

# Wireless extension tools porting guide

```
export PATH=$PATH:/toolchain/bin/
```

## **(A) wpa\_supplicant\_hostapd-0.8\_rtw\_20111118.zip**

### (1) wpa\_supplicant

- (1-1) unzip wpa\_supplicant\_hostapd-0.8\_rtw\_20111118.zip
- (1-2) cd wpa\_supplicant\_hostapd-0.8\wpa\_supplicant
- (1-3) vim Makefile
  - added:
  - CC = mipsel-linux-gcc
- (1-4) make
- (1-5) copy "wpa\_supplicant" and "wpa\_cli" to target platform
- (1-6) copy "wpa\_0\_8.conf" file to target platform
- (1-7) ./wpa\_supplicant -iwlan0 -Dwext -c wpa\_0\_8.conf -dd &
- (1-8) ./wps\_cli (for wps in Interactive mode)
- (1-9) > help
  - > wps\_pbc
  - > wps\_pin any 12345678

### (2) hostapd

- (1-1) unzip wpa\_supplicant\_hostapd-0.8\_rtw\_20111118.zip
- (1-2) cd wpa\_supplicant\_hostapd-0.8\hostapd
- (1-3) vim Makefile
  - added:
  - CC = mipsel-linux-gcc
- (1-4) make
- (1-5) copy "hostapd" and "hostapd\_cli" to target platform
- (1-6) copy "rtl\_hostapd.conf" file to target platform
- (1-7) start hostapd daemon:
  - ./hostapd rtl\_hostapd.conf -B

## **(B) wpa\_supplicant-0.6.9\_wps\_patch\_20100201\_1.zip**

- (1) unzip wpa\_supplicant-0.6.9\_wps\_patch\_20100201\_1.zip
- (2) cd wpa\_supplicant-0.6.9\wpa\_supplicant
- (3) cp defconfig .config

(4)vim .config  
    line 184:  
        #CONFIG\_WPS=y (-)  
        CONFIG\_WPS=y (+)  
(5)vim Makefile  
    added:  
        CC = mipsel-linux-gcc  
(6)make

### **(C)wireless\_tools.30.rtl.tar.gz**

#### **For general linux:**

(1)tar zxvf wireless\_tools.30.rtl.tar.gz  
(2)cd wireless\_tools.30.rtl  
(3)vim Makefile  
    line 12:  
        CC = mipsel-linux-gcc  
    line 14:  
        AR = mipsel-linux-ar  
        RANLIB = ranlib  
(4)make  
(5)copy "iwconfig" and "iwlist" to target platform \usr\bin  
(6)copy "iwlib.so" to target platform \lib or \usr\lib

#### **For Android:**

(1)tar zxvf wireless\_tools.30.rtl.tar.gz  
(2)cp wireless\_tools.30.rtl <ANDROID\_SDK>/external/  
(3)cd <ANDROID\_SDK>  
(4)make iwconfig iwlist iwpriv