

HP OpenView Enterprise Discovery

For the Windows® operating system

Software Version: 2.20

Release Notes

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HP OpenView Enterprise Discovery

Release Notes

Software version: 2.20 / April 2007

This document provides an overview of the changes made to Enterprise Discovery for version 2.20. 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 2.20. This new version of Enterprise Discovery is the upgrade path for users of Enterprise Discovery 2.1.x and 2.0.x. In this release, Enterprise discovery has changed its versioning notation to match HP standards.

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, and 2.1.2), 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 2.20. 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_10
- MySQL Enterprise 5.0.36

New Features

The following features are available in this version of Enterprise Discovery:

Support for Solaris Zones

Enterprise Discovery now shows how the Solaris server is being used. The Solaris zones are linked to the host server. Each zone can be treated as a separate device. It is possible to discover, scan for hardware and software assets, and collect software utilization data on the host Solaris machine and each of its zones. Enterprise Discovery can determine the parent/child relationship between the physical host device and the virtual devices (zones) hosted on the physical device. As such, you are able to see the host/virtual device information in the Virtual Devices Window, the Device Manager, and the Virtual Device Reports. Refer to the “Virtualization and Enterprise Discovery” chapter in the *Reference Manual*.

Enhanced Support for VMware Environments

Enterprise Discovery now maps VMware images to the host VMware ESX server 3.0 or higher. You can see how virtual machines (VMs) are being used in your network environment. Since Enterprise Discovery can determine the parent/child relationship, VMs are linked to their physical host machines, but each VM is treated as a separate device with respect to discovery, hardware scanning, and software utilization. You are able to see the host/virtual device information in the Virtual Devices Window, the Device Manager, and the Virtual Device Reports. Refer to the “Virtualization and Enterprise Discovery” chapter in the *Reference Manual*.

New and Improved Discovery Configuration

A new configuration process with a more intuitive navigational flow and modern look-and-feel is provided. This new process and user interface make it easier to manage discovered devices in the following ways:

- Configuration properties can be associated with devices based on device type—for example, servers or workstations—not just IP addresses.
- Your configuration is kept up-to-date automatically with the latest device information.
- You have more control over and visibility into the configuration process.

In earlier versions of Enterprise Discovery, the only way to group network devices was by using IP ranges. Devices in the same IP range shared the same set of properties. This was inconvenient, because an IP range could encompass devices with completely different functionality. A network switch and a printer, for example, would be grouped together.

Refer to the “Configuring the Discovery Process” chapter in the *Installation and Initial Setup Guide*, as well as the Discovery Configuration online help, for more information.

Software Utilization Data Collection on all Platforms

Support is extended to non-Windows platforms to collect software usage information. Coverage includes all platforms that are supported for inventory. This affords valuable information about software utilization and licensing optimization on all Enterprise Discovery managed computers in the enterprise.

Enhanced Support for Windows Vista

You can now perform inventory scanning and collect software utilization data on devices running the Microsoft Windows Vista operating system. In addition, Microsoft Windows Vista Readiness reports are available. These reports enable you to quickly see which scanned devices in your network environment meet the [business system requirements](#) for Windows Vista, and which do not.

To determine the Windows Vista readiness level for each scanned device, Enterprise Discovery examines six components: CPU type and speed, total memory, total and free disk space, graphics display card features and memory size, audio output capability, and the presence of an optical (CD or DVD) drive. A readiness level is reported for each component, and an overall readiness level for the system is reported. A summary report that shows the percentage of scanned Windows workstations and servers in your network that are ready for Vista is also provided.

Compatibility Note

In an aggregated environment, the Aggregate server and the remote servers do not need to be running the same version of Enterprise Discovery. An Enterprise Discovery 2.20 server can aggregate Enterprise Discovery 2.1.x servers, but the following links in the left navigation panel on the remote server will not be available:

- [Asset Questionnaire](#)
- [Administration > Network Configuration](#)

Obsolete Features

Support for automatic agent deployment through the listener agent used with the Peregrine Network Discovery product has been removed from this release of Enterprise Discovery.

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://ovweb.external.hp.com/lpe/doc_serv/

- 1 In the Product list, click the product name (for example, Enterprise Discovery).
- 2 In the Version list, click the version number.
- 3 In the OS list, click the operating system type.
- 4 In the document list, click the document title.
- 5 To retrieve the document, click **Open** or **Download**.



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:

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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*

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.
- 4 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.*

- 5 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.

- 6 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 is a multi-threaded application, and benefits from Simultaneous Multi-Threading (SMT) technologies such as Intel® Hyper-Threading.

** 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.

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, 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

The following items (identified by error tracking number) were added or fixed in the current software release. Table 2 lists enhancements to existing features or behavior; Table 3 lists problems that were fixed.

