

HP Enterprise Discovery

For the Windows® operating system

Software Version: 2.52

Release Notes

Manufacturing Part Number: None

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HP Enterprise Discovery

Release Notes

Software version: 2.52 / June 2008

This document provides an overview of the changes made to Enterprise Discovery for version 2.52. It contains important information not included in the manuals or in the online help.

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In This Version

Introduction

These release notes are for Enterprise Discovery 2.52. This new version of Enterprise Discovery is the upgrade path for users of Enterprise Discovery 2.5x, 2.2x and 2.1.x.

If you want to see what features have been introduced in previous versions of Enterprise Discovery (including versions 2.1.x, 2.2x, 2.50, and 2.51), you can read the *Release Notes* for those versions, available on your installation CD under `bin\documentation`.

License Schema

Each Enterprise Discovery server can collect data from a maximum of 50,000 inventoried devices and 60,000 discovered devices in total. The port limit is 150,000 ports (whichever comes first). An Enterprise Discovery Aggregator can support 50 servers and up to 500,000 devices.

The Automated Inventory license introduced in Enterprise Discovery 2.20 enables you to purchase inventory capability based on the number of devices that you expect to manage. This license replaces the Device Discovery and Device Inventory licenses provided in versions of Enterprise Discovery prior to 2.20. If you have purchased these two licenses for a previous version, you will have access to all features provided with the Automated Inventory license offered with version 2.52.

Updated third party components

- MySQL Enterprise 5.0.60-enterprise
- JRE 1.5.0_15

New Features

There are no new features in this release. This release contains bug fixes only.

Obsolete Features

All features in 2.51 are supported in release 2.52.

Documentation Updates

The first page of this release notes document contains the following identifying information:

- Version number, which indicates the software version.
- Publish date, which changes each time the document is updated.

To check for recent updates or to verify that you are using the most recent edition, visit the following URL:

<http://h20230.www2.hp.com/selfsolve/manuals/>

- 1 Uncheck **Show only my products** if checked.
- 2 In the Product list, click the product name (for example, Enterprise Discovery).
- 3 In the Version list, click the version number.
- 4 In the OS list, click the operating system type.
- 5 Click **Search**. A document list is displayed that matches your search criteria.
- 6 In the document list, click the document title. The document opens in your browser window.



To view files in PDF format (*.pdf), Adobe® Acrobat® Reader must be installed on your system. To download the Adobe Acrobat Reader, go to the following URL:

www.adobe.com

The following PDF documents are available in the Enterprise Discovery user interface:

- *Planning Guide*
- *Installation and Initial Setup Guide*
- *Configuration and Customization Guide*
- *Network Data Analysis Guide*
- *Scan Data Analysis Guide*
- *Reference Guide*

The *Reference Guide* has been reissued for release 2.52 because of updated copyright information.

One additional PDF file is available on the install CD at bin/documentation:

- *Legacy Scanners*

Installation Notes

Installation requirements and instructions for installing Enterprise Discovery are documented in the *Installation and Initial Setup Guide* provided in Adobe Acrobat (.pdf) format.

If you are upgrading from a previous version, you need to follow these steps:

1 If you have created your own User SAIs, make sure you back them up manually before uninstalling Enterprise Discovery. Refer to the “Upgrading from Enterprise Discovery Version 2.1.x or 2.20” section in the “Upgrade and Migration Scenarios” chapter in the *Installation and Initial Setup Guide* for details.

2 Save an external backup of your data, if necessary.

3 Uninstall the old version of Enterprise Discovery, using the Windows “Add/Remove Programs” feature. Depending on the version you are upgrading from, delete one of the following directories from the server:

Version 2.1.x: C:\Program Files\HP OpenView\Enterprise Discovery\2.1.*

Version 2.2x: C:\Program Files\HP OpenView\Enterprise Discovery\2.2*

Version 2.5x: C:\Program Files\Hewlett-Packard\Enterprise Discovery\2.5*

4 Reboot the server before you install the new version.

The uninstall will not delete the Enterprise Discovery Data directory. Rebooting the server will ensure that all parts of Enterprise Discovery are removed.

5 Install the new version and follow the steps in the *Installation and Initial Setup Guide*.

If you changed the default location of the Data directory when you installed a previous version, you need to ensure that you use the same location when you install the new version.



Perl, MySQL, Tomcat and Apache are standard parts of the Enterprise Discovery, included with each server installation. If you have these components installed already, make sure to remove them before installing Enterprise Discovery. You may NOT substitute any other technologies in place of the standard installation.

Software and Hardware Requirements

The Enterprise Discovery server can be installed on Windows 2003 Server, Service Pack 1 or Service Pack 2.

