

HP OpenView Enterprise Discovery

For the Windows® operating system

Software Version: 2.21

Release Notes

Manufacturing Part Number: None

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HP OpenView Enterprise Discovery

Release Notes

Software version: 2.21 / October 2007

This document provides an overview of the changes made to Enterprise Discovery for version 2.21. It contains important information not included in the manuals or in the online help.

[In This Version](#)

[New Features](#)

[Obsolete Features](#)

[Documentation Updates](#)

[Installation Notes](#)

[Enhancements and Fixes](#)

[Known Problems, Limitations, and Workarounds](#)

In This Version

Introduction

These release notes are for Enterprise Discovery 2.21. This new version of Enterprise Discovery is the upgrade path for users of Enterprise Discovery 2.20, 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, and 2.20), 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 2.21. 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_12

New Features

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

Obsolete Features

All features in 2.20 are supported in release 2.21.

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:

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 2.21.

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 2.20: C:\Program Files\HP OpenView\Enterprise Discovery\2.20

- 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 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.



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, 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
16796, 17865	Solaris scanner	Solaris scanner can now collect physical disk data for Solaris systems.
16828	Mac OS X Agent	Mac OS X agent upgrade now works properly when the agent is initially installed and run from a script.
17271	Server	Event notifications are no longer generated before the delay interval configured in the event filter has passed.
17480	Linux scanner	Linux scanner no longer reports physical disk data with negative values.
17523	Linux scanner	On Linux distributions, graphics data is now properly collected by the scanner.
17555	Scanners	Asset data is now updated correctly in the Enterprise Discovery database.
17576	Scheduler	Network availability historical data is now reported correctly in the graphs.
17585	Administration > Discovery Configuration	A warning is now issued when changing from the old configuration paradigm to the new one. When activating changes for the first time in the new Discovery Configuration and the old configuration is currently active, the user gets a warning that the old configuration will no longer be available.
17605	HP-UX Agent	Usage data no longer contains logs for <defunct> processes on HP-UX.
17617	Network Map	Device is now highlighted when clicking the Locate icon in the Device Manager when the window containing the device is already opened.
17651	Administration > Discovery Configuration	A user entered schedule is no longer displayed as a system-defined schedule in the new Discovery Configuration UI drop down list.
17699	Scanners	Hardware information on the VMware ESX server is now collected correctly by the scanner.
17726, 17752	Agent	Method for selecting the usage data directory location has been changed to resolve issues around data duplication and access rights.

Number	Location	Fix Description
17742	SAI Editor	It is now possible to teach applications using large MSI files.
17806	Network Map	Several Network Map refresh and render issues have been fixed.
17808	Linux scanner	Network card scan data is now collected correctly.
17812	SNMP	SNMP community strings are now treated as case sensitive.
17820	Scanners	hwsmbiosMemoryArraySize size is now reported correctly when the granularity of the field is set to Kilobytes.
17829	Server	Scan files are properly and consistently retrieved when large numbers of IP ranges are configured.
17835	Scanner Generator	Asset Data fields are now populated correctly.
17846	Administration > Network Configuration	Importing IPv4 information from a CSV file now works correctly for Agent and SNMP property groups.
17851	Windows Scanner	Scanners now run without creating message boxes that require user interaction in cases where there is a corrupt user profile.
17862	Linux and Solaris Agent	Linux and Solaris agents no longer cause high CPU usage problems.
17873, 17938	XML Enricher	Characters in the XML Enricher health file that previously caused the System Monitor to exit are now processed correctly.
17874	Windows Scanner	Scanner no longer fails when trying to collect USB data.
17879	SAI Editor	Access violation error in the SAI editor has been fixed.
17899, 17920, 17937, 18007	Database	Enterprise Discovery database now supports more hardware reference values used to detect many additional new hardware components on discovered devices.
17905	Server	Web server no longer gives a proxy error when the decimal separator is set to "," for the local system account.
17908	System Monitor	Rare issue that causes Enterprise Discovery services to fail after restart of the server has been fixed.
17911	Windows Scanner	When scanning a Windows Citrix Server, the scanner no longer stores the scan file under a local user account directory.
17913	Scheduler	Statistics export frequency now works as specified.

Number	Location	Fix Description
17919	Port Manager	When viewing the port of a device in Port Manager, you no longer lose the statistic and attribute values when going from one port to another.
17965, 17971	Aggregator	Large scan files are now being processed correctly in the Aggregator database.
17970	Network Map	When opening packages on the Network Map, the device count reported in the GUI is now correct.
17982	Scanners	In Manual Deployment Mode, the scanner no longer exits immediately when the action (when no user is logged in) is set to "Exit the scanner" on the Miscellaneous tab on the Scanner Options page of the Scanner Generator.
18012	Agent	When upgrading the Enterprise Discovery server, the Agent Upgrade option in the agent profile no longer changes to Upgrade ON if it was originally set to Upgrade OFF.
18016, 18031	Scanners	Storing large files (> 2MB in size) no longer corrupts the scan file.
18022	Scanners	Scanner now saves scan files to the correct scan directory.
18037	Server	Options in the <code>xmlenricher.ini</code> file no longer revert back to their default settings when the System Monitor is restarted.
18071	Windows Scanner	The problem with swap file detection on Windows Vista under certain conditions has been fixed.
18116	Scanners	The <code>include</code> directory logic for Files to Store criteria has been fixed.
18121	Discovery Engine	SNMP V3 now works properly in <code>noAuthNoPriv</code> mode.
18131	Scanners	Scanner option to collect files from the Root of Boot drive now works correctly. The scanner no longer collects files from all root directories.
18136	XML Enricher	XML Enricher is able to process very large scan files since it is now 3GB-aware.
18167	Applets	When using JRE 1.6, applets can now open if switching to another Enterprise Discovery server within same browser session.
18175	Solaris Scanner	Scanner no longer fails to collect disk serial numbers on Sun Solaris machines.
18187	Aggregator	File and directory names collected by the scanner are now treated as case sensitive strings.

Number	Location	Fix Description
18230	Navigation Tree	Aggregator scan viewer link is no longer inactive on various menus in the Enterprise Discovery UI.
18250	Windows Scanner	In Windows Vista, a message pop up is no longer displayed when running manual scanners.
18258	Aggregator	User and domain name data collected by the scanner are now treated as case sensitive strings.
18259	Scanners	Start-up banner displayed by the scanners now includes the platform 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).
- When the Mac OS X agent is running, using the agent installation disk image to upgrade an existing agent does not commit the changes until the system is rebooted. Under normal conditions, it is not required to upgrade a discovery agent manually. Enterprise Discovery servers automatically upgrade agents when required. The agent installation disk image is used only for initial deployment only (SCR# 17606).

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).

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).