

HP Enterprise Discovery

For the Windows® operating system

Software Version: 2.22

Release Notes

Manufacturing Part Number: None

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HP Enterprise Discovery

Release Notes

Software version: 2.22 / January 2008

This document provides an overview of the changes made to Enterprise Discovery for version 2.22. It contains important information not included in the manuals or in the online help.

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Introduction

These release notes are for Enterprise Discovery 2.22. This new version of Enterprise Discovery is the upgrade path for users of Enterprise Discovery 2.2x, 2.1.x and 2.0.x.

If you want to see what features have been introduced in previous versions of Enterprise Discovery (including versions 2.0, 2.0.1, 2.0.2, 2.0.3, 2.0.4, 2.1, 2.1.1, 2.1.2, 2.1.3, 2.20, and 2.21), 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 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 new Automated Inventory license 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 previous versions of Enterprise Discovery. 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 2.22. Note that the Automated Inventory license is functional but is not yet reflected in the Enterprise Discovery user interface.

Updated third party components

- Sun Java Runtime Environment (JRE) 1.5.0_14
- OpenSSL 0.9.8g

New Features

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

Obsolete Features

All features in 2.21 are supported in release 2.22.

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*
- *Migrating from Network Discovery*

None of these guides have been reissued for release 2.22.

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

- *Legacy Scanners*

Installation Notes

Installation requirements, as well as 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.
- 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 2.0.x: C:\Program Files\Peregrine\Enterprise Discovery\2.0.*

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

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

- 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. 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 under Program Files 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 3.6 GHz	50

* 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 installation has the following requirements:

Operating System	Windows 2000, XP, or 2003
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

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

Table 2 - Problems Fixed

Number	Location	Fix Description
17606	Mac OS X Agent	When the Mac OS X agent is running, using the agent installation disk image to upgrade an existing agent now commits the changes immediately.
18015	Linux Scanner	Virtual network interfaces are now included in the scan file.
18292	Windows Scanner	Detection of device driver files on Windows has been fixed. The files now have the correct device drive attribute D included as part of their file attributes.
18325	Network Map	The problem that caused the “Network Map Disconnect Error” to occur in some cases has been fixed.
18331	Aggregator	The consistency check mechanism now works when performing high volume delete operations.
18344	Topology Engine	The Topology Engine no longer crashes while processing the time string with an invalid time value.
18388	Scanners	The problem that caused Extract Options to not be applied to the registry and environment extract asset fields in some cases has been fixed.
18398	UNIX Scanner	NFS mount network drives are now detected correctly and are not scanned.
18406	System Monitor	The problem that caused Enterprise Discovery Server services to fail to start on rare occasions has been fixed.
18408	Scanners	The delta scan file is now returned when delta scanning is enabled.
18412	Scheduler	The Aggregate database tables are now periodically optimized.
18430	Aggregator	Duplicate IP and MAC addresses that belong to the same device in the Discovery database no longer cause Inventory import into the Aggregate database to abort.
18433	Discovery Engine	Scanner merging logic has been improved. The Device ID in the scanner merging logic is now optional and can be removed from the merging list if desired.
18436	Reports	MTTR and MTBF reporting thresholds are now working correctly when set to the default values.

Number	Location	Fix Description
18508	Topology Converter	The Topology Converter no longer crashes.
18510	Administration > Event Filter Configuration	The changes made to the State Transition fields when modifying the Event Filter Configuration now persist.
18557	Server	Performance has been improved around database connections.
18561	Event Manager	Events are no longer listed with the erroneous future timestamps.
18590	Scanners	The scanner no longer fails when scanning a directory with a % somewhere in its name.

Known Problems, Limitations, and Workarounds

Agents

- The agent upgrade process on Solaris 9 may take a long time (SCR# 16663).
- MAC OS X agent upgrade may not work when initial agent was installed and run from shell (SCR# 16828).

