



Installation of HP Web Jetadmin

Overview

This technical brief will discuss the process of installing, removing, and backing up HP Web Jetadmin. Setup of HP Web Jetadmin is easier than ever with the introduction of a new Setup Wizard. Complete installation steps will be examined, as well as migration issues that may be encountered when upgrading from previous versions of HP Web Jetadmin.

Pre-Installation

HP Web Jetadmin is a powerful network printer management, configuration, and installation tool. Every network is different, and proper implementation planning is essential prior to installation to ensure that HP Web Jetadmin is performing at the highest efficiency possible. Items to consider during implementation planning include:

- Number of HP Web Jetadmin server installations
- PC hardware for servers
- Number of client machines
- Number of printers
- Location of printers
- Network topology
- HP Web Jetadmin discovery techniques

These topics are discussed at greater length in the technical brief titled "Optimization of HP Web Jetadmin".

Installation

Installation of HP Web Jetadmin is a quick and easy task, with several options to consider during the process. A new Setup Wizard is also installed in HP Web Jetadmin that provides the option to setup crucial configuration items the very first time HP Web Jetadmin is launched.

Once the HP Web Jetadmin executable file is downloaded from the HP web, running this file starts the installation process. The installer will confirm that HP Web Jetadmin will be

installed on the machine (see Figure 1).

Following the license agreement, if the HP Web Jetadmin installer detects a previous version of HP Web Jetadmin is installed, it will offer the ability to upgrade the previous version or install a new copy (see Figure 2). An upgrade from an older version of HP Web Jetadmin to the latest version will preserve settings for discovery options, groups, maps, etc. This is important since the effort involved in creating these items may have been significant in the past. However, safety precautions can be made by backing up key files from the previous install before proceeding with a new installation. The next section will discuss backup in more detail.

In fact, if *New Installation* is chosen as the install method, HP Web Jetadmin offers the ability to automatically backup all files from a previous installation during the installation of the new version. If this option is selected, the entire file structure from the previous HP Web Jetadmin version is copied to the following

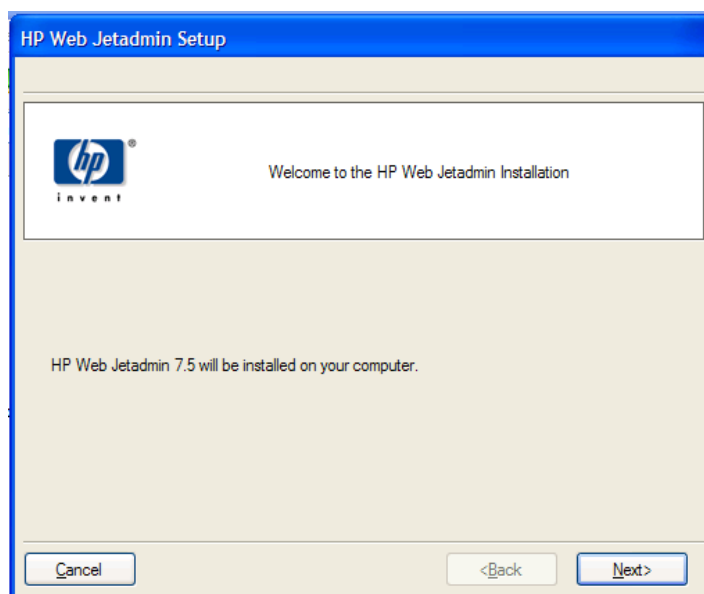


Figure 1

HP Web Jetadmin Installation

subdirectory:

```
\Program Files\HP Web
JetAdmin\safety.
```

The backup directory structure is not configurable.

Note: Previous settings are not copied over if *New Installation* is chosen. All previous settings will be lost, however, the backup option would preserve the files that contained those settings if restoration is required.

The HP Web Jetadmin installer will detect any of the following parameters from a previous installation or will allow for defining them on new installations (see Figure 3):

- Computer hostname
- Port number
- Installation directory
- Program group

Whether a new installation or an upgrade from a previous version, the HP Web Jetadmin installer will request that a password be set for any existing profiles whereby a password has not been previously set. This measure is taken for security reasons to deter unwanted access to the HP Web Jetadmin installation.

When the installation process begins to copy files, a progress bar will appear to indicate approximately how long the installation will take to complete. Upgrades typically will take longer to complete than new installations due to the settings that must be copied from the old version to the new version.

