HP OpenView Management Solutions

Enterprise Discovery™ 2.0.1
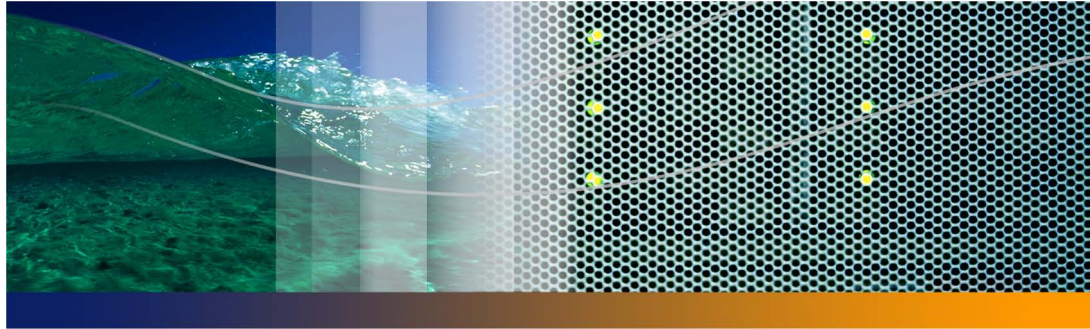
Release Notes

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Contents

PEREGRINE

Enterprise Discovery 2.0.1 Release Notes

This is a maintenance release of Peregrine's Enterprise Discovery™.

These *Release Notes* have the following sections:

Overview

Peregrine Enterprise Discovery is a suite of applications that enable IT to automatically discover, inventory and better utilize all hardware, software and network devices. You can see where assets are located, and you can also see detailed configuration information and metrics on utilization. The rich configuration data revealed by Enterprise Discovery is an essential building block for Peregrine's Active CMDB (Configuration Management Database), central to delivering business services in a leveraged IT management environment.

With out-of-box integration capabilities for AssetCenter and ServiceCenter, Enterprise Discovery 2.0.1 lends immediate value for day-to-day service support, service delivery and IT asset management operations.

Enterprise Discovery is an application that automates the discovery, classification and documentation of every network connected device including workstations, laptops, servers, routers, hubs, switches, printers, IP phones and firewalls. As the foundation configuration information for a CMDB, it provides the basis for all other configuration management services.

Enterprise Discovery 2.0.1 includes several new features, as recommended in customer feedback. These new features focus on improving the security of your Enterprise Discovery server.

Device Discovery

Designed for scalability performance and secure administrative controls, the discovery of devices is supported for up to 50,000 devices per server and up to 500,000 devices through up to 50 distributed servers. Agentless ping sweeps and SNMP queries allow a quick, accurate and low-impact network scan that discover each device and deliver core configuration information back to a central repository. Extensive administrative controls deliver options that let you balance network performance thresholds against data depth collection requirements.

Enterprise Discovery also provides scheduling and configuration options for using Peregrine's agents, for in-depth device inventory. You can specify the time, scope and inventory information that is sent.

This unique combination of agent and agentless discovery technologies minimizes bandwidth overhead while ensuring the most thorough capture of the network's current device status. Network security, performance and compliance initiatives are much easier and much less costly, giving you better management controls.

Inventory

Once a device is discovered, the inventory scanners can be employed to deliver the requisite depth of data collected. Inventory scanners are included for AIX, HP/UX, Solaris, Linux and Windows as well as for legacy platforms like OS/2 and DOS.

Recognizing software down to the version number and patch level, Enterprise Discovery finds all data necessary to accurately reconcile against an extensive software library. It dives deep beyond the Windows registry to make sure applications are correctly identified and can distinguish between applications that differ in just a single DLL at registry entry. With over 12,000 titles, the software library is updated regularly by Peregrine, and can be easily augmented to recognize custom or in-house applications not covered by standard libraries.

Accurate software recognition is also the basis for reconciling installed applications to licensable entitlements for both stand-alone and suite-based license grants. The task of software license compliance is made easier. With Peregrine Inventory, maintaining complete visibility into license compliance status as well assuring that unauthorized applications are immediately identified, delivers unprecedented value to IT operations.

