

# 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