Once the installation is complete, a success screen will be posted to instruct users how to launch HP Web Jetadmin (see Figure 5). An opportunity is also provided to view the Readme file if desired for

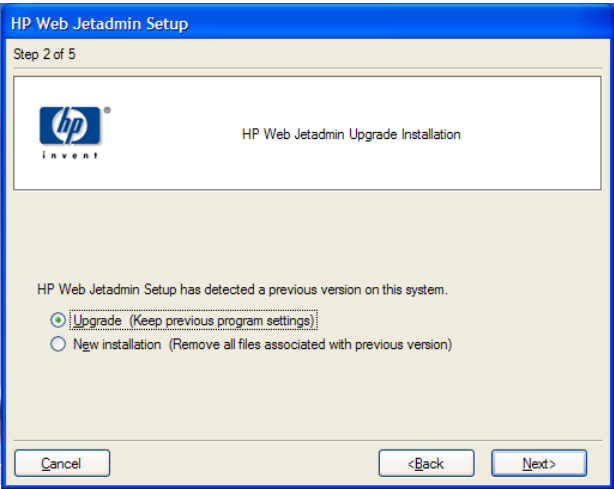


Figure 2

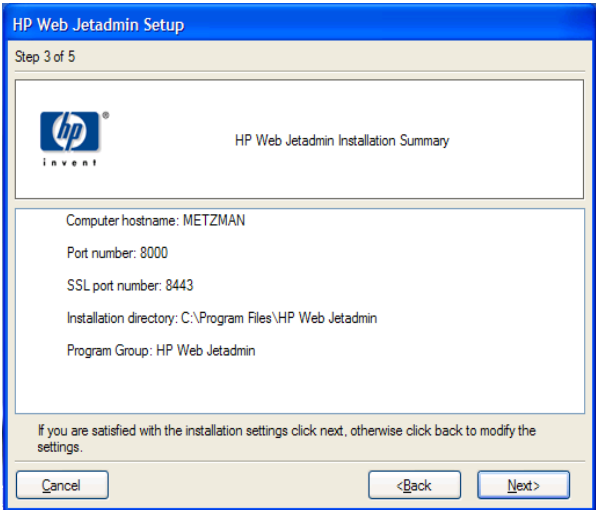


Figure 3

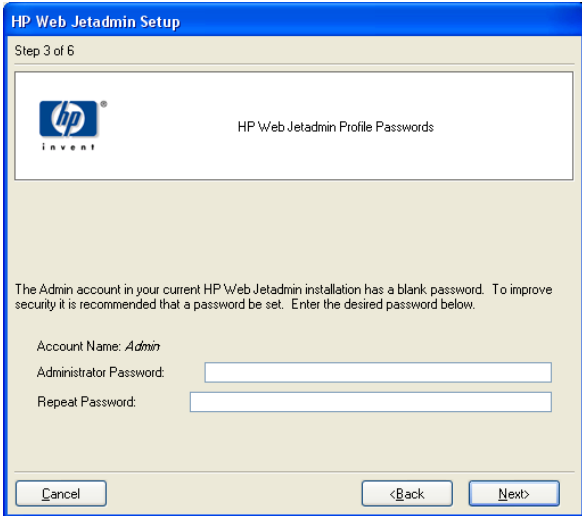


Figure 4

HP Web Jetadmin Installation

information pertaining to the new release such as new features, etc.

As indicated on screen, HP Web Jetadmin can be launched from a supported browser by entering the hostname or IP address of the machine followed by the port number. The typical default port number for web services is a value of 80. Since HP Web Jetadmin may be running alongside another web service on the same machine, HP Web Jetadmin uses a port number of 8000, which redirects to port 8443 with SSL enabled, which it is by default. If desired, the port 8000 can be changed to any desired value. No matter what the default port number, if SSL is enabled, a redirection will occur to port 8443 whenever the default port number is attempted.

Since SSL (Secure Sockets Layer) is enabled by default to provide encryption when sending data over HTTP, a *Security Alert* window will appear the first time HP Web Jetadmin is launched to warn about the certificate in use (see Figure 6).

Additionally, since the SUN JRE (Java Runtime Environment) is required to browse HP Web Jetadmin, another Security Warning window will appear the first time HP Web Jetadmin is launched to warn that the SUN Java files that will be loaded are not well known and asks if they are to be trusted (see Figure 7).