Scanners

- In Manual Deployment Mode, the UNIX scanner will not save offsite scan files to an FTP server when the user name is specified in the form domain name/user name (SCR# 12893).
- Automounts are being scanned in HP-UX and Linux systems (SCR# 15950).
- Time Zone not reported correctly on Linux 2.2 and 2.6 (SCR# 16836).
- On some Linux distributions, the scanner does not collect Graphics Data (SCR# 17523).
- When a user is connected to a machine through terminal session, the scanner launched in the manual deployment mode gets data related to the session rather than the actual video card data (SCR# 17528).
- Video card and video memory are not detected properly if the user is logged in to a terminal session (SCR# 17528).

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 (SCR# 15827).
- For files in the root directory, the leading slash is missing from the beginning of the UNIX directory structure in AW (SCR# 16838).

Server Installation

- After an uninstall, the branding registry keys are leftover (SCR# 15507).
- 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 (SCR# 14370).
- Enterprise Discovery with a Network Topology license should not be installed on VMware (SCR# 16524).
- Non-ASCII characters used in data directory path name can cause problems during the installation (SCR# 16520 and SCR# 17016).

Server

- If your server has another service using port 80, the HP OpenView Discovery Apache service will not run properly (SCR# 14808).

- 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 (SCR# 13964).
- An older openssl DLLs in the system PATH can affect the Enterprise Discovery Apache server and perl engines (SCR# 16318).
- With the Alarms license only if the configuration option “Number of days to keep imported Discovery Database files” (under **Administration > System Configuration > Aggregate Configuration**) is set to a value lower than 10 days, some scheduled tasks will run more frequently than they should and could overload the server (SCR# 17459).
- The VMware discovery user action does not generate an access event and, as a result, the information is not reported to the audit log (SCR# 17642).
- In some cases, devices are incorrectly deactivated with the “License exceeded” reason (SCR# 18195).
- In some cases, the event notification delays configured in filters are not taken into account and extra event notifications are generated (SCR# 18528).

Web User Interface

Administration

- Depending on the licenses, the "Resource/ Environment manage" option in Discovery Configuration may not have any effect (SCR# 14388).
- First time accessing a screen under **Administration > Discovery Configuration** might be slow (SCR# 17312).
- In the Discovery Configuration, the Subnet IP Type condition should not allow duplication in equivalent netmask values (SCR# 17407).
- In the Discovery Configuration, moving credentials up and down in newly added SNMP and Virtualization configuration profiles will not be taken into account. As a workaround, first save the profile and then edit it (SCR# 17590).
- The Device Groups main screen of the Discovery Configuration does not allow sorting by priority (SCR# 17484).
- The browser back button loses the correct navigational path when used with the Discovery Configuration (SCR# 17491).
- For a system-defined Virtualization Profile of the Discovery Configuration, the Associated Groups tables do not sort (SCR# 17514).
- In the Discovery Configuration, disabling the "VMware discovery interval" property under the Virtualization Configuration Profile is not possible without explicitly entering the value 0 (SCR# 17626).

Reports

- Sometimes web pages under Reports do not completely render or print source code in Mozilla Firefox. Use the refresh button (SCR# 13803).

Web Asset Questionnaire

- The UI may show non-printable characters in text fields (SCR# 16285).

Applets

- **Aggregate Find > UpdateModel > Run VMware Discovery** can not be disabled when the Device is not configured for VMware discovery (SCR# 17502).
- The Network Map “out of memory” error occurs when continually opening and closing the map window. It is necessary to close and reopen the browser to initialize the java plug-in (SCR# 17569).

Licensing

Alarms License

- Alarms-related items are not always hidden (SCR# 16041).

Internationalization

- The Scanner Generator cannot be launched when the product is installed in a directory with non-ASCII characters in the path (SCR# 17104).
- Reports do not use the language options configured in the operating system and will always format the dates in English (SCR# 17140).
- The statistics graphs do not use the language options configured in the operation system and will always format the dates in English (SCR# 17180).
- NetBIOS information collected by the network models will be displayed incorrectly if the string has non ASCII characters (SCR# 17411).