

July 2001  
153Z-0601B-WWEN  
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## Evo N400c Software Overview— Second Edition

*Abstract:* Compaq is proud to introduce the Compaq Evo N400c series of personal computers.

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

## Notice

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## Highlights

Benefits of the new *Evo*<sup>TM</sup> N400c preinstall image include:

- New audio and video drivers for the ESS Allegro audio and ATI graphics chipset
- Updated MultiBay drivers to support enhanced swapping capabilities with Windows 98
- New management agents
- Updated Network Interface Card (NIC) drivers
- Updated DVD movie playback software
- Support for 700 MHz Intel Mobile Pentium III processor-based models

## Operating Systems

Operating systems available for the Evo N400c series include:

- Microsoft Windows 98 Second Edition (SE)
- Microsoft Windows NT Workstation 4.0 with Service Pack 6
- Microsoft Windows 2000 Professional with Service Pack 1

Operating systems with limited support for the Evo N400c series:

- Microsoft Windows 95 OSR 2.1

## Windows 98

The version of Windows 98 preinstalled on Evo N400c models is SE.

Table 1 provides a comparison of Windows 98 software component versions.

**Table 1. Windows 98 Software Component Version Comparison**

Software Component	Armada Family Preinstall	Armada Family Preinstall-C	Evo N400c Preinstall
3Com Etherlink 3C905C 10/100 PCI NIC	5.11 A	5.11 A	5.11 A
Adobe Acrobat Reader	4.05 A	4.05 A (CD)	4.05 A (CD)
Allegro Audio Driver	N/A	N/A	5.12 C
Altiris Express Client	4.1 A	4.1 A	4.1 A
<i>Armada</i> <sup>TM</sup> Quick Reference	1.00 A (CD)	2.00 A (CD)	N400c Guide 2.00 A (CD)
ATI Video Driver (Windows 95 and Windows 98)	6.11 A	7.00 A	7.00 B
Biologon Security System Drivers	N/A	2.00 A	2.00 A
Compaq Application Installer	N/A	1.00 A	1.10 A
Compaq Armada Dock Driver	N/A	1.50 A	1.50 A

*continued*

**Table 1. Windows 98 Software Component Version Comparison** *(continued)*

<b>Software Component</b>	<b>Armada Family Preinstall</b>	<b>Armada Family Preinstall-C</b>	<b>Evo N400c Preinstall</b>
Compaq Check Dock Type Utility	1.00 A	N/A	N/A
Compaq DVD Solution	1.00 B	1.00 E	2.00 A (preloaded)
Compaq Easy Access Buttons Software 32	1.00 B	2.05 A	2.05 A
Compaq Internet Favorites	1.10 A	1.20 A	N/A
Compaq Knowledge Center	N/A	N/A	1.98 A (preloaded)
Desktop/Portable Web Agents (Win32)	4.20 J	4.20 J (preloaded)	N/A (now part of Insight Manager Agents 4.36)
Diagnostics for Windows 95 and Windows 98	2.25 C (N/A on E500 SXGA Models)	3.01 G (preloaded)	3.03 B (preloaded)
Easy Point IV	2.00 A	N/A	N/A
Fax Central	4.45 A	N/A	N/A
Hot Key Support Software	1.00 H	1.10 A	1.10 A
Insight Management Agents (Win32)	4.20 G	4.20 G (preloaded)	4.36 G (preloaded)
Intel SpeedStep Application	1.00 B	N/A	1.30 A (preloaded)
M2E Audio Driver (Windows 95 and Windows 98)	4.04 H	4.04 L	N/A
Microsoft DirectX	7.00 A	7.00 A	7.00 A
Mini PCI Communications Support Software*	3.00 A	N/A	N/A
Mobile Modem Drivers	N/A	1.00 A	1.00 A
Mobile Intel Pro 100 NIC Drivers	N/A	2.00 A	2.00 A
MultiBay Plug and Play Manager (Windows 98)	2.00 B	3.10 A	3.20 A
Online Modem Commands Guide	1.00 A	1.00 A (CD)	1.00 A (CD)
Power Management (Windows 95 and Windows 98)	3.30 H	4.00 F	4.00 G
Power Management Enhancements	1.00 A	N/A	N/A
Remote Management (Windows 95)	1.00 B	1.00 C	1.00 C
Safety and Comfort Guide	5.01 A	5.01 A (CD)	5.01 A (CD)