Log File

The HP Web Jetadmin installer writes the details of an installation to a log file (*wjinstall.log*) for troubleshooting purposes. The log file is typically written to the \Program Files\HP Web Jetadmin subdirectory. However, if the install fails, the file may be located in the temp directory.

Another log file (hpjfpn.log), found under the Windows subdirectory,

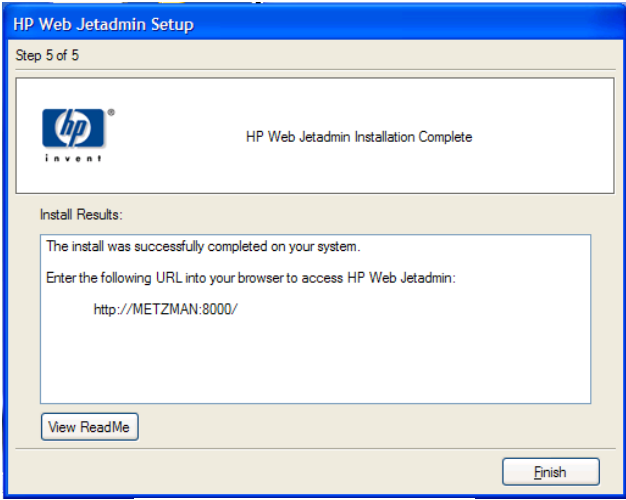


Figure 5



Figure 6



Figure 7

contains additional troubleshooting clues if need be. It tracks all commands carried out by the HP Web Jetadmin package manager.

Command Line Install

The HP Web Jetadmin installer also offers the ability to perform a command line installation. Type "Setup -h" from the \Program Files\HP Web Jetadmin subdirectory for more details

Setup Wizard

The first time HP Web Jetadmin is launched after installation, a Setup Wizard is offered to assist in configuring HP Web Jetadmin properly to execute certain features such as alerts, profiles, etc.

The first screen in the Setup Wizard offers the choice to enable or disable particular topics offered by the Setup Wizard. It also provides the option to hide the page from appearing during future accesses of HP Web Jetadmin.

The Setup Wizard can be made to reappear by editing the framework.ini file located under the following subdirectory:

\Program Files\HP Web Jetadmin\doc\plugins\framework

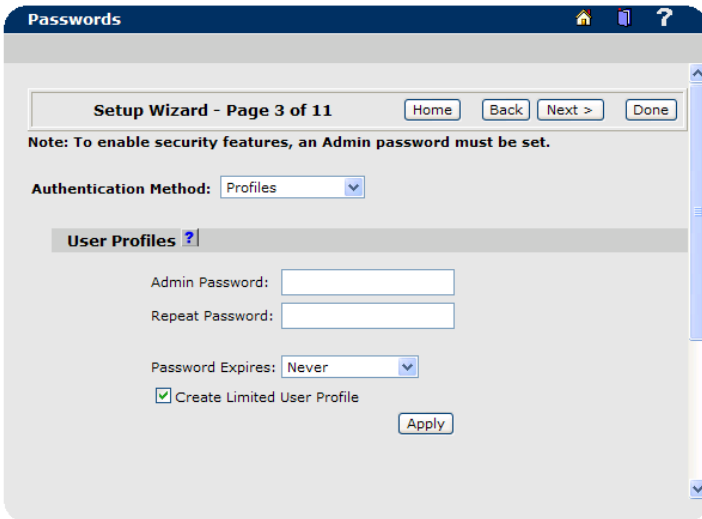
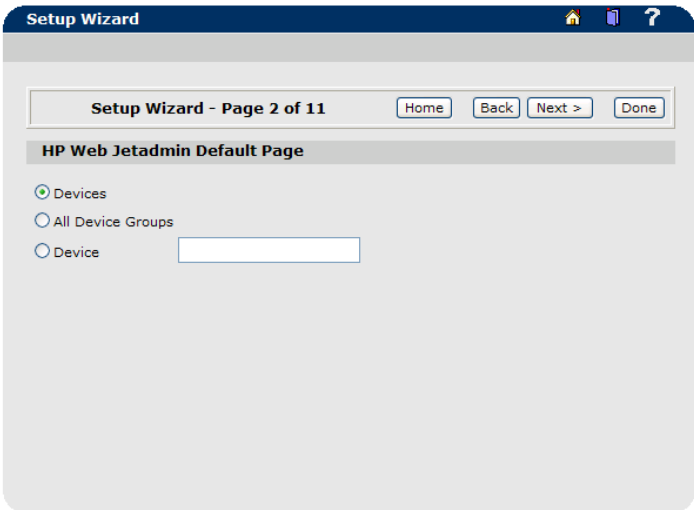
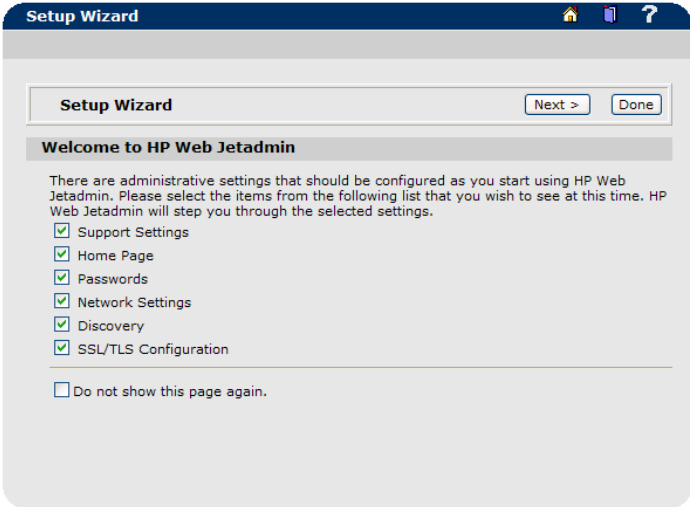
Delete the line

```
ignoresetup=true
```

