

HP OpenView Enterprise Discovery

For the Windows® operating system

Software Version: 2.1.2

Release Notes

Manufacturing Part Number: None

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HP OpenView Enterprise Discovery

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This document provides an overview of the changes made to Enterprise Discovery for version 2.1.2. It contains important information not included in the manuals or in online help.

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In This Version

Introduction

These release notes are for Enterprise Discovery 2.1.2. This new version of Enterprise Discovery is the upgrade path for users of Enterprise Discovery 2.1.1, 2.1, 2.0.x, and users of Network Discovery 5.2.5.

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, and 2.1.1), 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 for a maximum of 50,000 devices or 100,000 ports (whichever comes first). An Enterprise Discovery Aggregator can support 50 servers and up to 500,000 devices.

Updated third party components

Java runtime environment (JRE) upgraded from version 1.4.2_12 to version 1.4.2_13

New Features

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

Scanner and Agent Support for Windows Vista

Enterprise Discovery now fully supports Windows Vista on both 32-bit and 64-bit platforms for the agents, scanner and software utilization plug-in. This means that Windows Vista machines in your network are now accurately discovered and can be automatically inventoried.

Note: The Enterprise Discovery server itself and the client installation are not yet supported and must be installed on an earlier version of Windows (see Software and Hardware requirements below).

Security Updates

To eliminate a security vulnerability, Enterprise Discovery now installs the Java runtime environment (JRE) version 1.4.2_13.

Windows Scanner Optimization

The Windows scanner binary is now approximately 70Kbytes smaller.

Support for Linux on 64-bit platforms (in 32-bit mode)

Using the 32-bit Linux scanner, Enterprise Discovery can now discover and automatically inventory 64-bit Linux systems running on AMD64/EM64T processors in 32-bit compatibility mode.

Obsolete Features

All features in 2.1.1 are currently supported in release 2.1.2.

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

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

Legacy Scanners

None of these guides have been reissued for release 2.1.2.

The following document is available in HTML format, through the Enterprise Discovery client (**Start > All Programs > HP OpenView > Enterprise Discovery 2.1.2 > Documentation**)

Data Collected by the Scanner

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*.*

Version 2.1.0: 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 SP1. (Windows® XP SP2 is also compatible, but should only be used for trial or demo installations.)

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 6MB under Program Files for the Enterprise Discovery installation.

Table 1 - Hardware Requirements

Devices	Ports	Aggregation	Inventory	Topology	Memory (GB)	CPU*	Disk (GB)
5,000	30,000		x		1.5	1 CPU 2.4GHz	25
5,000	30,000			x	1.5**	1 CPU 2.8 GHz hyperthreading	15
5,000	30,000		x	x	2**	1 CPU 2.8 GHz hyperthreading	35
15,000	90,000		x		2	2 CPUs 3 GHz hyperthreading	70
15,000	90,000			x	3.5	2 CPUs 3 GHz hyperthreading	35
15,000	90,000		x	x	4	2 CPUs 3 GHz hyperthreading	100
50,000	100,000		x		3	2 CPUs 3.6 GHz hyperthreading	200
50,000	100,000			x	4	2 CPUs 3.6 GHz hyperthreading	50
50,000	100,000		x	x	5	2 CPUs 3.6 GHz hyperthreading	240
50,000	n/a	x	n/a	n/a	2	2 CPUs 3 GHz hyperthreading	10
500,000	n/a	x	n/a	n/a	3	2 CPUs 3.6 GHz hyperthreading	50

* Newer CPUs may have lower frequency but higher performance than those shown in the table.

** 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 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	1.4.2 or 1.5

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
16513	Windows Scanner	The Win32 scanner supports a new feature of Windows Vista – symbolic links to files and directories. The scanner now handles them properly just as in UNIX, where they were supported in earlier versions of Enterprise Discovery.
17097	Windows Scanner	Operating system detection of the Win32 scanner has been improved and now supports all editions of Windows Vista, Windows 2003 Server R2, and Windows Storage Server.
17167	Linux Scanner	Linux 64-bit (in 32-bit compatibility mode) for AMD64 and EMT64 processors is now supported.

Table 3 - Problems Fixed

Number	Location	Fix Description
16723	System Monitor	If the system monitor service is manually stopped during the Enterprise Discovery startup sequence, it can now be consistently started again.
16807	Solaris Scanner	The Solaris scanner now correctly identifies Fujitsu Siemens SPARC64 V processors.
16834	Linux Scanner	The installed application hardware detection process in the Linux scanner has been optimized for improved performance.
16845	Administration > Network Configuration > Agent Property Groups	If the All Off agent property group is selected for a particular IP range, the Enterprise Discovery server can still communicate with devices in any sub-ranges that are assigned to other agent property groups.
16887	SAI Editor	A problem with re-loading externally modified SAI files has been resolved in the SAI Editor.
16897	System Monitor	In the Windows Services tool, you can now restart the system monitor using the Restart option in the right-click shortcut menu.

Number	Location	Fix Description
16925	Software Utilization agent plug-in	On all supported locales, the Scan Data Viewer now correctly shows complete software application data for all scanned devices.
16950	Aggregator Data Transfer	The location of a device in the packaging hierarchy in the prime map configuration for that device is now transferred from the Real-time database to the Reports database.
16951	Scheduler	The trash and purge operation is now scheduled properly for all license combinations, including when the Topology license is not present.
16974	Windows Scanner	The Win32 scanner can now collect registry extract values that are of REG_DWORD and REG_BINARY type.
16978	UNIX Scanners	Scanners now prevent invalid control characters from appearing in the scan file's XML data.
16992	Web UI	The UI shortcuts for Device Manager, Line Manager, Port Manager, and Service Analyzer now open correctly and consistently for all device types, lines, and ports specified.
17009	Database	If MySQL crashes on the Enterprise Discovery server and is then restarted, all active devices are now listed correctly in the Device Visibility column of the Licensed Devices table.
17017	Aggregator	Importing events into the aggregate database now works correctly and consistently.