*continued*

**Table 1. Windows 98 Software Component Version Comparison** *(continued)*

Software Component	Armada Family Preinstall	Armada Family Preinstall-C	Evo N400c Preinstall
Security Management (Win32)	2.20 D	2.30 B (preloaded)	2.30 C (preloaded)
System Enhancement Disk (Windows 98)	3.00 A	4.00 B	4.00 C
Touchpad Driver Synaptics (Windows 95 and Windows 98)	5.45 B	N/A	N/A

\*Armada Family Preinstall-C and Evo N400c Preinstall models include separate modem and NIC drivers.

## Microsoft Windows NT Workstation 4.0

Microsoft Windows NT Workstation 4.0 with Service Pack 6 (SP6) is offered for N400c on the QuickRestore CD.

### Hardware Functionality and Software Enhancements

**IMPORTANT:** Microsoft Windows NT 4.0 was originally designed for desktop computing environments. Some portable computer features are not supported by Windows NT 4.0 and do not function in the same manner as with Windows 98. With Windows NT 4.0, newer technologies such as MultiPort, USB, and Infrared are not supported. Proper shutdown of Windows NT 4.0 prior to docking, undocking, or switching MultiBay devices is required.

Windows NT 4.0 features and Compaq software utilities include:

- Compaq Power Management support
  - Suspend, Hibernation, and Power utilities
- Compaq enhanced audio, video, and network support
- DVD movie playback software
- Optional PC Card support through preloaded CardWare NT
  - Traditional 16-bit PC Card and 32-bit CardBus support
  - Power Management for PC cards
- Compaq Diagnostics for Windows NT
- Compaq Intelligent Manageability
  - AssetControl, Fault Prediction, and Security Management

Table 2 provides a comparison of Windows NT 4.0 software components.

**Table 2. Windows NT 4.0 Software Component Version Comparison**

<b>Software Component</b>	<b>Armada Family Preinstall</b>	<b>Armada Family Preinstall-C</b>	<b>Evo N400c Preinstall</b>
3Com Etherlink 3C905C 10/100 PCI NIC	5.11 A	5.11 A	5.11 A
Adobe Acrobat Reader	4.05 A	4.05 A (CD)	4.05 A (CD)
Allegro Audio Driver	N/A	N/A	4.03 B
Altiris Express Client	4.10 B	4.10 B	4.10 B
Armada Nefflex-3 Ethernet Drivers	2.00 A	2.00 A	N/A
Armada Quick Reference	1.00 A (CD)	2.00 A (CD)	N400c Guide 2.00 A (CD)
ATI Video Driver (NT 4.0)	3.00 C (3.00 D on E500 SXGA models)	4.00 A	4.00 B
CardWare	2.12 C (preloaded)	2.12 C (preloaded)	2.12 E (preloaded)
Compaq Application Installer	N/A	1.00 A	1.10 A
Compaq DVD Solution	1.00 C	1.00 E	2.00 A
Compaq Easy Access Buttons Software 32	1.00 B	2.05 B	2.05 A
Compaq Internet Favorites	1.10 A	1.20 A	N/A
Compaq Knowledge Center	N/A	N/A	1.98 A (preloaded)
Desktop/Portable Web Agents (Win32)	4.20 J	4.20 J (preloaded)	N/A (now part of Insight Manager Agents 4.36)
Diagnostics for Windows NT	2.08 F (2.08 G on E500 SXGA models)	3.01 G (preloaded)	3.30 B (preloaded)
Fax Central	4.45 B	N/A	N/A
Hot Key Support Software (Win32)	1.00 H	1.10 A	1.10 A
Insight Management Agents (Win32)	4.20 G	4.20 G (preloaded)	4.36 G (preloaded)
Intel SpeedStep Application	1.00 B (preloaded)	N/A	1.30 A (preloaded)
M2E Audio Driver (Windows NT 4.0)	4.03 B	4.03 C	N/A
Mini PCI Communications Support Software*	3.00 A	N/A	N/A
Mobile Modem Drivers	N/A	1.00 A	1.00 A
Mobile Intel Pro 100 NIC Drivers	N/A	2.00 A	2.00 A
MultiBay Plug and Play Manager (Windows NT 4.0)	2.00 B	3.10 A	3.20 B