Hardware configuration data capture can be configured in great detail and by default includes up to 1500 properties, covering every aspect of servers and workstations, including data about CPUs, disks, memory, serial number, manufacturer, firmware revision, Windows clusters, monitors, USB and SCSI devices, SMBIOS data and many other attributes. Invaluable to the service support and delivery processes, this information adds depth and ongoing accuracy to the CMDB.

Enterprise Discovery stores the detailed data in compressed XML format and transfers it through secure communications protocols using SOAP/SSL. All actions are controlled by the Enterprise Discovery server and network bandwidth utilization can be minimized by transferring just the delta since the last inventory process. Inventory scans can be scheduled and automatically executed, or launched manually on demand.

Software Utilization

Overspending on software is a common problem in enterprise IT organizations. Utilization delivers a sizable opportunity for better utilizing software licenses without increasing the risk of non-compliance.

Software Utilization provides information about who is actually using specific Windows applications. It tells you when an application was last used and the frequency of use, so you can take action on harvesting unused applications for re-deployment.

In combination with AssetCenter's Software Asset Management application, this can directly and immediately reduce new software license spending through better management of existing licenses. Automated workflows can routinely scan for unused applications and indicate opportunities for re-deployment of those licenses.

Security

To ensure authenticity of request, all server-to-agent communications are initiated by the Enterprise Discovery server which uses a 2048-bit RSA (public/private key) authentication mechanism. All server-to-agent communications are encrypted using 128-bit 3xDES encryption.

In addition, all server-to-server and client-to-server communication is secured with HTTPS.

New Features and Improvements (since 2.0)

Enterprise Discovery 2.0.1 contains a few new features and improvements. The *Release Notes* describe some of the major improvements. For all the details, refer to the rest of the product documentation.

HTTPS/SSL

To increase security on the Enterprise Discovery server, all web pages are now based on HTTPS/SSL. As a result, when installing the server software, you must enter a domain name for the server, that will be included in the SSL key. For more information, see the Security chapter in the *Installation and Initial Setup Guide*.

Note: All HTTPS communication between the server and workstation take place over port 443.

Data Directory

In 2.0, the default location for the data directory could not be changed. Now, the user has control over where to install the Enterprise Discovery data directory.

Note: If you are upgrading to version 2.0.1, and you want to change the location of the data directory, you must move your old data directory manually after uninstalling 2.0, and before installing 2.0.1.

Audit Log and Discovery Log

Some users need a method of checking the Enterprise Discovery logs to see the actions initiated by different accounts.

By default, Enterprise Discovery does not log all of these events. If you would like to log them, you must enable the **Log User Actions** option at **Administration > System preferences > Server configuration**.

The events will be recorded in the Discovery Log and Audit Log, both of which are located (by default) in this directory of your server:

```
C:\Documents and Settings\All Users\Application
Data\Peregrine\Enterprise Discovery\Logs
```

To learn more about these logs, see the *Reference Guide*.

IP Ranges

In 2.0, users could configure up to 1500 IP ranges. Now, can now configure up to 2000 IP ranges. This allows networks with very fragmented IP ranges to be more easily configured for discovery.

Navigation Tree

All server tools (Health Panel, Alarms Viewer, Find, and Events Browser) are now listed in the navigation tree of the web user interface.

Splash Screen Warning Text

The splash screen can now have warning statements created by the administrator. Click **Administration** > **System preferences** > **Server configuration** to configure the warning text.

Account Passwords

There are new password options in **Administration** > **System preferences** > **Server passwords**:

- Minimum number of lower letters
- Minimum number of upper letters
- Minimum number of digits
- Minimum number of symbols
- Minimum number of digits or symbols

Also, there are new rules for passwords. A user password cannot be the same as the user name, a portion of the user name, or the inverse of the user name.

MySQL

Enterprise Discovery has been upgraded to incorporate MySQL 4.1.14.

