

HP**PC Image Engineer****Image Library & Diagnostics
System CD-ROM****User's Guide**

***Image Library & Diagnostics
System CD-ROM for
Vectra VL400
and e-Vectra***

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Hewlett-Packard France
Business Desktop Division
38053 Grenoble Cedex 9
France

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About This Manual



This manual is intended for PC users or systems administration personnel. A knowledge of Microsoft operating systems as well as software deployment tools is required. If using Windows NT or Windows 2000 operating systems, you must have administrator privileges.

This manual provides guidelines for using the *HP Image Library & Diagnostics system CD-ROM* software, which is part of the *HP PC Image Engineer* software.

Acronyms

The following terms are sometimes used in this manual for brevity, to replace the full description:

OS	Operating System
ICR	Image Creation and Recovery CD-ROM
ILD	Image Library and Diagnostics System CD-ROM
CD	Compact Disc (Optical data disc)

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Introduction

The Image Library and Diagnostics System CD-ROM and its use in the recovery of HP preloaded software.

Your Preloaded Software

Your HP PC is delivered with preloaded software already in place on the hard disk. This includes the operating system, all the correct drivers for your hardware, plus special HP utilities to support you if you should run into difficulties at any time during the working life of the PC.

To provide a secure backup against software corruption, the entire preloaded system can be restored using the HP CD-ROMs provided with your PC. These utilities permit a rapid trouble-free restart should you ever need to reinstall your operating system, drivers and/or HP utilities.

Full Recovery of Preloaded Software

Two steps to carry out a complete reinstallation of all preloaded software on your PC:

- 1 Use the *Image Creation and Recovery CD-ROM* to restore the operating system (and HP disk partition). Refer to the documentation on the *Image Creation and Recovery CD-ROM* for details
- 2 When the OS is reinstalled and running, use the *Image Library and Diagnostics CD-ROM* to reinstall the specific drivers, HP applications and utilities.

What is the Image Library & Diagnostics System CD-ROM?

The Image Library & Diagnostics (ILD) System CD is a CD-ROM that contains drivers and HP utilities for HP PCs. The drivers and utilities are packaged to enable you to perform automatic installations on local PCs. A friendly user-interface simplifies this process.

The ILD CD-ROM also contains a diagnostic package called HP e-DiagTools for hardware diagnostics. You can run it by booting your PC from the CD to perform hardware diagnostics.

This User's Guide describes the Image Library section of the ILD CD-ROM, and the User Interface, and explains how to use it to select and load software.

In addition, start-up notes on e-DiagTools are included to make clear the operation of the CD. HP e-DiagTools are fully documented elsewhere.

HP PC Image Engineer Products

The Image Library & Diagnostic CD is one part of HP PC Image Engineer solutions. The HP PC Image Engineer suit comprises these products:

- Image Creation and Recovery CD-ROM
- Image Library (Administrator version) CD-ROM
- Image Library and Diagnostics System CD-ROM
- Image Transition Tool

Image Creation and Recovery CD-ROM

This CD-ROM is provided with most new HP PCs. It contains on-line documentation fully explaining its use. With the latest, full-featured version, you can:

- Recover the operating system
- Set disk partitioning parameters
- Upgrade or downgrade the operating system (to the alternative provided on the CD-ROMs)
- Browse the operating system master files

The ICR CD-ROM can be used in cases where you must reinstall your operating system and other software, after reformatting your hard disk. This may be useful when you can not guarantee the integrity of you software, for instance due to virus infection.

Image Library and Diagnostics System CD-ROM

This CD-ROM is the subject of the present Guide. It is included with your PC for most models and language versions. The ILD CD-ROM is used to carry out automated software recovery and/or diagnostics on single PCs:

- Recover all drivers, applications and HP utilities
- Recover individual drivers
- Run HP e-DiagTools, the hardware diagnostics utilities

Image Transition Tool

The Image Transition Tool is a CD-ROM software utility to help you adapt an existing PC's disk image to a new HP PC. Check availability with your HP supplier, or on HP websites.

Image Library (Administrator version) CD-ROM

This is a full 'Administrator Version' of the Image Library, and is intended for MIS, IT, or system administration personnel. The administrator version will perform automatic installations on local PCs, and additionally provides software packages in other formats, so that a server may be updated to perform remote installation using your own deployment or maintenance solution, Microsoft SMS2.0, or HP TopTools. For detailed information on this package, refer to the *Image Library: System Administrator's Guide* on the Image Library Administrator Version CD-ROM.

When should I use Image Library (Administrator version)?

