

October 2000
13L3-1000A-WWEN

Prepared by Software Product
Management

Compaq Computer Corporation

Contents

Overview	3
Highlights	3
Preinstalled Operating Systems	3
Microsoft Windows 95.....	4
Windows 98.....	6
Microsoft Windows NT 4.0.....	7
Microsoft Windows 2000.....	10
Software Delivery	11
Software Enhancements	13
Setup & Diagnostics.....	13
Intelligent Manageability.....	14
Video.....	15
Multimedia.....	15
Audio.....	15
Security.....	16
Power Management.....	16
MultiBay Swapping Support.....	18
Easy Access Button Support.....	18
Fast Infrared.....	18
Communications.....	18
Reference Guides.....	18
Internet Explorer.....	19
Frequently Asked Questions	20
References	22
Compaq.....	22

List of Tables

Table 1 - Windows 95 Software Component Version Comparison	4
Table 2 - Windows 98 Software Component Version Comparison	6
Table 3 - Windows NT 4.0 Software Component Version Comparison	8
Table 4 - Windows NT 2000 Software Component Version Comparison	10
Table 5 - Softpaq Descriptions	12
Table 6 - Compaq References - Departments and Telephone Numbers	22

Armada Family Software Overview

Abstract: New models of the Armada M700, E500, and M300 lines are the latest additions to the Armada Family of Personal Computers.

The purpose of this white paper is to present an overview of the pre-installed software including operating system support, as well as a brief description of major software components and features.

This document is intended for Compaq personnel and customers with a need for information about the software provided on the Armada preinstall images.

Notice

The information in this publication is subject to change without notice and is provided "AS IS" WITHOUT WARRANTY OF ANY KIND. THE ENTIRE RISK ARISING OUT OF THE USE OF THIS INFORMATION REMAINS WITH RECIPIENT. IN NO EVENT SHALL COMPAQ BE LIABLE FOR ANY DIRECT, CONSEQUENTIAL, INCIDENTAL, SPECIAL, PUNITIVE OR OTHER DAMAGES WHATSOEVER (INCLUDING WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION OR LOSS OF BUSINESS INFORMATION), EVEN IF COMPAQ HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

The limited warranties for Compaq products are exclusively set forth in the documentation accompanying such products. Nothing herein should be construed as constituting a further or additional warranty.

This publication does not constitute an endorsement of the product or products that were tested. The configuration or configurations tested or described may or may not be the only available solution. This test is not a determination of product quality or correctness, nor does it ensure compliance with any federal state or local requirements.

Product names mentioned herein may be trademarks and/or registered trademarks of their respective companies.

Compaq, Contura, Deskpro, Fastart, Compaq Insight Manager, LTE, PageMarq, Systempro, Systempro/LT, ProLiant, TwinTray, ROMPaq, LicensePaq, QVision, SLT, ProLinea, SmartStart, NetFlex, DirectPlus, QuickFind, RemotePaq, BackPaq, TechPaq, SpeedPaq, QuickBack, PaqFax, Presario, SilentCool, CompaqCare (design), Aero, SmartStation, MiniStation, and PaqRap, registered United States Patent and Trademark Office.

Netelligent, Armada, Cruiser, Concerto, QuickChoice, ProSignia, Systempro/XL, Net1, LTE Elite, Vocalyst, PageMate, SoftPaq, FirstPaq, SolutionPaq, EasyPoint, EZ Help, MaxLight, MultiLock, QuickBlank, QuickLock, UltraView, Innovate logo, Wonder Tools logo in black/white and color, and Compaq PC Card Solution logo are trademarks and/or service marks of Compaq Computer Corporation.

Microsoft, Windows, Windows NT, Windows NT Server and Workstation, Microsoft SQL Server for Windows NT are trademarks and/or registered trademarks of Microsoft Corporation.

NetWare and Novell are registered trademarks and intraNetWare, NDS, and Novell Directory Services are trademarks of Novell, Inc.

Pentium is a registered trademark of Intel Corporation.

Copyright ©2000 Compaq Computer Corporation. All rights reserved. Printed in the U.S.A.

