

HP Compaq Business Notebook nc4010 software overview



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Abstract

The purpose of this white paper is to present both an overview of the preinstalled software with operating system support and a brief description of major software components and features. This white paper covers the new HP Compaq Business Notebook nc4010 models, along with a software comparison to HP Compaq Business Notebook nc4000, nc6000 and nc8000 models.

This document is intended for HP personnel and customers who need information about the software provided on the nc4010 preinstall images.

Highlights

Benefits of the new HP Compaq Business Notebook nc4010 preinstall image include:

- Support for:
 - HP Compaq Business Notebook nc4010
 - HP Compaq Business Notebook nc4000
- Certifications:
 - PC 2001, Microsoft© WHQL certified
- New HP Compaq Business Notebook nc4010 Hardware Features:
 - Optional Integrated Smart Card Reader (replaces PC card slot)
 - HP ProtectTools Embedded Security – Support for TCG compliant TPM security module
 - Optional integrated 802.11b (Intel©), 802.11b/g and 802.11a/b/g wireless LAN modules
 - Optional integrated Bluetooth
 - Removed silver stripe around outer base and display

Operating systems

Operating systems available for the nc4010 series include:

- Microsoft Windows© 2000 Professional with Service Pack 4
- Microsoft Windows XP Professional with Service Pack 1a

Microsoft Windows 2000

Microsoft Windows 2000 Professional with Service Pack 4 is the preinstalled operating system for select HP Compaq nc4010 models through the first quarter of 2004. HP also supports customers who install Windows 2000 on their own.

Table 1 Windows 2000 Software Component Version Comparison

Software component	HP Compaq nc4000	HP Compaq nc4010	HP Compaq nc6000	HP Compaq nc8000
ADI WDM Audio Driver	1.00 B	1.00 B	1.00 C	1.00 C
Adobe Acrobat Reader	5.10 B	5.10 B	5.10 B	5.10 B
Agere Soft Modem Driver	1.00 A	1.00 E	1.00 A	1.00 A
Agere Mini-PCI Modem Driver (N620c)	N/A	1.00 D	1.00 D	1.00 D
Altiris Express Client	5.10 A (preloaded)	5.60 B (preloaded)	5.60 B (preloaded)	5.60 B (preloaded)
ATI AGP Bus Driver	1.00 E	1.00 E	1.00 E	1.00 E
ATI Control Panel	1.00 C	1.00 E	N/A	N/A
ATI RS200M Video Driver	1.00 C	1.00 D	N/A	N/A
ATI R9600 Video Driver and Control Panel	N/A	N/A	1.00 A	N/A
ATI M9 Video Driver and Control Panel	N/A	N/A	1.00 A	N/A
ATI M10 Video Driver and Control Panel	N/A	N/A	N/A	1.00 A
Broadcom Ethernet Driver	2.00 A	2.00 A	3.00 A	3.00 A
HP Application Installer	2.00 B	3.00 A	3.00 A	3.00 A
Compaq Bluetooth MultiPort Software	2.02 C (preloaded)	2.02 D (preloaded)	1.00 C (preloaded)	1.00 C (preloaded)
System Default Settings	3.00 A	4.00 B	4.00 B	4.00 B
Intervideo WinDVD	5.00 A	5.00 A	5.00 B	5.00 B
Compaq Quick Launch Buttons Software	4.00 A	4.20 A	4.10 D	4.10 D
Compaq Wireless LAN MultiPort Software	1.01 A	1.01 A	1.01 A	1.01 A

Table 1 Windows 2000 Software Component Version Comparison (continued)