The Image Library (Administrator version) CD-ROM is for use in the following cases only:

- with SMS 2.0 for installation of SMS packages,
- with a compatible proprietary loader to install the Automatic Packages,
- with TopTools for maintenance (only) using the TopTools Driver Update Packages

In any other situation, the Image Library and Diagnosis System CD-ROM provides the correct version of Image Library.

NOTE

Not all the Image Engineer products are packaged with each PC.

NOTE

The range of language versions available may vary between tools.

Running Image Library from the CD-ROM

To run Image Library from the HP Image Library & Diagnostics System CD, insert the CD-ROM in your optical drive while your Windows operating system is running. The user interface will start automatically (if not, check that the 'AutoPlay' CD function is enabled).

Alternatively, you may run the Image Library manually by clicking on Start and selecting the option Run. Then Enter the command:

D:\FrontPanel

where '**D:**' defines your optical drive location.

For details, see "Starting and Using the User Interface" on page 22 of this Guide.

Running e-Diag Tools from the CD-ROM

To run e-DiagTools from your HP Image Library & Diagnostics CD, follow this procedure:

- 1 Insert the CD-ROM in your optical drive
- 2 Shut down the operating system and restart your computer
- 3 Ensure that the CD-ROM drive is configured in the BIOS to be the first device to boot from. Set the BIOS attribute 'PNP OS' to the option 'No'
- 4 The PC boots from the CD-ROM. The programs on the CD-ROM will automatically determine the appropriate version of e-DiagTools to run and the main Diagnostics menu of the CD-ROM appears.

Select the option to run the hardware diagnostics. This will open e-DiagTools.

NOTE

The main Diagnostics menu will only appear to the user when the CD-ROM is used to boot the PC, as described above. The Diagnostics tools are not accessible from Image Library menu options under Windows.

Getting Started

This Chapter describes the Image Library & Diagnostics System CD-ROM and its contents, and how to start using it.

2 Getting Started

The Image Library & Diagnostics System CD-ROM

The Image Library & Diagnostics System CD-ROM

Image Library Contents

The drivers and HP software utilities comprising the Image Library are provided in the form of automatic packages.

An Automatic installation package is an executable file that installs a software component automatically, without the need for user intervention. The automatic packages in the Image Library & Diagnostics CD-ROM are suitable for performing a local installation.

Each automatic package consists of a single executable file ***.exe**, and a information file ***.ini**, plus an explanatory file ***.htm**.

Each ***.exe** file is executable alone, without the support of the other files. This permits installation of the driver by hand, simply by launching the executable file.

List of Components and Version Numbers	To view a complete list of components available on the Image Library & Diagnostics CD, including the version number of each component, select the option 'Quick Tour' on the opening screen of the Image Library user interface.
Detailed Information on CD Contents	For detailed information about each automatic package, such as notes, version numbers, and supported platforms, use the Properties Button on the user interface Component Selection screen.

Directory Structure

NOTE

The CD directory structure is described here to help you understand the Image Library's layout and contents. However, the exact layout may differ from the one shown.

Each subdirectory level corresponds to a classification criteria.

Level	1	2	3	4	5
Subdirectory	\Operating System	\Driver or \Utility	\Type	\Vendor	\HPVersion
Example or possible values	NT4 W9x W2000	Driver Utility	Audio, Video, IDE	HP, 3COM, Intel, Symbios	SAMP003
Examples	NT4\Driver\LAN\3COM\3c5020				

Language Versions

The User Interface is in the English language during an initial period.

The Image Library application supports all the Operating System languages which are supported by the Image Creation and Recovery CD-ROM.

System Requirements

The Image Library & Diagnostics CD-ROM is available for these HP PCs:

- HP Vectra VL400
- HP e-Vectra

The *Quick Tour* included on the Image Library, in the section *System Requirements*, lists Image Library and Operating System compatibility.

- Windows NT 4.0, SP4, SP5 or SP6a
- Windows 95 SR2.5 (for Vectra VL400 only)
- Windows 98 Second Edition
- Windows 2000 Gold.

Administrator Rights

For PCs running Windows NT 4 or Windows 2000 you must have administrator rights in order to install drivers.

Operating System Installation

Vanilla Operating System

A 'Vanilla Operating System' must be installed before you can carry out the automatic installation of drivers and HP utilities described in Chapter 3.

The 'Vanilla' OS consists of a version of your Microsoft OS with the minimum set of default drivers required for the PC to operate. Installation of the Vanilla Operating System is described below.

To prepare your PC for the installation of drivers and HP utilities, we recommend you use the *Image Creation and Recovery CD-ROM* that came with your PC. Simply start the CD-ROM and follow the step by step guide.

The ICR CD-ROM includes options to recreate the special HP Utility Partition on your hard-disk and reinstall the operating system ready for the use of ILD CD.