Exceptions Report

The Exceptions report is available at Status > Device status. This is in addition to the list available from the Health Panel.

Database Improvements

The Aggregate Database now confirms information on which MAC addresses are used for merging (the MAC.MACUseForFormatting entry). This entry will be set to "true" for all MAC addresses until the next model update.

A Installed Directory column (SWSubComponent_InstalledDirectory) has been added to the database for recognized applications.

The following columns were previously documented for the Aggregate.SerialNumber table in the Aggregate Schema, but not implemented.

- SerialNumber_Capacity
- SerialNumber_Unit
- SerialNumber_MountPoint

Aggregator

An Enterprise Discovery Aggregator can now aggregate up to 50 servers, and a total of 500,000 devices.

Important: Due to the introduction of HTTPS, all aggregated servers must be upgraded to version 2.0.1.

Linux Scanner and Agent

Enterprise Discovery 2.0.1 does not include a Linux Scanner or Agent. These will be reintroduced in a future release.

Customers upgrading from Enterprise Discovery 2.0.0 can continue to use the Linux scanners and Linux agents they already have deployed.

Dropped Features (since 2.0)

The "inline help" option has been removed from **Administration** > **Account administration** > **Account properties**. All help files have been improved, so this feature was no longer needed.

New Installation Overview

Read this section if you are installing Enterprise Discovery for the first time. If you are upgrading your software from Enterprise Discovery 2.0, see Upgrading from Enterprise Discovery 2.0 on page 14.

You can approach your installation in different ways. You may be migrating your software from Desktop Inventory, upgrading from Enterprise Discovery 1.0, or doing a new installation. This section provides a brief summary of how to install the software. For all the details on installing Enterprise Discovery, see the *Installation and Initial Setup Guide*.

Migration

Migrating to Enterprise Discovery is straightforward.

If you are migrating from Desktop Inventory, you must first uninstall Desktop Inventory, then install Enterprise Discovery.

If you are migrating from Network Discovery, you must first upgrade to Network Discovery 5.2.4. Then, on a separate server, install Enterprise Discovery 2.0. Lastly, you need to migrate your data from Network Discovery to Enterprise Discovery.

For all the details on migrating to Enterprise Discovery, see the *Installation and Initial Setup Guide*.

Server Installation

You must install the server components once (on a dedicated server).

If you want to have several Enterprise Discovery servers working together in your network, you will need to use the Aggregation feature. This feature allows you to connect up to 50 Enterprise Discovery servers, and up to 500,000 devices.

The server install contains everything available in Enterprise Discovery 2.0.1.

To install the server:

1   Install the license.

2   Run the installer.

3   Set up IP ranges.

4   Set up Property Groups (network, community, agent, scanner).

5   Activate Changes.

6   Set up User Accounts.

Client Installation

The client needs to be installed on Administrator workstations. The client install is a subset of the server install, containing only:

- Analysis Workbench
- Viewer
- SAI Editor
- Scanner Generator
- Help and PDFs

To install the client:

1   Install the license (the same license file used on the server)

2   Run the installer.

Upgrading from Enterprise Discovery 2.0

The following is a summary of the upgrade process. See the *Installation and Initial Setup Guide* for full details on how to install the software.

Note: After upgrading, due to some database changes, the first time starting up Enterprise Discovery 2.0.1 will seem slower than normal. The amount of time depends on the amount of data in the database. For example, if you have 50,000 scanned devices in your database, be prepared to wait 2 hours to start using Enterprise Discovery.

If it takes longer than 2 hours, the system will not automatically proceed after the database changes are completed. Check discovery.log for "migrate_data" being finished, and then restart your system. Contact support if you need more help.

Server Upgrade

On your Enterprise Discovery server, you must follow this procedure to successfully install the new software.

1   We recommend backing up your 2.0 Data directory to a safe location. The normal backup directory should not be affected by uninstalling Enterprise Discovery 2.0, but you should make an extra copy as a safety measure.

