

# VT6120/VT6122 Software Package

## (VNT version): 2.3

### 1. Major changes in this software packages

- 1.1. Change service name & binary name of X86 miniport driver. Change service name of AMD64 miniport driver.
- 1.2. Adopt new version of WinSetup utility.

### 2. Notice

- 2.1. All the drivers included in this software package are free for the vulnerability of Ethernet frame padding information leakage issue reported by @stake Inc. in Jan 2003.
- 2.2. WHQL submission number of the Windows NDISM driver (v1.39) for x86 in this software package is 947708.

### 3. Detailed change note list

#### 3.1. Drivers

Name	Ver.	Supporting OSes	Location	Note
NDIS 3/4/5 for x86	1.39	Win95, Win95OSR2, Win98, Win98SE, NT3.51, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	Root directory	<ol style="list-style-type: none"><li>1. Add one new SSID/SVID.</li><li>2. Modify initialize code to disable 64-bit DMA when Read_Multiple is enabled.</li><li>3. No matter Tagging is enabled or not, always pad short packets to 60 bytes long.</li><li>4. Change Uninstaller registry structure and update to uninstaller 1.04.</li><li>5. Change service name of VIA AMD64 version.</li><li>6. Change NDIS5 service name and file name of VIA x86 version.</li><li>7. Clear PCI PME status to patch BIOS fault.</li><li>8. WinCE 4.X/5.0 use IO-map-IO rather MEM-map-IO to avoid Hived Based registry issue.</li><li>9. Expand PCI bus scan from 0~5 to 0~255 to meet spec.</li><li>10. Modify INF's disk source name to prevent install path conflict with Rhine.</li></ol>
NDIS5 for AMD64	1.39	Windows XP, Windows Server 2003 for AMD64	\AMD64\	
NDIS5 for XP embedded	1.39	Windows XP embedded SP1	\XPe\	
NDIS5 for Windows CE 4.0/4.2	1.39	Windows CE 4.0/4.2	\CE4\	
NDIS5 for Windows CE 5.0	1.39	Windows CE 5.0	\CE5\	

NDIS3F	1.34	Windows For Workgroup 3.11	\\FWF311\\	1. No version change in this software package.
NDIS2	1.07	LAN Server DOS Workstations, LANTASTIC, PCNFS, MS DOS 6.22 (MS client 3.0)	\\LANSVR40.DOS\\, \\LANTASTI\\, \\MSLANMAN.DOS\\, \\PCNFS\\	1. Rewrite MII accessing interface. 2. Fixed the share IRQ bug. 3. Disable half-duplex mode flow control.
Packet	1.10	MS DOS 6.22 (NCSA Telnet client, PCTCP)	\\PKTDRVR\\	1. Rewrite MII accessing interface. 2. Added Time-Out for waiting transmit-completed. 3. When free-TD is unavailable, driver will return NO_SPACE. 4. Fixed the bug on Shared IRQ. 5. Disable Half-Duplex mode flow control.
Server ODI (ASM version)	2.01	Netware Server 3.11, 3.12, 4.11, 4.12	\\NETWARE\\SRVRODL311\\, \\NETWARE\\SRVRODL312\\, \\NETWARE\\SRVRODL4\\	1. No version change in this software package.
Server ODI (C version)	2.05	Client 32 for DOS, Netware Server 5.0, 5.1, 6.0, 6.5	\\NETWARE\\CLIENT32\\, \\NETWARE\\SRVRODL56\\	1. Fix patch issue. (Strings length need to follow the format) 2. Add VT3216A1 Memory Read Multiple patch code.
DOS ODI	1.10	MS DOS 6.22 (Netware client for DOS)	\\NETWARE\\DOSODI\\	1. No version change in this software package.
MAC OS	1.03	MAC OS X 10.1.x ~ 10.2.x	\\MACOSX\\	1. No version change in this software package.
Linux	1.19	Linux x86 Kernel 2.2.x ~ 2.6.9 Linux AMD64 Kernel 2.4.x ~ 2.6.9	\\LINUX\\	1. Fix batch RD appending bug. 2. Add more skb_dma check code in velocity_free_td_ring function. 3. Remove unnecessary IntCtl bit set in velocity_rx_srv function. 4. Correct Rx buffer alignment coding in velocity_alloc_rx_buf function. 5. Little/big endian CPU code merge. 6. Fix the bug that ConnectionType set by ethtool will go back to Auto after system wake-up. 7. Enable adaptive interrupt function to improve throughput performance. 8. Set DMA length default value to S&F to improve performance. 9. Fix 2.2.x install failure bug. 10. Fix the bug that Rx fail when traffic loading is heavy.
FreeBSD	1.14	FreeBSD 3.2, 4.0, 4.11, 4.2, 4.5 ~ 4.7, 5.0 ~ 5.3	\\FREEBSD\\	1. Add LKM(Loadable Kernel Module) driver installation method. 2. Support checksum-offload & VLAN function. 3. Porting to FreeBSD 5.3(Only add <sys/module.h> declaration). 4. Modify if_getb.c Rx service routine condition for heavy traffic Rx disabled bug(sync-ed from linux).
Unixware	1.12	SCO Unixware 7.1	\\UNIXWARE\\	1. No version change in this software package.
SCO5	1.11	SCO Open Server 5.0.4, 5.0.6	\\SCO5\\	1. No version change in this software package.
Solaris	1.10	Solaris 8, 9	\\SOLARIS\\	1. Modify HW patch code revision ID range.