*continued*

**Table 2. Windows NT 4.0 Software Component Version Comparison** *(continued)*

<b>Software Component</b>	<b>Armada Family Preinstall</b>	<b>Armada Family Preinstall-C</b>	<b>Evo N400c Preinstall</b>
Online Modem Commands Guide	1.00 A	1.00 A (CD)	1.00 A (CD)
Power Management (Windows NT 4.0)	2.30 R	4.00 F	4.00 G
Power Management Enhancements	1.00 A	N/A	N/A
Remote Management (Windows NT 4.0)	1.00 B	1.00 C	1.00 C
Safety and Comfort Guide	5.01 A	5.01 A (CD)	5.01 A (CD)
Security Management (Win32)	2.20 D	2.30 B (preloaded)	2.30 C (preloaded)
System Enhancement Disk (Windows NT 4.0)	3.00 A	4.00 A	4.00 A

\*Armada Family Preinstall-C and Evo N400c Preinstall models include separate modem and NIC drivers.

## Microsoft Windows 2000

Microsoft Windows 2000 Professional with Service Pack One is offered as a preinstalled operating system for Evo N400c models. Compaq also supports customers who install Windows 2000 on their own.

**Table 3. Windows 2000 Software Component Version Comparison**

Software Component	Armada Family Preinstall	Armada Family Preinstall-C	Evo N400c Preinstall
3Com Etherlink 3C905C 10/100 PCI NIC	N/A	N/A	5.11 A
Adobe Acrobat Reader	4.05 A	4.05 A (CD)	4.05 A (CD)
Allegro Audio Driver	N/A	N/A	5.12 C
Altiris Express Client	4.10 B	4.10 B	4.10 B
Armada Quick Reference	1.00 A (CD)	2.00 A (CD)	N400c Guide 2.00 A (CD)
ATI Video Driver	1.00 B	2.00 A	2.00 C
Biologon Security System Drivers	N/A	N/A	2.00 A
Compaq Application Installer	N/A	1.00 A	1.10 A
Compaq Armada Dock Driver	1.20 C	1.50 A	1.50 A
Compaq DVD Solution	1.00 C	1.00 E	2.00 A
Compaq Easy Access Buttons Software	1.00 B	2.05 A	2.05 A
Compaq Internet Favorites	1.10 A	1.20 A	N/A
Compaq Knowledge Center	N/A	N/A	1.98 A (preloaded)
Diagnostics for Windows	2.08 F	3.01 G (preloaded)	3.03 B (preloaded)
Hot Key Support Software	1.00 H	1.10 A	1.10 A
Insight Management Agents (Win32)	4.36 E	4.36 E (preloaded)	4.36 G (preloaded)
Intel SpeedStep Application	1.00 B	N/A	1.30 A (preloaded)
M2E Audio Driver	4.10 C	4.10 E	N/A
Mini PCI Communications Support Software*	3.00 A	N/A	N/A
Mobile Modem Drivers	N/A	1.00 A	1.00 A
Mobile Intel Pro 100 NIC Drivers	N/A	2.00 A	2.00 A
Online Modem Commands Guide	1.00 A	1.00 A (CD)	1.00 A (CD)
Power Management	4.00 B	4.00 F	4.00 G

*continued*

**Table 3. Windows 2000 Software Component Version Comparison** (continued)

Software Component	Armada Family Preinstall	Armada Family Preinstall-C	Evo N400c Preinstall
Power Management Enhancements	1.00 A	N/A	N/A
Remote Management	1.00 B	1.00 C	1.00 C
Safety and Comfort Guide	5.01 A	5.01 A (CD)	5.01 A (CD)
Security Management (Win32)	2.20 D	2.30 B (preloaded)	2.30 C (preloaded)
System Enhancements	2.00 A	3.00 A	3.00 A

\*Armada Family Preinstall-C and Evo N400c Preinstall models include separate modem and NIC drivers.