Armada Family Software Overview
White Paper prepared by Software Product Management

First Edition (October 2000)
Document Number 13L3-1000A-WWEN

Overview

In order to reduce the cost of ownership, Compaq has created a preinstall image based on common software drivers, utilities and applications for following new additions to the Armada M700, E500, and M300 families:

- Armada M300 Intel Pentium III/600MHz
- Armada E500 Intel Celeron/550MHz and select Pentium III/700MHz
- Armada M700 Pentium III/750MHz

This common preinstall image allows customers to maintain a single list of software for use on any of the new additions to the Armada M700, E500, and M300 families. In addition, the updated software components used to create this common preinstall image have been tested on previously released M700, E500, and M300 products.

Note: For more information, please see “Frequently Asked Questions.”

Highlights

The following are highlights of the new Armada preinstall image:

- All deliverables are common across the entire line of these new models:
- The following software updates:
 - Audio
 - Video
 - MultiBay
 - Communication
 - System Enhancements
 - Hot Key software
- Software to support Easy Access Buttons
- The following new applications–
 - Adobe Acrobat Reader
 - Altiris Express Client
- New DVD solution that adds support for Windows NT Workstation and Windows 2000 Professional

Preinstalled Operating Systems

The following preinstalled operating systems are available for Armada M700, E500, and M300:

- Microsoft Windows 95 OEM Service Release 2.1 (OSR 2.1)
- Microsoft Windows 98 Second Edition (SE)

- Microsoft Windows NT Workstation 4.0 with Service Pack 6
- Microsoft Windows 2000 Professional

Microsoft Windows 95

The version of Windows 95 preinstalled on Armada M700, E500, and M300 is Microsoft Windows 95 OSR2.1 (OEM Service Release 2.1). Internet Explorer 4.01a is installed in addition to the Operating System. Windows 95 OSR2.1 continues to include features and fixes introduced with earlier releases from Microsoft.

Note: Internet Explorer 4.01a is installed in addition to Windows 95 OSR 2.1.

Table 1 provides a Windows 95 software component version comparison.

Table 1. Windows 95 Software Component Version Comparison

Software Component	700 MHz - M700 Preinstall	650 MHz -E500 500 MHz -M300 Preinstall	Armada Family Preinstall
3Com Etherlink 3C905C 10/100 PCI NIC	5.11 A	5.11 A	5.11 A
Adobe Acrobat Reader	N/A	4.00 A	4.05 A
Altiris Express Client	N/A	N/A	4.1 A
Armada Netflex-3 Ethernet Drivers	2.00 A	N/A	2.00 A
CardBus Reader Option Driver (PCI)	N/A	N/A	1.00 A
Compaq Check Dock Type Utility	N/A	1.00 A	1.00 A
Compaq DVD Solution	4.00 B	N/A	1.00 B
Compaq Easy Access Buttons Software 32	N/A	N/A	1.00 B
Compaq Floppy Alert Application	1.00 B	N/A	N/A
Compaq Global MiniPCI 56K (V.90) Modem by 3COM	2.15 A	2.15 A	N/A
Compaq Internet Favorites	1.00 A	1.00 A	1.10 A
Desktop/Portable Web Agents (Win32)	4.20 G	4.20 G	4.20 J
Diagnostics for Win95/98	2.18 B	2.17 I	2.25 C

continued

Table 1. Windows 95 Software Component Version Comparison *(continued)*

DOS Real Mode Support (Win95/98)	2.00 D	N/A	N/A
Easy Point IV	1.00 B	1.00 B	2.00 A
Hot Key Support Software (Win32)	1.00 D	1.00 D	1.00 H
Infrared Drivers (Win95)	1.20 A	1.20 A	1.20 A
Insight Management Agents (Win32)	4.20 F	4.20 F	4.20 G
Intel SpeedStep Application	1.00 A	1.00 A	1.00 B
IR Transfer	1.00 B	1.00 A	N/A
M2E Audio Driver (Win95/98)	4.04 G	4.04 F	4.04 H
Microsoft DirectX	6.10 A	6.10 A	7.00 A
Mini PCI Communications Support Software	2.00 C	2.00 E	3.00 A
MultiBay (Win95)	1.30 C	1.30 C	2.00 B
Online Modem Commands Guide	1.00 A	1.00 A	1.00 A
PowerCon (Win95/98)	3.30 B	3.30 E	3.30 H
PowerCon Enhancements	1.00 A	1.00 A	1.00 A
Rage LT Pro Video Driver (Win95/98)	6.10 B	6.10 B	6.11 A
Remote Management (Win95)	1.01 A	1.01 A	1.00 B
Safety & Comfort Guide	5.01 A	5.01 A	5.01 A
Security 32 (Win32)	1.10 H	2.00 A	2.20 D
Armada M700 Quick Reference	1.00 A	N/A	N/A
System Enhancement Disk (Win95)	3.00 F	3.00 E	4.00 A
Touchpad Driver – Synaptics (Win 95/98)	5.45 A	5.29 A	5.45 B
True File Flash System (Win95)	1.00 A	N/A	N/A
USB Support	2.00 A	N/A	N/A
WorldPort Application	1.20 A	1.20 A	N/A

