

# HP OpenView Enterprise Discovery

For the Windows® Operating System

Software Version: 2.0.3

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## Release Notes



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# Enterprise Discovery 2.0.3 Release Notes

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

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# 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 2.0.3 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.

## 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 as 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 1024-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.



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## New Features and Improvements

Enterprise Discovery 2.0.2 contains a few new features and improvements. The *Release Notes* describe some of the improvements. For all the details, refer to the rest of the product documentation.

### Third Party Components

MySQL has been upgraded to version 4.1.18.

### DNS Servers

You can now configure up to 6 DNS servers (**Administration > System Preferences > Server Configuration**).

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## 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.x, see [Upgrading from Enterprise Discovery 2.0.x on page 12](#).

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 2.0.3.

### 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.x

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.

## Server Upgrade

**Note:** When upgrading from 2.0.0, due to some database changes, the first time starting up Enterprise Discovery 2.0.3 will seem slower than normal (this is not an issue when upgrading from 2.0.1 or 2.0.2). 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.

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 If you have customized your own SAIs, you must back them up as well. (They are located, by default, at `C:\Program Files\Peregrine\Enterprise Discovery\2.0.x\Common`.)
- 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.
- Note:** When you go through the 2.0.3 installation wizard, you will have to configure 2.0.3 to recognize the new location.
- 6 Install the Enterprise Discovery 2.0.3 server as described in the *Installation and Initial Setup Guide*.
  - 7 If you customized your User SAI, move it into the 2.0.3 Common folder (by default, C:\Program Files\Peregrine\Enterprise Discovery\2.0.2\Common). Run the SAI through the SAI Update Wizard, and Enterprise Discovery 2.0.3 will start using it.

## Client Upgrade

On your client workstations, you must also upgrade to 2.0.3.

- 1 Using the Windows **Add or Remove Programs** feature (**Start > Control Panel**) Uninstall Enterprise Discovery 2.0.
- 2 Install the Enterprise Discovery 2.0.3 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.

None of the guides have been reissued for Enterprise Discovery 2.0.3.

Manual	Description
Planning Guide	<p>Use this guide to:</p> <ul style="list-style-type: none"><li>■ Gain an insight into some of the concepts behind planning an IT asset inventory</li><li>■ Prepare your network for installation.</li></ul> <p>The guide also contains a preformatted sample inventory planning form that you can use as a starting point.</p>
Installation and Initial Setup Guide	<p>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.</p> <p>It covers the following topics:</p> <ul style="list-style-type: none"><li>■ Upgrade and Migration Scenarios</li><li>■ Server Installation</li><li>■ Client Installation</li><li>■ Server Configuration</li><li>■ Configuring IP ranges</li><li>■ Configuring Property Groups</li><li>■ Setting up Accounts</li><li>■ Backing up and Restoring Data</li><li>■ Uninstalling Enterprise Discovery</li><li>■ Security Checklist</li><li>■ Knowledge Updates</li><li>■ Updating your Custom Application Library</li></ul>

Manual	Description
Network Data Analysis Guide	<p>Use this guide to learn about the data collected by the “networking” portions of Enterprise Discovery.</p> <p>It covers the following topics:</p> <ul style="list-style-type: none"><li>■ Finding Network Devices</li><li>■ Health Panel and Alarms Viewer</li><li>■ Events Browser</li><li>■ Device Manager</li><li>■ Port Manager</li><li>■ Exporting Data</li><li>■ Deleting Data</li><li>■ Reports</li></ul>
Scan Data Analysis Guide	<p>Use this guide to:</p> <ul style="list-style-type: none"><li>■ Learn how to use the analysis tools to view and analyze inventory data</li><li>■ Teach applications to your library.</li><li>■ Analyze and interpret software utilization data.</li></ul>
Customization and Configuration Guide	<p>Use this guide to customize and configure the components of Enterprise Discovery to your own specifications.</p> <p>It covers the following topics:</p> <ul style="list-style-type: none"><li>■ Setting up Accounts</li><li>■ Adding, Removing Devices</li><li>■ Device and Port Properties</li><li>■ Configuring Agent and Scanner Settings</li><li>■ Scanner Generator</li><li>■ XML Enricher</li><li>■ Sending Data to AssetCenter</li></ul>
Reference Guide	<p>Use this guide to learn more in depth about the concepts and features of Enterprise Discovery.</p> <p>It covers the following topics:</p> <ul style="list-style-type: none"><li>■ Terms and Concepts</li><li>■ Recorded Events</li><li>■ Scanners</li><li>■ Scanner Plugin-SDK</li><li>■ FSF Converter</li><li>■ Copyright Information</li></ul>

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**.

## Copyright for OpenSSL

The OpenSSL license has been updated. The following Copyright supersedes the one that appears in the Reference Guide.

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This product includes cryptographic software written by Eric Young ([eay@cryptsoft.com](mailto:eay@cryptsoft.com)). This product includes software written by Tim Hudson ([tjh@cryptsoft.com](mailto:tjh@cryptsoft.com)).

Original SSLeay License

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This library is free for commercial and non-commercial use as long as the following conditions are adhered to. The following conditions apply to all code

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## Known Issues

### User.sai from Desktop Inventory 7.3.1

The SAI Update Wizard in Enterprise Discovery 2.0 cannot read the User.sai file from Desktop Inventory 7.3.1 (SCR #15800).

If you want to use your User.sai from Desktop Inventory 7.3.1 with Enterprise Discovery 2.0, you must first upgrade from Desktop Inventory 7.3.1 to version 8.0.

