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Evo Notebook N410c/N610c Software Overview

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 Evo Notebook N410c and N610c models along with a software comparison to Evo Notebook N400c, N600c, N800c, and N1000c models.

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

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Highlights

Benefits of the new *Evo*TM Notebook N410c/N610c preinstall image include:

- Support for
 - Evo Notebook N410c Mobile Intel Pentium III 1.0 and 1.2 GHz-M models
 - Evo Notebook N610c Mobile Intel Pentium 4 1.6, 1.7, 1.8, 1.9 and 2.0 GHz-M models

Operating Systems

Operating systems available for the Evo N410c and N610c series include:

- Microsoft Windows 2000 Professional with Service Pack 2
- Microsoft Windows XP Professional

Microsoft Windows 2000

Microsoft Windows 2000 Professional with Service Pack Two is one of the preinstalled operating systems for N410c and N610c models. Compaq also supports customers who install Windows 2000 on their own.

Table 1. Windows 2000 Software Component Version Comparison

Software Component	Evo N400c (850 MHz)/ N600c	Evo N800c	Evo N1000c	Evo N410c/N610c
3Com Etherlink 3C905C 10/100 PCI NIC	5.11 A	5.11 A	5.11 A	5.11 A
ADI WDM Audio Driver	N/A	1.00 A	1.00 B	1.00 B
Adobe Acrobat Reader	4.05 A (CD)	4.05 A (CD)	5.00 C	4.05 A (CD)
Allegro Audio Driver	5.12 D	7.00 A	7.00 A	7.00 A
Altiris Express Client	4.10 C (Preloaded)	5.10 A (CD)	5.10 A (CD)	5.10 A (CD)
Evo Quick Reference	N400c or N600c Guide (CD)	N800c Guide (CD)	N1000c Guide (CD)	N410c or N610c Guide (CD)
ATI Video Driver	3.00 A (for N400c)	3.00 A (for N400c)	3.00 A (for N400c)	3.00 A (for N400c)
ATI M6 Video Driver	1.00 A (for N600c)	1.00 A (for N600c)	1.00 A (for N600c)	1.00 C (for N410c/N600c)
ATI M7 Video Driver	N/A	1.00 A	1.00 B	1.00 C
Biologon Security System Drivers	2.01 C	N/A	N/A	N/A
Compaq Application Installer	1.10 B	2.00 A	2.00 A	2.00 B

Table 1. Windows 2000 Software Component Version Comparison *(continued)*

Software Component	Evo N400c (850 MHz)/ N600c Preinstall	Evo N800c	Evo N1000c	Evo N410c/N610c
Compaq Default Settings	N/A	1.00 B	1.00 C	1.00 C
Compaq DVD Solution	3.00 A (Preloaded)	4.00 A (Preloaded)	4.00 B	4.00 B
Compaq Easy Access Buttons Software	2.10 C	3.00 A	3.00 B	3.00 B
Diagnostics for Windows	3.07 A (preloaded)	3.14 A (preloaded)	3.15 A (preloaded)	4.00 A (preloaded)
Hot Key Support Software	1.10 B	N/A	N/A	1.10 D
Insight Management Agents (Win32)	4.36 H (preloaded)	5.00 D (CD)	5.00 D (CD)	5.00 E (CD)
Intel 845M Chipset Driver	N/A	3.40 A	3.40 A	3.40 A
Intel (Almador) 830M Chipset Driver	3.10 A	3.10 A	3.10 A	3.10 A
Intel SpeedStep Application	2.10 A (preloaded)	2.20 A (Preloaded)	2.30 A (Preloaded)	2.30 A (Preloaded)
Microsoft DirectX	8.00 A	8.10	8.10	8.10
Mobile Intel Pro 100 NIC Drivers	3.00 B	3.01 A	3.02 A	3.02 A
Mobile Modem Drivers	1.00 B	1.00 B	1.00 B	1.00 B
Mobile Modem Drivers (Conexant)	N/A	1.00 A	1.00 A	1.00 A
Online Modem Guide	1.00 A (CD)	1.00 A (CD)	1.00 A (CD)	1.00 A (CD)
Power Management	4.10 B	N/A	N/A	N/A
Remote Management	1.01 A (CD)	1.01 A (CD)	1.01 A (CD)	1.01 B (CD)
Roxio Easy CD Creator	N/A	5.10 E (CD)	5.10 E (CD)	5.10 E (CD)
Safety and Comfort Guide	5.01 A (CD)	5.01 A (CD)	5.01 A (CD)	5.01 A (CD)
Security Management (Win32)	2.40 A (preloaded)	N/A	N/A	N/A
Synaptics Touchpad	N/A	6.x C	6.x C	N/A
System Enhancements	4.00 A	5.00 D	5.00 D	5.00 H

