

HP Discovery and Dependency Mapping Inventory

For the Windows® operating system

Software Version: 7.51

Release Notes

Manufacturing Part Number: None

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Software Release Date: March 2009



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HP Discovery and Dependency Mapping Inventory

Release Notes

Software version: 7.51 / March 2009

This document provides an overview of the changes made to Discovery and Dependency Mapping Inventory (DDM Inventory) for version 7.51. It contains important information not included in the manuals or in the online help.

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Conventions Used in this Document

By default, when you install the DDM Inventory server software, all the components will be in one of the locations specified in the following table. The placeholders are used to represent the DDM Inventory program and data folders referenced in this document:

Folder	Placeholder	Platform	Default Location
Program Files	<InstallDir>	Windows Server 2008 x64	C:\Program Files (x86)\Hewlett-Packard\DDMI\7.51
		All others	C:\Program Files\Hewlett-Packard\DDMI\7.51
Data Files	<DataDir>	Windows Server 2008	C:\ProgramData\Hewlett-Packard\DDMI
		Windows Server 2003	C:\Documents and Settings\All Users\Application Data\Hewlett-Packard\DDMI

You can customize both of these locations when you install the DDM Inventory server.

In This Version

Introduction

These release notes are for DDM Inventory 7.51. This version of the product is the upgrade path for users of DDM Inventory 7.50 and Enterprise Discovery 2.5x and 2.2x.

To see what features have been introduced in previous versions of DDM Inventory (formerly called Enterprise Discovery), refer to the *Release Notes* for the versions noted above. These are available on your installation CD under `bin\documentation`.

Number of Devices

Each DDM Inventory server can collect data from a maximum of 50,000 inventoried devices and 60,000 discovered devices in total. The port limit is 150,000 ports (whichever comes first). A DDM Inventory Aggregator can support 50 servers and up to 500,000 devices.

Updated Third-Party Components

- MySQL 5.0.72
- OpenSSL 0.9.8i
- OpenSSL 0.9.7m
- Apache HTTP Server 2.2.10
- JRE 1.5.0_17

New Features

Managing Devices with Dynamically Assigned IP Addresses

By default, DDM Inventory will no longer deactivate devices with duplicate main IP addresses in its database. Instead, DDM Inventory will remove the main IP address from the older device record and will unschedule all modeling and scanning requests to run on the older device until the device's new IP address is discovered.

The default setting ensures that DDM Inventory will not deactivate devices in its database that have had their IP addresses reassigned to a different device. This is useful if many users connect their devices to the network infrequently and for short periods of time. In such cases, IP addresses are reused and assigned to other devices.

You can configure DDM Inventory to deactivate a device in its database if it discovers another device with the same IP address. The configuration option is located at **Administration > System Configuration > Network devices > Deactivate older devices with duplicate IP addresses**. This option defaults to YES on upgrade and to NO on a new install.

For more details about this feature, refer to the “Adding, Removing, and Replacing Devices” chapter in the *Configuration and Customization Guide*.

Support for Windows 2008 Server x64

The DDM Inventory 7.51 Server can be installed on the 64-bit version of Windows 2008 Server. Refer to the *Compatibility Matrix* for information about all supported platforms.

Scanner Enhancements

- The number of physical CPUs, logical CPUs, and CPU cores are now correctly reported on HP-UX for both HPPA and HP Itanium platforms.
- 19 new Intel, AMD, and VIA Technologies CPUs are now detected by the scanner hardware detection logic

Compatibility Notes

Aggregate Database Change

The `File_ApplicationName` column in the `File` table of the `Aggregate` database is now obsolete. You must use the data in the `File_Description` column instead.

Agent and Scanner Support Information

Scanner and agent support for the following platforms was removed as of release 7.50:

Platform	Last Release Providing Support
IBM AIX 5L 5.0 and 5.1	Enterprise Discovery 2.52

All other scanners and agents supported in the 2.5x releases and the 7.50 release of this product are supported in the 7.51 release. Refer to the [Compatibility Matrix](#) for the 2.5x release of interest for the list of all supported platforms.



It is possible to use the scanners and agents from previous releases if you explicitly specify the scanner and agent versions using the configuration options on the following pages:

Administration > System Configuration > Scanner deployment

Administration > System Configuration > Agent communication

Obsolete Features

All features in 7.50 are supported in release 7.51. See [Compatibility Notes](#).