Software component	HP Compaq nc4000	HP Compaq nc4010	HP Compaq nc6000	HP Compaq nc8000
Diagnostics for Windows	4.05 A (preloaded)	4.08 A (preloaded)	4.11 A (preloaded)	4.11 A (preloaded)
HP Bluetooth Software	1.00 A (preloaded)	1.00 C (preloaded)	1.00 A (preloaded)	1.00 A (preloaded)
HP Mobile Printing for Notebooks	2.00 A	2.10 B	2.10 B	2.10 B
HP WLAN W400/W500 Driver	1.00 A	2.00 A	2.00 A	2.00 A
Infineon TPM Driver	N/A	1.00 A	1.00 A	1.00 A
Insight Management Agents (Win32)	5.00 H (preloaded)	5.00 K (preloaded)	5.00 K (preloaded)	5.00 K (preloaded)
Intel Chipset Driver	4.20 A	N/A	5.00 A	5.00 A
Intel SpeedStep Application	3.00 B (preloaded)	3.00 B (preloaded)	3.00 B (preloaded)	3.00 B (preloaded)
Intel PRO/Wireless 2100 3B Mini PCI Adapter	N/A	2.00 A	2.00 A	2.00 A
Microsoft DirectX	9.00 A	9.00 A	9.00 A	9.00 A
O2 Micro Memory CardBus Accelerator	1.00 A	1.00 B	1.00 B	1.00 B
O2 Micro Memory CardBus Reader	N/A	2.00 B	2.00 B	2.00 B
Roxio Easy CD Creator	5.34 C (CD)	5.34 C (CD)	6.11 A (CD)	6.11 A (CD)
Sun Java	1.4.2	1.4.2	1.4.2	1.4.2
Synaptics Touchpad	7.00 A	7.00 C	7.5 D	7.5 D
System Enhancements	6.00 D	6.00 E	6.00 E	6.00 E

Microsoft Windows XP Professional

Microsoft Windows XP Professional with Service Pack 1a is preinstalled on select nc4010 models. HP also supports customers who install Windows XP on their own.

Table 2 Windows XP Pro Software Component Version Comparison

Software component	HP Compaq nc4000	HP Compaq nc4010	HP Compaq nc6000	HP Compaq nc8000
ADI WDM Audio Driver	1.00 B	1.00 B	1.00 C	1.00 C
Adobe Acrobat Reader	5.10 A	5.10 B	5.10 B	5.10 B
Agere Soft Modem Driver	1.00 A	1.00 E	1.00 A	1.00 A
Agere Mini-PCI Modem Driver (N620c)	N/A	1.00 D	1.00 D	1.00 D
Altiris Express Client	5.10 A (preloaded)	5.60 B (preloaded)	5.60 B (preloaded)	5.60 B (preloaded)
ATI AGP Bus Driver	1.00 E	1.00 E	1.00 E	1.00 E
ATI Control Panel	1.00 C	1.00 E	N/A	N/A
ATI M7 Video Driver	N/A	N/A	1.00 A	N/A
ATI RS200M Video Driver	1.00 C	1.00 D	N/A	N/A
ATI R9600 Video Driver and Control Panel	N/A	N/A	1.00 A (Preloaded)	N/A
ATI M9 Video Driver and Control Panel	N/A	N/A	1.00 A	N/A
ATI M10 Video Driver and Control Panel	N/A	N/A	N/A	1.00 A
Broadcom Ethernet Driver	2.00 A	2.00 A	3.00 A	3.00 A
Compaq Application Installer	2.00 B	3.00 A	3.00 A	3.00 A
Compaq Bluetooth MultiPort Software	2.02 C (preloaded)	2.02 D (preloaded)	2.02 D (preloaded)	2.02 D (preloaded)
Default Settings	3.00 A	4.00 B	4.00 B	4.00 B
Intervideo WinDVD	5.00 A	5.00 A	5.00 B	5.00 B

Table 2 Windows XP Pro Software Component Version Comparison (continued)