Microsoft Windows XP Professional

Microsoft Windows XP Professional is preinstalled on select Evo N400c, N410c, N600c, N610c, N800c, and N1000c models. Compaq also supports customers who install Windows XP on their own.

Table 2. Windows XP Pro Software Component Version Comparison

Software Component	Evo N400c (850 MHz)/ N600c Preinstall	Evo N800c	Evo N1000c	Evo N410c/N610c
ADI WDM Audio Driver	N/A	1.00 A	1.00 B	1.00 B
Adobe Acrobat Reader	4.05 A (CD)	4.05 A (CD)	5.00 C	4.05 A (CD)
Allegro Audio Driver	7.00 A	7.00 A	7.00 A	7.00 A
Altiris Express Client	5.10 A (CD)	5.10 A (CD)	5.10 A (CD)	5.10 A (CD)
Quick Reference	N400c or N600c Guide (CD)	N800c Guide (CD)	N1000c Guide (CD)	N410c or N610c Guide (CD)
ATI Mobility Video Driver	1.00 B (for N400c)	1.00 B (for N400c)	1.00 B (for N400c)	1.00 B (for N400c)
ATI M6 Video Driver	1.00 A (for N600c)	1.00 A (for N600c)	1.00 A (for N600c)	1.00 C (for N410c/N600c)
ATI M7 Video Driver	N/A	1.00 A	1.00 B	1.00 C
Compaq Application Installer	1.20 A	2.00 A	2.00 A	2.00 B
Compaq Default Settings	N/A	1.00 B	1.00 C	1.00 C
Compaq DVD Solution	3.00 C (Preloaded)	4.00 A (Preloaded)	4.00 B	4.00 B
Compaq Easy Access Buttons	2.20 B	3.00 A	3.00 B	3.00 B
Compaq Info Center	1.10 A	1.10 A	1.10 A	1.10 A
Compaq PC Health & Support Links	2.15 A	2.21 E	2.21 E	2.21 E
Diagnostics for Windows	3.10 A (preloaded)	3.14 A (preloaded)	3.15 A (preloaded)	4.00 A (preloaded)
Hot Key Support Software	1.10 D	N/A	N/A	1.10 D
Insight Management Agents	5.00 B (CD)	5.00 D (CD)	5.00 D (CD)	5.00 E (CD)
Intel 845 Chipset Driver	N/A	3.40 A	3.40 A	3.40 A
Microsoft Java VM	1.00 A	1.00 A	1.00 A	1.00 A
Mobile Intel Pro 100 NIC Drivers	3.01 A	3.01 A	3.02 A	3.02 A
Mobile Modem Drivers	N/A	1.00 B	1.00 B	1.00 B
Mobile Modem Drivers (Conexant)	N/A	1.00 A	1.00 A	1.00 A
Online Modem Guide	1.00 A (CD)	1.00 A (CD)	1.00 A (CD)	1.00 A (CD)
Power Management	4.10 B (CD)	N/A	N/A	N/A
Remote Management	1.01 A (CD)	1.01 A (CD)	1.01 A (CD)	1.01 B (CD)
Roxio Easy CD Creator	N/A	5.10 E	5.10 E	5.10 E
Safety and Comfort Guide	5.01 A (CD)	5.01 A (CD)	5.01 A (CD)	5.01 A (CD)
Security Management	2.40 A (preloaded)	N/A	N/A	N/A
Synaptics Touchpad	N/A	6.x B	6.x C	N/A

System Enhancements	1.00 A	2.00 C	2.00 C	2.00 E
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Microsoft Windows 95

Microsoft Windows 95 is not supported on the Evo N1000c, N800c, N610c, N600c or N410c families. Limited support is available for the Evo N400c. For additional information regarding the Evo N400c, please refer to the *Evo N400c Software Overview* white paper (August 2001).