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://h20230.www2.hp.com/selfsolve/manuals/>

- 1 Clear the **Show only my products** box.
- 2 In the Product list, click the product name (for example, DDM Inventory).
- 3 In the Version list, click the version number.
- 4 In the OS list, click the operating system type.
- 5 Click **Search**. A document list is displayed that matches your search criteria.
- 6 In the document list, click the document title. The document opens in your browser window.



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 DDM Inventory user interface:

- *Planning Guide*
- *Installation and Initial Setup Guide*
- *Configuration and Customization Guide*
- *Network Data Analysis Guide*
- *Scan Data Analysis Guide*
- *Reference Guide*

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

- *Legacy Scanners*

The *Configuration and Customization Guide* has been reissued for this release to document the new way DDM Inventory manages devices with dynamically assigned IP addresses. See [New Features](#).

Installation Notes

Instructions for installing DDM Inventory are documented in the *Installation and Initial Setup Guide* provided in Adobe Acrobat (.pdf) format.



Perl, MySQL, Tomcat and Apache are standard parts of the DDM Inventory, included with each server installation. If you have these components installed already, make sure to remove them before installing DDM Inventory. You may NOT substitute any other technologies in place of the standard installation.

Software and Hardware Requirements

The following sections detail the requirements for the DDM Inventory server and client components, respectively.

Client Requirements

The DDM Inventory client components (Analysis Workbench, SAI Editor, SAI Update Wizard, System Panel, and Viewer) have the following minimum requirements:

Resource	Requirement
Operating System	Windows 2000, XP, 2003, 2008 or Vista
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	See Help > Compatibility Matrix in the DDM Inventory GUI for versioning information

Server Requirements

The DDM Inventory Server can be installed on 32-bit versions of Windows Server 2003 (SP1, SP2, or R2) or Windows Server 2008 (SP1) or the 64-bit version of Windows Server 2008. Refer to the *Compatibility Matrix* for information about all supported platforms.

Recommended Server Platforms

For large servers (up to 50,000 devices), the following is recommended:

- HP Proliant Model: DL380 G5 (Performance)
- CPU: 2 x Quad Core (Intel® Xeon® 5400 series)
- Memory: 8 GB
- Disk: See the Software and Hardware Requirements section below.

For medium servers (up to 15,000 devices), the following is recommended:

- HP Proliant Model: DL360 G5 (Performance)

- CPU: 1 x Quad Core(Intel® Xeon® 5400 series)
- Memory: 6 GB
- Disk: See the Software and Hardware Requirements section below.

Sample Server Scenarios

The following table details a variety of scenarios that can help you estimate your server hardware requirements. The Disk value is for your data directory. You will require at least 6GB for the DDM Inventory installation.

The information presented below is for illustration purposes only. Proper sizing of the DDM Inventory server(s) may require the assistance from a qualified architect. HP recommends utilizing experienced resources to assist in architecture and the initial deployment of DDM Inventory. Among the factors that need to be considered and which will impact the infrastructure architecture are the following:

- Number of and distribution of devices (such as if slow WAN links exist between large population groups)
- Type of and amount of information collected (examples below demonstrate the impact software utilization will have on overall system capacity)
- Frequency of scans (the example below assumes the scan interval is every two weeks; more frequent scanning may require additional server capacity)
- Amount of data collected (the examples below assume an average scan file size of ~250KB, which is representative of an average PC (large servers may generate considerably more data and therefore require additional capacity to process the data)
- Environmental factors, such as integrations with other products, network characteristics, and operational requirements may impact the architecture of the DDM Inventory solution
- The number of XML Enricher instances that are running on the server
- The settings in the virus checker installed on the server. Virus checking can add significant overhead.

