 antennam select antenna "a" or "b" and "ab" for operation.
                                          // set OFDM data rate to 54Mbps, ex:
#iwpriv wlan0 mp rate 108
CCK 1M = 2, CCK 5.5M = 11; OFDM 6M=12 > 54M = 108; N Rate: MCS0 = 128, MCS1 =
129,MCS 2=130....MCS15 = 143 etc ;VHT Rate :MCS0 = 144,MCS 1=145,MCS 2=146 ~
MCS9 =153.
                                  power index, please input advance the command
                                 and use the return value fill to following orange
"iwpriv wlan0 mp
field.
                                             //set path A and path B Tx power
#iwpriv wlan0 mp txpower patha=44,pathb=44
level, the Range is 0~63.
#iwpriv wlan0 mp ctx background
                                           // start continuous Tx
                                           //stop continuous Tx
#iwpriv wlan0 mp_ctx stop
If you want to change the input parameter(rate \cdot channel \cdot txpower \cdot
bandwidth), please must input advance the command "iwpriv wlan0 mp ctx stop".
#iwpriv wlan0 mp_stop
                                      // exit MP mode
If you want to continue MP test, don't do this command.
                                      // close WLAN interface
#ifconfig wlan0 down
```

```
3.3.2 [Continuous Packet Tx testing]: "iwpriv wlan0 mp_ctx background,pkt"
```

```
#ifconfig wlan0 up
                                           // Enable Device for MP operation
                                           // enter MP mode
#iwpriv wlan0 mp start
                                      //Switch Antenna to WiFi (For Combo IC)
#iwpriv wlan0 mp_setrfpath 1
                                           // set channel to 1 . 2, 3, 4~13 etc.
#iwpriv wlan0 mp channel 1
#iwpriv wlan0 mp bandwidth 40M=0,shortGI=0
                                            // set 20M mode and long GI,set 40M
is 40M=1, set 80M= 2.
                                           //Select Antenna A for operation, if
#iwpriv wlan0 mp ant tx a
device have 2x2 antennam select antenna "a" or "b" and "ab" for operation.
                                          // set OFDM data rate to 54Mbps, ex:
#iwpriv wlan0 mp rate 108
CCK 1M = 2, CCK 5.5M = 11; OFDM 6M=12 > 54M = 108; N Rate: MCS0 = 128, MCS1 =
129,MCS 2=130....MCS15 = 143 etc ;VHT Rate :MCS0 = 144,MCS 1=145,MCS 2=146 ~
MCS9 =153.
                                  power index, please input advance the command
                                 and use the return value fill to following orange
"iwpriv wlan0 mp
field.
                                            //set path A and path B Tx power
#iwpriv wlan0 mp txpower patha=44,pathb=44
level, the Range is 0~63.
#iwpriv wlan0 mp ctx background,pkt
                                                // start continuous Packet Tx
                                      //stop continuous Packet Tx
#iwpriv wlan0 mp_ctx stop
If you want to change the input parameter (rate < channel < txpower <
bandwidth), please must input advance the command "iwpriv wlan0 mp ctx stop".
                                      // exit MP mode
#iwpriv wlan0 mp_stop
If you want to continue MP test, don't do this command.
                                      // close WLAN interface
#ifconfig wlan0 down
```

-----

"iwpriv wlan0 mp\_ctx count=%d,pkt"

[ Count Packet Tx testing ]:

3.3.3

```
// Enable Device for MP operation
#ifconfig wlan0 up
                                           // enter MP mode
#iwpriv wlan0 mp start
#iwpriv wlan0 mp_setrfpath 1
                                      //Switch Antenna to WiFi (For Combo IC)
#iwpriv wlan0 mp_channel 1
                                           // set channel to 1 . 2, 3, 4~13 etc.
                                            // set 20M mode and long GI, set 40M
#iwpriv wlan0 mp_bandwidth 40M=0,shortGI=0
is 40M=1, set 80M= 2.
                                           //Select Antenna A for operation, if
#iwpriv wlan0 mp_ant_tx a
device have 2x2 antennam select antenna "a" or "b" and "ab" for operation.
                                          // set OFDM data rate to 54Mbps, ex:
#iwpriv wlan0 mp_rate 108
CCK 1M = 2, CCK 5.5M = 11; OFDM 6M=12 > 54M = 108; N Rate: MCS0 = 128, MCS1 =
129,MCS 2=130....MCS15 = 143 etc ;VHT Rate :MCS0 = 144,MCS 1=145,MCS 2=146 ~
MCS9 = 153.
If you want to get and use Efuse Tx power index, please input advance the command
"iwpriv wland mp
                                   nd use the return value fill to following orange
#iwpriv wlan0 mp_txpower patha=44,pathb=44
                                            //set path A and path B Tx power
level, the Range is 0~63.
# iwpriv wlan0 mp_ctx count=%d,pkt // "%d" Number of packets start packet Tx
start continuous Packet Tx
#iwpriv wlan0 mp_ctx stop
                                      //stop continuous Packet Tx
If you want to change the input parameter(rate > channel > txpower >
bandwidth), please must input advance the command "iwpriv wlan0 mp_ctx stop".
#iwpriv wlan0 mp_stop
                                      // exit MP mode
If you want to continue MP test, don't do this command.
                                      // close WLAN interface
#ifconfig wlan0 down
```

