

Wireless extension tools porting guide

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