Windows 98

The version of Windows 98 preinstalled on new Armada M700, E500, and M300 models is Second Edition (SE). Windows SE is fully supported on Armada M700, E500, and M300. For more information about Windows 98 SE support on Armada M700, E500, and M300, refer to the white paper *Operating System Support on Compaq Portables*, Fourth Edition, July 1999.

Table 2 provides a Windows 98 software component version comparison.

Table 2. Windows 98 Software Component Version Comparison

Software Component	700 MHz Armada M700 Preinstall	650 MHz -E500 500 MHz -M300 Preinstall	Armada Family Preinstall
3Com Etherlink 3C905C 10/100 PCI NIC	5.11 A	5.11 A	5.11 A
Adobe Acrobat Reader	N/A	4.00 A	4.05 A
Altiris Express Client	N/A	N/A	4.1 A
Armada Netflex-3 Ethernet Drivers	2.00 A	N/A	N/A
CardBus Reader Option Driver (PCI)	N/A	N/A	1.20 C
Compaq Check Dock Type Utility	N/A	1.00 A	1.00 A
Compaq DVD Solution	4.00 B	N/A	1.00 B
Compaq Easy Access Buttons Software 32	N/A	N/A	1.00 B
Compaq Floppy Alert Application	1.00 B	N/A	N/A
Compaq Global MiniPCI 56K (V.90) Modem by 3COM	2.15 A	2.15 A	N/A
Compaq Internet Favorites	1.00 A	1.00 A	1.10 A
Desktop/Portable Web Agents (Win32)	4.20 G	4.20 G	4.20 J
Diagnostics for Win95/98	2.18 B	2.17 I	2.25 C
DOS Real Mode Support (Win95/98)	2.00 D	N/A	N/A
Easy Point IV	1.00 B	1.00 B	2.00 A
Fax Central	4.40 C	4.40 C	4.45 A
Hot Key Support Software (Win32)	1.00 D	1.00 D	1.00 H
Insight Management Agents (Win32)	4.20 F	4.20 F	4.20 G
Intel SpeedStep Application	1.00 A	1.00 A	1.00 B

continued

Table 2. Windows 98 Software Component Version Comparison *(continued)*

M2E Audio Driver (Win95/98)	4.04 G	4.04 F	4.04 H
Microsoft DirectX	6.10 A	6.10 A	7.00 A
Mini PCI Communications Support Software	2.00 C	2.00 E	3.00 A
MultiBay (Win98)	1.30 C	1.30 C	2.00 B
Online Modem Commands Guide	1.00 A	1.00 A	1.00 A
PowerCon (Win95/98)	3.30 B	3.30 E	3.30 H
PowerCon Enhancements	1.00 A	1.00 A	1.00 A
Rage LT Pro Video Driver (Win95/98)	6.10 B	6.10 B	6.11 A
Remote Management (Win95)	1.01 A	1.01 A	1.00 B
Safety & Comfort Guide	5.01 A	5.01 A	5.01 A
Security 32 (Win32)	1.10 H	2.00 A	2.20 D
Armada M700 Quick Reference	1.00 A	N/A	N/A
System Enhancement Disk (Win98)	2.00 H	2.00 H	3.00 A
Touchpad Driver – Synaptics (Win 95/98)	5.45 A	5.29 A	5.45 B
WorldPort Application	1.20 A	1.20 A	N/A

Microsoft Windows NT 4.0

Microsoft Windows NT 4.0 with Service Pack 6 is offered as a preinstalled operating system for new Armada M700, E500, and M300 models.