```
3.3.4
          [ Carrier suppression testing ]:
                                            "iwpriv wlan0 mp_ctx background,cs"
#ifconfig wlan0 up
                                            // Enable Device for MP operation
                                            // enter MP mode
#iwpriv wlan0 mp_start
                                       //Switch Antenna to WiFi (For Combo IC)
#iwpriv wlan0 mp setrfpath 1
#iwpriv wlan0 mp channel 1
                                            // set channel to 1 . 2, 3, 4~13 etc.
#iwpriv wlan0 mp_bandwidth 40M=0,shortGI=0
                                            // set 20M mode and long GI,set 40M
is 40M=1, set 80M= 2.
                                            //Select Antenna A for operation, if
#iwpriv wlan0 mp ant tx a
device have 2x2 antennam select antenna "a" or "b" and "ab" for operation.
#iwpriv wlan0 mp_rate 22
                                           // set OFDM data rate to 11 Mbps,ex:
CCK 1M = 2, CCK 5.5M = 11;
If you want to get and use Efuse Tx power index,please input advance the command
"iwpriv wlan0/mp
                  get txpower" and use the return value fill to following orange
field.
                                              //set path A and path B Tx power
#iwpriv wlan0 mp_txpower patha=44,pathb=4
level, the Range is 0~63.
                                       // start sending carrier suppression signal
#iwpriv wlan0 mp_ctx background,cs
                                       //stop continuous Packet Tx
#iwpriv wlan0 mp_ctx stop
If you want to change the input parameter(rate > channel > txpower >
bandwidth), please must input advance the command "iwpriv wlan0 mp ctx stop".
                                       // exit MP mode
#iwpriv wlan0 mp_stop
If you want to continue MP test, don't do this command.
                                       // close WLAN interface
#ifconfig wlan0 down
```

-----

# 3.3.5 [ Single Tone Tx testing ]: "iwpriv wlan0 mp\_ctx background,stone"

