



**Compaq Professional
Workstation Unattended
Installation Toolkit for Microsoft
Windows NT Workstation 4.0**

TechNote

**First Edition (July 1998)
Part Number ECG052/0498
Compaq Computer Corporation**

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Contents

Unattended Installation Toolkit for Microsoft Windows NT Workstation 4.0

Introduction	1
Software Requirements for Preparing the Distribution Server and MS-Client Boot Diskette	2
Necessary Components for Preparing the Distribution Server	2
Necessary Components for Creating the MS-Client Boot Diskette	3
Unattended Installation Toolkit Diskette Contents.....	4
Downloading the Unattended Installation Toolkit	7

Unattended Installation Toolkit for Microsoft Windows NT Workstation 4.0

This document provides general information about the Compaq Professional Workstation Unattended Installation Toolkit for Microsoft Windows NT Workstation 4.0.

The Unattended Installation Toolkit can be downloaded from the Workstation Downloadables area of the Compaq website (<http://www.compaq.com>), under the Software Solutions and Utilities category.

Introduction

Microsoft Windows NT is rapidly becoming the desktop operating system of choice for many Fortune 500 corporations. One of the many issues that must be addressed when Windows NT is selected for a large scale corporate roll out is how can the technical staff reliably install the operating system and the company's standard applications, while at the same time meet tight deadlines?

When faced with these requirements, technical staffers may be tempted to consider duplicating the client hard disks with any of the various disk imaging software packages available on the market. However, Microsoft has publicly stated that disk imaging techniques are not supported for full Windows NT installation. The reason for this is that disk imaging duplicates everything on the source computer, including the unique Security ID (SID) of the operating system. This kind of duplication will make network security impossible to maintain. For more information, see *Do Not Disk Duplicate Installed Versions of Windows NT, PSS Number Q162001, Microsoft TechNet CD*.

The only remaining viable alternative is to utilize the unattended setup features that Microsoft has provided in the Windows NT setup program. When properly configured, unattended setup is remarkably effective in performing a hands-off installation of the NT operating system. With a little creative thinking, additional editing of the script, and some additional third party software, unattended setup can be extended to automatically install a full suite of your corporate standard applications.

2 Unattended Installation Toolkit for Microsoft Windows NT Workstation 4.0

Key benefits:

- Non-stop, simultaneous, and unattended installation of a customized corporate software platform
- Installation of Windows NT 4.0 and optimized drivers within 30-45 minutes (on a 10-megabit line)
- Corporate standard applications can easily be added to the unattended installation process
- Compaq Insight Manager support can easily be added to the unattended installation process

The Unattended Installation Toolkit can be downloaded from the Compaq website (<http://www.compaq.com>) under the Software Solutions and Utilities category, under Workstations Downloadables.

NOTE: The Unattended Installation Toolkit for Windows NT Workstation 4.0 is supported on Compaq Professional Workstations only.

Software Requirements for Preparing the Distribution Server and MS-Client Boot Diskette

Necessary Components for Preparing the Distribution Server

The following components are necessary for preparing the distribution server:

- Windows NT 4.0 Workstation CD-ROM or other source of the Windows NT installation files to be installed on the client systems.
 - Windows NT 4.0 Workstation Resource Kit CD-ROM. Necessary as a reference for modifying the *UNATTEND.TXT* file to meet site-specific requirements.
 - Compaq SmartStart for Workstations, version 1.20b or later. Necessary for the Compaq Windows NT Support Software, drivers and other Compaq Value Added software.
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- (Optional) Compaq Management CD-ROM version 3.30 or later. Necessary for the Compaq Management agents.
- The Unattended Installation Toolkit.
- (Optional) The distribution files for Service Pack 3 for Windows NT 4.0. (This can be downloaded from Microsoft's website or the SmartStart for Workstations CD v1.20 or later.)
- Other application software to be installed.

Necessary Components for Creating the MS-Client Boot Diskette

The following components are necessary for creating the MS-Client boot diskette:

- MS-DOS version 6.22 computer system with CD-ROM drive.
- Windows NT Server CD-ROM to obtain MS-Client files.
- Unattended Installation Toolkit.