Microsoft Windows 98 and Microsoft Windows NT Workstation 4.0 Support

Limited support will be made available for the Evo Notebook N410c and N610c models in August of 2002. Select hardware drivers will be posted on the software download website. Additional information will be available in the second edition of this white paper.

This support will provide basic functionality. Drivers will be supplied for audio, video, network, and modem devices. A partial list of functionality not supported includes power management, hot docking/swapping, DVD movie playback and CD-RW support.

Known Anomalies

Table 3. Known Software Anomalies

Symptom	When using the common image on models with the ESS Allegro audio controller, MIDI files will not play correctly.
Resolution	When using the same image across the N400c, N410c, N600c, N610c, N800c, and N1000c models, the ADI SoundMax software should be removed from Control Panel > Add/Remove Programs for all operating systems.
Symptom	When a preinstall image is moved from the N410c to the N610c, the video driver will have to be manually configured. This problem may result in the operating system enabling the basic VGA driver.
Resolution	In environments where images are shared across N410c and N610c, it is recommended that the preinstall image from the N610c is used. If the image from the N410c needs to be used, the ATI M7 video driver for the N610c should be manually configured prior to deployment.
Symptom	When a preinstall image is moved from the N410c to the N610c, the audio driver will have to be manually configured. This problem may result in a loss of audio functionality.
Resolution	In environments where images are shared across N410c and N610c, it is recommended that the preinstall image from the N610c is used. If the image from the N410c needs to be used, the ADI audio driver for the N610c should be manually configured prior to deployment.

Software Delivery

Software delivery methods available for Evo Notebook computers include:

- Compaq QuickRestore CD Kit
- Compaq Support Software CD
- Compaq Worldwide Web Site and Download Facility

Compaq QuickRestore CD Kit

The Compaq QuickRestore CD (QRCD) Kit is shipped with each Evo N410c and N610c computer. The QRCD System Recovery provides an easy-to-use complete restore solution for preinstalled Operating Systems. The preinstalled operating system and all Compaq software enhancements are provided in the kit. This complete restore solution allows customers to perform a complete destructive format and restore the system to the factory settings. The QRCD Application Recovery provides a majority of drivers, utilities, and applications that are preinstalled on the computer. Users select one component at a time to reinstall.

Compaq Support Software CD

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

Compaq Worldwide Web Site and Download Facility

Individual drivers and utilities can be downloaded, in the form of SoftPaqs, from the Compaq Download Facility or from the Compaq Web site at <http://www.compaq.com> or <ftp://ftp.compaq.com>. 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.

Table 5 provides descriptions for software listed in this white paper.

Table 5. SoftPaq Descriptions

SoftPaq	Description
3Com Etherlink 10/100 PCI NIC	Supports PCI NIC that is used in select Armada docking station models
Altiris Express Client	Enables software deployment, configuration, and migration
BioLogon Security System Drivers	Provides drivers for Fingerprint Identification hardware
CardWare	Enables hot-plug capability and CardBus support under Windows NT 4.0
Compaq 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
Easy Point IV	Provides added functionality for the pointing stick device
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
Mini PCI Communications Support and Drivers	Enables internal modem and modem/NIC combination devices and supports Intel PCI NIC that is used in select Armada docking station models
MultiBay Plug and Play Manager	Provides support for MultiBay devices in the computer and docking base
Power Management	Allows users to customize power requirements of the computer to maximize battery life and set up hibernation functionality
Power Management Enhancements	Increases battery life by managing SMART drive data collection
ATI Video Drivers	Enables the integrated video hardware
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:

- Setup and Diagnostics
- Intelligent Manageability
- Video
- Audio
- Easy Access buttons support
- 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, QRCD, and Compaq Web site.

Setup and Diagnostics

Computer Setup

- | | | | |
|--|---|---|---|
| <input checked="" type="checkbox"/> Windows XP &
Windows 2000 | <input checked="" type="checkbox"/> Compaq Support
Software CD | <input checked="" type="checkbox"/> Compaq
QuickRestore CD | <input checked="" type="checkbox"/> Compaq Web Site |
|--|---|---|---|

Computer Setup is an operating system-independent utility that allows customers to modify the configuration of their notebooks and to enable Compaq specific features of the notebooks. Through Computer Setup, users can also change the system settings and quickly and easily set up Compaq notebook computers.