Table 1 – Suggested Hardware Requirements

Discovered Devices	Inventoried Devices	Ports	Aggregation	Automated Inventory	Topology	Memory (GB)	CPU*	Disk (GB)
6,000	5,000	36,000		x		1.5	1 CPU 2.4 GHz	25
6,000	5,000	36,000		x	x	3**	1 CPU 2.8 GHz	40
18,000	15,000	108,000		x		2	2 CPUs or cores 3.0 GHz	70
18,000	15,000	108,000		x	x	5	2 CPUs or cores 3.0 GHz	105
60,000	50,000	150,000		x		4	2+ CPUs or cores 3.6 GHz	200
60,000	50,000	150,000		x	x	7	2+ CPUs or cores	260

Discovered Devices	Inventoried Devices	Ports	Aggregation	Automated Inventory	Topology	Memory (GB)	CPU*	Disk (GB)
							3.6 GHz	
50,000	50,000	n/a	x	n/a	n/a	2	2 CPUs or cores 3.0 GHz	10
500,000	500,000	n/a	x	n/a	n/a	3	2 CPUs or cores 3.6 GHz	50

- CPU processor speeds are approximate guidelines. Newer CPUs may have lower frequencies but higher performance than those shown in the table. HP DDM Inventory consists of multiple processes, many of which are also multi-threaded. As a result, it benefits from Simultaneous Multi-Threading (SMT) technologies such as Intel® Hyper-Threading and Multi-core.

** This is for 5 map sessions. If you want to use more than 5 map sessions, you will require more memory.

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)
- **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)

Storage Requirements

DDM Inventory is a **highly I/O intensive** application. High I/O performance of the disks where the data resides is **crucial** to the correct operation of DDM Inventory. Disks need to reside local to the DDM Inventory server or on a high performance SAN. Network drives and clusters are not supported. Some customers have reported problems with SAN environments so they are not recommended.

Benchmark your disk I/O performance prior to installing DDM Inventory for management of any large environment. For a medium to large DDM Inventory server deployment, minimum recommended throughput (as benchmarked on an idle system when the DDMI Inventory server is not running) is 70 MB/sec for read accesses and 40MB/sec for write accesses.


Your disk space requirements may differ depending on how you are using DDM Inventory.



For performance reasons, the disk where DDM Inventory data is stored should have at least 4K clusters.

For the average size of scan files, refer to the “Disk Space Considerations” chapter in *Installation and Initial Setup Guide*. The inventory data collected in the scan file is stored in compressed format. For processing, it gets extracted and populated into the database. In addition, if delta scanning is enabled, DDM Inventory keeps a copy of the original scan file as well as the enriched copy. Because of these extra disk space

requirements, we recommend that you budget at least 5 times as much disk space for each device being scanned.

 If your average scan file size is large, adjust your disk space requirements accordingly.

Recommended Fault Tolerance Configurations

The recommended fault tolerance configurations are the following:

- Raid 1
- Raid 1+0

DDM Inventory has been tested and can be successfully installed in a RAID (redundant array of independent drives) level 0 and level 1 environment.

RAID level 0 uses a striped disk array strategy that does not provide fault tolerance. Data striping spreads out blocks of each file across multiple disk drives. In our test environment we use 2 drives. This configuration does not provide for redundancy, however it improves performance. If one drive fails then all data in the array is lost.

RAID level 1 uses a mirrored set strategy that provides fault tolerance from disk errors and single disk failure. It results in increased read performance with very small performance degradation when writing. The array continues to operate so long as at least one drive is functioning.

Because it offers the best tradeoff of performance and reliability, level 1 is the recommended RAID platform for DDM Inventory. For large networks, level 0 can also be used if performance is more important than fault tolerance. RAID level 5 is not supported.

Upgrading from Earlier Releases

If you are upgrading from DDM Inventory 7.50, Enterprise Discovery 2.5x, or Enterprise Discovery 2.2x, follow these steps:

Step	Instructions
1. Back up your discovery data	Refer to “Backing Up and Restoring Your Data” in the <i>Installation and Initial Setup Guide</i>
2. Copy your Analysis Asset Field configuration (if necessary – not required when upgrading from DDM Inventory version 7.50)	See “Copy Your Analysis Asset Field Configuration” below
3. Uninstall the older version	See “Uninstall Older Version” below.
4. Install DDM Inventory version 7.51	Refer to “Server Installation” or “Client Installation” in the <i>Installation and Initial Setup Guide</i>
5. Copy User SAI files into new location (not required when upgrading from DDM Inventory version 7.50)	See “Copy User SAI Files” below.

Copy Your Analysis Asset Field Configuration



This section does not apply when you are upgrading from version 7.50.