You may choose instead, to reinstall your operating system using the Microsoft Operating System CD. However, if you reinstall in this manner, the HP Utility Partition will not be created.

Preparation

To prepare for use of the Image Library on the *Image Library and Diagnostics System CD-ROM*:

- 1 Start with a blank, formatted hard disk.
- 2 Using either the HP Image Creation and Recovery CD-ROM, or the appropriate Microsoft Operating System CD, install one of the following operating systems:
 - Windows NT 4.0 SP4, SP5 or SP6a
 - Windows 95 SR2.5 (not preinstalled for e-Vectra)
 - Windows 98 Second Edition
 - Windows 2000

2 Getting Started

Operating System Installation

- 3 Copy the directory from your CD to the directory on your hard disc as follows:

Using this installation CD	Installing this Operating System	Copy this directory from the CD	To this directory on your PC Hard Disk
HP Image Creation and Recovery CD	Windows NT4	windows_NT	C:\i386
	Windows 2000	windows_2000	C:\i386
	Windows 98	windows_95	\Windows\Options\Cabs
	Windows 95	windows_98	\Windows\Options\Cabs
The appropriate Microsoft Operating System CD	Windows NT4	\i386	C:\i386
	Windows 2000	\i386	C:\i386
	Windows 98	\win98	\Windows\Options\Cabs
	Windows 95	\win95	\Windows\Options\Cabs

3 (a) **If you are using the Microsoft OS (install) CD:**

If you installed Windows NT 4.0 or Windows 2000, copy the entire **\i386** directory from the operating system CD to the hard disk.

If you installed Windows 95 create the **\Windows\Options\Cabs** directory on the hard disk, then copy the contents of the **\Win95** directory from the operating system CD to this new directory.

If you installed Windows 98, create the **\Windows\Options\Cabs** directory on the hard disk, then copy the contents of the **\Win98** directory from the operating system CD to this new directory.

3 (b) **If you are using the HP Image Creation and Recovery CD:**

If you installed Windows NT 4.0 or Windows 2000, copy the entire **windows_NT** or **windows_2000** directory from the ICR CD to the hard disk directory **C:\i386**.

If you installed Windows 95 create the **\Windows\Options\Cabs** directory on the hard disk, then copy the contents of the **windows_95** or **windows_98** directory from the ICR CD to this new directory.

If you installed Windows 98, create the `\Windows\Options\Cabs` directory on the hard disk, then copy the contents of the `windows_98` directory from the ICR CD to this new directory.

- 4 If you do not copy the operating system setup files to the hard disk as described above, you will be prompted to insert the operating system CD when using the Image Library.

No other software should be installed and no other operations should be performed on the PC. until the reinstallation process is complete.

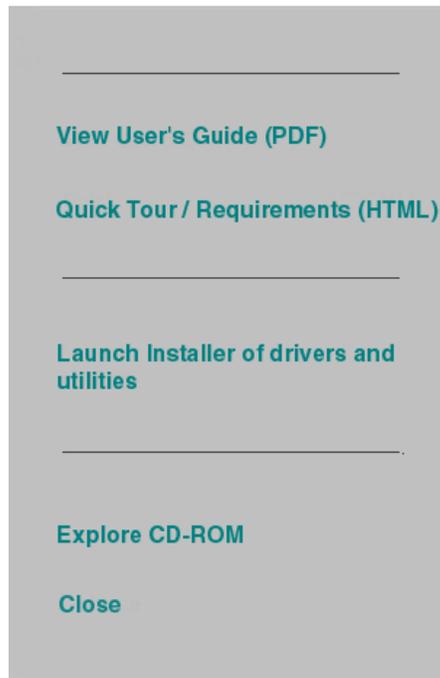
2 Getting Started

Starting and Using the User Interface

Starting and Using the User Interface

Before using the Image Library & Diagnostics CD, check the system requirements as detailed above (page 18) to ensure that the PC is compatible with the version of CD you are using.

- 1 The user interface will start automatically when the CD is inserted in the PC (if the OS 'AutoPlay' function is enabled). You may also launch the interface manually by clicking **Start** ⇒ **Run** and entering the command: **FrontPanel**



The welcome screen appears, showing an Image library logo plus the options shown here:

- **View User's Guide:** the *Image Library & Diagnostics, User's Guide* (this manual) which requires Adobe Acrobat Reader
- **Quick Tour / Requirements:** the HTML-format quick guide to ILD
- **Launch installer of drivers and utilities:** to launch the automatic installation of drivers and utilities on a local PC
- **Explore CD-ROM:** view the structure and contents of this CD.

- 2 To continue the installation, highlight and click the option **Launch installer of drivers and utilities**. This opens the main Image Library utility. This process is described in the following Chapter (Chapter 3, Local Automatic Installation).