Compaq Diagnostics for Windows

- | | | | |
|--|---|---|---|
| <input checked="" type="checkbox"/> Windows XP &
Windows 2000 | <input checked="" type="checkbox"/> Compaq Support
Software CD | <input checked="" type="checkbox"/> Compaq
QuickRestore CD | <input checked="" type="checkbox"/> Compaq Web Site |
|--|---|---|---|

Compaq Diagnostics for Windows allows users to test hardware components and includes a feature called Configuration Record. With Configuration Record, users can create a detailed snapshot of the system hardware and software configuration. Multiple snapshots can be recorded for use in troubleshooting technical issues. Diagnostics for Windows is the only application that can locally retrieve detailed information specific to Compaq notebook and desktop computers. Diagnostics for Windows is an indispensable troubleshooting tool for users, system administrators, and technical support providers.

Intelligent Manageability

Windows XP &
Windows 2000

Compaq Support
Software CD

Compaq
QuickRestore CD

Compaq Web Site

With Intelligent Manageability, Compaq responds to the need that customers have for easy-to-manage computers in stand-alone and networked environments. Compaq addresses this need by focusing on five primary customer concerns:

- **Asset Management**—Provides the user with detailed configuration information about the computer and allows the system administrator to inventory and track computers and components from one central location.
- **Fault Management**—Provides the user and system administrator with prefailure and other alerts. Prefailure alerts generate advance warnings to minimize downtime and data loss from hardware failures.
- **Security Management**—Prevents unauthorized access to critical data and valuable computer components.
- **Integration Management**—Uses industry-standard technologies while partnering with computer management software vendors.
- **Configuration Management**—Provides the latest drivers, utilities, and support software to optimize computer performance; available on CD-ROM and the Compaq Web site at <http://www.compaq.com>.

Intelligent Manageability also addresses the following concepts:

- **Hardware and software**—Enables customers to manage computers intelligently. This management tool is designed for computers in both mobile and connected environments.
- **Innovation and standardization**—Establishes a non-proprietary approach to solving manageability issues through the Compaq Management Solutions Partners Program, ensuring tight integration and compatibility with leading computer management software vendors.
- **Total Cost of Ownership**—Protects the investment by increasing its value over the life of the product and reduces the total cost of owning one or more computers.
- **Product Parity**—Includes virtually the same Intelligent Manageability functionality across all platforms on all commercial portable and desktop computers.

For additional information about Intelligent Manageability, refer to the *Intelligent Manageability for Portables* white paper.

Video

- Windows XP & Windows 2000
- Compaq Support Software CD
- Compaq QuickRestore CD
- Compaq Web Site

Evo N400c computers feature the ATI Mobility-M video chipset. Evo N600c computers feature the ATI Mobility Radeon (M6) chipset. Evo N800c and N1000c computers feature the ATI Mobility Radeon 7500 (M7) chipset. 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 & Windows 2000
- Compaq Support Software CD
- Compaq QuickRestore CD
- Compaq Web Site

Audio drivers on the Evo N410c and N610c enable the ADI 1886 CODEC controller to run multimedia applications using Microsoft DirectSound audio capability.

Security

- Windows XP & Windows 2000
- Compaq Support Software CD
- Compaq QuickRestore CD
- Compaq Web Site

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 for which 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 Compaq F10 Setup Utility.

For more information about DriveLock, refer to the Compaq white paper, *DriveLock Hard Drive Protection for the Armada*, 2nd ed., February 1998.

Power-On Password

- Windows XP & Windows 2000
- Compaq Support Software CD
- Compaq QuickRestore CD
- Compaq Web Site

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 power-on password allows the user to enable QuickLock, a hot-key combination used to lock the keyboard. While QuickLock is enabled, any keys pressed are ignored until the power-on password is entered. If QuickLock is enabled, the user can elect to have the keyboard locked when the computer enters suspend mode, or the user can have the screen blanked when QuickLock is activated. Setting the screen to blank when QuickLock is activated is called QuickBlank.