2   As stated in the *Installation and Initial Setup Guide*, make sure you backup your security certificates and keys.

3   We also recommend backing up your User SAI(s), if you have customized your own.

4   Using the Windows **Add or Remove Programs** feature (**Start** > **Control Panel**) Uninstall Enterprise Discovery 2.0.

    Enterprise Discovery 2.0 will be removed, but will leave the Data directory intact.

5   If you would like to change the location of the data directory, move it manually on your system. (Enterprise Discovery 2.0.1 has a new feature that allows you to change the default location of the Data directory.)

Note: When you go through the 2.0.1 installation wizard, you will have to configure 2.0.1 to recognize the new location.

6   Install the Enterprise Discovery 2.0.1 server as described in the *Installation and Initial Setup Guide*.

7   If you customized your User SAI, move it into the 2.0.1 common folder. Run the SAI through the SAI Update Wizard, and Enterprise Discovery 2.0.1 will start using it.

Client Upgrade

On your client workstations, you must also upgrade to 2.0.1.

1   Using the Windows **Add or Remove Programs** feature (**Start** > **Control Panel**) Uninstall Enterprise Discovery 2.0.

2   Install the Enterprise Discovery 2.0.1 client as described in the *Installation and Initial Setup Guide*.

Documentation Overview

The following user guides are available with Enterprise Discovery. Read the *Planning Guide* first, so you understand how to prepare your network for Enterprise Discovery.

All the Guides have been reissued for Enterprise Discovery 2.0.1. However, only the *Planning Guide*, *Installation and Initial Setup Guide,* and *Reference Guide* had any technical changes.

Manual	Description
Planning Guide	Use this guide to: ■ Gain an insight into some of the concepts behind planning an IT asset inventory ■ Prepare your network for installation. The guide also contains a preformatted sample inventory planning form that you can use as a starting point.
Installation and Initial Setup Guide	Use this guide to install and setup your Enterprise Discovery server and clients. It will take you through the installation process, and provide other suggestions to help ensure your installation is secure. It covers the following topics: ■ Upgrade and Migration Scenarios ■ Server Installation ■ Client Installation ■ Server Configuration ■ Configuring IP ranges ■ Configuring Property Groups ■ Setting up Accounts ■ Backing up and Restoring Data ■ Uninstalling Enterprise Discovery ■ Security Checklist ■ Knowledge Updates ■ Updating your Custom Application Library

Manual	Description
Network Data Analysis Guide	Use this guide to learn about the data collected by the "networking" portions of Enterprise Discovery.
	It covers the following topics:
	■ Finding Network Devices
	■ Health Panel and Alarms Viewer
	■ Events Browser
	■ Device Manager
	■ Port Manager
	■ Exporting Data
	■ Deleting Data
	■ Reports
Scan Data Analysis Guide	Use this guide to:
	■ Learn how to use the analysis tools to view and analyze inventory data
	■ Teach applications to your library.
	■ Analyze and interpret software utilization data.
Customization and Configuration Guide	Use this guide to customize and configure the components of Enterprise Discovery to your own specifications.
	It covers the following topics:
	■ Setting up Accounts
	■ Adding, Removing Devices
	■ Device and Port Properties
	■ Configuring Agent and Scanner Settings
	■ Scanner Generator
	■ XML Enricher
	■ Sending Data to AssetCenter
Reference Guide	Use this guide to learn more in depth about the concepts and features of Enterprise Discovery.
	It covers the following topics:
	■ Terms and Concepts
	■ Recorded Events
	■ Scanners
	■ Scanner Plugin-SDK
	■ FSF Converter
	■ Copyright Information

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If you have a client installation, you can see all the PDFs and CHMs through the Windows Start menu. Click **Start** > **All Programs** > **Peregrine** > **Enterprise Discovery** > **Documentation/Help**.

If you are accessing the server, you can see the PDF files in the web UI at the following location: **Help** > **Documentation**.

Known Issues

Server Installation

If there is an older version of ActivePerl on the server before you install Enterprise Discovery, your Enterprise Discovery server will not work properly. For example, you will not be able to view the Health Panel or Find (SCR #14831).