Number	Location	Fix Description
16841, 17018, 17019, 17081, 17049, 17089	Internationalization Asset Questionnaire Web UI Web UI Windows Agent Web UI Reports	The following internationalization issues have been resolved: Previously, the Asset Questionnaire could not import values with Chinese or Korean characters. This problem has been corrected. The online help is now displayed correctly when a Korean locale is specified. Japanese and Korean characters now display correctly in the Device Manager and throughout the UI. The Windows agent is now correctly deployed when non-ASCII accented characters, such as those that appear in European and Korean character sets, appear in the user name or password for the Deployment account. The UI now properly handles non-ASCII characters within dates for all supported locales. The date and time shown on reports is now displayed correctly in Korean and Chinese locales.
17024	Server > Administration > Agent Deployment Accounts > Deployment account properties	The label for the second Password field was changed to "Password (again)" to make its meaning more clear.
17025	Authorization	Access privileges according to user account type are now more strictly enforced.
17035	Installation	The Enterprise Discovery installer now performs a more thorough check for existing versions of Perl. If any are found, a warning is displayed.
17041	Windows Scanner	Software utilization data can now be gathered for a system when a user is logged in to that system.
17042	HP-UX Scanner	HP/PA and PowerPC executables are now correctly detected.
17059	Scanners	The scanners now properly process binary files that have the same starting bytes as gzip compressed files.
17068	Scanners	The -scandays command line parameter works properly now.
17090	Administration > System Configuration > Server passwords	After you change one or more of the password criteria for the Enterprise Discovery server, the change takes place immediately.

Number	Location	Fix Description
17105	Windows Scanner	Scanner can now properly detect dual core Intel CPUs on Windows systems.
17107	Web UI	The tools available in the tree in the left navigation panel are also available in the menu on the right side of the main Server home page in the Enterprise Discovery UI.
17115	Device Manager	The scanner and agent log files are now available for the <code>itmanager</code> account type as well as the <code>admin</code> account type.
17151	XML Enricher	The maximum memory usage parameter for the XML Enricher was increased from 128 MBytes to 384 MBytes. This allows a larger number of SAI files to be loaded.
17148, 17149	UNIX Scanners	The UNIX scanners have been enhanced to provide improved model and serial number detection.
17191	Notifications	Event notifications to be sent by alphanumeric page or e-mail are now consistently generated.

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).

The scanners cannot open some files in non-English operating systems (SCR# 16462).

Some files excluded in .override.ini are still being scanned (SCR# 15766).

In the Scan Command Line /O Switch, the “/O” should be “/o” (lower case) (SCR# 15852).

Automounts are being scanned in HP-UX and Linux systems (SCR# 15950).

Pressing Ctrl-C sometimes causes access violations for the Win32 scanner (SCR# 16780).

The Solaris scanner does not collect Physical Disk Data for Solaris 8 systems (SCR# 16796).

Cache associativity on Solaris is reported as 'unknown' (SCR# 16831).

Time Zone not reported correctly on Linux 2.2 and 2.6 (SCR# 16836).

Disabling the operating system hardware test results in scanner not running (SCR# 16861).

Network card detection on AIX systems sometimes reports errors (SCR #16934).

In some cases, user specific environment variables are not collected by the scanner (SCR #17103).

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).

Stored files export from AW failing (SCR# 16896).

Server Installation

Server uninstall will report a “Fatal error” if the Favorites in the Registry contains an invalid path (SCR# 15303).

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).

Unattended installation using MSIEXEC causes the installation to become corrupt if this is not the first installation on the server (SCR# 16785).

Client Installation

After uninstalling the client, the menu items will still appear under the Windows Start menu (SCR# 16437).

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).

The user scan files (SAIs) converted from version 2.0.x contain no file data (SCR #17164).

Web User Interface

Administration

Depending on the licenses, the "Resource/ Environment manage" property in Network Configuration may not have any effect (SCR# 14388).

In the "Account properties" page, changing the "Default Device Manager panel" or "Default Port Manager panel" to "Statistics" does not work (SCR# 16853).

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

A blank numeric field should be accepted if it is not a required field (SCR# 16279).

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

Miscellaneous

The "Server Management" page does not report correctly the server memory if the value is above 4GB (SCR# 16840).

Applets

In the Folder tab of the MIB Browser the Object column does not sort properly (SCR# 16814).

Overwriting the OID field could sometimes kill the MIB Browser session (SCR# 16825).

The tree in the Scan Data Viewer will disappear when clicking on the "Go up one level in the tree hierarchy" button when the data for a main level folder is displayed (SCR# 16866).

The Event Browser will fail to display "SNMP Write by MIB OID" events if the applet is using JRE version 1.5.x (SCR# 16876).

Using the "&" character in package names can cause the Network Map to disconnect (SCR #17102).

Licensing

Alarms License

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

Internationalization

The product does not work when installed in a directory with non-ASCII characters in the path. Enterprise Discovery should only be installed and used with ASCII directory names (SCR #17016).

The Scanner Generator cannot be launched when the product is installed in a directory with non-ASCII characters in the path (SCR #17104).

The Scanner Generator does not work properly when non-ASCII characters are used in various fields (SCR #17060, #17061, #17062, #17064, #17069).

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).