Unattended Installation Toolkit Diskette Contents

The following describes each file that is on the Unattended Installation Toolkit diskette:

Table 1
Unattended Installation Toolkit Diskette Contents

File Name	Description
SERVER.BAT	Batch file that automates creation of most of the distribution server directory structure.
\$OEM\$.EXE	Self-extracting executable that SERVER.BAT executes to create the distribution server directory structure. The files contained within \$OEM\$.EXE include:
SETUPDD.SYS	Replaces the WinNT distribution file of the same name. This file fixes a bug by automatically restarting when converting to NTFS.
NETOEMDH.INF	Contains updates for automatically detecting the Integrated NIC on Compaq Professional Workstations, and specifically, the Compaq Professional Workstation 5100.
MOUCLASS.SYS	Updated mouse driver.
I8042PRT.SYS	Updated mouse driver.
\$OEM\$\CMDLINES.TXT	Contains commands that are executed during the GUI mode in the installation process.

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Unattended Installation Toolkit Diskette Contents *Continued*

File Name	Description
\$OEM\$\RUNONCE.REG	The registry settings required to execute the installation script after Windows NT 4.0 operating system is completely installed.
\$OEM\$\AUTOLOG.REG	The registry settings required to automatically log in to Windows NT 4.0 after the Windows NT 4.0 operating system is completed installed.
\$OEM\$\C\BATCH\REBOOT.EXE	Restarts Windows NT after the installation script is complete.
\$OEM\$\C\BATCH\CPOWKSTN.CMD	The installation script that initiates the installation of Service Pack 3, the NTSSD, Compaq Insight Management Agents, and any other software package you want to install during the unattended installation process.
\$OEM\$\C\BATCH\CLEAN.CMD	The script that deletes the batch directory from the target of the unattended install.
\$OEM\$\C\BATCH\LOGOFF.REG	Registry settings that turn off the auto login feature of Windows NT.
\$OEM\$\C\BATCH\AUTOLOG.REG	Registry settings required to automatically login to Windows NT.
\$OEM\$\C\BATCH\TRAPS.REG	Registry settings that configure the CIM Agents to work properly.
\$OEM\$\C\BATCH\CLEAN.REG	Registry settings that execute CLEAN.CMD after the installation script is finished and the system has restarted.
\$OEM\$\C\BATCH\SLEEP.EXE	Program that causes Windows NT to wait for a specified amount of time before trying to access unloaded network services.

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6 Unattended Installation Toolkit for Microsoft Windows NT Workstation 4.0

Unattended Installation Toolkit Diskette Contents *Continued*

File Name	Description
INSTALL.BAT	Creates and copies files and directories to the hard drive, and needed to create the MS-Client boot diskette.
MAKEDISK.EXE	Self-extracting executable that is extracted to the hard drive by INSTALL.BAT. The files contained within MAKEDISK.EXE include:
MAKEDISK.BAT	Initiates the process of creating the MS-Client boot diskette.
CR.	Response file.
COPYFILE.BAT	Selectively copies MS-Client files from the hard drive to the boot diskette.
SYSCHANGE.EXE	Modifies SYSTEM.INI and PROTOCOL.INI to load network drivers from the boot diskette.
BOOTDISK.EXE	Self-extracting executable containing files that are copied onto the boot diskette. This files contains within BOOTDISK.EXE include:
UNATTEND.TXT	The response file that WinNT uses to silently install itself.
SYNC.EXE	Program that synchs PROTOCOL.INI and SYSTEM.INI with UNATTEND.TXT.
DP.EXE	Program that modifies the master boot record and creates a response file for FDISK.EXE.
NEW_BOOT.COM	Modifies the master boot record of the diskette to be nonbootable.
GET_BOOT.COM	Get the master boot record from the hard drive.
OLD_BOOT.COM	Restores the original master boot record on the diskette.

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Unattended Installation Toolkit Diskette Contents *Continued*

File Name	Description
OLD_BOOT.SEC	The original master boot record.
NEW_BOOT.SEC	The master boot record of the hard drive.
CONFIG.SIS(SYS)	Self-explanatory.
FORMAT.KEY	Response file for FORMAT.COM.
FDISK.KEY	Response file for FDISK.EXE.
RESET.BAT	Validates an invalid MS-Client boot diskette.
CPQIDE	This directory contains drivers for IDE CD-ROM drives on Compaq Professional Workstations.
MSCLIENT	This directory contains MS-Client drivers for the Integrated Network Adapter on Compaq Professional Workstations.
UNATTEND.HTM	The file that you are currently reading.

Downloading the Unattended Installation Toolkit

The Unattended Installation Toolkit can be downloaded from the Workstation Downloadables area of the Compaq website (<http://www.compaq.com>), under the Software Solutions and Utilities category.

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