Software component	HP Compaq nc4000	HP Compaq nc4010	HP Compaq nc6000	HP Compaq nc8000
Compaq Quick Launch Buttons Software	4.00 A	4.20 A	4.10 D	4.10 D
Compaq Wireless LAN MultiPort Software	1.01 A	1.01 A	1.01 A	1.01 A
Compaq Help & Support	1.0 D	3.03 A	3.02 B	3.02 B
Diagnostics for Windows	4.05 A (preloaded)	4.08 A (preloaded)	4.11 A (preloaded)	4.11 A (preloaded)
HP Bluetooth Software	1.00 A (preloaded)	1.00 C (preloaded)	1.00 C (preloaded)	1.00 C (preloaded)
HP Mobile Printing for Notebooks	2.00 A	2.10 B	2.10 B	2.10 B
HP WLAN W400/W500 Driver	1.00 A	2.00 A	2.00 A	2.00 A
Infineon TPM Driver	N/A	1.00 A	1.00 A	1.00 A
Insight Management Agents	5.00 H (preloaded)	5.00 K (preloaded)	5.00 K (preloaded)	5.00 K (preloaded)
Intel Chipset Installation Utility	N/A	N/A	5.00 A	5.00 A
Intel PRO/Wireless 2100 3B Mini PCI Adapter	N/A	2.00 B	2.00 A	2.00 A
Microsoft DirectX	9.00 A	9.00 A	9.00 A	9.00 A
O2 Micro Memory CardBus Accelerator	1.00 A	1.00 B	1.00 B	1.00 B
O2 Micro Memory CardBus Reader	N/A	2.00 B	2.00 B	2.00 B
Roxio Easy CD Creator	5.34 C (CD)	5.34 C (CD)	6.11 A (CD)	6.11 A (CD)
Sun Java	1.4.2	1.4.2	1.4.2	1.4.2
Synaptics Touchpad	7.00 A	7.00 C	7.5 D	7.5 D
System Enhancements	3.00 F	3.00 J	3.00 H	3.00 H

ROM BIOS update

The ROM BIOS version that will initially ship on the nc4010 is version F.25. The updated nc4010 factory image and ROM BIOS is being used on the nc4000. Changes include:

- Resolves issue involving USB devices not resuming the computer from Standby mode when Bluetooth was enabled.
- Resolves issue involving the Wireless button opening the language menu in F10 Setup.
- Resolves issue involving hibernation under Windows NT© on nc4000 models.

Software delivery

Delivery methods for software updates available for HP commercial computers include:

- HP Support Software CD
- HP Worldwide Web Site and Download Facility
- HP Restore CD Kit

HP Support Software CD

The Support Software CD (SSCD) includes updated drivers and utilities for HP commercial notebook, desktop, and workstation computers. Key drivers and utilities for HP computers are included on the SSCD. The user interface is in English, French, Italian, German, Spanish, and Japanese. The SSCD is updated regularly and is available either through an annual subscription or as a one-time purchase. Subscriptions can be purchased through customer support or from an authorized dealer.

HP Worldwide Website and download facility

Individual drivers and utilities can be downloaded, in the form of SoftPaqs, from the HP Download Facility or from the website at <http://h18000.www1.hp.com/support/files/> or <ftp://ftp.compaq.com/pub/softpaq/>. SoftPaqs provide a distribution method for driver and ROM updates and product software enhancements. Multiple files and bootable diskettes can be distributed conveniently and electronically through diskettes or the Web.

HP Restore CDs

Restore CDs are shipped with HP Compaq nc4010 models. The CDs provide an easy-to-use complete restore solution for preinstalled operating systems. This restore solution allows users to selectively install and repair the OS, drivers, and applications; or to perform a full preinstalled software restoration. The OS CD contains the preinstalled operating system. The Driver Recover CD provides drivers, utilities, and applications that are preinstalled on the computer.

Table 3 provides descriptions for software listed in this white paper.