Server

Installing another version of ActivePerl after installation of Enterprise Discovery may break Enterprise Discovery (SCR #14279).

If your server has another service using port 80, the Peregrine Apache service may 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).

In some cases, there is an error reported when uploading a scanner configuration file, but only when Scanner Generator is executed on the Enterprise Discovery server. Save the scanner configuration to a different name instead (SCR #14369).

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).

Web UI

The "Resource/ Environment manage" property in Network Configuration doesn't have any effect since no statistics are collected in Enterprise Discovery 2.0 (SCR #14388).

Sometimes web pages under Reports do not completely render or print source code in Mozilla Firefox. Use the refresh button (SCR #13952 and #14063).

Some web pages do not render correctly if the configuration of the Enterprise Discovery server has the decimal separator as any other character than "." (SCR #14307).

When IP ranges that have a Scanner Property Group with the Scanner Frequency set to a non-zero value are combined with "All off" Agent Property Group, the Scanner Frequency value is changed to zero when the changes are activated. There will be no warnings to tell you that this value has been changed (SCR #13985).

Scanners

In Manual Deployment mode, the UNIX scanner will not save offsite scan files to a Microsoft FTP server when the user name is specified in the form domainname/username (SCR #12893).

Corrections (Since Enterprise Discovery 2.0)

The following corrections have been included in Enterprise Discovery 2.0.1.

For further updates see the Customer Support web site at
http://support.peregrine.com.

SCR #	What's affected	Description
13408	Installer	The progress bar did not accurately reflect time required for installing each component.
13780	Apache Server	Apache Server Token is now configured to not disclose information about the server version and modules.
14139	Agent Ping	The Agent Ping was timing out on some devices.
14235	UNIX Scanner	It was possible for several UNIX scanners to run on the same computer simultaneously. This has been fixed so that only one UNIX scanner will run at a time.
14291	Home Page	Some UTF-8 characters were not displaying properly.
14295	Aggregator	Enterprise Discovery's ability to import data to the Aggregator has been optimized.
14364	SAI Editor	When creating a new User SAI for the first time, a dialog window would appear, warning the user that the next SAI ID cannot be found.
14371	Installer	The "previous version installed" warning text in the installer has been rewritten to be more clear.
14373	*Installation and Initial Setup Guide*	The minimum RAM requirement for Client installation was too high.
14372 14374	Agent	Added more integrity checks to the Agent checkpoint restore logic to prevent crashes when the checkpoint file is corrupt.
14383	Scanned Asset Detail Reports	These reports displayed unnecessary columns.
14386 14387	IP Ping/Traceroute	When Windows was not installed on C:\WINDOWS, IP Ping and Traceroute did not work.
14394	Discovery Log	An incorrect time stamp was causing errors in the Discovery Log.
14396	Agent Ping	An Agent Ping may have shown an incorrect version number.
14398	Logical Disk Report	There was an SQL syntax error in this report.
14402	Client Installer	The client install failed with an obscure error message when launched on Windows NT.

SCR #	What's affected	Description
14403	Installer	The Desktop Inventory limited installation and the Enterprise Discovery client installation could be installed on the same machine.
14404	Account Properties	There was a "Statistics" option for selecting a default Device Manager/Port Manager panel, which is not applicable for this release.
14406	Agent Property Groups	There were extra quotation marks around the schedule names in Add/Modify Agent Property Group.
14407	Navigation Tree	The navigation tree used the wrong icon for **Administration** > **System preferences** > **Report display**.
14410	List Remote Servers	Formatting was fixed for **Aggregate View** > **Administration** > **Remote Servers** > **List Remote Servers**.
14412	SAI Editor	Added functionality to allow easier viewing between SAIs in SAI Editor.
14415	SAI Editor	SAI name is now displayed in the left pane of the SAI Editor.
14418	Navigation Tree	The wrong icon was displayed for **My Account Administration**.
14423	Scanner Generator	In Enterprise mode, the Scanner Generator now always saves the configuration file with a cxz extension.
14425	Find	Find could return invalid result from the Filter table, when the device was not found in the database.
14426	Aggregate View	Aggregate View disables the Aggregate Administration link when an itemployee/itmanager account logs in.
14431	Installer	The list of port conflicts was sometimes not displayed when installer was finished.
14434	Uninstall	When Desktop Inventory was installed on the same server as Enterprise Discovery, and Enterprise Discovery was uninstalled, some of the Enterprise Discovery icons would remain on the Start menu.
14442	Database	There was a missing index file in the Aggregate.Model table.
14454	Installer	Autorun.inf referenced a non-existent file.
14460	Scanner Generator	There was an Access Violation in Scanner Generator Scanner options page.
14464	Scanner Generator	Scanner generator now allows data other than IP address in enterprise mode (for example, host name).
14468	SAI Editor	There was an Access Violation when deleting from User SAI.
14471	Agent Usage Plugin	User name/group in usage file was sometimes corrupted.
14509	Agent Deployment	By default, the system will now try to deploy agents to devices represented with the gray question mark ("?") icon.