Installing Drivers and Utilities Automatically

This Chapter describes the automatic installation of drivers and utilities on your PC.

3 Installing Drivers and Utilities Automatically

How to Perform a Recovery of Drivers and Utilities

How to Perform a Recovery of Drivers and Utilities

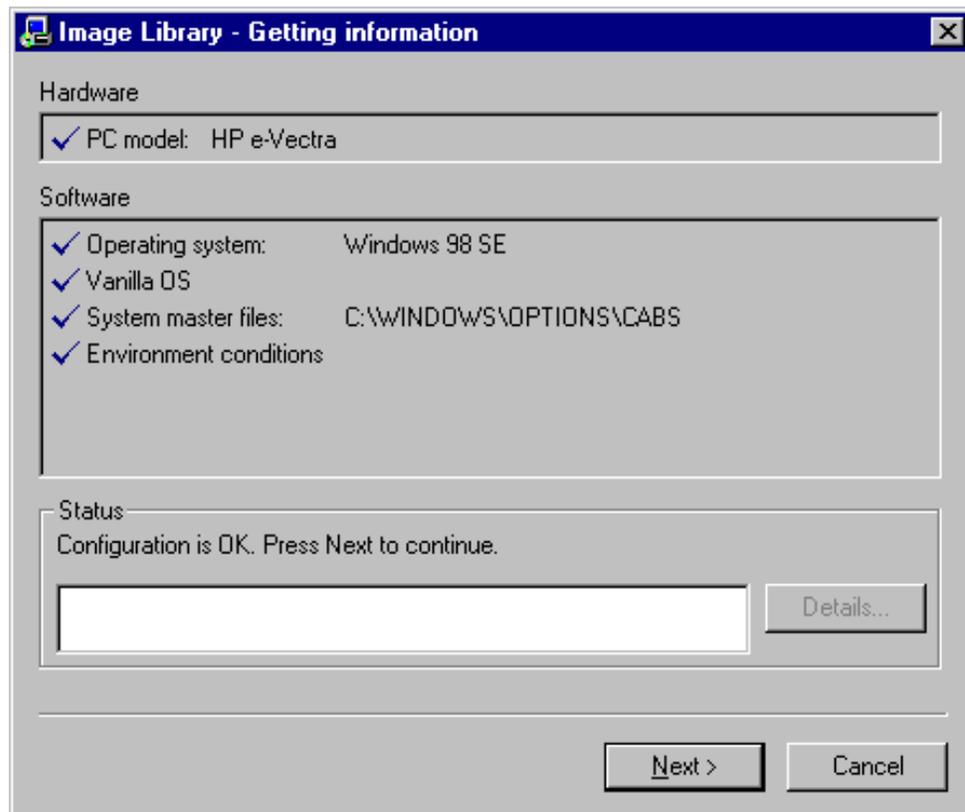
- 1 Insert the Image Library & Diagnostics CD in the target PC. The user interface is launched automatically by the 'CD autoplay' function and the welcome screen opens.

You may also start the user interface manually by clicking **Start** ⇒ **Run** and then entering the command:

FrontPanel

The Welcome Screen is shown on page 22 of this Guide.

- 2 At the Welcome Screen, move the mouse pointer onto the option '**Launch installer of drivers and utilities**' to highlight the text, and click to select. The Image Library configuration check screen will appear as shown here:



3 Installing Drivers and Utilities Automatically

How to Perform a Recovery of Drivers and Utilities

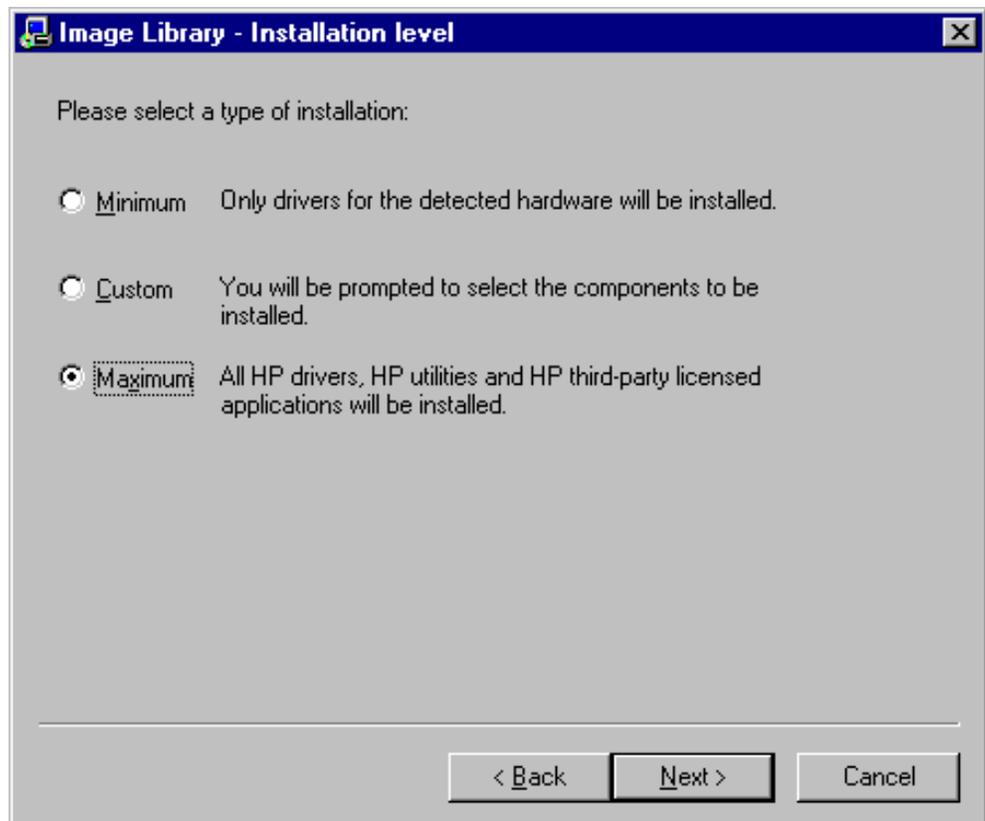
The Image Library program carries out an automatic verification of the PC type and configuration. A check mark appears next to each element in the list as it is confirmed.

If a problem is found during the configuration check, Image Library will return a Warning or Error status message explaining the problem. In this case, click on the Details button for further information.

Often, warnings are for your information and are not error reports; these may be ignored at your discretion.

- 3 When Image Library reports that the configuration check has been carried out successfully, click on the button **Next** to continue the installation process.

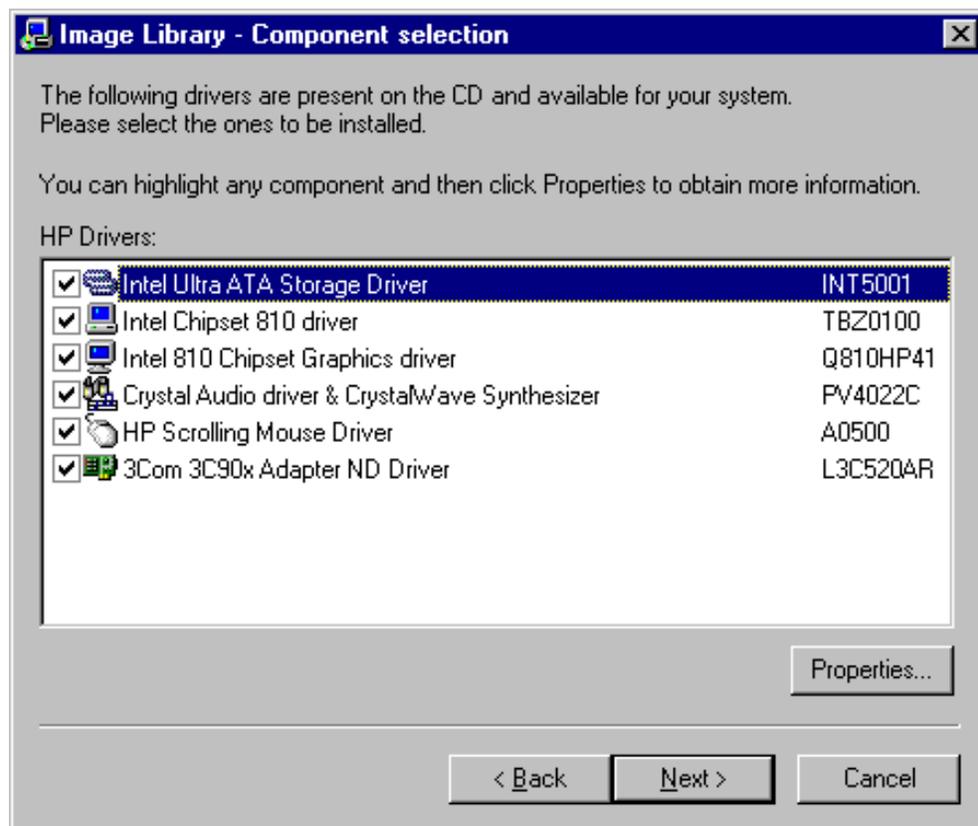
You will be asked what level of installation you wish to use:



3 Installing Drivers and Utilities Automatically

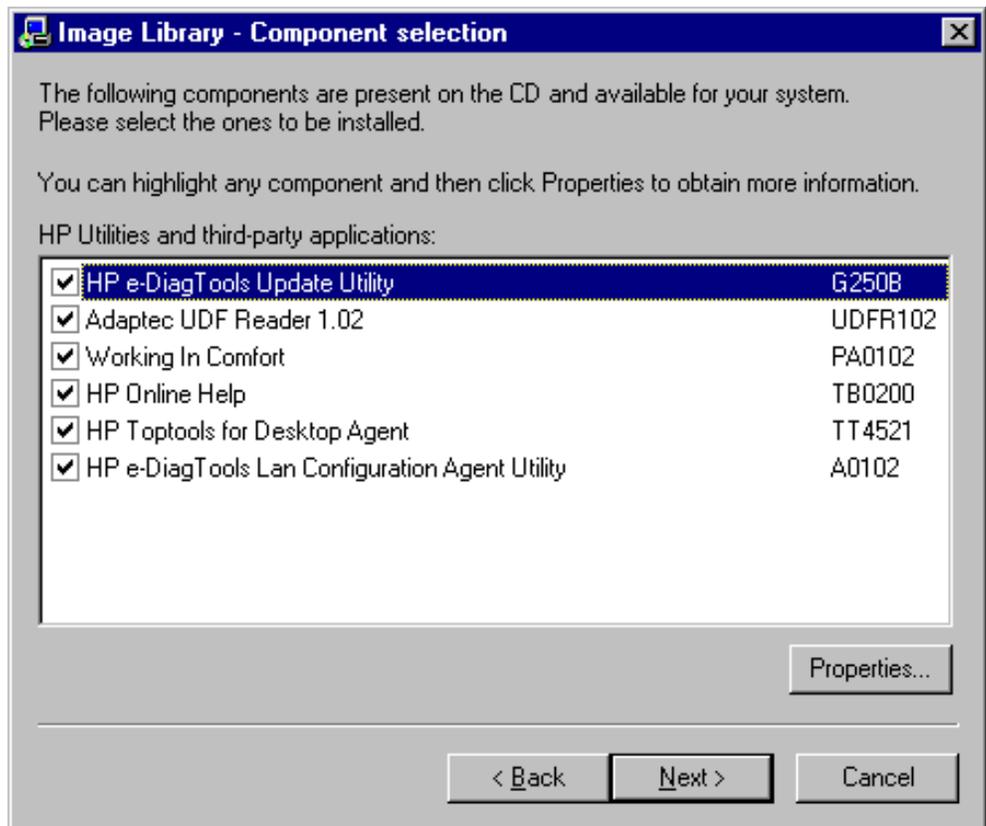
How to Perform a Recovery of Drivers and Utilities

- **Minimum:** Only drivers for the detected hardware will be installed (no utilities are installed).
 - **Custom:** You will be prompted to select the components to be installed. Choose this option to recover an individual driver.
 - **Maximum** (the default option): All HP drivers, HP utilities and HP 3d-party licensed applications will be installed. Select this option to perform a full recovery of software as delivered originally by HP.
- 4 Click on the desired installation option and then on **Next**.
- If you choose the option **Custom**, you will now see a complete list of the HP drivers suitable for your configuration, for selection of those you wish to install.



- 5 Click on a component check-box to select the corresponding driver for installation. You can also highlight any component and select by clicking on the line, then click **Properties** to see more information about it.

Carry out the same procedure for HP Utilities and third party applications.



You may select individual drivers and utilities, or you may select all the listed drivers and utilities. It may be useful to select all components to ensure that all necessary drivers are installed. If more than one driver exists for a single component, such as a LAN card, an automatic selection is made based on the PC's configuration, and only the appropriate driver will be installed.

If a component that you have selected requires the installation of an additional component, you will be notified of this and asked to confirm that both components should be installed

3 Installing Drivers and Utilities Automatically

How to Perform a Recovery of Drivers and Utilities

- 6 When you have chosen all the components you wish to install, (check that your selection is complete) click **Next** to launch the actual installation process.

All the selected drivers and utilities are installed automatically. No user intervention is required during this process. The status of each component installation is shown.

NOTE

If the Windows NT 4.0 Service Pack 6 setup file is detected, you will be prompted to reinstall the Service Pack. A series of screens will guide you through this process.

NOTE

To install certain drivers, it may be necessary for the PC to carry out an intermediary automatic reboot before the end of the installation process. When this is necessary, you will be informed in the progress/status window. The installation process will continue automatically after the reboot.