Note: Compaq supports customers who install Windows NT 4.0 using Service Pack 4 or Service Pack 5.

Compaq drivers, utilities and applications for Windows NT 4.0 are discussed in detail in later sections of this white paper.

Hardware Functionality and Software Enhancements

Since Microsoft Windows NT 4.0 was originally positioned and designed for desktop computing, there are some portable computer features that are not supported by the native operating system, or do not function in the same manner as they would under Windows 95. These features are primarily associated with PC Card and power management support.

Compaq provides software enhancements that compliment Windows NT 4.0 by enabling the same level of features and hardware functionality provided under Windows 95. Native Windows NT 4.0 features and Compaq software deliverables include the following:

- Compaq Diagnostics for Windows NT
- Compaq enhanced Audio, Video and Network support
- Compaq enhanced multimedia support
- Optional PC Card support through preloaded CardWare® NT provided by Compaq
 - Traditional 16 bit, PC Card 16 and 32 bit CardBus support
 - Power Management for PC Cards
- Compaq provided Power Management support
 - Suspend, Hibernation and Power Utility
- Compaq Intelligent Manageability
 - AssetControl, Fault Prediction and Security Management
- Advanced hot swapping capability with the Compaq MultiBay utility

Table 3 provides a Windows NT 4.0 software component version comparison.

Table 3. Windows NT 4.0 Software Component Version Comparison

Software Component	700 MHz Armada M700 Preinstall	650 MHz -E500 500 MHz -M300 Preinstall	Armada Family Preinstall
3Com Etherlink 3C905C 10/100 PCI NIC	5.11 A	5.11 A	5.11 A
Adobe Acrobat Reader	N/A	4.00 A	4.05 A
Altiris Express Client	N/A	N/A	4.10 B
Armada Integrated PCI V.90 Modem CD	2.15 A	2.15 A	N/A
Armada Netflex-3 Ethernet Drivers	2.00 A	N/A	2.00 A
CardWare (Preloaded)	2.12 A	2.12 C	2.12 C
Compaq Check Dock Type Utility	N/A	1.00 A	1.00 B
Compaq DVD Solution	N/A	N/A	1.00 C
Compaq Easy Access Button Software 32	N/A	N/A	1.00 B
Compaq Global MiniPCI 56K (V.90) Modem by 3COM	2.17 A	2.17 A	N/A
Compaq Internet Favorites	1.10 A	1.10 A	1.10 A

continued

Table 3. Windows NT 4.0 Software Component Version Comparison *(continued)*

Desktop/Portable Web Agents (Win32)	4.20 G	4.20 G	4.20 J
Diagnostics for Windows NT	2.04 E	2.04 E	2.08 F
Easy Point IV	1.00 B	1.00 B	N/A
Fax Central	4.40 C	4.40 C	4.45 B
Hot Key Support Software (Win32)	1.00 D	1.00 D	1.00 H
Insight Management Agents (Win32)	4.20 F	4.20 F	4.20 G
Intel SpeedStep Application	1.00 B	1.00 B	1.00 B
M2E Audio Driver (WinNT 4.0)	4.02 D	4.02 D	4.03 B
Mini PCI Communications Support Software	2.00 E	2.00 E	3.00 A
MultiBay Plug & Play Manager WinNT 4.0	1.20 C	1.20 B	2.00 B
Online Modem Commands Guide	1.00 A	1.00 A	1.00 A
PowerCon (WinNT)	2.30 G	2.30 L	2.30 R
PowerCon Enhancements	1.00 A	1.00 A	1.00 A
Rage LT Pro Video Driver (WinNT 4.0)	3.00 B	3.00 B	3.00 C
Remote Management (WinNT 4.0)	1.01 A	1.01 A	1.00 B
Safety & Comfort Guide	5.01 A	5.01 A	5.01 A
Security 32 (Win32)	1.10 H	2.00 A	2.20 D
System Enhancement Disk (WinNT 4.0)	2.00 B	2.00 C	3.00 A
Touchpad Driver – Synaptics (WinNT 4.0)	5.45 A	5.45 A	N/A
WorldPort Application	1.20 A	1.20 A	N/A

Microsoft Windows 2000

Microsoft Windows 2000 Professional is offered as a preinstall operating system for Armada M700, E500, and M300. Compaq supports customers who install Windows 2000 Professional on their own. Compaq drivers, utilities and applications for Windows 2000 are discussed in detail in later sections of this white paper.