Table 3 SoftPaq descriptions

SoftPaq	Description
3Com Etherlink 10/100 PCI NIC	Supports PCI NIC that is used in select docking station models
ADI Audio Drivers	Enables the integrated audio hardware used in select configurations
Agere Modem Driver	Enables integrated modems used in select configurations
Altiris Express Client	Enables software deployment, configuration, and migration
ATI Video Drivers	Enables the integrated video hardware used in select configurations
BioLogon Security System Drivers	Provides drivers for fingerprint Identification hardware used in select configurations
Broadcom Netxtreme Ethernet Drivers	Enables integrated gigabit NIC device used in select configurations
Application Installer	Provides a convenient method for installing preloaded software
Diagnostics	Provides tools to test hardware components
Easy Access Buttons Software	Enables the use of integrated Easy Access buttons
Hot Key Support	Allows users to quickly access BIOS and operating system features
Insight Management Agents	Provides asset management, security features, and alerting capabilities
ESS Audio Driver	Enables the integrated audio hardware used in select configurations
Mini PCI Communications Support and Drivers	Enables internal modem and modem/NIC combination devices used in select configurations and supports Intel PCI NIC that is used in select docking station models
Power Management	Allows users to customize power requirements of the computer to maximize battery life and set up hibernation functionality
Remote Management	Enables system administrators to update client ROM and setup over the network
Security Management	Allows users to access Compaq security options
Synaptics TouchPad Driver	Provides added functionality for the TouchPad pointing device
System Enhancements	Provides users with an easy-to-install compilation of operating system enhancements and fixes
System ROMPaq	Updates ROM BIOS (Read Only Memory/Basic Input Output System), which sets basic configuration allowing the system to boot

Software enhancements

This section discusses the following software enhancements:

- HP Client Manager Software
- Video
- Audio
- Security
- Advanced Configuration and Power Interface
- Quick Launch Button Software
- Reference guides

The check boxes following each enhancement description indicate which operating systems support these enhancements and if the enhancements are provided on the SSCD, Restore CDs, and HP Web site.

HP Client Manager Software

Windows XP, 2000 Support Software CD Driver Recovery CD Website

With HP Client Management Solutions, formerly called Intelligent Manageability, HP responds to customer needs for easy-to-manage computers in stand-alone and networked environments. HP, in partnership with Altiris, a recognized leader in delivering cost-reducing lifecycle management technologies, offers a cohesive set of solutions that span the entire IT lifecycle. The combination of HP Client Manager Software and Altiris solutions enables customers to significantly lower total ownership costs on HP systems. HP and Altiris solutions focus on business needs in the following critical lifecycle areas:

- HP platform management – Proactively respond to hardware changes, alerts, and manage mass updates to system software.
- Deployment & Migration – Manage the end-to-end software deployment and migration process.
- Inventory & Asset management – Keep track of hardware and software within the business environment.
- Help desk & Problem resolution – Resolve customer issues and streamline the help desk.
- Connectors – Integrate with enterprise technology and systems management solutions.

With both stand-alone solutions and integrated suites, customers can manage hardware and software from a single Web-based console to address the complete IT lifecycle. For more information, see the brochure, *HP and Altiris Client Management Solutions (5981-4665EN)*, or visit the HP website at www.hp.com/go/easydeploy.

Video

Windows XP, 2000 Support Software CD Driver Recovery CD Website

HP Compaq nc4010 PCs feature the ATI video chipsets. Software drivers enable all functionality of the chipset. Driver support is complemented by a display utility that provides easy access to video settings through the Windows Control Panel.

Audio

Windows XP, 2000 Support Software CD Driver Recovery CD Website

Audio drivers on the nc4010 enable the ADI CODEC controller to run multimedia applications using Microsoft DirectSound audio capability.

Security

Windows XP, 2000 Support Software CD Driver Recovery CD Website

DriveLock

DriveLock is a security feature that offers advanced protection against unauthorized access to valuable data on computer hard drives. Two passwords control access to the hard drives, which provide customers with a means to unlock a protected drive if the day-to-day user password has been lost. Hard drives protected with DriveLock remain protected even if removed from the notebook. Features and settings are accessed through the F10 Setup Utility.

For more information about DriveLock, refer to the white paper, *Drivelock Hard Drive Protection on HP Notebooks, 5981-9417EN*, July 2003.

Power-On password

Windows XP, 2000 Support Software CD Driver Recovery CD Website

The power-on password helps prevent an unauthorized user from powering on the system. After a power-on password is established, the user is required to type the password during the power-on process.

Administrator password

Windows XP, 2000 Support Software CD Driver Recovery CD Website

The administrator password, also known as the setup password, helps prevent unauthorized changes to the system configuration. If the administrator password is not known, F10 Setup Utility is inaccessible.