The XML Enricher now reads the analysis asset field configuration from the `viewer.ini` file located in the `<DataDir>\Conf` directory, where `<DataDir>` is the location of the DDM Inventory data folder that you specify at install time.

If your analysis asset field configuration used for the XML Enricher is already in the `viewer.ini` file, it will be used, and no action is required.

If this configuration is no longer available, you must manually copy the analysis field section of the `xmlenricher.ini` file to the `viewer.ini` file before upgrading to DDM Inventory version 7.51.

Uninstall Older Version

After you have backed up your discovery data, you must uninstall the DDM Inventory/Enterprise Discovery components before installing DDM Inventory version 7.51.

To remove the older version components installed on your system:

- 1 In **Control Panel > Add/Remove Programs** (for Windows Server 2003) or **Control Panel > Programs and Features** (for Windows Server 2008), select HP Discovery and Dependency Mapping Inventory or HP Enterprise Discovery depending on the older release that you have installed.
- 2 Click **Remove**. Follow the on-screen instructions.
- 3 *Optional:* You can also uninstall the discovery Agent if you so choose. This is not necessary, however. When the DDM Inventory server starts up, it installs an Agent if and only if the server machine does not already have an Agent.
- 4 Remove the following folder: `<OldInstallDir>\Tomcat`

In this case, `<OldInstallDir>` is the installation directory that you specified when you installed DDM Inventory or Enterprise Discovery. By default, this was:

Version 2.2x	C:\Program Files\HP OpenView\Enterprise Discovery\2.2*
Version 2.5x	C:\Program Files\Hewlett-Packard\Enterprise Discovery\2.5*
Version 7.50	C:\Program Files\Hewlett-Packard\DDMI\7.50

- 5 *Optional:* View the DDM Inventory uninstall log file, which contains a list of all the files and folders that were removed during the uninstall:
`<OldInstallDir>\uninstall\uninst_ED.log`
- 6 Restart your server.



You must restart your server before installing DDM Inventory version 7.51.



If you have the client tools of a previous release installed, you must remove them. DDM Inventory does not support multiple versions of the client tools on the same machine—whether it is the DDM Inventory server machine or any other system where the client tools are already installed.

Copy User SAI Files



This section does not apply when you are upgrading from version 7.50.

Beginning with Enterprise Discovery 2.50, all User SAI files are stored in this location:

```
<DataDir>\SAI
```

where *<DataDir>* is the data folder that you specify at installation time.

If you are upgrading from Enterprise Discovery 2.2x or 2.5x, the default *<DataDir>* is the location of the data folder prior to the upgrade. For Enterprise Discovery 2.2x and 2.5x, the default *<DataDir>* was:

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

SAI files that are configured to be used with the XML Enricher are explicitly specified in the following file:

```
<DataDir>\Conf\Xml Enricher.ini
```

When you upgrade to DDM Inventory version 7.51, any User SAI files listed in this file are automatically copied into the *<DataDir>\SAI* folder. Any User SAI files that are not listed in this file are not copied.

You should perform the following steps after you install DDM Inventory version 7.51:

- Copy any User SAI files that were not automatically copied during the installation into the *<DataDir>\SAI* directory.
- If you are upgrading from an Enterprise Discovery version 2.2x installation, copy the *<OldInstallDir>\Common\sai.ini* file into the *<DataDir>\Conf* directory.

Here, *<OldInstallDir>* is the destination folder that you specified when you installed Enterprise Discovery version 2.2x. The default was:

```
C:\Program Files\HP OpenView\Enterprise Discovery\2.2*
```

For version 2.5x and 7.50 installations, the *sai.ini* file is already located in *<DataDir>\Conf*.

Enhancements and Fixes

The following items were fixed in the current software release (identified by error tracking number).

Table 2 Enhancements

Number	Location	Description
QC19266	Server	After discovery configuration changes have been activated, the Server will promptly attempt to schedule the scanner deployment workflow on the devices where the workflow had previously failed.

