Product: RTL8188C/8192C USB Software Package - Linux Driver
Version: v4.0.2_9000.20130911

Release History:

v2.0.939.20100726	1. Use the bg mode when AP is in WEP and TKIP mode. (Recommended by latest WiFi 11n test plan). 2. First release.
v2.0.967.20100730	1. Add functionality of Antenna diversity.
v2.0.974.20100803	1. Fixed the Big Endian issue.
v2.0.1042.20100902	1. Resolved static link issue with RTL8712U. 2. Fixed the Ad-hoc connection bug when the Ad-hoc ssid is the same with someone AP's SSID. 3. Update related PHY parameters to improve throughput. 4. Improve Antenna diversity algorithm.
v2.0.1126.20101020	1. Added USB's selective suspend feature. 2. Added the Realtek GPL into each C and header files. 3. Added related ioctrl command for Android platform. 4. Fixed NIC status display issue. 5. Fixed power training issue at station mode.
v2.0.1170.20101112	1. Modify the CONFIG section of Android-x86 2. Fixed radius issue. 3. Update FW to V60. 4. Support the Power saving function. 5. Update usb_id_table to v38. 6. Fixed the kernel panic when receive WDS packet.
v2.0.1180.20101116	1. Fixed compiler error.
v2.0.1212.20101205	1. Fix the Android private wifi ioctl SCAN-ACTIVE, SCAN-PASSIVE 2. Alter the retry limit of "Active disconnect" to 8 3. Fix the overkilling problem of active disconnect caused by frequently site surveying 4. Fix the connect/disconnect looping problem on Android. 5. Removed the "scan interval" protection of site survey function temporarily 6. Adjust locking mechanism of TX, and fix race-condition issue.
v2.0.1212.20101208	1. Add Kconfig.
v2.0.1324.20110126	1. Synchronization strategy improved. 2. Fixed the AP Tx fragment issue when using the WPA2-RADIUS. 3. Added the IP header 8 bytes alignment. 4. Added new feature - Easy Replacement. 5. Added 20/40 MHz Coexistence test item (5.2.48 for wifi test) 6. Fixed related connection failure issue in Ad-hoc mode. 7. Updated usb_id_table to DID_USB_v47_20110118.
v2.0.1346.20110214	1. Fixed Ad-hoc connection issues.
v2.0.1406.20110309	1. Updated usb_id_table to DID_USB_V50_20110209.

| | 2. Fixed compile error in kernel 2.6.37 |
| | 3. Fixed Ad-hoc issue with DLink-DWA130. |

v3.0.1590.20110511	1. The version of usb_id_table is DID_USB_V60_20110425.
v3.0.1684.20110525	1. Add wps probe req ie & wps assoc resp ie for wps2.0
	2. Patch issue_qos_nulldata()/issue_nulldata() to set tods/fromds bit field depend on sta mode, ap mpde, adhoc mode
v3.0.1759.20110601	1. Supported the WiFi Direct functionality.
	2. Supported the WPSv2.0 functionality.
	3. Updated the hostapd and wpa_supplicant for WiFi Direct and WPS v2.0.
v3.0.2028.20110629	1. Refine WiFi Direct.
	2. Support Android wifi cmd "COUNTRY" .
	3. Add HW antenna diversity function.
	4. Modified set wep key for auth SHARED mode.
	5. Modified key index for Broadcom IOT issue.
	6. Fixed Big Endian issue in amsdu_to_msdu().
	7. Support more USB dongle (DID_USB_V71_20110628).
	8. Refine Mac0(2.4G) & Mac1(5G) for 92D.
v3.0.2052.20110701	1. Fixed the problem of cannot power down.
	2. Support Android early suspend
v3.0.2164.20110715	1. Reset MCU while polling FW ready fail
	2. Refine of RX signal statistics
	3. Support combo scan.
v3.0.2230.20110728	1. WiFi Direct function improve.
	2. Refine power saving functions.
v3.1.2291.20110804	1. Fixed WPS ie parsing issue.
	2. Add an ioctl rtw_p2p_get_device_name() that can get peer devices' names.
	3. Refine ioctls' set/get forms that related to p2p.
v3.1.2497.20110906	1. For SoftAP mode, fixed WPS connecting issue with RALINK3070.
	2. Fixed the Big Endian Autoload check fail issue.
	3. Fixed the IOT issue with Cisco 802.1x ap.
v3.1.2590.20110922	1. Fixed incorrect LED behavior.
	2. Fixed a potential resource leaks.
	3. Fixed possible race condition when using incorrect lock.
v3.1.2590.20111020	1. Sync. WiFi_Direct_User_Interface to driver
v3.3.0_2971.20111128	1. Support both CU-series and DU-series
	2. Supported Linux kernel v3.0.2
	3. Improved quality of Video over IP multicast
	4. Increase a functionality to support L2 Bridge
	5. Speed up hardware initialization process for CU-series
	6. Update android_reference_code
	7. Fixed some Endianness issues
	8. Fixed the IOT issue for Wi-Fi Direct connection, software AP and station mode
	9. Fix the roaming problem
v3.3.1_3083.20111213	1. Fix WEP SHARED connection problem.
v3.3.2_3192.20120103	1. Add android_reference_code_ICS to support Android 4.x
	2. Support scan with multiple SSID