from the framework.ini file.

The Setup Wizard allows for customization of the appearance of HP Web Jetadmin, such as the ability to define what type of page appears by default when browsing to HP Web Jetadmin.

Security options are offered such as defining the Administrator password and configuring ranges of IP address





invent

HP

Web Jetadmin

Installation

to be allowed or denied access to HP Web Jetadmin.

Proxy settings can be defined to allow HP Web Jetadmin the ability to download files from the Web on-the-fly, such as firmware upgrades and device plug-ins.

In order for HP Web Jetadmin to send alert e-mail messages when events occur on devices, an SMTP mail server must be configured. The Setup Wizard provides the ability to define the SMTP server settings.

HP Web Jetadmin offers a multitude of discovery options from which to choose to ensure an accurate and thorough list of devices is available for managing. These options can be enabled during the Setup Wizard as well.

Back Up

While any previous groups, maps, etc. will not be deleted during an upgrade from an older version of HP Web Jetadmin to a newer version, it is still wise to back up this information in case any problems arise either during a migration or just during general operation.

Some HP Web Jetadmin items such as groups, profiles, maps, and file specified discovery typically contain changes from the original installation of HP Web Jetadmin. These changes may have required a significant amount of time and effort on the part of the administrator. Backing them up on a regular basis is an excellent precaution. For example, the following occurrences could cause these files to be corrupted or deleted:

- disk crash
- uninstallation of Web Jetadmin
- accidental deletion
- machine crash while files are open or in use

Setup Wizard - Page 4 of 11

Home Back Next > Done

HTTP Proxy Settings ?

Allow HTTP Downloads

Provide Hewlett-Packard with additional information on HP Web Jetadmin installation information
[Click here to view HP's privacy policy](#)

Setup Wizard - Page 6 of 11

Home Back Next > Done

Configure SMTP Server

SMTP Server:

Apply

Setup Wizard - Page 7 of 11

Home Back Next > Done

To find devices on your network:

1. Select the necessary discovery mechanisms and click 'Apply'.
2. Click 'Start' to accept the settings and start a discovery.
3. Click 'Next' to proceed without doing a discovery. (WARNING--Only devices manually entered in the Device Quick Search or found by the passive listen methods will show up in device searches.)