Table 3 Problems Fixed

Number	Location	Description
QC18964	Server	SUSE platforms no longer require the <code>PasswordAuthentication</code> entry in the <code>/etc/ssh/sshd_config</code> file to be enabled for agentless scanning to work properly. The SUSE default to use <code>keyboard-interactive</code> for SSH authentication is now supported.
QC18983	Linux Agent	The signal handling warning – <code>SIGCHLD</code> set to <code>SIGNIGN</code> but calls <code>wait()</code> – no longer appears in the system log or the console when the Linux Agent is running.
QC19006	Administration > System Configuration > Scan Processing	The details of the User SAIs with no description were not shown.
QC19012	Mac OS X PPC Scanner	The CPU model on Mac OS X platforms is now displayed correctly.
QC19015	Status > Device Status > Agent status	The “Application Usage Manager failed” error message is rebranded to refer to the current names for the Usage Manager and the product.
QC19027	Scanners	In rare circumstances, the scanner failed when collecting inventory information about certain monitors – this has been fixed.
QC19028	Windows Agents	DDM Inventory can now uninstall the HP Client Automation Application Usage Manager Agent (version 7.2x) after migration if so requested.
QC19033	Server	The logging of warning messages in the aggregate event import job is now limited to a maximum of 100 entries per Event file to avoid flooding the discovery log.

Number	Location	Description
QC19037	Server	Data generated during agentless scanning is now saved in a directory private to a specific server. This should prevent interference with a local agent or another server performing an agentless scan on the same device.
QC19043	Mac OS X Agent	The Mac OS X agent no longer erroneously uses port 2738 when it is configured to use port 7738.
QC19047	Server	The Agent Communicator no longer experiences delays when trying to open a Windows RPC session.
QC19055	Network Map	The Network Map now opens properly when handling multi-byte character encoded strings in the Device Title or Device Tag fields.
QC19081	Help	The <code>Host.Host_OS</code> and <code>Host.Host_OSVersion</code> columns are now correctly specified in the schema documentation.
QC19093	Administration > Discovery Configuration > Schedules Administration > Discovery Configuration > Configuration Profiles	The “Associated Profiles” tab under the Schedule detail page now correctly displays all profiles associated with a schedule. The drop-down lists of schedules under various Configuration Profiles now correctly list newly added schedules.
QC19106	Windows Scanner	When the Scanning for Applications/Program Files Scanner Generator option is enabled, the scanner now shows this option in the log along with other targeted scanning options.
QC19115	Server	The settings for “Location of Scanner Executable for Agentless Scanning” under Administration > System Configuration > Scanner Deployment are no longer randomly reset during Activation.
QC19117	Server	The scanner deployment workflow now automatically switches the port used for agent communication when the “Agent port” option (under Administration > System Configuration > Agent communication) is modified, and the Server can no longer contact the Agent using the old port value.
QC19121	Scanners	A fatal program error no longer occurs in the Scanners when the trace log option is used.

Number	Location	Description
QC19122	Device Manager	If the “Accept changed public client key” option is not selected in the Agent profile, and the public client key on a scanned device with this profile changes, the Server will generate an exception. When this happens, the option to reset the recorded SSH public key for this device from the Device Manager is now enabled.
QC19125	Server	The agentless scanning workflow no longer fails to communicate with the managed device if an agent is (or was) installed on it.
QC19133	Reports	The information in the Solaris Zones Reports in the Aggregate Reports is now reported consistently.
QC19136	Server	Previously, workflow communication occasionally failed with a <code>java.net.SocketException: Socket is closed</code> error, even though communication with the targeted device could be established.
QC19137	Find	Aggregate Find by MAC Address now works properly.
QC19140	Server	Scheduling devices to be rescanned now works correctly when the “Automatic workflow interval configuration” option (under Administration > Discovery Configuration > Scanner Configuration Profile) is set to very short time intervals (for example, 1-2 hours).
QC19142	Status > Device Status > Agent Status	The filtered values for Status > Device > Agent > SSH Public Key Status no longer all display as n/a .
QC19152	Server	Remote discovery of a VMware ESX server no longer fails when there is no host or VM information defined – as is the case when a VMware ESX server installation is fresh and has no virtual machines defined yet.
QC19153	Analysis Workbench SAI Editor	When multiple User SAIs were loaded, saving changes caused the IDs of items to be incremented in some cases. This problem may have caused <code>!NOT IN SAI!</code> entries to appear in the Analysis Workbench.
QC19154	Administration > Data Management > Update device models	Administration > Data Management > Update device models is no longer missing the “Run Agentless Scanner” action.
QC19155	Server	Device modeling scheduling has been optimized to allow devices with older models to be modeled in priority sequence and to use proper modeling intervals to reload the queue for device model updates.