The User.sai file from Desktop Inventory 8.0 is compatible with Enterprise Discovery 2.0.x.

### SAI Location Path

When you upgrade to Enterprise Discovery 2.0.3 (from 2.0, 2.0.1, or 2.0.2), the location of the Master.sai file may not be updated in the XML Enricher.ini file (located at *<data directory>\Conf\XML Enricher.ini*) (SCR #15493).

**The issue can be corrected by following these steps:**

- 1 Stop the Peregrine System Monitor service (this will stop all of the Peregrine services running on the server).

- 2 Edit the XML Enricher.ini file so it points to the correct location for the sai files (in the Program Files directory):

```
[RecognitionConfig.RecognitionConfig_cfgSAIFiles]
```

```
Count=2
```

```
Item0=C:\Program Files\Peregrine\Enterprise  
Discovery\2.0.3\Common\User.sai
```

```
Item1=C:\Program Files\Peregrine\Enterprise  
Discovery\2.0.3\Common\Master.sai
```

- 3 Restart the Peregrine System Monitor service.

## Agent Support

Previous versions of the product Compatibility Matrix listed Agent support for Windows ME. Agent installation on Windows ME will not work, so it has been removed from the Compatibility Matrix (SCR #15229).

## Documentation

The Install Guide says that a client install needs a minimum of 256MB of RAM. In fact, 500MB is the minimum requirement (SCR #15151).

## Server

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

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 #13803).

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).

In the Aggregate View, the **Administration > Data Management** menu does not appear (SCR #15221).

## Device Manager

The Device Manager may crash Apache when you click buttons before the window has fully loaded (SCR #15213).

## 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).

A scanner in stand-alone mode that is configured to take the asset field from the hwAssetTag asset field and refill from an off-site location will not refill any asset data (SCR #15233, #15242).

The DOS/Windows 3.1 scanners do not properly save a scan file because the default type of scan file is now set to XSF. For these scanners to work, you need to change the type to "FSF" in the Scanner Generator (SCR #15237).

## Scanner Generator

In Manual Deployment mode, if you move back and forth through the wizard, your selections may not remain. When you return to a screen, the defaults will reappear (SCR #15238).

## Installer

When installing the client machine, there may be conflicting warnings about minimum RAM requirements (SCR #15239).

## Audit Logging

In **Administration > System Preferences > Server Configuration**, if you enable “Log User Actions,” you must restart the Enterprise Discovery server to initiate the change (SCR #15246).

## Corrections (Since Enterprise Discovery 2.0.2)

The following corrections have been included in Enterprise Discovery 2.0.3.

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

SCR #	What's affected	Description
14756	Events Browser	When looking at Server Access Events, the "Accounts" and "From IP" columns would be blank. <b>Note:</b> These columns will still appear blank for events that occurred when you were using Enterprise Discovery 2.0.2.
14786	Solaris scanner	The scanner was failing on CD-ROM detection.
14945	Exporting to SMS 2003	The MIF files produced by Enterprise Discovery could not be loaded into SMS 2003.
15218	Update Model > Query Network	The "From IP" field was not being populated in the database.
15228	Analysis Workbench	When performing a Save State (with Installed Apps Recognition enabled), an error would appear.
15260	Scanned-only devices in database	Scanned-only devices were not being added to the aggregate database when licence was previously exceeded.
15269	Win32 Scanner (no UI)	Some scan files were going into the failed directory, not the Processed folder, and were experiencing an internal error: gtid error "invalid ScannerType value"
15271	UNIX scanner	There were intermittent errors with the Unix scanner. The scanner appeared to freeze during the file scan process.
15279	Solaris scanner	Solaris swap File scanning was reporting incorrect sizes.
15302	Win32 scanner	The discusage agent was causing a Security Failure Alert.
15305	XML Enricher	The XML Enricher would stop when processing new scan files that were dropped into the incoming directory.
15311	Status > Aggregate Health	The number of devices in the Aggregator did not necessarily match the number of devices in all the remote servers.
15322	Device Manager > Update Model	<b>Run Rulebase</b> would reset the icon to the unknown "?" icon in some cases.
15337	Administration > System Preferences > Attribute export schedule	The settings here would be ignored for some attributes.

SCR #	What's affected	Description
15345	Win32 scanner	In some cases, FTP was not working with the -p command line option.
15417	Usage Agent	Several instances of the discuge.exe process were appearing on Windows 2003 servers.
15475	Custom Agent Deployment	The custom agent script was not always launching.
15494	User SAI	The User SAI may have become corrupted if you tried to remove items from it.
15496	Discovery ports	The ports used by Enterprise Discovery to poll the network were being used by other applications. The ports have been closed.
15544	Alarms Viewer	The <b>Edit &gt; Copy</b> command was not working properly.
15559	Linux scanner	SMBIOS handing was broken, so some fields were not collected, etc.
15591	License Limits	Enterprise Discovery was not deactivating devices and ports when the system has exceeded its license.
15594	Utilization Data	The limit for utilization data was reduced to 2MB.
15610	Agent Deployment	Agent Deployment would not work properly if multiple options were selected in <b>Administration &gt; System Preferences &gt; Agent Communication &gt; Agent deployment method</b> .
15620	Agent process when upgrading or uninstalling	When upgrading or uninstalling, the Agent process was stopped and the files were deleted, but the usage processes would remain active.
15748	Teaching SAIs	Sometimes when adding to the User SAI, duplicate entries would be created.



## 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:	<a href="mailto:support@peregrine.com">support@peregrine.com</a>

## 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