Discovery Method Selection

IP Broadcast ?	<input type="checkbox"/>
Multicast/SLP (Service Location Protocol) ?	<input type="checkbox"/>
ARP Table ?	<input type="checkbox"/>
Specified Addresses ?	<input type="checkbox"/>
→ IP Range ?	<input checked="" type="checkbox"/>
Other installations of HP Web Jetadmin ?	<input type="checkbox"/>
Remote Discovery Agent ?	<input type="checkbox"/>
Listen For New Devices - SLP ?	<input type="checkbox"/>
Listen For New Devices - BOOTP ?	<input type="checkbox"/>

Apply

Start Background Discovery: ? Start



invent

HP Web Jetadmin	
\Program Files\HP Web Jetadmin\ *.dat discovery database files *.ini configuration settings for discovery, groups, appearance, passwords, maps, etc.	
\Program Files\HP Web Jetadmin\doc\plugins\hpjwa\ *.ini configuration settings for discovery, groups, appearance, passwords, maps, interim page count settings, etc. hpaltmsg*.txt alerts text files	
\Program Files\HP Web Jetadmin\doc\plugins\framework\ framework.ini stores profiles information	
\Program Files\HP Web Jetadmin\doc\plugins\hpjalerts\ *.ini alerts settings *.txt alerts message files	
\Program Files\HP Web Jetadmin\doc\plugins\hpjwa\firmware\jetdirect\ ** (all files) HP JetDirect firmware images that have been downloaded from the web	
\Program Files\HP Web Jetadmin\doc\plugins\hpjwa\firmware\printers\ ** (all files) HP printer firmware images that have been downloaded from the web	
\Program Files\HP Web Jetadmin\doc\uploads\ ** (all files) uploaded files such as maps	

Figure 8

Figure 8 contains the recommended files for backup of HP Web Jetadmin. Previous versions of HP Web Jetadmin may have a slightly different subdirectory structure, but the file names themselves have remained consistent since the HP Web Jetadmin 6.0 version.

Script files could also be created for automating the process of backing up and restoring the current HP Web Jetadmin files. Examples of such script files are at the end of this document.

HP Web Jetadmin also installs a port monitor called the HP Standard TCP/IP Port Monitor during print path

creation under Windows NT/2000/XP. Each time a print path is created, a registry entry is also created. The following registry entries for the HP Standard TCP/IP Ports should be backed up on a regular basis:

- HKEY_Local_Machine\System\CurrentControlSet\Control\Print\Monitors\HP Standard TCP/IP Port

These registry entries would not be removed if HP Web Jetadmin were to be removed. However, it would be beneficial to back them up in case of accidental deletion or corruption, especially since they may have taken

a substantial amount of time to create.

There are other registry entries for HP Web Jetadmin. However, they do not change after installation, and could be easily replaced with another installation.

Uninstallation

Selecting the "UNINSTALL HP Web Jetadmin" item from the Start Menu will remove HP Web Jetadmin from a particular machine. Two choices for uninstallation are available:

- Standard
- Complete

For the Standard option, some key components will remain in case the intent was to re-install HP Web Jetadmin. Items that remain include user defined groups, maps, etc.

The Complete option will completely remove all files, services, and registry entries related to HP Web Jetadmin. In case manual removal is required or desired, the following subdirectories, and files contained within can be deleted to completely remove HP Web Jetadmin:

- \Program Files\HP Web Jetadmin
- \Program Files\HP Remote Discovery Agent
- \Program Files\HP Web Print Server Manager

Registry entries to remove include:

- HKEY_LOCAL_MACHINE\Software\Hewlett-Packard\HP Web Jetadmin
- HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\HPWebPSManager
- HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\HPRemDiscAgent

- HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\HPWebPkgMgr

Linux does not build program links on the Linux desktop or in the Linux program menu. Therefore, there is no uninstall option in the program menu for Web Jetadmin installed in Linux as there is in Windows.

To uninstall HP Web Jetadmin from a Linux machine, use the command:

```
/opt/hpwebjet/setup -r
```

at the Linux command prompt to uninstall Web Jetadmin for Linux.