Number	Location	Description
QC19156	Server	The Discovery Engine no longer experiences memory exhaustion problems, as it can now allocate up to 3GB of memory if the Windows server has the /3GB option enabled in boot.ini.
QC19161	Server	On UNIX/Linux/Mac machines, the scanner deployment workflow now follows the correct sequence for all the deployment credential combinations.
QC19162	Administration > Data Management > Update device models	Actions related to the agent and scanner workflows are now disabled if the corresponding “Automatic agent deployment active” and “Automatic scanner deployment active” options under Administration > System Configuration > Discovery services are turned off.
QC19166	Server	If the file containing the services statistics becomes corrupted, it no longer causes the DDM Inventory server to stop functioning.
QC19174	Administration > System Configuration > Scanner Deployment	The “Scanner Versions” configuration options now list the 7.5x scanner versions in the drop-down list.
QC19178	Server > Administration > Discovery Configuration > Deployment Credentials	When you select multiple deployment credentials and click Delete , the action now deletes multiple credentials instead of only a subset of the selected items.
QC19181, QC19218, QC19440	Server	The XML Enricher no longer hangs when processing some corrupt scan files.
QC19188	Server	The Discovery Engine now loads the last used credentials on start-up for agentless scanning authentication.
QC19192	UNIX Scanners	The likelihood that a scanner will fail due to a stale NFS mount on a UNIX device has been greatly reduced. Note that there is still a small chance that the scanner will fail if the NFS server is improperly configured.
QC19194	Server	The old SSH public key now gets reset in the database when you click Reset in the Device Manager or perform a bulk reset on the Administration > Data Management page.

Number	Location	Description
QC19198	Administration > System Configuration > Agent communication	If the “Allow downgrade agent version” option on the Administration > System Configuration > Agent communication page is set to Yes , a warning about downgrading the agent version is no longer displayed for devices where the Agent is not installed.
QC19199	Device Manager	The Device Manager now shows the last scanner deployment workflow type used in the diagnostics panel.
QC19207	Administration > System Configuration > Scan processing	The custom drop-down list of the “SAI file used to store rule-created items” configuration option under Administration > System Configuration > Scan processing now displays all the user SAI files.
QC19209	Server	The XML Enricher health file is no longer locked by the UI when the Status > Current Settings > System configuration page is displayed.
QC19210	Server	Creating the activation report for the Discovery Configuration has been optimized for speed on very busy systems. The UI no longer times out when attempting to render the activation page.
QC19214	Server	Under certain circumstances, events could not be aggregated properly.
QC19216	Network Map	The Network Map now opens correctly when the Package Title includes multi-byte Japanese characters.
QC19217	Server	The race condition no longer occurs when importing events into the Aggregate database.
QC19236	Administration > Discovery Configuration > Device Groups	The pagination navigation controls now work correctly when you display the Device Type conditions for a Device Group.
QC19238	Server	More details about agentless scan workflow failures on Windows are now available in the Device Manager and the <code>discovery.log</code> file.
QC19239	System Panel	The service statistics data is now correctly displayed when the Daylight Savings Time change occurs.
QC19240	HP-UX HPPA Agent and Scanner	The agent and scanner no longer fail to run on HP-UX (HPPA) due to the unavailability of the <code>libiconv.sl</code> shared library.
QC19241	Server	Null pointer exceptions generated by the Agent Communicator during the agentless scanning workflow have been addressed.