				<ol style="list-style-type: none"> <li>2. Clear CFGA bit 0 after EEPROM re-load.</li> <li>3. Fix RD appending code bug for smartbit hang problem.</li> </ol>
DIAG	1.32	MS DOS 6.22	Root directory	<ol style="list-style-type: none"> <li>1. Modify diag32 tool -ieee test for System team's request.</li> <li>2. Modify to support PCI scan to max. 256 buses.</li> </ol>
Winsetup	3.12	Win95, Win95OSR2, Win98, Win98SE, NT3.51, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	Root Directory, \\WINSETUP\\	<ol style="list-style-type: none"> <li>1. Change string table.</li> <li>2. Do not delete temp file in all case.</li> <li>3. Set filter while copy source file into local disk.</li> <li>4. Tolerate winsetup to contain component dll or driver pack.</li> <li>5. Fill in windows source path in registry into pre ask dialog in 95/98/nt4.</li> <li>6. Extend wait time for driver installed in nt4 to 5sec instead of 3.</li> <li>7. Remove sel delete code.</li> <li>8. Set default series name in progress to NULL.</li> <li>9. Add quotation marks to parameter of Creatprocess.</li> <li>10. Keep ntsim2.sys in original folder, and delete it after whole process.</li> <li>11. Add Adapter En/Disable Function in nt5.</li> <li>12. Add WaitForSignalObject for child process to terminate.</li> <li>13. Add multi instance check for winsetup.</li> <li>14. Change company id fetch method within ntsetup.inf to dynamic load.</li> <li>15. Don't wait for child process(if any) to return.</li> <li>16. Remove Uninstallation information from registry(if any).</li> <li>17. Do not Check inf file while uninstalling except nt4.</li> <li>18. Fix bug in parameter for windows source.</li> <li>19. Update vetup.dll to 1.01.</li> <li>20. Adding VETUP64.DLL to support amd64.</li> <li>21. Including ntsim2a.sys to support amd64.</li> <li>22. Support Software-First driver installation in Windows Me/2000/XP/Server 2003.</li> <li>23. Using CreateProcess instead of WinExec in nt4.</li> <li>24. Delete ntsim2a.sys.</li> <li>25. Change local folder to "\\vnDrvBase\\vn_&lt;NAMEOFINF&gt;".</li> <li>26. Add ntsim2a.sys to copy-file list.</li> <li>27. Set text on progress bar to be unique.</li> <li>28. Set filter for software first parameter.</li> <li>29. Add help for software first parameter.</li> <li>30. Fixed bug unable to delete uninstall information from registry.</li> <li>31. Change finish dialog for ME while using Software First.</li> <li>32. Add directive support to Manufacturer / InstallSection / HWID enum.</li> <li>33. Add InstallSection check in 9X/NT5 environment.</li> <li>34. Set SourcePath in ME after doing Software-First Install.</li> <li>35. Make sure name of inf before clear local folder.</li> <li>36. Change local folder to "\\vnDrvBas\\&lt;NAMEOFINF&gt;".</li> <li>37. Add vetup64.dll to copy-file list.</li> <li>38. Fix bug of pre-install in ME.</li> <li>39. Fix bug of Update fail in NT4.</li> </ol>

