HP Compaq Business Notebook nc6400 software overview

DRAFT

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 nc6400 models, along with a software comparison to HP Compaq Business Notebook nc2400, nc4400, nc6300 and nc8400 models.

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

Highlights

Benefits of the new HP Compaq Business Notebook nc6400 preinstall image include:
- Lean image (standard on all nc models)
    - Hardware enabling drivers, Windows XP updates and utilities are preinstalled
    - Applications and optional utilities can be installed through Software Setup
- Support for:
    - HP Compaq Business Notebook nc8430, nc6400, nc6320, nc4400 and nc2400 models

Operating systems

Operating systems available for the nc6400 series include:

- Microsoft Windows XP Professional with Service Pack 2
- Microsoft Windows XP Home with Service Pack 2

Microsoft Windows 2000

Microsoft Windows 2000 Professional with Service Pack 4 is supported on HP Compaq nc2400, nc4400, nc6300, nc6400 and nc8400 models.

For more information, please refer to the Installing Windows 2000 on the HP Compaq XXXX Business Notebooks white papers.

Microsoft Windows XP

Microsoft Windows XP Professional and Home with Service Pack 2 is preinstalled on select nc6400 models. Microsoft .NET Framework 1.1, Windows Media Player 10 and Windows Media Connect are preinstalled.

Table 1 Windows XP Pro software component version comparison

Software component	HP Compaq nc2400	HP Compaq nc4400	HP Compaq nc6320	HP Compaq nc6400	HP Compaq nc8430
ADI Soundmax HD Audio Driver	1.00 D	1.00 E	1.00 D	1.00 F	1.00 E
Adobe Acrobat Reader	7.05 B (Preloaded)	7.05 B (Preloaded)	7.05 B (Preloaded)	7.05 B (Preloaded)	7.05 B (Preloaded)
Authentec Fingerprint Driver	1.00 A	1.00 C	1.00 B	1.00 C	1.00 C
ATI 8430 Video Driver and Control Panel	N/A	N/A	N/A	1.00 B	1.00 B
ATI M52T Video Driver	N/A	N/A	N/A	1.00 B	N/A
Broadcom 440x/57xx Ethernet Driver	N/A	1.00 A	1.00 A	1.00 A	1.00 A
Broadcom NetXtreme Gigabit Ethernet PCI Express Driver	2.00 A	2.00 A	N/A	N/A	N/A
Essential System Updates	2.00 K	2.00 H	2.00 G	2.00 H	2.00 H
EV-DO WWAN Software	N/A	N/A	1.00 B	1.00 B	N/A
Google Toolbar	3.0.131 A	3.0.131 A	3.0.124 A	3.0.131 A	3.0.131 A
HDA Modem Installer	1.00 A	1.00 A	1.00 A	1.00 A	1.00 A
High Speed SD Driver	N/A	N/A	1.0.0.0 A	1.0.0.0 A	1.0.0.0 A
HP Software Setup	4.00 B	4.00 B	4.00 B	4.00 B	4.00 B
HP Notebook Accessories Product Tour	1.0.0 A (Preloaded)	1.2.0 A (Preloaded)	3.0.0 A (Preloaded)	1.2.0 A (Preloaded)	1.2.0 A (Preloaded)
HP Mobile Data Protection	1.00 A	1.00 A	N/A	1.00 A	1.00 A
HP Software Update	3.07 D (Preloaded)	3.07 D (Preloaded)	3.07 D (Preloaded)	3.07 D (Preloaded)	3.07 D (Preloaded)
System Default Settings	4.20 Q	4.20 Q	4.20 O	4.20 Q	4.20 Q
Intervideo WinDVD	6.10 C (Preloaded)	6.10 C (Preloaded)	6.10 C (Preloaded)	6.10 C (Preloaded)	6.10 C (Preloaded)
Quick Launch Buttons Software	6.00 H	6.00 E	6.00 D	6.00 D	6.00 D
HP Help & Support	4.20 I (Preloaded)	4.20 I (Preloaded)	4.20 I (Preloaded)	4.20 I (Preloaded)	4.20 I (Preloaded)
HP Integrated Bluetooth driver	4.00 H	4.00 H	4.00 G	4.00 H	4.00 G

Table 1 Windows XP Pro software component version comparison (continued)