```
// Enable Device for MP operation
#ifconfig wlan0 up
                                            // enter MP mode
#iwpriv wlan0 mp_start
                                       //Switch Antenna to WiFi (For Combo IC)
#iwpriv wlan0 mp setrfpath 1
                                            // set channel to 1 . 2, 3, 4~13 etc.
#iwpriv wlan0 mp channel 1
#iwpriv wlan0 mp bandwidth 40M=0,shortGI=0
                                            // set 20M mode and long GI,set 40M
is 40M=1, set 80M= 2.
                                            //Select Antenna A for operation, if
#iwpriv wlan0 mp ant tx a
device have 2x2 antennam select antenna "a" or "b" and "ab" for operation.
#iwpriv wlan0 mp_rate 108
                                          // set OFDM data rate to 54Mbps, ex:
CCK 1M = 2, CCK 5.5M = 11; OFDM 6M=12 > 54M = 108; N Rate: MCS0 = 128, MCS1 =
129,MCS 2=130....MCS15 = 143 etc ;VHT Rate :MCS0 = 144,MCS 1=145,MCS 2=146 ~
MCS9 = 153.
If you want to get and
                          Efuse Tx power index, please input
                                  and use the return value fill to following orange
"iwpriv wlan0 mp
field.
#iwpriv wlan0 mp txpower patha=44,pathb=44
                                             //set path A and path B Tx power
level, the Range is 0~63.
                                            # start sending single tone signal
#iwpriv wlan0 mp_ctx background,stone
                                       //stop continuous Packet Tx
#iwpriv wlan0 mp_ctx stop
If you want to change the input parameter(rate > channel > txpower >
bandwidth), please must input advance the command "iwpriv wlan0 mp_ctx stop".
                                       // exit MP mode
#iwpriv wlan0 mp_stop
If you want to continue MP test, don't do this command.
#ifconfig wlan0 down
                                       // close WLAN interface
```

"iwpriv wlan0 mp\_arx start" [ Air Rx testing ]: 3.3.6 #ifconfig wlan0 up // Enable Device for MP operation #iwpriv wlan0 mp\_start // Enter MP mode //Switch Antenna to WiFi (For Combo IC) #iwpriv wlan0 mp\_setrfpath 1 #iwpriv wlan0 mp\_channel 1 // Set channel to 1 . 2, 3, 4~13 etc. #iwpriv wlan0 mp bandwidth 40M=0,shortGI=0 // set 20M mode and long GI,set 40M is 40M=1, set 80M= 2. // Select antenna A for operation, if device #iwpriv wlan0 mp\_ant\_rx a have 2x2 antennam select antenna "a" or "b" and "ab" for operation. // start air Rx teseting. #iwpriv wlan0 mp\_arx start // get the statistics. #iwpriv wlan0 mp\_query #iwpriv wlan0 mp\_arx stop **or** #iwpriv wlan0 mp\_reset\_stats // Stop air Rx test and show the Statistics / Reset Counter. // exit MP mode #iwpriv wlan0 mp stop #ifconfig wlan0 down // close WLAN interface [Enable/Disable Tx Power Tracking]: "iwpriv wlan0 mp pwrctldm 3.3.6 start/stop" #iwpriv wlan0 mp\_pwrctldm start #Enable the power tracking for Tx. **#Disable the power tracking for Tx.** #iwpriv wlan0 mp\_pwrctldm stop

### [4. Efuse Read/Write Use Example] use example: [4.1 WiFi efuse\_get] // read form driver for all efuse logic map. #iwpriv wlan0 efuse get realmap #iwpriv wlan0 efuse get realraw // read form all HW Efuse phy map. #iwpriv wlan0 efuse\_get mac // read mac address ( Direct to use the cmd for raed mac address from the efuse content ) // fix offset :cmd,offset,byteCounts (Specified a #iwpriv wlan0 efuse\_get rmap,16,6 start of the efuse's logic address 0x16 offset and set the number of bytes for read the efuse content) #iwpriv wlan0 efuse get wlrfkrmap,16,6 // fix offset :cmd,offset,byteCounts (Specified a start of the efuse's logic 0x16 address offset and set the number of bytes for read the fake WiFi efuse content) #iwpriv wlan0 efuse\_get wlrfkmap // read form WiFi take for all efuse logic map. [4.2 WiFi efuse\_set] #iwpriv wlan0 efuse set wmap,16,00e04c871234 // cmd,offset,Data bytes[hex] (Specified a offset address for write 6 bytes data "0x00,0xe0,0x4c,0x87,0x12,0x34" to the 0x16 start of the efuse logic address ) // cmd,Data bytes[hex] (Use set #iwpriv wlan0 efuse set mac,00e04c871234 mac cmd to write 6 bytes data "0x00,0xe0,0x4c,0x87,0x12,0x34" to the efuse content) // cmd,offset,Data bytes[hex] #iwpriv wlan0 efuse\_set wlwfake,16,00e04c871234 (Specified a offset address for write 6 bytes data "0x00,0xe0,0x4c,0x87,0x12,0x34" to the 0x16 start of the Fake efuse content address ) #iwpriv wlan0 efuse\_set wldumpfake // Dump WiFI HW efuse to Fake WiFI efuse Map.

If config the Driver to use File Map, you can use the following cmd to read current Drv logic map.

#iwpriv wlan0 efuse get drymap // read form current driver of efuse logic map.

- a. Example CMD for write to fake efuse Map and write fake to HW efuse Map:
  Write efuse data to fake map.
  - 1. #iwpriv wlan0 efuse\_set wlwfake,00,00112233445566778899aabbccddeeff
  - 2. #iwpriv wlan0 efuse\_set wlwfake,10,00112233445566778899aabbccddeeff
  - **3.** #iwpriv wlan0 efuse set wlwfake,20,00112233445566778899aabbccddeeff
  - **4.** #iwpriv wlan0 efuse\_set wlwfake,20,00112233445566778899aabbccddeeff
  - **5.** #iwpriv wlan0 efuse\_set wlwfake,c0,00112233445566778899aabbccddeeff read fake map for verify.
  - **6.** #iwpriv wlan0 efuse\_get wlrfkmap

Fake efuse Map write to HW efuse.

#iwpriv wlan0 efuse set wlfk2mapRead HW efuse Map for verify

8. #iwpriv wland efuse get realmap



### [ 4.4 BT Efuse Function ] for COMBO IC

### [--> 4.4.1 BT Get Function <--]

```
#iwpriv wlan0 efuse_get btfmap // read form HW BT of front efuse logic map.
#iwpriv wlan0 efuse_get btbmap // read form HW BT of back efuse logic map.
#iwpriv wlan0 efuse_get btrmap,16,6 // fix offset :cmd,offset,byteCounts
```

( Specified BT start of the efuse's address and set the number of bytes for raed from the BT efuse content)