Table 4 provides a Windows 2000 software component version comparison.

Table 4. Windows 2000 Software Component Version Comparison

Software Component	700 MHz Armada M700 Preinstall	650 MHz -E500 500 MHz -M300 Preinstall	Armada Family Preinstall
Adobe Acrobat Reader	4.05 A	4.05 A	4.05 A
Altiris Express Client	4.10 A	4.10 A	4.10 B
ATI Video Driver (WinNT 4.0)	1.00 A	1.00 A	1.00 B
Compaq Armada Dock Driver	1.20 B	1.20 B	1.20 C
Compaq Check Dock Type Utility	1.00 B	1.00 B	N/A
Compaq DVD Solution	1.00 A	1.00 A	1.00 C
Compaq Easy Access Button Software	N/A	N/A	1.00 B
Compaq Internet Favorites	1.10 A	1.10 A	1.10 A
Diagnostics for Windows NT	2.08 A	2.08 A	2.08 F
Easy Point IV	2.00 A	2.00 A	N/A
Hot Key Support Software (Win32)	1.00 G	1.00 G	1.00 H
Insight Management Agents (Win32)	4.36 B	4.36 B	4.36 E
Intel SpeedStep Application	1.00 B	1.00 B	1.00 B
M2E Audio Driver (WinNT 4.0)	4.10 C	4.10 C	4.10 C
Mini PCI Communications Support Software	2.00 E	2.00 E	3.00 A
Power Management	N/A	N/A	4.00 B
Power Management Enhancements	1.00 A	1.00 A	1.00 A
Remote Management (WinNT 4.0)	1.00 A	1.00 A	1.00 B
Safety & Comfort Guide	5.01 A	5.01 A	5.01 A
Security Management 32	2.20 A	2.20 A	2.20 D

continued

Table 4. Windows 2000 Software Component Version Comparison *(continued)*

System Enhancement Disk (W2000)	1.00 B	1.00 B	2.00 A
Touchpad Driver – Synaptics	5.45 A	5.45 A	N/A

Software Delivery

The following software deliverables are common to the Armada M700, E500, and M300:

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

Compaq QuickRestore CD Kit

The Compaq QuickRestore CD (QRCD) Kit is shipped with each Armada M700, E500, and M300 notebook. 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 its factory settings. The QRCD Application Recovery provides a majority of drivers, utilities, and applications that are preinstalled on the notebook. Users select one component at a time to reinstall.

Compaq Support Software CD

The Compaq Support Software CD (SSCD) includes the latest updates to drivers and utilities for Armada Portable, Desktop and Workstation PCs. Key drivers and utilities in all supported languages for Armada M700, E500, and M300 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 a Compaq authorized dealer.

Compaq World Wide Web Site and Download Facility

Individual drivers and utilities can be downloaded, in the form of SoftPaqs, from the Compaq Download Facility or the Compaq web site (<http://www.compaq.com> or <ftp://ftp.compaq.com>). SoftPaqs are a way for Compaq to distribute driver and ROM updates as well as product software enhancements. It allows for multiple files and bootable diskettes to be distributed conveniently and electronically via floppy diskette or the web.

SoftPaq Descriptions

Table 5 lists and describes SoftPaqs available as of this white paper. Refer to the Compaq web site regularly for updates.

Table 5. SoftPaq Descriptions

Name	Description
3Com Etherlink 10/100 PCI NIC	Supports PCI NIC that is used in select Armada docking station models
3Com Global MiniPCI 56K (V.90) Modem	Enables internal modem device on select E700 & M700 models
CardWare	Enables hot plug ability and CardBus support under Windows NT 4.0
Compaq Check Dock Utility	Identifies supported docking stations for V300 models
Compaq Floppy Alert (E700 only)	Verifies that the floppy is installed in the correct internal MultiBay
Diagnostics	Provides tools to test hardware components
Easy Access Button 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
M2E Audio Driver	Enables the integrated audio hardware
Mini PCI Communications Support and Drivers	Enables internal modem and modem/NIC Combo devices and supports Intel PCI NIC that is used in select Armada docking station models
MultiBay Plug and Play Manager	Provides support for swapping MultiBay devices
Netflex-3 Ethernet Drivers	Enables the integrated network adapter on ArmadaStation I and II
Power Management	Allows users to customize power requirements of the PC 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 administrator to update client ROM and setup over the network
Security 32	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 hardware-enabling operating system enhancements and fixes
System ROMPaq	System Firmware
Worldport Application	Allows homologation of 3Com modems