Software component	HP Compaq nc2400	HP Compaq nc4400	HP Compaq nc6320	HP Compaq nc6400	HP Compaq nc8430
HP Backup and Recovery Manager	1.1.2 B	1.1.5 B	1.1.0 B	1.1.3 B	1.1.2 B
HP Mobile Print Driver for Windows	3.13 (Preloaded)	3.12 (Preloaded)	3.13 (Preloaded)	3.13 (Preloaded)	3.13 (Preloaded)
HP ProtectTools Security Manager	2.00 C (Preloaded)	2.00 C (Preloaded)	2.00 B (Preloaded)	2.00 C (Preloaded)	2.00 C (Preloaded)
HP BIOS Configuration for ProtectTools	2.00 D (Preloaded)	2.00 D (Preloaded)	2.00 C (Preloaded)	2.00 E (Preloaded)	2.00 C (Preloaded)
HP Embedded Security for ProtectTools	4.00 C (Preloaded)	4.00 C (Preloaded)	4.00 C (Preloaded)	4.00 C (Preloaded)	4.00 C (Preloaded)
HP Credential Manager for ProtectTools	1.00 L (Preloaded)	1.00 N (Preloaded)	1.00 M (Preloaded)	1.00 P (Preloaded)	1.00 N (Preloaded)
HP OpenView Radia Management Agent	2.10 A (Preloaded)	2.10 A (Preloaded)	2.10 A (Preloaded)	2.10 A (Preloaded)	2.10 A (Preloaded)
HP Smart Card Security for ProtectTools	5.00 D	5.00 D	5.00 D	5.00 D	5.00 D
HP Wireless Assistant	2.00 E	2.00 E	2.00 E	2.00 E	2.00 E
Intel Chipset Installation Utility for ICH7	7.2.2 A	7.2.2 A	7.2.2 A	7.2.2 A	7.2.2 A
Intel 945 Video Driver	1.00 B	1.00 C	1.00 A	1.00 C	1.00 A
Intel SATA AHCI Driver	N/A	5.5.0.1 A	5.5.0.1 A	5.5.0.1 A	5.5.0.1 A
Intel Set Default	1.00 A	1.00 A	1.00 A	1.00 A	N/A
Intel Set Resolution	1.00 A	1.00 A	1.00 A	1.00 A	N/A
Lightscribe Host Software	1.4.67 H	1.4.67 K	1.4.67 H	1.4.67 J	1.4.67 J
Microsoft UAA Bus Driver for HD Audio	1.00 A	1.00 A	1.00 A	1.00 A	1.00 A
Sonic Digital Media Plus	7.00 A	7.00 A	7.00 A	7.00 A	7.00 A
Sun Java	1.5.0	1.5.0	1.5.0	1.5.0	1.5.0
Synaptics Touchpad	8.2.23 N	8.2.16.4 M	8.2.16.4 M	8.2.16.4 M	8.2.4 L
Symantec Norton Internet Security	9.034 (Preload)	9.034 (Preload)	9.034 (Preload)	9.034 (Preload)	9.034 (Preload)
TI Cardbus Driver	2.0.0.2 A	2.0.0.4 A	2.0.0.2 A	2.0.0.2 A	2.0.0.2 A
WLAN Driver Installer	5.00 A	5.00 A	5.00 A	5.00 A	5.00 A
WLAN Driver Utility	5.00 A	5.00 A	5.00 A	5.00 A	5.00 A

Software delivery

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

- HP Worldwide Web Site and Download Facility
- HP Software Setup
- HP Backup and Recovery Manager

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.

Software Setup

Software Setup provides easy access to all preinstalled and preloaded applications. Through Software Setup, installation of multiple software components is quick and easy. Simply launch by going to Start>All Programs>Software Setup, select the drivers and utilities to be installed and click Next. Within minutes, the selected software is installed. A Driver Recovery DVD with the Software Setup interface can be created using Sonic Digital Media Plus.

Hard Drive Based Image Recovery

HP Backup and Recovery Manager saves your computer's software image to a protected partition on the internal hard drive. The recovery image can be moved to DVD, CD, external hard drive or network drive. You have the flexibility to save both the original factory software image that came with your HP computer and your software image that includes customizations and data. These Recovery Discs enable full recovery of your computer should a critical hardware failure occur.

- Create image recovery discs
- Backup entire hard drive or individual files and folders
- Backup to primary hard drive, secondary hard drive, network drive, CD or DVD

For customers creating custom images, HP recommends that drivers, utilities and application installation files are copied to DVD prior to formatting the hard drive. This can be accomplished by copying the c:\swsetup folder and contents to a DVD using Sonic Digital Media Plus. Software used in the factory preinstall image, including HP Backup and Recovery Manager, can be installed from this DVD. Run x:\swsetup\appInstl\setup.exe to launch the Software Setup utility.

NOTE: Recovery Discs are not included with the nc2400, nc4400, nc6300, nc6400 and nc8400 models.

Table 2 provides descriptions for software listed in this white paper.