### 3.2. Application utilities

Name	Ver.	Supported OSes	Location	Note
GigaCheck	2.13	Win95, Win95OSR2, Win98, Win98SE, NT4.0, WinME, Win2000, WinXP,	\\GigaCheck\\	<ol style="list-style-type: none"> <li>1. Copy/install driver into/from specific location.</li> <li>2. Use CoUninstAP 1.03.</li> <li>3. Use winsetup 3.12.</li> <li>4. Use miniport driver 1.39.</li> <li>5. Use GigaCheck AP 2.7.</li> </ol>

		Windows Server 2003		
DMI-GE	1.16	Win95, Win95OSR2, Win98, Win98SE, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	\\DMI-GE\\	<ol style="list-style-type: none"> <li>1. Copy/install driver into/from specific location.</li> <li>2. Use CoUninstAP 1.03.</li> <li>3. Use winsetup 3.12.</li> <li>4. Use miniport driver 1.39.</li> </ol>
VSNMP-GE	1.17	Win98, Win98SE, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	\\VSNMP-GE\\	<ol style="list-style-type: none"> <li>1. Copy/install driver into/from specific location.</li> <li>2. Use CoUninstAP 1.03.</li> <li>3. Use winsetup 3.12.</li> <li>4. Use miniport driver 1.39.</li> </ol>

### 3.3. Drivers/Utilities for Boot ROM users

Name	Ver.	Supported OSes	Location	Note
Flash	1.08	MS DOS 6.22	\\FLASH\\	<ol style="list-style-type: none"> <li>1. Modify to support PCI scan to max. 256 buses.</li> </ol>
RPL-DOS	1.17		\\RPL\\	<ol style="list-style-type: none"> <li>1. No version change in this software package.</li> </ol>
PXE	1.17		\\PXE\\	<ol style="list-style-type: none"> <li>1. Fixed the share IRQ bug. Error command is used on reading ISR status.</li> <li>2. Added UNDI API function number 0x16 (emBoot for Rhine).</li> <li>3. Fixed the bug in NICGetInfo() to meet PXE spec (emBoot for Rhine).</li> <li>4. Stored MAC Address after EEPROM-reload (emBoot for Rhine).</li> </ol>
PXERPL	1.15		\\PXERPL\\	<ol style="list-style-type: none"> <li>1. PXE 1.17 and RPL 1.17.</li> </ol>

### 3.4. Drivers/Utilities for manufacturer, not to release to users

Name	Ver.	Supported OSes	Location	Note
Ether-debug tool for Windows CE	1.01	Microsoft Windows CE 4.2 & 5.0	\\ETHERTOOL\\	<ol style="list-style-type: none"> <li>1. No version change in this software package.</li> </ol>
EEPROM	1.12	MS DOS 6.22	\\EEPROM\\	<ol style="list-style-type: none"> <li>1. Modify to add MACID/SSID/SVID checking command-line functions -vm/-vs/-vv.</li> <li>2. Modify to support PCI scan to max. 256 buses.</li> </ol>

### 3.5. MISC

Name	Ver.	Support OSes	Location	Note
UNATTEND	1.02	Windows 9x, NT	\\UNATTEND\\	<ol style="list-style-type: none"> <li>1. No version change in this software package.</li> </ol>

		4.0, 2000, XP		
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### 3.6. Application documents

Document	Ver.	Location	Note
GigaCheck User Guide	1.60	\GigaCheck\	1. No version change in this software package.
DMI-GE User Guide	1.40	\DMI-GE\	1. No version change in this software package.
VSNMP-GE User Guide	1.50	\VSNMP-GE\	1. No version change in this software package