Enterprise Discovery must be installed on a local disk. It cannot be installed on network drives, SAN drives, or clustered devices. Enterprise Discovery has been tested in a RAID (redundant array of independent drives) level 0 and level 1 environment. As a result, it has been determined that it can be successfully installed in a RAID level 0 or level 1 environment.

RAID level 0 uses a striped disk array strategy that does not provide fault tolerance. Data striping spreads out blocks of each file across multiple disk drives. In our test environment we use 2 drives. This configuration does not provide for redundancy. It improves performance but does not deliver fault tolerance. If one drive fails then all data in the array is lost.

RAID level 1 uses a mirrored set strategy that provides fault tolerance from disk errors and single disk failure. It results in increased read performance with very small performance degradation when writing. The array continues to operate so long as at least one drive is functioning.

Because it offers the best tradeoff of performance and reliability, level 1 is the recommended RAID platform for Enterprise Discovery. For large networks, level 0 can also be used if performance is more important than fault tolerance. RAID level 5 is not currently supported.

The following table details a variety of scenarios that can help you estimate your server hardware requirements. The Disk value is for your data directory. You will require at least 6GB for the Enterprise Discovery installation.

Table 1 – Suggested Hardware Requirements

Discovered Devices	Inventoried Devices	Ports	Aggregation	Automated Inventory	Topology	Memory (GB)	CPU*	Disk (GB)
6,000	5,000	36,000		x		1.5	1 CPU 2.4 GHz	25
6,000	5,000	36,000		x	x	3**	1 CPU 2.8 GHz	40
18,000	15,000	108,000		x		2	2 CPUs or cores 3.0 GHz	70
18,000	15,000	108,000		x	x	5	2 CPUs or cores 3.0 GHz	105
60,000	50,000	150,000		x		4	2+ CPUs or cores 3.6 GHz	200
60,000	50,000	150,000		x	x	7	2+ CPUs or cores 3.6 GHz	260
50,000	50,000	n/a	x	n/a	n/a	2	2 CPUs or cores 3.0 GHz	10
500,000	500,000	n/a	x	n/a	n/a	3	2 CPUs or cores	50

Discovered Devices	Inventoried Devices	Ports	Aggregation	Automated Inventory	Topology	Memory (GB)	CPU*	Disk (GB)
							3.6 GHz	

* CPU processor speeds are approximate guidelines. Newer CPUs may have lower frequencies but higher performance than those shown in the table. HP Enterprise Discovery consists of multiple processes, many of which are also multi-threaded. As a result, it benefits from Simultaneous Multi-Threading (SMT) technologies such as Intel® Hyper-Threading and Multi-core.

** This is for 5 map sessions. If you want to use more than 5 map sessions, you will require more memory.

- These requirements are running one XML Enricher. If you plan to run two XML Enrichers, more CPUs and more memory may be required.
- Enterprise Discovery routinely performs many disk access operations. In order to improve performance, especially for networks with a large number of devices, it is recommended that you use fast access disks such as SCSI.

These calculations have been tested as scenarios for maximum disk size on the server.

For the Inventory license, this includes:

- **Backup Scan Files** is enabled (on average, each scan file is 250KB)
- **Generate MIF Files** is enabled
- **Delta scanning** is enabled
- Space required for two backups (one stored backup, and one “in process” backup)

For the Network Topology license, this includes:

- **Statistic Export** is enabled (CSV files)
- 200 users, with each user account saving 10 map configurations files
- Space required for two backups (one stored backup, and one “in process” backup)

The Enterprise Discovery client has the following requirements:

Operating System	Windows 2000, XP, 2003 or Vista
CPU	Pentium® III, 500 MHz
RAM	500 MB (1-3 GB if you will be analyzing a large number of scan files.)
Disk	100MB required (2GB recommended)
Java™ Runtime Environment	5.0 or 6.0

Enhancements and Fixes

The following items (identified by error tracking number) were added or fixed in this current software release. This release contains fixes only.

Table 2 - Problems Fixed

Number	Location	Fix Description
QC 23	Server	Unknown devices are no longer included in application license counts.
QC 58	Linux Scanner	The scanner no longer crashes under certain conditions when detecting the Logon ID hardware field.
QC 88, 4438	Reports	The information on Solaris zones in the Network Documentation and Virtual Device reports is now reported correctly.
QC 106	Notification	Event Filter notification delays configured in filter are now always taken into account.
QC 193	Solaris Scanner	Solaris scanners now collect the CPU/Core information correctly.
QC 542	Scanner Generator	Reading settings from a scanner configuration file generated by Enterprise Discovery 2.52 does not generate a warning that the file was generated by a different version of Enterprise Discovery.
QC 1286	Discovery Engine	Enterprise Discovery running without configured IP ranges no longer generates the "NMC is not in the seed list" error in discovery logs.
QC 1338	HP-UX (ia64) Scanner	In all cases, the CPU speed of Itanium 2 processors is now detected properly.
QC 1366	Mac OS X Scanner	Mac OS X (x86) scanner now collects detailed CPU cache information and correctly detects the logical CPU count for dual Core CPUs.
QC 1391	Windows Viewer	The last used date is now properly shown for all applications.
QC 1485	Device Manager	The scanner log file when viewed from the Device Manager is no longer truncated when it contains certain characters.
QC 1583	AIX Scanner	The AIX scanner collects the correct version of applications that have patches applied to them.
QC 1638	Reports	Devices in the End Node Top Listeners and Talkers reports are now sorted by the average traffic rates.
QC 2337	Mac OS X (x86) Scanner	CPU speed on Mac OS X (x86) machines is no longer erroneously detected as 0.