Software Enhancements

This section discusses the following software enhancements common to the Armada M700, E500, and M300:

- Setup and diagnostics
- Intelligent manageability
- Video
- Multimedia
- Audio
- Security
- Power management
- MultiBay swapping
- Easy access button support
- Fast infrared
- Communications
- Online help
- Internet Explorer

The check boxes below each enhancement description indicate which operating systems support these enhancements and if the enhancements are provided on the SSCD, CQRCD, and Compaq web site.

Setup & Diagnostics

Computer Setup

Computer Setup is an operating system-independent utility that allows customers to modify the configuration of their notebook. Computer Setup allows the user to resolve resource conflicts among devices, enable many of the Compaq-specific features without resorting to an operating system-dependent Compaq utility, change the system settings, and quickly and easily setup the Armada M700, E500, and M300.

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

Compaq Diagnostics for Windows

This version of Compaq Diagnostics for Windows 95/98 and Windows NT 4.0 represents a significant upgrade to the version included with the Armada 7800 and 7400. New to this version is a feature called Configuration Record. Users can create a detailed snapshot of the system hardware and software configuration with this utility. Multiple snapshots can be recorded for use in trouble shooting technical issues. Diagnostics for Windows is the only application that can locally retrieve detailed information specific to Compaq notebook and desktop computers. With

an expanded set of features, Diagnostics for Windows is an indispensable troubleshooting tool for users, system administrators and technical support providers.

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

Intelligent Manageability

With Intelligent Manageability, Compaq responds to customers' need for easy-to-manage PCs in stand-alone and networked environments. Compaq addresses this need by focusing on five areas of primary concern for customers today:

- **Asset Management**—provides the user with detailed configuration information about the PC and allows the system administrator to inventory and track PCs and their components from one central location.
- **Fault Management**—provides the user and system administrator with pre-failure and other alerts. Pre-failure alerts generate advance warning to minimize downtime and data loss from hardware failures.
- **Security Management**—prevents unauthorized access to critical data and valuable PC components.
- **Integration Management**—uses industry-standard technologies while partnering with industry-leading PC Management software vendors.
- **Configuration Management**—provides the latest drivers, utilities and support software to optimize PC performance; available on CD-ROM and the Compaq web site at www.compaq.com.

Intelligent Manageability also addresses the following concepts:

- **New industry-leading hardware and software**—Intelligent Manageability enables customers to manage PCs intelligently. It is a management tool designed for portables in both mobile and connected environments.
- **Innovation and Standardization**—The Compaq Management Solutions Partners Program establishes a non-proprietary approach to solving customers' manageability issues. It ensures tight integration and compatibility with leading PC Management software vendors.
- **Total Cost of Ownership**—Protecting the investment by increasing its value over the life of the product thereby reducing the total cost of owning one or more PCs.
- **Product Parity**—Currently, all commercial portable and desktop PCs include virtually the same Intelligent Manageability functionality across all platforms.

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

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

Video

The Armada M300 features the ATI Rage Pro video chipset. The E500 and M700 feature the ATI Mobility-P video chipset. Software drivers are provided to enable all functionality of the chipset. Driver support is complimented by a Display Utility that provides easy access to video settings through the Windows Control Panel.

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

Multimedia

Microsoft Multimedia Support

The version of Windows 95 preinstalled on the Armada M700, E500, and M300 includes Microsoft DirectShow, which enables the following types of video playback:

- AVI, MOV, and MPEG1 playback support
- Indeo4-compressed AVI playback support
- MCI support for both 16 and 32-bit applications

Software MPEG Support

DirectX is a collection of Application Programming Interfaces (APIs) designed to introduce a set of standards for multimedia content creation and playback on personal computers. With these APIs developers can easily develop cutting edge graphic media such as 3D VRML, and support new web technologies like streaming, moving picture playback, online gaming and modeling.

Note: Active Movie has been replaced by Microsoft DirectShow.

