

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