

VT6655 Software Package

Version: 1.3

1. Major changes in this software packages

1.1. Separate MPTool and WLAPI into different directories.

1.2. Support Windows XP embedded.

1.3. Remove legacy Windows OS support including Windows 95 Golden, Windows 95 OSR2, Windows 98 Golden and Windows NT 4.0.

1.4. Linux driver binary support 2.6 kernel.

2. Notice

2.1. WHQL submission number of the Windows NDISM driver (v2.07) for x86/x64 is 1113787 in this software package.

3. Detailed change note list

3.1. Drivers

Name	Ver.	Supporting OSes	Location	Note
NDIS5 for x86	2.07	Win98SE, WinME, Win2000, WinXP, Windows Server 2003	Root directory	1. Fix RF2959 RF SIFS&DIFS setting function. 2. Only Modify RSR in SCAN function. 3. Clear roam state in disconnected indication. 4. Improve the UBEC2452 RF ON/OFF power consumption. 5. Only clear SSID retry counter in SSID start cmd and roaming start function.
		Windows XP embedded SP1	\XPe\	6. Reset encryption mode in MiniportInitialize function. 7. Set init RSR to (BC MC UC).
		Windows CE 4.0/4.2	\CE4\	8. Update 802.11counter only for data packets.
		Windows CE 5.0	\CE5\	9. Set default preamble to short.
NDIS5 for AMD64	2.07	Windows XP, Windows Server 2003 for AMD64	Root directory	10. Don't turn on RXON when HW/SW radioCtl is RF_OFF. 11. Set init channel in initial function. 12. Modify UBEC2452 RF functions 13. Modify RFSetPwr function that only check the DiagCount outside the function (Caller checks it). 14. Set Deauthentication cmd when deauth flag is TRUE in TX function. 15. Set basic rate to 1,2,5.5,11Mbps when AdHoc Network is created. 16. Set BSSID of AdHoc Network to local administrator address. 17. Modify Ubec2452 RF VGA Gain Offset function to 3 stages. 18. Modify the roaming function to support continual roaming or roaming once, and scanning channels or not. 19. Fix the RX Bcn time stamp offset. 20. Always imply channel setting function and don't check the previous channel value. 21. Check the local ID for specific functions. 22. Sync the 802.11h functions with ADT test version driver. 23. Clear BCN buffer ready function when disconnection or deauthentication. 24. Fix 802.11counter updating bugs and sync the same type counters at the same functions.

				<ul style="list-style-type: none"> 25. Fix Ubec 2462 RF init functions. 26. Update different MAXIM2959 RF functions when VT3347 is used. It used BB but not RF to control Pwr. 27. Update TX counters when tx complete but not send actually. 28. Unlock spinlock before calling WCMDbFlushCommandQueue. 29. Send associate request when join Adhoc network to improve connect speed. 30. Modify the reconnect after power saving wake up that try to reconnect continually. 31. Support LED control in SROM offset 0x18. 32. Fix SetTxPowerControl(pDevice->byCurPwr is 0xFF) fail w/ MPTool. 33. Update BB register for using VC1/VC2. 34. Fix bug on power writing. 35. Fix Data Alignment issue for ARM-based WINCE. 36. Fix 4 bytes boundary issue in PNDIS_WLAN_BSSID_EX. 37. Add Fake SSID from WZC handling. 38. Fix MaxGainOffset boundary issues. 39. Add Japan W52, W53 only scanning(36, 40, 44, 48, 52, 56, 60, 64). 40. Add Uninstaller support in AMD64 driver inf file. 41. Modify WINCE4.2 CEC file. 42. Add XPe driver support. 43. Fix RF will still be off (after the dis-associate) when WZC send OID_802_11_BSSID_LIST_SCAN.
Linux	1.16	2.4.x kernel Fedora Core 2 (2.6.5-1.358 kernel), Fedora Core 3 (2.6.9-1.667 kernel), Fedora Core 4 (2.6.11-1.369 kernel)	\\LINUX\\	<ul style="list-style-type: none"> 1. Support wpa/wpa2 hostapd-0.3.7 2. Fix relay WEP packet error. 3. Support 802.11a. 4. Update AGC while link with AP. 5. Support kernel 2.6.x 6. Copyright change. 7. Allowed channels depend on Zone type(eeprom). 8. Add antenna diversity function 9. MODULE_LICENSE changed to "Proprietary" 10. Patch for 'iwconfig', set wep key after ethX open. 11. Fix WEP share mode bugs. 12. Disable antenna diversity (Default).

3.2. Application utilities

Name	Ver.	Supported OSes	Location	Note
Winsetup	3.18	Win95, Win95OSR2, Win98, Win98SE, NT3.51, NT4.0, WinME, Win2000, WinXP, Windows Server 2003, WinXP 64bit Edition, Server 2003 64bit Edition	Root Directory, \WINSETUP\	1. Fix Win95 update .sys file not copied to system problem. 2. Fix -d parameter path name can not contain "-" problem. 3. Modify -r function to remove only the driver specified in the inf file, not all VIA/VNT network drivers. 4. Fix -f parameter not working problem. 5. Fix -d parameter path name can not contain "-" problem. 6. Fix WinNT /? help message not correct problem. 7. Fix driver can't be installed problem when driver path is too long.
WifiSet	1.16	Win98SE, WinME, Win2000, WinXP, Windows Server 2003	\WifiSet\	1. Include WifiSet application v1.42, NDISM driver v2.07, Winsetup v3.18. WifiSet uninstaller 1.04, VNICKPT v1.04.

3.3. Drivers/Utilities/API for manufacturer, suggest not to release to end-users

Name	Ver.	Supported OSes	Location	Note
MPTool	2.16	Win2000, WinXP	\MPTool\	1. Fix Addr Increment Bug. 2. Modify EEPROM Access UI. 3. Add new RF support. 4. vnwlapl.dll updated to v2.17.01 5. Add Zone type 117.
WLAPI	2.17	Win2000, WinXP	\WLAPI\	1. Add RF type. 2. Modify WriteEEPROMEX() when ignoring POWER, restore the CCK, OFDMG, OFDMA's power index value. 3. Fix the dynamic linking bug by removing __declspec(dllexport) and adding WLAPI.def to export functions. 4. Update device.lib to v1.08. 5. Add RF type support. 6. VT6656 ANT/RadioCtl offset in SROM changed to 0x17/0x18. 7. Update device.lib to v1.09.

3.4. Documents for manufacturer, suggest not to release to end-users

Name	Ver.	Supported OSes	Location	Note
VT6655 EEPROM layout	1.8	N/A	\MPTool\	1. Add CCK/OFDM_TX_Target_Power. 2. Add Custom reserved field. 3. Add RF calibration reserved field. 4. Add reserved bit in RADIO_CTL.