## Microsoft Windows 95

Limited support is provided for Microsoft Windows 95 OSR 2.1 on the Evo N400c family for customers who require basic hardware enabling support under this operating system.

### Hardware Functionality and Software Enhancements

Compaq software drivers and utilities for Windows 95 include:

- Compaq audio, video, and network drivers
- Compaq Easy Access Button and Hot Key Support software

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**IMPORTANT:** Some portable computer features are not supported by Windows 95 and do not function in the same manner as with Windows 98. With Windows 95, MultiPort and full USB are not built into the OS. For additional information regarding USB and Windows 95/98, go to <http://www.microsoft.com/HWDEV/busbios/usbwin98.htm>. Proper shutdown of Windows 95 prior to docking, undocking, or switching MultiBay devices is required.

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Table 4 provides a list of tested Windows 95 software drivers and utilities.

**Table 4. Windows 95 Software Components**

Software Component	Evo N400c
Allegro Audio Driver	4.12 A
ATI Video Driver	7.00 B
Compaq Easy Access Buttons Software	2.10 B
Hot Key Support Software	1.10 B
Mobile Modem Drivers	1.00 B
Mobile Intel Pro 100 NIC Drivers	3.00 B
MultiBay Plug and Play Manager	4.00 A
Power Management	4.00 H
System Enhancements*	5.00 B

\* Winsock 2, DCOM 1.3, and System Enhancements must be installed before any other drivers or utilities.

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**IMPORTANT:** Mobile Intel Pro 100 NIC Drivers require additional software from Microsoft for proper operation and must be installed prior to any other driver or utility. This software includes the Microsoft Windows Socket 2 update and DCOM95 Version 1.3, which can be downloaded from the Microsoft Web site at:  
[http://www.microsoft.com/windows95/downloads/contents/wuadmintools/s\\_wunetworkingtools/w95sockets2/default.asp](http://www.microsoft.com/windows95/downloads/contents/wuadmintools/s_wunetworkingtools/w95sockets2/default.asp)  
and  
<http://www.microsoft.com/com/dcom/dcom95/download.asp>.

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### **Observed Anomalies Under Windows 95 OSR 2.1**

The following anomalies have been observed during testing:

- The internal Mini PCI Network Interface Card (NIC) must be disabled or released using WINIPCFG.EXE for the OS to use a NIC in the docking station.
- Models with integrated Mini PCI devices will not enter Standby while running on battery.
- The system will not enter Standby while running on battery if CD Auto Insert notification is enabled.

## **Software Delivery**

Software delivery methods available for Evo N400c 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 N400c computer. The QRCD System Recovery provides an easy-to-use complete restore solution. 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 N400c 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 lists the *SoftPaq*<sup>™</sup> files that are currently available. Refer to the Compaq Web site regularly for updates.

**Table 5. SoftPaq Descriptions**

SoftPaq	Description
3Com Etherlink 10/100 PCI NIC	Supports PCI NIC that is used in select Armada docking station models
3Com Global Mini PCI 56K (V.90) Modem	Enables the internal modem device on select E700 and M700 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
Compaq Check Dock Utility	Identifies supported docking stations for V300 models
Compaq Internet Favorites	Includes Internet shortcuts for regional Compaq sites
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
Insight Management Web Agents	Provides Web-based 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
Netflex-3 Ethernet Drivers	Enables the integrated network adapter on ArmadaStation I and II
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
- Multimedia
- Audio
- Security
- Power Management
- MultiBay support
- Easy Access buttons support
- Reference guides
- Internet Explorer

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 98 &<br>Windows 95 | <input checked="" type="checkbox"/> Windows NT 4.0 &<br>Windows 2000 | <input checked="" type="checkbox"/> Compaq Support<br>Software CD | <input checked="" type="checkbox"/> Compaq<br>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 98 | <input checked="" type="checkbox"/> Windows NT 4.0 &<br>Windows 2000 | <input checked="" type="checkbox"/> Compaq Support<br>Software CD | <input checked="" type="checkbox"/> Compaq<br>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 98       Windows NT 4.0 & 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 98 & Windows 95
- Windows NT 4.0 & Windows 2000
- Compaq Support Software CD
- Compaq QuickRestore CD
- Compaq Web Site

Evo N400c computers feature the ATI Mobility-M video 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.