Number	Location	Fix Description
QC 4431	Administration	The dates appearing in the emails generated by Enterprise Discovery event notification are now RFC822 compliant.
QC 4466	Windows Scanner	Windows 2008 versioning is now detected and displayed accurately in the Enterprise Discovery Viewer.
QC 4486	Windows Scanner	Windows Vista Service Pack 1 is now detected properly on x64 versions of Windows Vista.
QC 4491	Aggregator	Aggregation data can now be correctly imported from servers running versions of Enterprise Discovery that are older than the version running on the Aggregator server.
QC 18757	Windows Scanner	The Windows Scanner no longer hangs while detecting the CPU speed when running inside some VMware virtual machines.
QC 18773	Windows Scanner	The scanner no longer exits during printer detection.
QC 18790	Reports	"Utilization Details" reports are now sorted by the peak values.

Known Problems, Limitations, and Workarounds

Agents

- When you install the agent on Windows Vista machines not using the "Administrator" account, the firewall exception is not added into the exceptions list (QC# 382).
- On Mac OS X 10.4.10 or above (Intel), there may be a problem with contacting the agent because it can be blocked by a firewall. The agent port needs to be enabled manually either via System Preferences > Sharing > Firewall or via the XServe administration tool in case of centralized administration (QC# 674).

Scanners

- The scanner does not take into account the **Files to Scan > Attributes** option configured through the Scanner Generator (QC# 642).
- Automounts are being scanned in HP-UX and Linux systems (QC# 1163).
- The Mac OS X scanner does not collect information on cards and USB data (QC# 4481).

Analysis Workbench

- In **File > Load Options > Asset Fields > Add > Text File Extract > Options**, whenever the "Treat field as a File Name" option is selected, the "Replace invalid characters with" field must be populated as well, even if the "Delete invalid characters" option is selected instead. Otherwise, the "The file 'Replace invalid characters with' may not be empty" error dialog appears (QC# 1275).
- For files in the root directory, the leading slash is missing from the beginning of the UNIX directory structure in AW (QC# 1480).

Server Installation

- After an uninstall, the branding registry keys are left over (QC# 1434).
- Non-ASCII characters used in data directory path name can cause problems during the installation (QC# 16520 and QC# 1472).
- When uninstalling Enterprise Discovery on a small server, the uninstaller may not be able to stop the database. It may take several tries to uninstall the software (QC# 2405).
- Enterprise Discovery with a Network Topology license should not be installed on VMware (QC# 5271).

Server

- An older OpenSSL DLLs in the system PATH can affect the Enterprise Discovery Apache server and Perl engines (QC# 5447).
- If your server has another service using port 80, the HP Discovery Apache service will not run properly. As a workaround, you can comment out the "Listen 80" directive in the `httpd.conf` file (QC# 6670).
- If there is a MySQL query that takes too long, Enterprise Discovery will not function properly and you may need to restart System Monitor to recover (QC# 7409).

Web User Interface

Administration

- Depending on the licenses, the "Resource/ Environment manage" option in Discovery Configuration may not have any effect (QC# 7034).

Reports

- Sometimes web pages under Reports do not completely render or print source code in Mozilla Firefox. Use the refresh button (QC# 7558).

Web Asset Questionnaire

- In Internet Explorer, when connecting to the main page through a proxy server, the "You are connecting from" IP address reported will be the IP address of the proxy server not that of the remote computer address (QC# 764).
- The UI may show non-printable characters in text fields (QC# 2408).

Licensing

Alarms License

- Alarms-related items are not always hidden (QC# 5673).

Internationalization

- When non-ASCII characters are used to define Schedules in the Discovery Configuration, the **Status > Current Settings > Discovery Configuration** may display errors when listing the Configuration Profile information (QC# 490).
- Various UI screens (reports, status reports, Device Manager, and so on) format the "day of the month" part of the date as Arabic numerals instead of using the language option configured by the operating system (QC# 416).
- There are several problems with the SAI Editor accepting characters in the Korean code page (QC# 507, QC# 508).
- The statistics graphs do not use the language options configured in the operation system and will always format the dates in English (QC# 2043).