Number	Location	Description
QC19247	Server	If the Discovery Engine fails to run a scanner on a managed device, it will make another attempt to re-run the scanner when a model update completes.
QC19270	Server	When errors are encountered during SSH agentless scanning, more detailed information is now reported in the log files.
QC19271	Server	The Agent Communicator no longer overwrites a legitimate NMID on a device that has already been scanned if the main IP address for the device changes.
QC19273, QC19352	Server	When new devices are discovered by means of VMware discovery (VMware hosts and virtual machines), they will now be automatically triggered for SNMP modeling.
QC19301	Server	The configuration options used by the XML Enricher are now properly processed during an upgrade.
QC19302	HP-UX Scanners	The scanner no longer fails to run on HP-UX (HPPA) 11.00 and 11.11 systems with the error <code>/usr/lib/dld.sl: Unresolved symbol</code> . Although this problem only occurred on HPPA devices, the fix is included in the scanners for both HPPA and Itanium platforms.
QC19308	Device Manager	When model updates for large devices took more than 9 hours, Device Manager reported incorrect recent device modeler update run times.
QC19309	Server	Safety checks have been added so that the Discovery Engine no longer crashes when performing specific operations as part of the agentless scanner deployment workflow.
QC19311, QC19336	Server	When switching from agentless to agent-based scanning, the Discovery Engine no longer uses an un-initialized agent port value, which caused communication with the device to fail unless you restarted the Discovery Engine.
QC19312	HP-UX (ia64) Scanner	The scanner now correctly detects and reports the description of network interface cards that are link (port) aggregators.
QC19313	Solaris Agent	The Agent no longer fails to run on Solaris (SPARC) due to the unavailability of the <code>libiconv.sl</code> shared library
QC19324	HP-UX (ia64) Scanner	CPU speed on certain HP-UX (ia64) platforms was incorrectly reported.
QC19331	HP-UX (HPPA) Agent	The Agent no longer fails to run on HP-UX (hppa) 11.00 and 11.11 systems with the error <code>/usr/lib/dld.sl: Unresolved symbol</code> .
QC19332	Windows Agent	The DDM Inventory Agent will now listen on all dynamically established interfaces (for example, VPN tunnels).

Number	Location	Description
QC19340	Windows Scanner	The Windows Security updates list can now be seen in the scan file for Windows 2008 systems.
QC19349	Scanner	The Scanner can now save the scan file based on the NMID asset tag – even if the NMID is only one character long.
QC19369	Database	The <code>Aggregate.hwOSWMISoftwareFeatures</code> table is no longer missing from the list of tables that is checked and repaired (if necessary) at start-up time.
QC19374	Server	When switching the agentless scan setting “Accept changed public client key” from false to true , the agent status report will no longer indicate a public key mismatch when the SSH workflow has succeeded on the node.
QC19376	Server	After the IP address of a device has changed, the server will automatically switch to the new IP address for subsequent VMware discovery attempts (provided that VMware discovery is configured).
QC19391	Server	The Agent Communicator no longer reuses the last good credentials when these credentials have been removed from the credentials list.
QC19399	Server	The Discovery Engine no longer crashes when it parses an invalid IPv4 address.
QC19400	Applets	The Network Map now displays a warning message when the session is in use.
QC19403	Server	If there are several versions of the Mac OS X x86 Agent and the Windows Agent on a DDM Inventory Server, the Discovery Agent no longer erroneously uses the Mac OS X x86 Agent version instead of the Windows Agent if the Mac OS X x86 Agent version is more recent than the Windows version.
QC19405	Web UI	When a full-path URL is specified in the browser’s address box, the correct UI page is displayed (rather than defaulting back to the DDM Inventory main page).
QC19406	Aggregator	In some cases, data transferred from remote servers could not be imported into the aggregator database due to data conversion failures. This occurred when incoming inventory (<code>WorkstationConfiguration</code>) files from remote servers running a previous DDM Inventory version were converted to the version running on the Aggregator.
QC19434	Aggregator	The Aggregator server no longer contains left over scan file information for devices that do not have scan files.

Known Problems, Limitations, and Workarounds

Agents

- When you install the Agent on Windows Vista machines using an account other than the "Administrator" account, the firewall exception is not added into the exceptions list (QC# 382).
- On Mac OS X 10.4.10 and above, there may be a problem with contacting the Agent because it can be blocked by a firewall. The Agent port needs to be enabled manually either via **System Preferences > Sharing > Firewall** or via the XServe administration tool in case of centralized administration (QC# 674).
- When using the Internet Explorer and downloading an Agent from the Agents download page, the `tar.gz` files are saved incorrectly as `tar.tar` (QC# 18945).

Agentless

- In the agentless log file, the first line of the log indicates that there was error removing the `ovedscansvc.exe` file. This is just a warning message and does not mean there is necessarily an error (QC# 19019).
- When using agentless scanning, once SSH credentials have been successfully used to scan a device and they are still configured to be used and valid, the credentials cannot be changed (QC# 19038).