## Multimedia

- Windows 98
- Windows NT 4.0 & Windows 2000
- Compaq Support Software CD
- Compaq QuickRestore CD
- Compaq Web Site

### Software MPEG Support

DirectX is a collection of application program interfaces (APIs) designed to create and play back multimedia content on personal computers. With these APIs, developers can easily create cutting-edge graphic media such as 3D VRML and support Web technologies like streaming, moving picture playback, and online gaming and modeling.

## Audio

- Windows 98 & Windows 95
- Windows NT 4.0 & Windows 2000
- Compaq Support Software CD
- Compaq QuickRestore CD
- Compaq Web Site

Audio drivers on the Evo N400c enable the ESS Allegro audio chipset to run multimedia applications using Microsoft DirectSound audio capability. This PCI audio chipset accelerates Microsoft DirectSound applications. In addition to playing WAV and MIDI files, DirectSound provides a high-quality wave-mixing facility and an industry-standard MIDI playback system. DirectSound also provides added control over the memory utilization of the sound controller, allowing user selection of sounds to be cached.

## Security

- Windows 98
- Windows NT 4.0 & 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*, 2<sup>nd</sup> ed., February 1998.

## Compaq Security Management

- Windows 98     
  Windows NT 4.0 & Windows 2000     
  Compaq Support Software CD     
  Compaq QuickRestore CD     
  Compaq Web Site

Security Management is a Windows Control Panel extension that provides an intuitive interface to security features unique to Compaq portable computers. Through the Control Panel security applet, users can set the power-on password of the computer and enable QuickLock and QuickBlank features.

## Power-On Password

- Windows 98     
  Windows NT 4.0 & 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 98     
  Windows NT 4.0 & 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.

## Power Management

Advanced Power Management (APM) provides power conservation features with Windows NT 4.0. Users access these features through the Compaq Power Management Utility. This Windows Control Panel applet provides an easy-to-use interface for setting and controlling power management features. Power management features are categorized into one of the following five groups, which are included as pages in the Power Utility:

### AC Energy Saver Page

- Windows 98 & Windows 95     
  Windows NT 4.0 & Windows 2000     
  Compaq Support Software CD     
  Compaq QuickRestore CD     
  Compaq Web Site

The AC Energy Saver page displays the AC Energy Power Conservation features, which provide the ability to turn AC power conservation on or off, utilize the energy saving features of the monitor, if available, set hard drive timeouts for AC, and set screen save timeouts for AC power use.

## Battery Conservation Settings Page

- Windows 98 & Windows 95    
  Windows NT 4.0 & Windows 2000    
  Compaq Support Software CD    
  Compaq QuickRestore CD    
  Compaq Web Site

The Battery Power Conservation features listed on the Battery Conservation Settings page include four battery conservation levels: high, medium, drain, and custom. After a custom level has been selected, the user can modify such custom timeouts as suspend, processor speed, and brightness. This feature also enables and disables low-battery warning beeps.

## Hibernation Settings Page

- Windows 98 & Windows 95    
  Windows NT 4.0 & Windows 2000    
  Compaq Support Software CD    
  Compaq QuickRestore CD    
  Compaq Web Site

The Hibernation features turn hibernation on or off, set hibernation timeouts, and select the logical partition where the hibernation file will reside.