	3. Fix problem of PMK caching 4. Fix problem of TKIP countermeasure 5. Fix RX reordering mechanism
v3.4.0_3317.20120120	1. Support NL80211 interface 2. Support Android WiFi-Direct Framework
v3.4.1_3418.20120217	1. Fix the problem of TX rate report using NL80211 2. Update android_reference_codes_ICS 3. Fix some bugs of WiFi-Direct using NL80211 4. Fix the Wifi-Direct IOT issue with Samsung GS2
v3.4.2_3727.20120404	1. Bug fix for WiFi-Direct 2. Fix deadlock problem caused by rtw_wx_set_wap() 3. Fix WEP shared connection problem for Android 4. Fix racing problem of AP mode's asoc_list 5. Fix problem to scan AP with hidden SSID for Android 6. Disable IOL for USB2.0 by default 7. Disable CONFIG_IOCTL_CFG80211 by default
v3.4.3_4369.20120622	1. Fix Wifi Logo ACM test item 2. Drop RX BC/MC packet before group key is installed 3. Support hostapd's ignore_broadcast_ssid setting (need patch of hostapd) 4. Fix the problem indicate IFF_UP event when netdev_close() is called
v3.4.4_4749.20121105	1. Fix endian and channel plan error. 2. Fix racing problem of resume_process() and netdev_open(). 3. Set wps ie for probe req for WPS 2.0 4. Fix CFG80211 scan issue. 5. Modify mem_flags for memory allocation. 6. Modify TX & RX for CONFIG_MINIMAL_MEMORY_USAGE flag. 7. Add IGI Adjustment by false alarm before linked. 8. Add TX ampdu support for WiFi Logo test.
v4.0.0_5967.20121201	1. Support concurrent mode (STA+STA, STA+AP, STA+P2P) 2. Support Andriod 4.1 3. Support WFD (Miracast)
v4.0.1_6911.20130308	1. Support Android 4.2 2. Support P2P service discovery with nl80211 3. Improve P2P connection experience 4. Correct RX statistics error 5. Improve expiration mechanism
v4.0.2_9000.20130911	1. Support Android4.2's PKTCNT_POLL command. 2. Support linux kernel to 3.9. 3. Support ETSI adaptivity test (closed by default). 4. P2P: Trigger no common channel status when channel list is limited by buddy adapter. 5. P2P: Inprove connection experience. 6. Improve STA connection process; avoid receiving multicast frames before group key is installed. 7. Modify RX signal statistics for concurrent mode 8. Fix racing problem of SoftAP mode. 9. Fix racing problem of roaming and disconnect ioctl. 10. Fix racing problem of early_suspend and ioctl.

	11. Fix NULL pointer crash issues in concurrent mode
	12. Fix USB bulk-in error handling
	13. Fix bug of registering early suspend twice
	14. Fix deadlock caused by USB resume error handling
	15. Fix WEP connection crash in 64bit OS
	16. Fix AP selection problem
	17. Fix management TX frame/buffer leak problem

Description:
Realtek provides the solution for WLAN in hardware and software. The software package could be adopted for Realtek RTL8188C/8192C USB WLAN series hardware on Linux based platforms.

Software Version:
RTL8188C/8192C USB Linux Driver Version: v4.0.2_9000.20130911

Hardware Supported:
CU-series:
- RTL8188CUS
- RTL8188RU
- RTL8188CUS-Slim Solo
- RTL8188CUS-Slim Combo
- RTL8188CE-VAU
- RTL8188CUS-VL
- RTL8188CTV
- RTL8192CUS
- RTL8192CE-VAU

Platform Supported:
- Linux (kernel 2.6.18 ~ 3.9)
- Android 1.6 ~ 2.3, 4.0 ~ 4.2

CPU supported:
- x86
- ARM
- MIPS