



Change List for Win8 Driver 10.0.0.255

Draft 7/08/2013

Atheros is continuing Hot Fixes. This will be a list of running changes as we continue to fix defects against Win8 10.0.0.209 base code.

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

Software changes between build 10.0.0.67 and 10.0.0.74

- 1) (WB335 only) Fix 0xD1 BSOD when BT connect to BT headset
- 2) Enable WLAN rx diversity (Win7)
- 3) Add concurrency mode support for BT coex
- 4) OCS throughput tuning
- 5) Fix some 802.11w IOP issue.
- 6) Update INF entry

Software changes between build 10.0.0.74 and 10.0.0.75

- 1) Fix BSOD 0x7E when S3 stress test
- 2) Fix BSOD at reboot when using HB92/HB95/HB125/WB195/WB225

Software changes between build 10.0.0.75 and 10.0.0.200

- 1) Version jump to 10.0.0.200 to avoid BSOD
 - ◆ Windows 8 Inbox + WB222 will BSOD on AMD/Celeron/Pentium. We install this version is greater than Inbox driver. When upgrade to windows 8 Inbox driver will be skipped.
- 2) Fix Ping lost issue
- 3) (WB335 only) WLAN+HID+A2DP:BSOD occured by athrx.sys
- 4) (WB225 only) Add support for HW-WOW
- 5) (WB335 only) Update INF for Acer
- 6) (WB335 only) Fix system hang when S3 stress test

Software changes between build 10.0.0.200 and 10.0.0.204

- 1) (SW-WOW) Fix early wakeup issue.
- 2) (SW-WOW) Fix card drop issue. IOAC enable tool include this.



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- 3) Fix Module won't enter sleep mode at associate idle if power setting select "medium power saving"
- 4) Fix BT data transfer rate is under 300KB/s when using BT3.0 when there is an AP broadcast TW beacon
- 5) Fix Red-x least around 40 seconds when windows boot into desktop.
- 6) Fix Yellow mark on AMD platform

Software changes between build 10.0.0.204 and 10.0.0.209

- 1) Fix power management issue in "Medium power saving" mode.
- 2) Fix issue of "timer expirations" when running ADK tool
- 3) Fix scan issue of hidden SSID (we support 20 hidden SSID)
- 4) (WB335) Fix BSOD 0x133
- 5) Fix BSOD 0xD1
- 6) Fix Red-X 1 min when boot to system(the same with System IO test fail)

Software changes between build 10.0.0.209 and 10.0.0.212

- 1) Replace P2P macro from ATH_P2P_CERTIFICATE to ATHp2pCertificate
- 2) (WB335) INF update.
- 3) Fix 0x133 BSOD
- 4) Change mci interrupter handler

Software changes between build 10.0.0.212 and 10.0.0.217

- 1) Fix P2P related issue
- 2) Fix the BSOD occurred by stress test
- 3) Add WPP trace in the driver
- 4) Modify the scan mechanism to improve the connectivity
- 5) Fix ping lost issue

Software changes between build 10.0.0.217 and 10.0.0.221

- 1) Fix Red-X after un-associate idle for a while.
- 2) INF update
- 3) Fix abnormal power consumption
- 4) Fix Wifi display connection will disconnect unexpectedly when do long time video playing
- 5) Fix BSOD 0x133

Software changes between build 10.0.0.221 and 10.0.0.225

- 1) Fix Ping lost issue
- 2) Fix the issue of could not connect to WLAN AP sometimes.
- 3) Fix the issue of setting operation channel failed.
- 4) Fix the issue of disconnecting by AP after 20~50 mins associated idle.
- 5) Fix the issue of Paprd is attempted to fail under noisy environment.
- 6) Fix BSOD happened when we execute TCP_UL/DL stress test.



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Software changes between build 10.0.0.225 and 10.0.0.234

- 1) Fix Ping lost issue when using Bluetooth mouse.
- 2) Modify New Acer API implementation (v1.0.9)
- 3) Modify (Miracast)Video in/out latency requirement, adjust the Time Slot, no single TS will larger than 35TU.
- 4) Fix S3/S4 stress will trigger BSOD on 802.11u. (Hotspot 2.0)
- 5) Fix P2P connection crashed in 5GHz after STA disconnected from AP.
- 6) Fix (WB335) BSOD when sending a file over AMP and pairing with a headset.

Software changes between build 10.0.0.234 and 10.0.0.245

- 1) Fix (WB335) Ping lost issue when using Bluetooth mouse.
- 2) Fix When AP number more than 255 or AP list larger 60000 bytes. Microsoft AP list will crash. We limited the list size.
- 3) Fix AP list is shorter when using Miracast.
- 4) Fix (WB335) Associate fail when using Bluetooth device..

Software changes between build 10.0.0.245 and 10.0.0.245 DUA

- 1) Fix (WB335) LiteOn's module add FilterOutCCKRateEnable= 1

Software changes between build 10.0.0.245 and 10.0.0.251

- 1) Fix System WHCK fail (MDA fail). The root cause is race condition occurs using pending event in scanner state machine
- 2) Fix Performance issue when we make the connection with WCR-GN AP
- 3) Fix BSOD when re-install 10.0.0.242 driver. It's cause by one error macro definition.

Software changes between build 10.0.0.251 and 10.0.0.255

- 1) Fix One throughput issue when listening A2DP.
- 2) Update INF