Summary

Proper planning can be a critical component of installing a printer management tool such as HP Web Jetadmin. There are many installation issues to consider, including the number of HP Web Jetadmin servers. It is important to understand what happens when migrating from older versions of HP Web Jetadmin to newer versions. Proper techniques for backing up HP Web Jetadmin are equally important to prepare for any unforeseen circumstances. Finally, for cases where the desire is to completely remove HP Web Jetadmin, detailed instructions have been included in this technical brief.

```
cd \
set WJA_Root="c:\program files\Hp web jetadmin"
mkdir webjetbackA
mkdir webjetbackA\new
mkdir webjetbackA\new\doc
set wjb="c:\webjetbackA\new\doc"
set hpjwja="c:\webjetbackA\new\doc\plugins\hpjwja"
set hpjalt="c:\webjetbackA\new\doc\plugins\hpjalerts"
mkdir %wjb%\plugins
mkdir %wjb%\plugins\framework
mkdir %wjb%\uploads
mkdir %hpjwja%
mkdir %hpjalt%
mkdir %hpjalt%\config
set firm="c:\webjetbackA\new\doc\plugins\hpjwja\firmware"
mkdir %firm%
mkdir %firm%\jetdirect
mkdir %firm%\printer
set firm2="c:\program files\Hp web jetadmin\doc\plugins\hpjwja\firmware"
copy %WJA_Root%\*.ini c:\webjetbackA\new
copy %WJA_Root%\*.dat c:\webjetbackA\new
copy %WJA_Root%\doc\plugins\hpjwja\*.ini %hpjwja%
copy %wja_Root%\doc\plugins\hpjalerts\*.ini %hpjalt%
copy %wja_Root%\doc\plugins\hpjalerts\hpaltmsg*.txt %hpjalt%
copy %wja_Root%\doc\plugins\hpjalerts\config\snmp_device_list.xml
%hpjalt%\config
copy %WJA_Root%\doc\plugins\framework\*.ini %wjb%\plugins\framework
copy %WJA_Root%\doc\hosts.txt %wjb%
copy %firm2%\jetdirect\.* %firm%\jetdirect
copy %firm2%\printer\.* %firm%\printer
copy %WJA_Root%\doc\uploads\.* %wjb%\uploads

pause
```

Sample Web Jetadmin Backup Script File



i n v e n t

HP

Web Jetadmin

Installation

```
cd \  
set WJA_Root="c:\program files\Hp web jetadmin"  
set wjb="c:\webjetbackA\new\doc"  
set hpjwja="c:\webjetbackA\new\doc\plugins\hpjwja"  
set hpjalt="c:\webjetbackA\new\doc\plugins\hpjalerts"  
set firm="c:\webjetbackA\new\doc\plugins\hpjwja\firmware"  
set firm2="c:\program files\Hp web jetadmin\doc\plugins\hpjwja\firmware"  
  
mkdir %WJA_Root%\doc\plugins  
mkdir %WJA_Root%\doc\plugins\framework  
mkdir %WJA_Root%\doc\uploads  
mkdir %WJA_Root%\doc\plugins\hpjwja  
mkdir %WJA_Root%\doc\plugins\hpjalerts  
mkdir %WJA_Root%\doc\plugins\hpjalerts\config  
mkdir %firm2%  
mkdir %firm2%\jetdirect  
mkdir %firm2%\printer  
  
copy c:\webjetbackA\new\*.ini %WJA_Root%\  
copy c:\webjetbackA\new\*.dat %WJA_Root%\  
copy %hpjwja%\*.ini %WJA_Root%\doc\plugins\hpjwja\  
copy %hpjalt%\*.ini %wja_Root%\doc\plugins\hpjalerts\  
copy %hpjalt%\*.txt %wja_Root%\doc\plugins\hpjalerts\  
copy %hpjalt%\config\snmp_device_list.xml  
%wja_Root%\doc\plugins\hpjalerts\config\  
copy %wjb%\plugins\framework\*.ini %WJA_Root%\doc\plugins\framework\  
copy %wjb%\hosts.txt %WJA_Root%\doc\  
copy %firm%\Jetdirect\*. * %firm2%\jetdirect\  
copy %firm%\printer\*. * %firm2%\printer\  
copy %wjb%\uploads\*. * %WJA_Root%\doc\uploads\  
  
pause
```

Sample Web Jetadmin Restore Script File

Copyright May, 2004

Microsoft, Windows, and Windows NT/2000/XP are registered trademarks of Microsoft Corporation in the USA, and other countries. All other brand and product names are trademarks or registered trademarks of their respective companies. The information contained in this document is subject to change without notice. HP makes no warranty of any kind with respect to this information. HP specifically disclaims the implied warranty of merchantability and fitness for a particular purpose. HP shall not be liable for any direct, indirect, incidental, consequential, or other damage alleged in conjunction with the furnishing or use of this information.