DirectShow provides enhancements over its Active Movie predecessor, most notably providing MPEG1 software playback that has been optimized for Intel MMX processors. DirectX 6.1 and Internet Explorer 4.01a are included as part of the Windows 95 and 98 preinstall images.

Compaq continues to preinstall an MMX optimized Active Movie filter for Windows NT 4.0 providing playback support for popular video formats such as MPEG1.

Audio

Armada M700, E500, and M300 audio drivers enable the ESS Maestro-2EM 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, as well as an industry-standard MIDI playback system. Additionally, DirectSound provides added control over the memory utilization of the sound controller, allowing user-selection of sounds to be cached.

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

Security

DriveLock

DriveLock is a security feature that offers customers advanced protection against unauthorized access to valuable data on their internal notebook hard drives. There are two passwords that control access to the hard drives. This provides 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*, Second Edition, February 1998.

Compaq Security Extension

Security32 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 are able to set the computer's power-on password and enable QuickLock and QuickBlank features.

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

Power-on Password

The power-on password prevents an unauthorized user to power on the system. Once 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. Under QuickLock, 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.

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

Administrator Password

The administrator password, also known as the setup password, prevents unauthorized changes to the system configuration. Unless the Administrator Password is known, F10 Setup is inaccessible.

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

Power Management

The Armada M700, E500, and M300 use Advanced Power Management (APM) version 1.2 to provide power conservation features under Windows 95. An equivalent feature set is supported under 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 four groups, which appear as pages in the Power Utility. These groups are outlined below.

AC Energy Saver Page

AC Energy Power Conservation features provide the ability to turn AC power conservation on or off, utilize the energy saving features of the monitor, if available, set hard drive time-outs for AC, and set screen save time-outs for AC power use.

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

Battery Conservation Settings Page

Battery Power Conservation features include four possible battery conservation levels. These levels include high, medium, drain, and custom. When a custom level has been selected, the user can modify the various custom level time-outs. These time-outs include suspend, processor speed and brightness. This feature provides the ability to enable/disable low battery warning beeps.

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

Hibernation Settings Page

The Hibernation features include the ability to turn hibernation on or off, set hibernation time-outs, and select the logical partition where the hibernation file will reside.

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

Battery Status Page

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, charging) and a percentage of charge remaining for that battery is shown. The Multiple Battery Status provides a critical value-add for Compaq customers, allowing the ability to check the status of each individual battery, in addition to the cumulative battery status.

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

Advanced Configuration and Power Interface (ACPI)

Advanced Configuration and Power Interface (ACPI) represents a significant innovation in power and configuration management that allows operating systems and applications to manage power based on activity and usage. The Armada M700, E500, and M300 use ACPI to provide power conservation features under Windows 98 SE and Windows 2000.

The new Armada M700, E500, and M300 models are ACPI-hardware-ready.

- Windows 98 Windows 2000

MultiBay Swapping Support

MultiBay Interchange Support is provided for Windows 95, 98 and NT 4.0. This feature allows for hot swapping of the MultiBay CDROM, DVD-ROM, Super Disk LS-120, 3.5-in diskette drive, and additional MultiBay battery in a standalone configuration.

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

Easy Access Button Support

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 Easy Access buttons integrated on new Compaq Armada notebooks.

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

Fast Infrared

Windows 95, 98 and 2000 support standard infrared (IR) transfer rates. Compaq supplies Enhanced IR drivers giving the user the ability to use IR at 4MBs.

- Windows 95/98 Windows 2000 Compaq Support Software CD Compaq QuickRestore CD Compaq Web Site

Communications

The Armada M700, E500, and M300 feature a data/fax application for Windows NT 4.0 called Fax Central from Ring Zero. This application allows users to reap the benefits of being able to fax directly from their Armada M700, E500, and M300.

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

Reference Guides

Armada M700, E500, and M300 have three reference guides including the Safety & Comfort Guide, the Modem Command Reference Guide, and the Armada Reference Guide on the QRCD.

The Safety & Comfort Guide provides the user with instructions on how to properly use items like the keyboard and mouse to reduce the potential of repetitive motion injuries like Carpal Tunnel Syndrome.

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

The Reference Guide includes information about all aspects of the computer including, but not limited to, identifying connectors, inserting and removing hardware, major hardware subsystems, upgrades, and troubleshooting.

