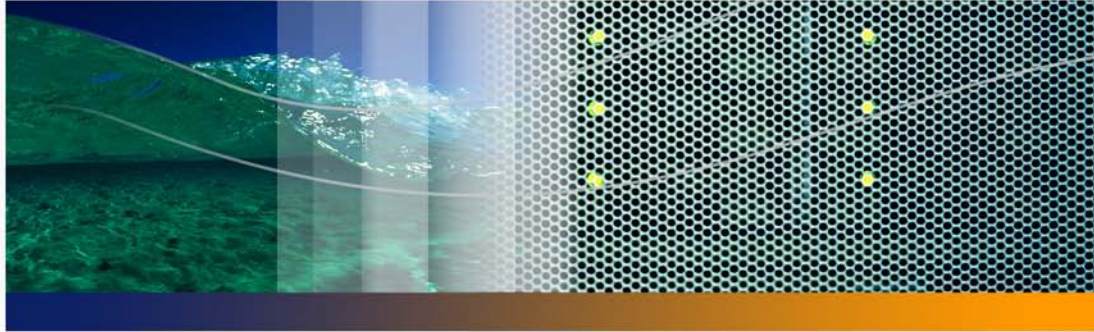


Peregrine Systems, Inc.

Enterprise Discovery™ 2.0.2



Release Notes

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Enterprise Discovery 2.0.2 Release Notes

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

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- New Features and Improvements on page 9
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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 2.0.2 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 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

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

The following components have been upgraded:

- Mod_perl 2.0.2
- Apache 2.0.55 (with patches)
- MySQL 4.1.16

Agent Deployment

- If agent deployment is enabled, Enterprise Discovery will now automatically redeploy agents that have been manually removed (on Win32 computers only).
- The following columns were added to Status > Devices:
 - Agent Upgrade State
 - Agent Upgrade Time
 - Agent Last Seen

Note: Agent last seen will be unknown after the upgrade until the agent has been contacted by Enterprise Discovery 2.0.2.
- It is now possible to use a share other than ADMIN\$ to deploy agents (**Administration > Agent Deployment Accounts**).

Scanner Generator

The Scanner Generator now uses SSL when sending scanner configurations to the Enterprise Discovery server.

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 2.0.2.

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.

Note: After upgrading from 2.0.0, due to some database changes, the first time starting up Enterprise Discovery 2.0.2 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 If you have customized your own SAs, 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. (Enterprise Discovery 2.0.2 has a new feature that allows you to change the default location of the Data directory.)

Note: When you go through the 2.0.2 installation wizard, you will have to configure 2.0.2 to recognize the new location.

- 6 Install the Enterprise Discovery 2.0.2 server as described in the *Installation and Initial Setup Guide*.
- 7 If you customized your User SAI, move it into the 2.0.2 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 2.0.2 will start using it.

Client Upgrade

On your client workstations, you must also upgrade to 2.0.2.

- 1 Using the Windows **Add or Remove Programs** feature (**Start > Control Panel**) Uninstall Enterprise Discovery 2.0.
- 2 Install the Enterprise Discovery 2.0.2 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 2.0.2.

Manual	Description
Planning Guide	<p>Use this guide to:</p> <ul style="list-style-type: none">■ Gain an insight into some of the concepts behind planning an IT asset inventory■ Prepare your network for installation. <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">■ 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	<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">■ Finding Network Devices■ Health Panel and Alarms Viewer■ Events Browser■ Device Manager■ Port Manager■ Exporting Data■ Deleting Data■ Reports
Scan Data Analysis Guide	<p>Use this guide to:</p> <ul style="list-style-type: none">■ 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	<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">■ 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	<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">■ Terms and Concepts■ Recorded Events■ Scanners■ Scanner Plugin-SDK■ FSF Converter■ Copyright Information

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

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

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 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 #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).

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 2.0.1)

The following corrections have been included in Enterprise Discovery 2.0.2.

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

SCR #	What's affected	Description
9333	Help > Exceptions	This list now only shows exceptions relevant to your license.
13273	XML Enricher	Some corrupt scan files were not being processed properly, and would get stuck in the incoming directory causing no other scan files to be processed.
14369	Server	In some cases, there was an error reported when uploading a scanner configuration file, but only when the Scanner Generator was executed on the Enterprise Discovery server.
13985 14969	Network Configuration	When IP ranges that had a Scanner Property Group with the Scanner Frequency set to a non-zero value were combined with "All off" Agent Property Group, the Scanner Frequency value was changed to zero when the changes were activated.
14438	Aggregate Database	Just after Enterprise Discovery started, the ODBC connection to the database would not allow users to connect. This was typically a problem on underpowered hardware.
14556	Win32 Scanner	The scanner was unable to collect SMBIOS on some versions of Windows with terminal services enabled.
14567	Analysis Workbench, Viewer	The Analysis Workbench and Viewer would crash when attempting to view a corrupt scan file.
14599	Audit.log	The audit.log did not contain the IP address of the user who initiated actions through the Enterprise Discovery UI (for example, when clicking Activate Changes).
14767	Help > Database Schema	The links on the navigation tree did not match the contents of the help menu.
14831	Java applets (Health Panel, Find, etc.)	If there was an older version of ActivePerl on the server before you install Enterprise Discovery, the installer may not have detected this, resulting in a broken installation.
14844	Security Template	The Security template has been updated.
14868	Find/Alarms Viewer	The Object menu would sometimes display the 'Update Model' command when multiple devices were selected, even if some of those devices did not support the command.