NOTE

LAN Card Drivers and Network Protocols

When using the Image Library & Diagnostics CD to install LAN card drivers, the following network protocols are automatically installed for each operating system:

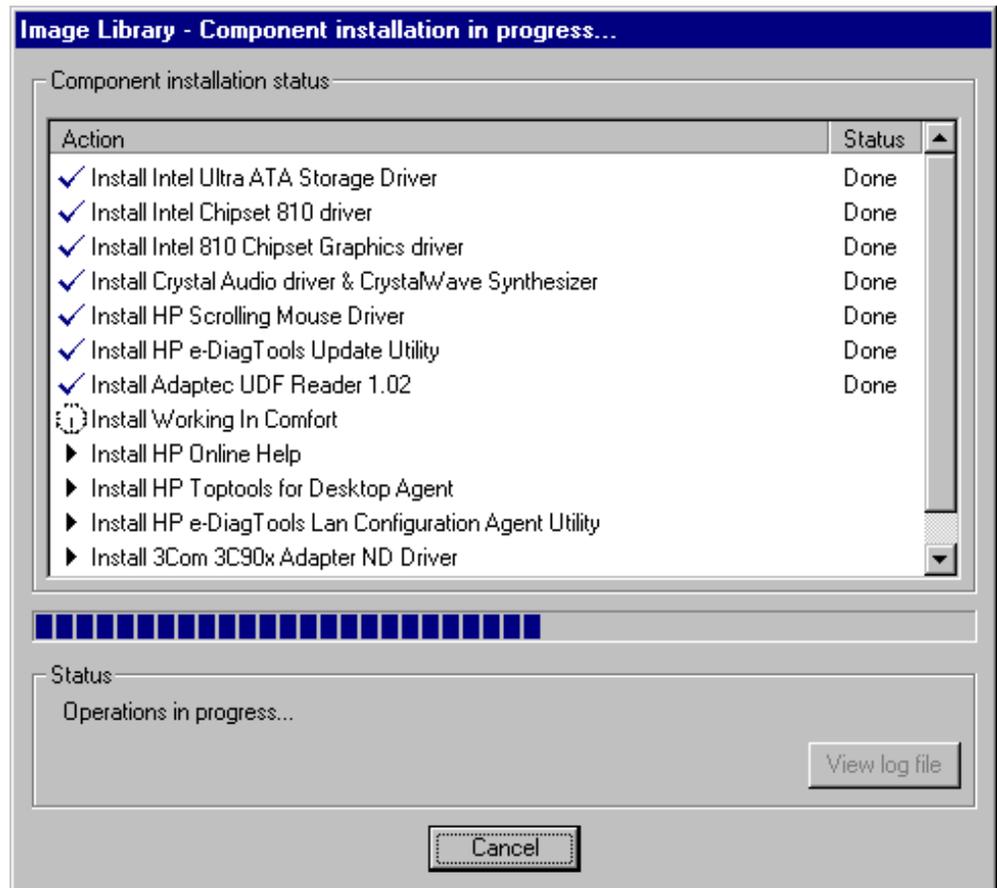
Windows 95: NetBEUI + IPX/SPX

Windows 98/2000: TCP/IP (DHCP)

Windows NT 4: NetBEUI.

When LAN drivers are installed, a random hostname is automatically generated to ensure that there is no conflict with any other PC on the network.

- 7 As the installation progresses, the status of each component installation is shown.



You can use the Status display to check the progress of the installation, and to verify that each component is correctly installed. Any installation problems will be listed here.