Table 2 SoftPaq descriptions

SoftPaq	Description
Modem Driver	Enables integrated modems used in select configurations
HP OpenView Radia Management Agent	Management agent enabling complete lifecycle management from an administrator's console
Video Drivers	Enables the integrated video hardware used in select configurations
Ethernet Drivers	Enables integrated NIC device used in select configurations
Software Setup	Provides a convenient method for installing preloaded software
HP Wireless Assistant	Provides configuration information about wireless devices such as Wireless LAN and Bluetooth.
Quick Launch Button Software	Enables the use of integrated one touch productivity buttons
Audio Driver	Enables the integrated audio hardware used in select configurations
Synaptics TouchPad Driver	Provides added functionality for the TouchPad pointing device
System Enhancements and Essential System Updates	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
HP ProtectTools Security Manager	A framework for modular plug-ins designed to manage security features offered by HP.
HP Backup and Recovery Manager	A comprehensive backup and recovery utility.

Software enhancements

This section discusses the following software enhancements:

- HP Client Management Solutions
- Video
- Audio
- Security
- Quick Launch Button Support
- HP Wireless Assistant
- HP Backup and Recovery Manager

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

HP Client Management Solutions

☑ Windows XP   ☑ Driver Recovery Disc   ☑ Website

HP Client Management Solutions respond to customer needs for easy-to-manage computers in stand-alone and networked environments. HP, working with strategic partner Altiris, offers a cohesive set of solutions that span the entire IT lifecycle. HP solutions focus on business needs in the following critical lifecycle areas:

- HP platform management – Proactively responds to hardware changes, alerts, and manages 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, visit the HP website at www.hp.com/go/easydeploy/.

Standards supported:

- SMBIOS Version 2.4, PXE 2.1, WHQL 9.0, RPL 2.73.

Video

☑ Windows XP   ☑ Software Setup   ☑ Website

Video drivers enable functionality of the chipset. Driver support is complemented by an optional display utility that provides easy access to video settings through the Windows Control Panel.

Audio

☑ Windows XP   ☑ Software Setup   ☑ Website

Audio drivers on the nc6400 enable the ADI CODEC controller to run multimedia applications using Microsoft DirectSound audio capability.

Security

☑ Windows XP   ☑ Software Setup   ☑ Website

HP ProtectTools Security Manager

HP ProtectTools Security Manager provides the framework into which additional modules can be installed. ProtectTools Security Manager is preinstalled on select models along with the BIOS Configuration Module for ProtectTools, which provides a graphical interface from within the operating system to configure and manage ROM BIOS settings. On the nc6400 series, Credential Manager for HP ProtectTools is preinstalled. This module provides users with single sign on capability for websites, applications, and network resources. For more information on HP ProtectTools solutions, please refer to the white paper, HP ProtectTools Security Manager, 5982-9847EN, November 2004.

DriveLock

DriveLock is a security feature that offers advanced protection against unauthorized access to valuable data on internal notebook 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

The power-on password prevents 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. The password can be set independently from DriveLock

F10 administrator password

The F10 administrator password, also known as the setup password, prevents unauthorized changes to the system configuration. If the administrator password is not known, F10 Setup Utility is inaccessible. If this password is enabled, users are restricted from modifying DriveLock.

Quick Launch button support

☑ Windows XP   ☑ Software Setup   ☑ 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.

HP Wireless Assistant

☑ Windows XP   ☑ Software Setup   ☑ Website

HP Wireless Assistant is a utility designed to make using integrated wireless devices easier to use. Key features include:

- Show which integrated wireless devices are present

- Display status of integrated wireless devices

- Control integrated wireless devices

- Status balloons from Windows system tray

HP Backup and Recovery Manager

☑ Windows XP   ☑ Software Setup   ☐ Website

HP provides data and system file protection software preloaded on the nc6400 notebook with HP Backup and Recovery Manager. With Backup and Recovery Manager, users can quickly recover and get back to work when information is accidentally deleted or your operating system is corrupted.

Features include:

- Create factory software recovery CDs or DVDs

    o An initial backup to the primary hard drive is required in order to create factory recovery CDs or DVDs

- Backup and recover your system

- Backup and recover individual files and folders

- Create or manage restore points

- Schedule recovery snapshots

- Backup to and recover from secondary drives NEW!

    o 2nd hard drive, CD-R, DVD-R, network drive, etc.

Frequently asked questions

How can DVD movies be viewed on business notebook nc models?
Intervideo WinDVD is preloaded on new nc6400 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.

Is the nc6400 preinstall image also compatible with other nc models?
Yes, it is backward compatible with nc2400, nc4400, nc6300 and nc8400 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?
Many customers have expressed a need for consistency. Therefore, HP will make every reasonable effort to maintain a consistent software image on nc notebook models during the life of these models.

How do I obtain updated software components?
The latest software updates are available from the HP website at http://www.hp.com.

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 and reliability.

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.hp.com/go/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. Software Setup provides a convenient way to install multiple software components simultaneously.

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 which is available through Start>All Programs, 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.