Scanners

- Automounts are being scanned in HP-UX and Linux systems (QC# 1163).
- In the Scanner Generator if a previously generated file is used to populate the Scanner Generator options and software scanning is disabled, the Scanner will still attempt to store any previously configured custom stored files. (QC# 19042).

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 (QC# 1275).
- For files in the root directory, the leading slash is missing from the beginning of the UNIX directory structure in AW (QC# 1480).
- The Analysis Workbench sample script does not run on Windows 2008 because the default directories are not set correctly. The script works properly on all other supported platforms. (QC #19475).

Server Installation

- After an uninstall, the branding registry keys are left over (QC# 1434).
- Non-ASCII characters used in data directory path name can cause problems during the installation (QC# 16520 and QC# 1472).

- When uninstalling DDM Inventory on a small server, the uninstaller may not be able to stop the database. It may take several tries to uninstall the software (QC# 2405).
- DDM Inventory with a Network Topology license should not be installed on VMware (QC# 5271).

Server

- VMware discovery may, in some cases, use an incorrect IP address if the VMware image has been recently powered off. (QC# 19379)
- In some cases, the ID assigned to the `auto.zsai` and the `user.zsai` files may be the same. This results in the inability to load both files into the client tools at the same time (QC# 4448).
- An older OpenSSL DLLs in the system PATH can affect the DDM Inventory Apache server and Perl engines (QC# 5447).
- If your server has another service using port 80, the HP Discovery Apache service will not run properly. As a workaround, you can comment out the “Listen 80” directive in the `httpd.conf` file (QC# 6670).
- If there is a MySQL query that takes too long, DDM Inventory will not function properly and you may need to restart System Monitor to recover (QC# 7409).

Web User Interface

- When connecting to the web UI using Firefox 3.0 with JRE 1.5 on Windows 2008 machines, Firefox may close when an applet is opened. (QC# 19437)
- Credentials may disappear after navigating to the “Associated Profiles” tab and back using the Back button on the browser. (QC# 19417)
- After an agentless scan using SSH has successfully been run, the account used for this connection cannot be changed unless you delete the account from the DDM Inventory UI. (QC# 19398)

Administration

- When the password of the logged in user is changed, the applets are unaware of the change and require restarting before they can be used (QC# 4457).
- Depending on the licenses, the “Resource/ Environment manage” option in Discovery Configuration may not have any effect (QC# 7034).
- In some situations, DDM Inventory will not recognize that a community string has been changed if the only change is to the case of a letter (QC# 18844).
- In the Service Analyzer, device breaks may show up in the filter list for line breaks (QC# 18988).
- In some cases, in the “Active Devices” status report, the “Modeling Status” values for scan-only devices may be falsely reported (QC# 19036).
- If a VirtualCenter server does not respond to a request, DDM Inventory will not report an error (QC# 19059).
- In some situations, the Agent ping button in Device Manager may not ping a device. The agent ping may not function until the next time the scanner workflow runs. (QC# 19063).

Web Asset Questionnaire

- In Internet Explorer, when connecting to the main page through a proxy server, the “You are connecting from” IP address reported will be the IP address of the proxy server not that of the remote computer address (QC# 764).
- The UI may show non-printable characters in text fields (QC# 2408).

Reports

- The + symbol in the Navigation Tree next to reports is missing. This does not affect functionality. (QC# 18894).

Licensing

Alarms License

- Alarms-related items are not always hidden (QC# 5673).

Internationalization

- If the name of a User zSAI file contains Chinese characters, the XML Enricher may not be able to load that zSAI file. (QC# 19402)
- When non-ASCII characters are used to define Schedules in the Discovery Configuration, the **Status > Current Settings > Discovery Configuration** may display errors when listing the Configuration Profile information (QC# 490).
- Various UI screens (reports, status reports, Device Manager, and so on) format the “day of the month” part of the date as Arabic numerals instead of using the language option configured by the operating system (QC# 416).
- There are several problems with the SAI Editor accepting characters in the Korean code page (QC# 507, QC# 508).
- The statistics graphs do not use the language options configured in the operation system and will always format the dates in English (QC# 2043).