## Battery Status Page

- Windows 98 & Windows 95    
  Windows NT 4.0 & Windows 2000    
  Compaq Support Software CD    
  Compaq QuickRestore CD    
  Compaq Web Site

The Battery Status feature shows the position of multiple battery locations in the computer. If a battery is present in a given location, the status (high, low, critical, or charging) and a percentage of charge remaining for that battery are shown. The Battery Status feature provides a critical value-add for Compaq customers, reporting the status of each individual battery, in addition to the cumulative battery status.

## Advanced Configuration and Power Interface (ACPI)

- Windows 98    
  Windows 2000

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 models use ACPI to provide power conservation features under Windows 98 SE and Windows 2000.

## MultiBay Support

- Windows 98 & Windows 95    
  Windows NT 4.0    
  Compaq Support Software CD    
  Compaq QuickRestore CD    
  Compaq Web Site

MultiBay Support Software is provided for Windows 98 and Windows NT 4.0. MultiBay software enables the use of MultiBay devices in supported Compaq docking options. Under Windows 98, this software also allows for hot swapping of the MultiBay CD-ROM, DVD-ROM, CD-RW, Super Disk LS-120, 3.5-inch diskette drive, and an additional MultiBay battery in a stand-alone configuration. Hot MultiBay device swapping is not supported under Windows 95 or Windows NT. MultiBay device swapping support is inherent to Windows 2000.

## Easy Access Buttons Support

- Windows 98 & Windows 95
- 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 N400c computers.

## Reference Guides

- Windows 98
- Windows NT 4.0 & Windows 2000

Evo N400c computers have three reference guides available, including the *Safety and Comfort Guide*, the *Modem Command Reference Guide*, and the *Armada 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 *Armada Reference Guide* includes information about the computer, such as identifying connectors; inserting and removing hardware and major hardware subsystems; performing upgrades; and troubleshooting.

## Internet Explorer

- Windows 98
- Windows NT 4.0 & Windows 2000
- Compaq QuickRestore CD

All Windows 98 and Windows 2000 preinstall images include Microsoft Internet Explorer 5.01.

## Frequently Asked Questions

### **How is the internal hard drive partitioned on Evo N400c models?**

On new Evo family products with Windows 98 and Windows 2000, the hard drive is partitioned using FAT32. FAT32 provides a number of advantages over its predecessor, FAT16, including support for partitions larger than 2 GB and smaller cluster sizes.

### **How can DVD movies be viewed on Evo N400c 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 98, Windows NT 4.0, and Windows 2000.

### **Is the preinstall image on N400c models backward compatible with Armada E500, M300, or M700 models?**

Because of architectural changes on the new Evo N400c model, the image is not backward compatible. However, many of the individual software components on this model are shared across several families.

### **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 N400c 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 all Evo 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.

### **How can I learn about the functionality of these software components?**

Evo Family Software white papers describe the features of each of the listed software components. As updated software versions are introduced with new products, these white papers will be updated.

### **Where can I learn more if I want to install the OS and all the Compaq software myself?**

The *Installing Microsoft Windows on Compaq Portable Products* white papers describe the steps required to install the supported Microsoft operating systems.

### 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 Armada families, some software is not because of architectural changes made to the current line of products.

## References

For comprehensive online support, visit the Compaq Web site at:

<http://www.compaq.com>

For international information, visit the Compaq Web site at:

[http://www.compaq.com/corporate/overview/world\\_offices.html](http://www.compaq.com/corporate/overview/world_offices.html)

**Table 4. Departments and Telephone Numbers for Canada and the United States**

Department	Telephone Numbers
Consumer Direct	1-800-888-0220
Compaq DirectPlus	1-800-888-5858 (U.S.)
Compaq Partner Direct	1-800-888-5874
Compaq Reseller Locator	1-800-345-1518 (Option 3)
Compaq Canadian Reseller Locator and Product Literature	1-800-567-1616
Diskette Fulfillment (backup diskettes for preinstalled software)	1-800-952-7689 (U.S.) 1-800-349-8498 (Canada)
Compaq Product Information	1-800-345-1518 (U.S.) 1-800-567-1616 (Canada)
Compaq Technical Support	1-800-OK-COMPAQ (U.S. and Canada) 1-800-652-6672