Table 2 – Enhancements

Number	Location	Enhancement Description
14545	Administration > Discovery Configuration	The “Scanner upgrade schedule” option from the Scanner property group in the old Network Configuration has been renamed to “Deploy/upgrade scanners using this schedule” and the Scanner configuration profile in the new Discovery Configuration, indicating that it refers to both deployment and upgrade actions.
14845	Scanners	Solaris SPARCV9 and SPARC32+ binary executable files are now recognized when scanned.
15580	Client Installation	The minimum memory requirement for client installation has been set to 256 MB. The server installation still requires at least 512 MB of RAM
16634	Find	Find is now smarter and does not show the option to search on something if there is no data for that item.
17095	Device Manager	As part of the new simplified Discovery Configuration interface, profile names, virtualization data, and virtualization credentials are displayed in the Diagnosis Panel of the Device Manager.
17106	Scanners	The hidden version of the Win32 scanner is now available when execution needs to be done in a completely hidden manner.
17179	Scanners	Detection for Core2, Core2 Quad, and Athlon 64 FX CPUs has been added.
17211	Licensing	Sending event notification no longer requires the Topology license.
17247	Help	The Compatibility Matrix is now available under the Help option and is no longer in the Start menu.
17390	GUI, Documentation	The term "Forensic" when referring to scan types has been replaced with “Detailed.”

Number	Location	Enhancement Description
17575	Scanner Generator	The “Installed Applications” option has been added to the Hardware Data page of the Scanner Generator. This was previously available as a scanner command line option only. It allows the detection of installed applications as registered with the operating system to be disabled in the Scanner Generator.
N/A	Licensing	The port limit has been increased from 100,000 to 150,000.

Table 3 - Problems Fixed

Number	Location	Fix Description
15852	Configuration and Customization Guide	The Scan Command Line correctly uses the “/o” (lower case) command line switch.
16220	Reports	The “Unrecognized Files Summary by Scanner Platform” report now uses the correct filtering.
16279	Administration > Asset Questionnaire	A blank numeric field is now accepted if it is not a required field.
16685	Migration Guide	An explanation has been added to indicate that the hardware requirements for the Alarms license are the same as those for the Topology license.
16729	Alarms Viewer	In some cases, the exception values in the Alarms Viewer were not formatted properly. This problem has been corrected.
16780	Windows Scanner	CTRL-break no longer causes the scanner to crash on exit.
16785	Installation and Initial Setup Guide	Section added to “Server Installation” chapter explaining how to run an unattended installation of Enterprise Discovery by using the MSIEXEC command line.
16804	Administration > System Configuration, Status > Current Settings > System Configuration	Items are correctly available with the pertinent license.
16814	MIB Browser	In the Folder tab of the MIB Browser, the Object column now sorts properly.
16825, 16833, 16843	MIB Browser	MIB Browser no longer has problems with entering data in the Variable tab.

Number	Location	Fix Description
16831	Solaris Scanner	One and two-way associative cache support has been added to the Solaris scanner.
16833	MIB Browser	In some cases, the Get , Get Next , and Set buttons in the MIB Browser would become inadvertently disabled after navigating between different items in the tree. This problem has been corrected.
16840	Status > Current Settings > Server Management	The “Memory installed” information is now reported correctly on servers with more than 4 GB of RAM.
16853	Administration > Account Administration	Values are now saved properly when changing properties of a user account.
16857	Find	Find based on the MAC address now accepts the 12AB34CD56EF format. Previously, it accepted only the 12:AB:34:CD:56:EF format.
16866	Scan Data Viewer	On the Hardware tab in the Scan Data Viewer, the up-one-level icon is properly disabled when at the tree root.
16876	Event Browser	Event Browser returns the community property in a user friendly format. This applies to “SNMP Write by MIB OID” Events under the “Access Events.”
16884	Service Analyzer	Service Analyzer is simplified when no Alarms license is present.
16893	Viewer	The layout for displaying license information has been improved.
16896	Analysis Workbench	Stored files are exported properly from Analysis Workbench.
16927	Configuration and Customization Guide	The file names of the override file on Windows and UNIX/Mac OS X systems have been clarified.
16929	Analysis Workbench	Files with special characters can be taught in Analysis Workbench.
16934	AIX Scanner	MAC address detection is now enabled based on the scanner configuration.
16934	UNIX Scanners	Error reporting has been improved for various hardware detection fields.
16963	Scanners	USB device detection is now enabled based on the scanner configuration.