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

Internet Explorer

All Windows 98, Windows 2000 and Windows NT 4.0 preinstall images include Microsoft Internet Explorer 5.01 preinstalled. For Windows 95, 4.01a is preinstalled and 5.01 is preloaded.

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

Frequently Asked Questions

How is the internal hard drive partitioned on the new Armadas?

On new Armada notebooks with Windows 95 or Windows 98, the hard drive comes formatted using FAT32. FAT32 provides a number of advantages over its predecessor, FAT16, including support for partitions larger than 2GB and smaller cluster sizes.

On new Armada notebooks with Windows NT 4.0, the 2GB bootable partition uses FAT16. The remainder of the drive is partitioned with NTFS. Windows NT 4.0 does not support FAT32 since NTFS provides comparable features and performance improvements. Customers using Windows NT 4.0 on the Armada M700, E500, and M300 are able to easily manipulate the primary bootable partition using OS inherent tools.

How can DVD movies be viewed on an Armada M700/E500/M300?

The Compaq DVD Solution is preinstalled on new Armada family products that are shipped with DVD-ROM drives. This application is a software based DVD decoder/player. This application features an easy to use interface and allows users to view DVD video releases. This application is designed for use with Windows 95, Windows 98, Windows NT, and Windows 2000.

What exactly is a Common Preinstall?

The Common Preinstall is a preinstall image that consists of software components that will work on all current generation Armada platforms (this does not include the Notebook 100 or any of 100 Family follow on products).

Will the software image on my 750 MHz M700 be identical to my 700 MHz E500?

Every effort will be made to keep these preinstall images identical. Minor changes may occur when products are not shipped simultaneously, but any updated software components will be tested on other current Armada families. The latest list of Armada software will work on current Armada product families. This list will be provided in the *Armada Software Overview* white paper.

What about backward compatibility?

New Armada preinstall images will consist of software components that will be tested on previous generations of the same family. If an updated video driver is produced to support a new M700 family product, it will be tested on previous M700 products.

If a new model is introduced, will all of the other models that are still being manufactured be updated with the new preinstall image?

No, customers have expressed a need for consistency. Therefore, we will not refresh software on Armada M700, E500, or M300 products during their life (this does not apply to the S products). We will supply white papers that will provide those customers who want to maintain a single list of software components for all current generation Armada families with the necessary information. It will no longer be necessary to maintain a specific list for each Armada family.

Why doesn't the Common Preinstall work on the Notebook 100?

Because of significant architectural differences between the Compaq Notebook 100 and other current generation Armadas, the Common Preinstall Software components will not work.

What about the next generation of Armada products? Will they also use the Common Preinstall?

Efforts will be made to maintain as high a level of compatibility as possible, however new technology may require additional or new software that may be family specific. Information on these differences will be documented in revisions to the *Armada Software Overview* white paper.

How do I get these updated software components?

The latest software updates are available from our website at www.compaq.com. For customers without web access, we offer the Compaq Software Support CD Kit. In North America, call (800) 952-7689 for more information.

How do I know what these software components do?

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

As an IT Manager, how does this benefit me?

Standardization is a key part of lowering total cost of ownership. With the common set of software components used across these Armada Families, IT Managers will no longer have to keep track of different versions of software to support Compaq Armada products.

Can I use the same installation procedures for all models?

Yes, the same installation procedures can be used for the supported Armada Family models.

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

The *Installing Microsoft Windows on Compaq Armada EM & V Products* white papers will describe the necessary steps required to install the supported Microsoft operating systems.

Will this image change significantly if new M700, E500, and M300 models are introduced?

The goal for our classic line of Armada products is to provide as much stability as possible. Changes made to the preinstalls will be limited to those that will support new hardware features or significantly improve overall performance.

How will I know what's changed?

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

Can I use these same software components on my Armada 7800 (or any previous Armada families)?

While some software will be backward compatible with previous Armada families, most software is not. This is due to the architectural changes made to the current line of products.

References

Compaq

For comprehensive online support, refer to: www.compaq.com

For international information, refer to: www.compaq.com/corporate/overview/world_offices.html

Table 6. Departments and Telephone Numbers for Canada and the United States

Department	Telephone Number(s)
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 & 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