SCR #	What's affected	Description
14938	Home Page	Depending on the characters used in the server name, the server name may not have displayed properly.
14939	Security/Scanner Generator	Scan configurations sent from the Scanner Generator were not being authenticated properly.
14940	Update Discovery Database	Administration > Data Management > Update Discovery Database now works as intended.
14950 14959	Agent Deployment Accounts	When there were more than 20 Agent Deployment Accounts configured, agent deployment may not have worked properly.
14965	Scanner Generator	The Scanner Generator now defaults to the XSF file type. Note: Enterprise Discovery 2.1 will no longer support the FSF file format. Customers are encouraged to migrate to the XSF format prior to the 2.1 release.
14964	Agent Deployment Logs	The Agent Deployment logs have been improved to remove similar lines by grouping where possible.
14981	User.SAI	When uninstalling Enterprise Discovery, your user.sai files are no longer deleted.
14983	Database	Not all application data was correctly imported when a new scan file was created for a device. When a new scan file was processed and it no longer contained an application, the removed application would remain in the database.
14986	Firewall	Apache SSL has been added to the firewall exception list.
14998	Discovery Engine	The discovery engine has been optimized to use less CPU when there are no devices in the modeling queue.
14999	Devices Discovered	The "Devices Discovered" counter on the Home page now includes hidden devices.
15006	Scanner Generator	In some cases, the Scanner Generator was unable to load scan files when using the browse option in Enterprise mode.
15007	Scanner Deployment	The Scanner Deployment feature has been optimized to take less CPU.
14953 15009	Security	The Enterprise Discovery server incorrectly allowed external access to port 8112, 8113, 8114, and 8115.
15012	Discovery Engine	If the community string of the SNMP Agent of the Enterprise Discovery server changes, the Discovery Engine is now notified.
15013	Homepage	There is now a warning on the home page if there is no community string configured for your Enterprise Discovery server.
15044	Date/Time	Many dates and times in the user interface were off by one second.
15085	Cross-site Scripting	There was a cross-site scripting vulnerability in the web page error handler.

SCR #	What's affected	Description
15088	Device Manager	The Port increment entry in the Device Manager Ports panel was not working properly.
15096	Web Server	The unnecessary TRACE/TRACK HTTP methods are disabled on the web server
15097	Web Server	Directory listings are no longer allowed in the web server.
15098	Discovery Engine	Changed the memory allocator so the memory is less fragmented, and Enterprise Discovery will run better with less memory.
15104	Analysis Workbench	When teaching a file in Analysis Workbench, in the Add to SAI window - the Save Changes to SAI - Immediately option caused all files in the Files window to become unprocessed.
15122	UNIX/Linux Scanners	Scanner run-time was off by 3%.
15125	Administration	When removing all device types from Administration > System Preferences > Agent Communication > Agent Deployment Device Types , the Discovery Engine would not run.
15128	Scanner Generator	Scanner Generator sometimes gave an error when saving a configuration to the server.
15131	XML Enricher	When setting Administration > System Preferences > Scan Processing > Application Recognition to "no", applications would still be recognized.
15138	Network Configuration	When using Firefox, the user could not add a Scanner Property Group (Administration > Network Configuration > Scanner Property Groups > Add a Scanner Property Group).
15139	Administration	The Router Discovery result in the user interface was empty even though routers were discovered.
15186	Exceptions	There is a new Device Has Lost SNMP Management exception.
15189	SAI Editor	The incremental search timeout has been increased to 2 seconds.
15191 15192	Web	Turn off autocomplete on fields requiring a domain, login, or password.
15197	Aggregator	Some web pages on a remote server were not accessible.
15198	Network Configuration	When selecting an agent item in Administration > Network Configuration > List IPv4 Ranges , you will no longer see a "page not found" error.
15225	SAI Editor	When you save an SAI, the relations explorer now closes.
15226	SAI Editor	When importing an MSI, the UI ensures that you select all necessary information.

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
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