Number	Location	Fix Description
16970	Solaris Scanner	Code page conversion problems have been fixed. Occasionally, they caused the scanner to crash.
17008	Configuration and Customization Guide	Confusing references to pager numbers, pager hardware setup, etc. from guide and GUI have been removed.
17028	Status Reports	In the Scan File Status report, the filter by unknown retrieval date now works correctly.
17032	Exceptions	Devices that are not configured to deploy the agent are now excluded from the “Agent Deployment Failed” exception list.
17060, 17061, 17062, 17064, 17069	Internationalization	The Scanner Generator works properly when non-ASCII characters are used in various fields.
17088	Mac OS X Agent	Agent upgrade on Mac OS X systems now updates the security certificates.
17100	Status Reports	In the “Scan File Status” report, invalid values for the RunTimestamp field are now filtered.
17102	Network Map	The Network Map no longer crashes when '&' is in the package title.
17103	Windows Scanners	Environment variables are collected properly in Enterprise Mode when a user is logged in.
17137	Network Map	The Network Map no longer disconnects when deactivating many devices.
17141	Configuration and Customization Guide	Merge priority explanation for the merging logic for information collected in the scan files has been clarified in the guide.
17164	SAI Update Wizard	SAI missing file data problem after upgrade from ED 2.0 has been fixed.
17200	Analysis Workbench	Access Violation no longer occurs in Analysis Workbench/ SAI Editor when teaching applications.
17202	Viewer	The About window now display the correct system memory information.
17203	Database and Schema Documentation	SMBIOS table columns now show the proper platforms.

Number	Location	Fix Description
17207	Find	Using the MAC address in the Find tool no longer reports duplicate records for devices where the MAC address belongs to two ports.
17209	Migrating from Network Discovery Guide	The old MIB variables in SNMP Traps section have been updated.
17210	Discovery Engine	The port merging logic has been improved.
17225	Attribute Manager	In the statistics panel of Attribute Manager, the pull-down list for the Y-axis now shows all applicable options including thresholds.
17232	Applet	Asset Questionnaire command on the aggregate device menu can now be accessed correctly.
17237	Client Installation	Unnecessary files have been removed from the Client installer.
17251	Discovery Engine	A crash in the Discovery Engine has been fixed.
17265	Discovery Engine	Sometimes the Discovery Engine may not use the appropriate SNMP configuration associated with an IP range.
17275	Network Data Analysis Guide	Information was added to the guide to clarify which menu items appear in the Update Model drop-down menu in the Device Manager under certain circumstances.
17301	Element Management	A security exception observed while executing a command configured through the element manager has been corrected.
17305	Windows Scanners	In the WMI field extraction, the timeout value is interpreted correctly no longer causing the WMI query to fail.
17306	Windows Scanners	A problem causing a system crash on Windows NT 2000 terminal services has been corrected.
17340	Planning Guide	Direction of port 443 has been clarified in the guide.
17348	Installation and Initial Setup Guide	A cautionary note has been added to the guide about not copying over the <code>ssl.*</code> directories when sharing security keys.
17349	Scanners	Environment variables in the file path (text file extract asset field) are expanded (implemented for both UNIX and Windows) so that scanners can find files.
17372	Status > Devices	The "Number of devices" count at the top of these reports have been changed to the "Number of exceptions" since the former term was misleading.

Number	Location	Fix Description
17381	Applet	Attempts to open remote home or administration pages now work correctly.
17385	Data Migration	When upgrading from ED 2.0.x, the Enterprise Discovery 2.0.x Windows agent can now be used if the server is configured to use a hard-coded agent version.
17391	Scanner Generator	Options on the Scanner Options > Troubleshooting tab are now correctly reflected in the settings text file.
17403	Scanner Generator	Output properties are retrieved properly when reading the configuration containing WMI extract fields back into Scanner Generator.
17426	Scanners	The XML parsing problem of scanner parameters is fixed. Text in WMI queries containing special characters, such as “&”, etc. are no longer truncated.
17437	UNIX Scanners	The problem where, in some cases, directories and file information is not collected by the scanner has been fixed.
17448	Linux Scanner	The problem where, in some cases in VMware, MAC address information is not collected by the scanner has been fixed.
17465	Administration > Router Discovery	The java script error when selecting a community string/user from the list if there is only one has been fixed.
17479	Scanners	A defect in the collection of SMBIOS port connector information has been corrected.
17485	Applet	The “Open Device” menu is now disabled for non-active devices.
17543	Scanners	The random delay that can be set when creating a scanner now has more variation in its random delay time.
17563	MIB Browser	MIB Browser sessions are no longer dropped when connected remotely and left idle for 5 or 10 minutes.
17564	Network Map	When the Network Map session is terminated, the erroneous “System Error” dialog is no longer displayed.
17566	Scheduler	Large DB queries no longer cause the Scheduler to pile up jobs that will eventually exhaust the DB Connection pool.
17604	Server	The problem where, in some cases, connections were incorrectly reported as stale and eventually deleted has been corrected.

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).
- The Solaris scanner does not collect Physical Disk Data for Solaris 8 systems (SCR# 16796).
- 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).
- In some cases, event notifications are generated before the delay interval configured in the event filter has passed (SCR# 17271).
- 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).

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).
- Locate on the Network Map does not highlight the device if the window containing the device is already open (SCR# 17617).

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).