SCR #	What's affected	Description
14525	Scanner Generator	When using the enabling java class file option, the resulting scan files could be very large. This feature has been optimized to keep the file size manageable.
14526	Network Explorer	127.0.0.1 is no longer added as a device during discovery if you have enabled the "Create partial device models" option at **Administration** > **System preferences** > **Network devices**.
14527	SAI Editor	Merging application was corrupting the SAI.
14519	SAI Editor	SAI corruption may have occurred while merging identical items in the user SAI ranges when they exist in two different user SAIs.
14532	Template Scan Files	Removed the appliance section from the scan template files.
14550	Device Modeler	Network model updates now trigger the agent deployment process, so agent deployment will happen more quickly.
14551	Status/Device Manager (Update Model)	There were some unknown or empty fields for scanner commands and operations.
14582	Analysis Workbench	The Analysis Workbench would sometimes hang when teaching.
14604	Discovery Engine	Discovery Engine service would sometimes stop when the user overwrote the **Number of Explorer Pings** option at **Administration** > **System preferences** > **Network devices**.
14626	Solaris Scanner	The version of the Solaris OS may have been reported incorrectly. To avoid confusion, now trailing zeros will be removed. Also, maintenance version numbers can be added. For example, the internal version of Solaris 2.5 is now reported as "5.5" not "5.50".
14805	Copyright Data	The LGPL license was not included in the product Third Party Copyright chapter of the Reference Guide.
14829	Allow Agent Downgrade Allow Scanner Downgrade	The Agents and Scanners were not always downgraded properly when these features were enabled.
14832	Scanner Generator	The checkbox that enables/disables targeted scanning of directories for software utilization was not working properly.
14867	Agent Installation	When the favorites folder was unavailable, Agent installation would fail.

Need further assistance?

For further information and assistance with this release or Enterprise Discovery in general, contact Peregrine's Customer Support.

Peregrine's CenterPoint Web site

Contact information for local support offices is available through the main contacts shown below or through Peregrine's CenterPoint Web site: http://support.peregrine.com

After logging in with your login and password:

■ Select **General Information**, on the left.

Under **Customer Support References**, select **Support Contacts Worldwide**.

Corporate Headquarters

Contact Customer Support at Peregrine headquarters using one of the following:

Address:	Peregrine Systems, Inc.
Attn:	Customer Support
	3611 Valley Centre Drive
	San Diego, CA 92130 USA
Telephone:	(1) (800) 960-9998 (US and Canada only, toll free)
	+ (1) (858) 794-7428
Fax:	+ (1) (858) 480-3928
Email:	support@peregrine.com

Contacting Education Services

Training services are available for the full spectrum of Peregrine Products including Enterprise Discovery.

Current details of our training services are available through the following main contacts or at:

http://www.peregrine.com/education

Address:	Peregrine Systems, Inc.
Attn:	Customer Support
	3611 Valley Centre Drive
	San Diego, CA 92130 USA
Telephone:	+ (1) (858) 794-5009
Fax:	+ (1) (858) 480-3928

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