



## Change List for Vista/Win7 Driver 10.0.0.67

Draft 06/29/2012

**Atheros is continuing Hot Fixes. This will be a list of running changes as we continue to fix defects against Win7 10.0.0.59 base code.**

### **Software changes between build 10.0.0.19 and 10.0.0.26 (Win7 SID:1483649)**

- 1) Provide registry key to control "Dynamic Link Speed" or "Max Link Speed" indication
- 2) Fixed some IOT issue with Cisco AP during reboot test.
- 3) Fine tune some WLAN/BT coexistence parameters to fix some coex issue..
- 4) Add driver support for RSSI tool to check the antenna is well connected..
- 5) Update INF entries.

### **Software changes between build 10.0.0.26 and 10.0.0.42**

- 1) Fixed P2P link stability issue.
- 2) Fixed legacy hardware support issue
- 3) Enhance DPC latency in unsassociated idle.
- 4) Fixed WB222 AMP low throughput issue.
- 5) Fixed ACU wrong MAC address display issue..
- 6) Enhance BT/WLAN coexistence on WB222
- 7) Fix link speed inconsistency between SoftAP and STA.
- 8) Fixed WB222 sychronization issue
- 9) Update INF entries
- 10) (SW-WOW) Fix Red-x issue
- 11) (SW-WOW) Fix can't enter L1
- 12) (SW-WOW) Fix Not enough KA frames issue
- 13) (SW-WOW) Fix GTK rekey fail
- 14) (SW-WOW) First KA timing issue
- 15) (SW-WOW) Power consumption after lose link from AP issue
- 16) (SW-WOW) Acer lib API issue
- 17) (SW-WOW) Add Use registry control wake up behavior  
[DWORD32][halWowOffload]
- 18) (SW-WOW) Add Use registry to Fix Acer S3 early wakeup  
[DWORD][halWakupDelay] = 0x80000005

### **Software changes between build 10.0.0.42 and 10.0.0.45**

- 1) (SW-WOW)Add registry to witch on/off the MAC sleep/always on
  - a. Fix early-wakeup issue caused by User awake/Beacon Miss.
  - b. registry is halWowOffload mask 0x401
- 2) (SW-WOW) implement Acer's requirement to set/remove/query protocol offload by private OIDs.
- 3) (SW-WOW) Add TKIP support for GTK rekey.
  - a. Support WPA2-TKIP
- 4) (SW-WOW) add "halWowNFRTC" = 1 in INF.
  - a. Add registry control noise calibration behavior to Fix Red-X issue.



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- 5) (SW-WOW) Detect SMBIOS setting to enable WOW function.

### Software changes between build 10.0.0.45 and 10.0.0.49

- 1) Improve BT audio quality during WLAN connection
- 2) Fix DPC latency issue
- 3) Fix headset music lag via BT when using WB222
- 4) Fix ping timeout using WEP in noisy environment problem
- 5) Fix BSOD (x64\_0x7E\_athrx cwm\_get\_width+e ) issue
- 6) Fix chanin 0 RSSI low issue
- 7) Add an additional OID to add Wifi display IE into management frame
- 8) Avoid regulatory violation
- 9) Update INF entries
- 10) (SW-WOW) Fix, wlan took long to reconnect.
- 11) (SW-WOW) Fix, Red-X issue.
- 12) (SW-WOW) Improve, Increase retry count to enhance performance at noisy environment.
- 13) (SW-WOW) Add, new wakeup reason for "Acer Magic".
- 14) (SW-WOW) Add, WEP support.
- 15) (SW-WOW) Add, Library install path support.

### Software changes between build 10.0.0.49 and 10.0.0.52

- 1) Fix BSOD 0x9F at S3/S4 stress test issue.
- 2) (SW-WOW\_10\_04) Fix Dll path didn't include file name customer.dll.
- 3) (SW-WOW\_10\_04) Fix Wifi Card disappear at S3/S4 test if BT firmware didn't load.
- 4) (SW-WOW\_10\_04) Connect to wrong AP when FastConnect/SW-WOW at the same time.
- 5) (SW-WOW\_10\_05) Fix return wrong wakeup reason code.

### Software changes between build 10.0.0.52 and 10.0.0.54

- 1) (SW-WOW\_10\_06) Fix Red-X, cause by mismatch of AWKAE/SLEEP because power\_save\_init function reset counter to 0
- 2) (SW-WOW\_10\_06) Fix regression issue cause FW report wrong error code.
- 3) (SW-WOW\_10\_06) Fix Red-x, cause by fail to wake up chip.

### Software changes between build 10.0.0.54 and 10.0.0.55

- 1) (SW-WOW\_10\_07) Fix Fast-connect doesn't work issue
- 2) (SW-WOW\_10\_07) Fix SoftAP doesn't work issue.



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### Software changes between build 10.0.0.55 and 10.0.0.59

- 1) Fix connection failure using TKIP/AES in the noisy environment\
- 2) Fix incorrect WLAN channel information in coex engine during scanning
- 3) Fix BSOD (X640x9F\_3\_IMAGE\_athrx.sys )
- 4) Fix STA disassociation when multicast key rotation on aruba ap
- 5) Enhance WLAN UL coex performance when there are two or three HID
- 6) Improve WLAN coex performance when WLAN is at low RSSI with BT interference
- 7) (SW-WOW\_10\_08) Cisco AP sends DeAuth when WB222 is just enter SW-WOW mode.

### Software changes between build 10.0.0.59 and 10.0.0.67

- 1) Make Win8 and Win7 driver mutual exclusive
- 2) Sparate .sys .inf .cat base on different operation system
- 3) Improve power sonsumption high when associate idel
- 4) Fixed BSOD
- 5) Update INF for new device id