Administrator Password

- Windows XP & Windows 2000
- Compaq Support Software CD
- Compaq QuickRestore CD
- Compaq Web Site

The 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.

Advanced Configuration and Power Interface (ACPI)

- Windows XP & Windows 2000
- Compaq Support Software CD
- Compaq QuickRestore CD
- Compaq Web Site

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. Evo N400c/N410c/N600c/N610c/800c/N1000c models use ACPI to provide power conservation features under Windows XP and Windows 2000.

Easy Access Buttons Support

- Windows XP & Windows 2000
- Compaq Support Software CD
- Compaq QuickRestore CD
- Compaq Web Site

Easy Access buttons can be assigned to open an Internet destination site, open an application on the computer, or bring up a document. This utility supports the Easy Access buttons on Evo Notebook computers.

Reference Guides

- Windows XP & Windows 2000

Evo N400c/N410c/N600c/N610c/800c/N1000c computers have three reference guides available, including the *Safety and Comfort Guide*, the *Modem Command Reference Guide*, and the *Evo Reference Guide* on the Documentation CD.

The *Safety and Comfort Guide* provides the user with instructions about how to properly use items such as the keyboard and mouse to reduce the potential of repetitive motion injuries like carpal tunnel syndrome.

The *Modem Command Reference Guide* includes information about the AT command set and S registers used for the integrated modem.

The *Evo Reference Guide* includes information about the computer, such as identifying connectors; inserting and removing hardware and major hardware subsystems; performing upgrades; and troubleshooting.

Frequently Asked Questions

Are drivers for MultiPort options included with the preinstall image?

Compaq MultiPort Bluetooth drivers are included with the Evo Notebook N410c/N610c. Software for other MultiPort devices is provided with the option kit and must be installed prior to use. MultiPort devices are only supported under Windows 98, Windows 2000 and Windows XP.

How can DVD movies be viewed on Evo Notebook models?

The Compaq DVD Solution is preloaded on new Evo family products. A software-based DVD decoder/player features an easy-to-use interface and allows users to view DVD video releases. The DVD player is installed when a DVD movie is inserted into the DVD-ROM drive for the first time. This application is designed for use with Windows XP and Windows 2000.

Is the preinstalled software image on the Evo N410c/N610c preinstall image also compatible with Evo N400c, N600c, N800c, and N1000c models?

Yes, the updated preinstalled software image has been tested with Evo N400c, N600c, N800c, and N1000c models.

If a new model is introduced, will all 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, Compaq will make every effort to maintain a consistent software image on Evo Notebook models during the life of these models. Compaq will supply white papers to provide the necessary information to customers who want to maintain a single list of software components for Evo N1000c/N800c/N610c/N600c/N410c/N400c models.

How do I obtain updated software components?

The latest software updates are available from the Compaq Web site at <http://www.compaq.com>. For customers without Web access, the Compaq Software Support CD Kit is available. In North America, call 1-800-952-7689 for more information.

Why aren't Compaq Security Management and Power Management provided for the Evo N410c/N610c/N800c/N1000c?

Compaq Security Management and Compaq Power Management provided significant enhancements for legacy operating systems such as Windows NT Workstation and Windows 98. As Microsoft has introduced new operating systems, many of the features included with this software has been incorporated. The utilities were supported on prior generation models to provide a consistent interface to these features for multiple operating systems. With the discontinuation of Windows 98 and Windows NT, the remaining operating systems (Windows 2000 and Windows XP) provide the consistency and feature support that most users require.

Will this image change significantly if new models are introduced?

As much stability as possible is provided in new models. Changes made to the preinstall images will be limited to modifications that will support new hardware features or will significantly improve overall performance.

How will I know what has changed?

Updated Evo Family Software white papers describe any updates or differences in software versions that are introduced with new products.

Can I use these same software components on previous Armada families?

Although some software will be backward compatible with previous generation Armada families, some software is not because of architectural changes made to the current line of products.

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 Compaq.

How do I install preloaded software?

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

How can you call this a common image when manual reconfiguration is required?

Manual reconfiguration is only necessary if the image is unbundled on an Evo N410c. When an image from an Evo N610c is used as a starting point, manual reconfiguration of drivers is not required. This image has been tested and can be used on N1000c, N800c, N610c, N600c, N410c, N400c models.