```
#iwpriv wlan0 efuse_get btffake // read form fake BT of front efuse logic map.
#iwpriv wlan0 efuse_get btbfake // read form fake BT of back efuse logic map.
```

### [--> 4.4.2 BT Set Function <--]

```
#iwpriv wlan0 efuse_set btwmap,16,00e04c871234 // cmd,offset,Data bytes[hex] (Specified a offset address for write 6 bytes data "0x00,0xe0,0x4c,0x87,0x12,0x34"
```

### to the 0x16 start of the efuse content address )

#iwpriv wlan0 efuse\_set btwfake,16,00e04c871234 // cmd,offset,Data bytes[hex]

(Specified a offset address for write 6 bytes data "0x00,0xe0,0x4c,0x87,0x12,0x34" to the 0x16 start of the Fake efuse content address)

#iwpriv wlan0 efuse\_set btdumpfake // Dump BT HW efuse to Fake BT efuse Map.

#iwpriv wlan0 efuse\_set btfk2map // Wirte BT Fake efuse to HW BT efuse Map.

[Efuse's spec].

If you want a clearer definition of reference, you can refer to the Efuse's spec

"AN\_RTL8XXX\_EEPROM\_SPEC\_Vxxxxxxx.pdf"



### ------

### [ 4.5 How to Read Efuse File

### **Prepare procedures:**

- 1. Edit the "Makefile":
  - CONFIG EFUSE CONFIG FILE=y
    - Please first to edit the Makfile before compile the Driver ,find out the "CONFIG\_EFUSE\_CONFIG\_FILE=n" and change to y , then compile the driver source.
- 2. Prepare for efuse MAP directory and file:
  - Prepare the Driver default read "A. Directory " Efuse map file and "B. Directory" Mac Address file.
  - Reference the FileEfuseExample folder.
  - A. /system/etc/wifi/wifi\_efuse.map
    - Driver read from this file for initial efuse map.
  - B. /data/wifimac.txt
    - Driver read from this file for initial wlan mac address.
      3. You can use the Efuse CMD for read current contents after the driver initial to read efuse file.
      #iwpriv wlan0 efuse\_get drvmap.

-----

### 5. Crystal Calibration: iwpriv wlan0 mp\_phypara xcap=26

MP use CMD to fine tuning the Crystal Cap value, and CMD is "iwpriv wlan0 mp phypara xcap=%d".

We can continue to adjust for get target value, then use the Efuse CMD write to HW efuse, "iwpriv wlan0 efuse\_set wmap,b9,20"

8188EU example 0xB9 offset:

The "0xB9" is Crystal Calibration Efuse offset address, you can refer the IC Efuse spec document.

B9h Crystal Calibration XTAL\_K Value Bit[5:0], Xi=Xo Range 0~3F h. Bit[7:6]: reserved

FF h = 00 h

Default 20h

#insmod wlan.ko

#ifconfig wlan0 up

#iwpriv wlan0 mp\_start

#iwpriv wlan0 mp\_setrfpath 0

#iwpriv wlan0 mp\_ant\_tx a

#iwpriv wlan0 mp\_channel 7

#iwpriv wlan0 mp\_txpower patha=42

#iwpriv wlan0 mp\_phypara xcap=32 //init a adjust Crystal

#iwpriv wlan0 mp\_ctx background,stone

#iwpriv wlan0 mp\_phypara xcap=26 //to adjust Crystal and measure

#iwpriv wlan0 mp\_phypara xcap=24 //to adjust Crystal and measure

### **Crystal Calibration Success! Find Crystal Index = 24**

iwpriv wlan0 efuse\_set wmap,b9,18

#rtwpriv wlan0 mp\_ctx stop

6. Read Thermometer: iwpriv wlan0 mp\_ther 1. read Thermometer: #iwpriv wlan0 mp ther return a value 2. write the HW thermal value to HW efuse #iwpriv wlan0 mp\_ther write 3. use read Efuse CMD for verify the value from thermal offset. #iwpriv wlan0 efuse\_get rmap,(Efuse offset),1 7. Enter To BT Test Link Mode: for combo IC (8723BS/BU) //enable wlan interface #ifconfig wlan0 up //enter mp mode #iwpriv wlan0 mp\_start //Download BT path FW #iwpriv wlan0 mp setbt dlfw #iwpriv wlan0 mp\_setbt 2ant //if the efuse is empty, and use 2 antennas on the Board.

#iwpriv wlan0 mp\_setbt testmode,01 //01 => enter to BT 2.0 TestMode, 02 => BT4.0

Direct Test mode, 03 => Connect Test Mode,00 => RF TxRx Test mode(non-link mode)

#iwpriv wlan0 mp\_setbt setgen,01 // leave BT TestMode, Reset HCI

#iwpriv wlan0 mp\_setbt down //rollback to Wifi MP test.