Advanced Configuration and Power Interface (ACPI)

Windows XP, 2000 Support Software CD Driver Recovery CD Website

Advanced Configuration and Power Interface (ACPI) represents a significant innovation in power and configuration management, allowing operating systems and applications to manage power based on activity and usage. HP Compaq nc4010 models use ACPI to provide power conservation features under Windows XP and Windows 2000.

Quick Launch button support

Windows XP, 2000 Support Software CD Driver Recovery CD Website

HP Compaq nc business notebooks include three Quick Launch buttons designed to provide one-touch access to commonly used features including:

- QuickLock—Engages OS password protection.
- Wireless On/Off—Enables or disables wireless connectivity (802.11 and Bluetooth).
- Presentation Ready—Enables customers to quickly and easily launch presentations and automatically adjust display and power settings.

Reference guides

Windows XP, 2000

On the Documentation CD, there are three reference guides available for the nc4010 notebook PCs:

- Safety and Comfort Guide—Provides instructions for using components such as the keyboard and mouse.
- Modem Command Reference Guide—Includes information about the AT command set and S registers used for the integrated modem.
- Notebook Reference Guide—Includes information such as identifying connectors, inserting and removing hardware and major hardware subsystems, performing upgrades, and troubleshooting.

Frequently asked questions

How can DVD movies be viewed on business notebook nc models?

Intervideo WinDVD is preloaded on new nc4010 notebook family products. A software-based DVD decoder/player features an easy-to-use interface and allows customers to view DVD video releases. The DVD player is installed from the Setup Software shortcut off of the Windows Start Menu. This application is designed for use with Windows XP and Windows 2000.

Is the nc8000 preinstall image also compatible with other nc models?

Yes, the nc8000 preinstalled software image has been tested with nc4000, nc4010 and nc6000 notebook models.

If a new model is introduced, will previously released models in the family that are still being manufactured be updated with the new preinstall image?

No, many customers have expressed a need for consistency. Therefore, HP will make reasonable efforts to maintain a consistent software image on corporate notebook models during the life of these models.

Has HP made changes to preinstall images recently?

Our license to ship Microsoft Java expired in the first quarter of 2004 requiring a change to shipping models. This has been the only change to shipping software images on corporate notebook platforms in the past 18 months. The preinstall image and ROM BIOS on the nc4000 have been updated to the same versions that are being introduced on the nc4010.

Are images developed on the nc4000 compatible with the nc4010?

Images developed on the nc4000 will work on the nc4010 with some limitations. New features that have been included in the nc4010 require additional software. Updates to Bluetooth software are recommended, if this applies to the image.

How do I obtain updated software components?

The latest software updates are available from the HP website at <http://www.hp.com>. For customers without Web access, the HP Software Support CD Kit is available.

Will the current image change significantly if new models are introduced?

Changes made to the preinstall images will be limited to modifications that support new hardware features or will significantly improve overall performance.

How will I know what has changed?

Updated HP notebook family software white papers describe updates or differences in software versions that are introduced with new products. HP Product Change Notification (PCN) is another method of communication to inform customers of changes to shipping models. For more information, go to <http://www.compaq.com/pcn>.

What is the difference between preloaded and preinstalled software?

Preinstalled software refers to drivers, hardware enabling utilities, and applications that are ready to use as soon as your system has completed setup after initial power-on ("unbundling"). Preloaded software refers to applications and utilities that provide additional non-critical features on applicable models, such as management, DVD playback or CD-RW burning and must be installed prior to use.

Why is some software preloaded?

Select software is preloaded to provide flexibility for our customers. Some customers may choose different applications and utilities than those provided by HP.

How do I install preloaded software?

HP has made installation of preloaded software easy by including an application installer utility. Simply launch the Setup Software utility, select the desired applications, and follow the easy-to-use menus.

For more information

To learn more about preinstalled software with OS support, contact your local HP sales representative or visit our website at <http://www.hp.com>.

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