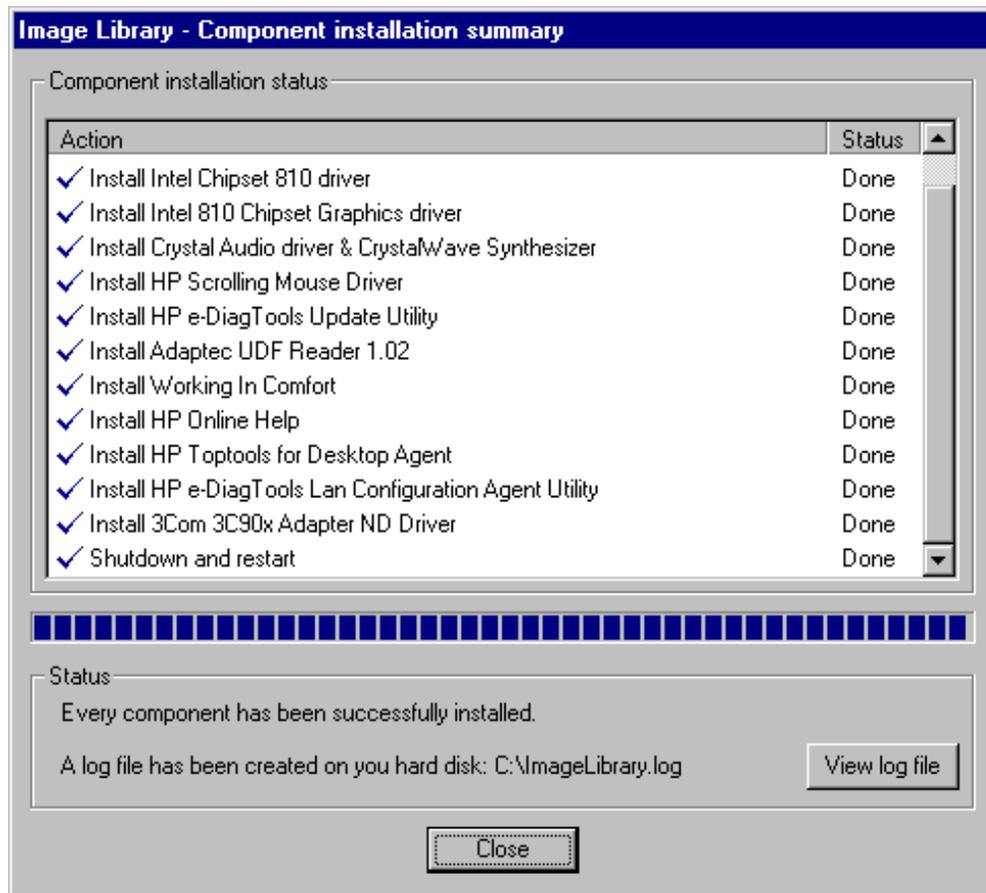
You may also Cancel the installation process from this screen.

CAUTION

Do not use the keyboard or mouse during the installation.

3 Installing Drivers and Utilities Automatically

How to Perform a Recovery of Drivers and Utilities

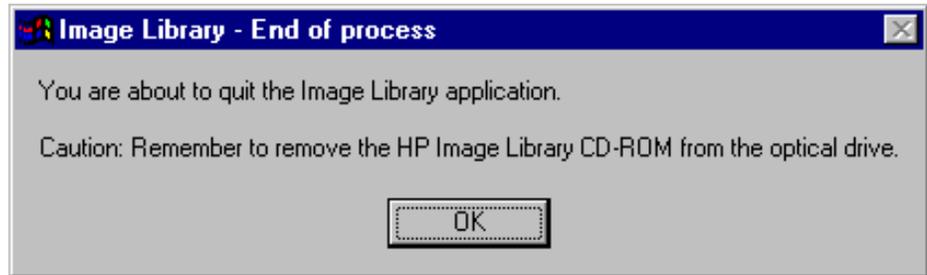


8 When you are satisfied the installation is correct, click on **Close** to continue.

If you experienced difficulties during the process, you can also use **View Log File** to check the current log file for more information.

9 To terminate the installation process, a popup window will appear containing a final Status message. If no further actions are required you will be invited to click 'OK' to exit the installation program.

If you have no further drivers or HP utilities to install, remove the CD from the drive so that the PC will reboot from the hard disk:



NOTE

Windows NT

If the Service Pack (SP6) has not been automatically reinstalled, Image Library will remind you at this point that you must re-apply the Service Pack manually.

Troubleshooting and Support

This Chapter contains support information for the HP Image Library.

Troubleshooting

- If you encountered any problems installing a component, you can try to install it manually using the installation files that were copied to the target PC's hard disk in the **\Masters** directory.
- If you encountered any problems installing the LAN driver, you must first remove the driver before trying to install it again. For example, to do this in Windows NT 4.0, click **Start** ⇒ **Settings** ⇒ **Control Panel**, double-click **Network**, click the **Adapters** tab, select the driver and click **Remove**.

Log file troubleshooting information

- After each component installation, the Image Library verifies that the component installed correctly. These results are written to a log file, which contains a complete trace of the installation process. Therefore, the log file should always be consulted for valuable troubleshooting information.

Obtaining the Latest Versions of Drivers and Utilities

Standard Format Updates

For the latest versions of drivers and utilities, in standard format for local installation, consult HP's Vectra PC support web sites. Use the HP web site guide for the latest addresses and content of web pages.

HP web site: **www.hp.com/go/vectrasupport**

Additional Information and Support

Online Documentation

The Image Library and Diagnostics System CD-ROM contains this manual in PDF (Adobe Acrobat) format, located at **\Imagelibrary.PDF**.

Support

Support for this product is provided by your HP-Authorized Support Provider or Hewlett Packard. For information about HP Customer Care, connect to **www.hp.com/go/support** and click **Assistance**.

PC Documentation

HP's support web sites **www.hp.com/go/vectrasupport** and **www.hp.com/go/kayaksupport** contain numerous manuals (in PDF format) for HP PCs, as well technical tips and other information.

Legal Information

HP Software Warranty

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