

HP Discovery and Dependency Mapping Inventory

For the Windows® operating system

Software Version: 7.60

Release Notes

Manufacturing Part Number: None

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HP Discovery and Dependency Mapping Inventory

Release Notes

Software version: 7.60 / August 2009

This document provides an overview of the changes made to Discovery and Dependency Mapping Inventory (DDM Inventory) for version 7.60. It contains important information not included in the manuals or in the online help.

Conventions Used in this Document

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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\7.60
		All others	C:\Program Files\Hewlett-Packard\DDMI\7.60
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 7.60. This new version of the product is the upgrade path for users of DDM Inventory 7.5x and Enterprise Discovery 2.5x.

If you want to see what features have been introduced in previous versions of DDM Inventory (formerly called Enterprise Discovery), you can read the *Release Notes* for those versions available on your installation CD under `bin\documentation`.

License Schema

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

- Java Runtime Environment (JRE) 1.6.0_u13

New Features

New features have been introduced in this version of DDM Inventory that offer powerful advantages to the existing functionality. In addition to general product enhancements, this release offers significant additional capabilities in the areas of software inventory and application teaching (used in the recognition process) and support for mobile and infrequently connected devices such as field sales force notebooks. They are outlined in the following sections.

Application Recognition

Express Teaching

This release introduces a new web-based Express Teaching Tool. It provides a simplified interface for adding Windows software to the Software Application Index (SAI). It enables you to normalize the presentation of discovered software components into Recognized Applications – that is, teach unrecognized files. The Express Teaching Tool simplifies the task of teaching files, improves application recognition coverage, and saves you time.



The SAI Editor and Analysis Workbench need to be used for teaching complex applications.

Before using Express Teaching, you must configure an SAI to store the results. See **Administration > System Configuration > Scan Processing**.

For more information, refer to “Application Teaching” in the *Scan Data Analysis Guide*.

Package-based Teaching

DDM Inventory collects and displays information about installed packages, including RPM, Depot, BFF, MSI, and Pkg formats, as well as the relationships between these packages and files that belong to them. You can use this information to teach new applications or new versions of existing applications.

- Scanners can now collect information about which files (found as part of the software inventory) belong to which installed packages. To enable it, the Scanner Generator has two new options: a Hardware Data option (Packaged File Data) that you can use to enable or disable collection of file/installed package relationship information, and a Software Details option (Packaged File Data) that specifies whether directories of where packages were installed should be scanned.
- A new column in the Viewer displays the package name and version as part of the directory and file data. The Viewer also has a new “Go to Installed Package” local menu item.
- The SAI Editor has the ability to create new installed package rules to recognize applications packaged in a standard package file format, avoiding the need to teach application files to the SAI.
- The SAI Editor now provides a Package column when you import information from recognition results. By sorting on this column, you can group all files belonging to a particular package together, even though they may be located in different directories scattered throughout the file system. You can then easily teach all files belonging to a particular package. This is useful for applications that can be supplied both in packaged as well as unpackaged installation format.

Collecting the package information and creating rules based on it allows DDM Inventory to automatically recognize newer versions of applications.

For more information, refer to “Application Teaching” in the *Scan Data Analysis Guide*.

Software Inventory Reports

The Reports have been re-organized to help you quickly find all software discovered on a device. The new Software Inventory Reports group includes three types of reports, each with drill-down capability:

- The Recognized Applications reports provide details about software applications detected on your scanned devices that are currently included in the DDM Inventory SAI. This includes information about licenses and utilization.
- The OS Reported Applications reports provide information about software applications and features that were reported by the operating system on each scanned device. These applications may or may not be included in the Recognized Applications.
- The Unrecognized Files reports list the files on your scanned devices that were not recognized as belonging to a known application.

Note that the Recognized Applications (formerly called Applications) and Unrecognized Files reports were previously included in the Scanned Device Reports group.

For more information, refer to “Using the Reports” in the *Network Data Analysis Guide*.

UNIX Operating System Versions

It has always been challenging to recognize UNIX operating system versions based on installed files alone. DDM Inventory Scanners can now identify the operating system and report its version reliably using two hardware fields in their scan files. This method of determination achieves much improved recognition of UNIX operating system versions.

For more information, refer to “Application Recognition” in the *Scan Data Analysis Guide*.

Support for Devices Infrequently Connected or on VPN or DHCP

DDM Inventory will now work more consistently with devices that make infrequent and short connections to the network. The new “Call Home” option allows these devices to be discovered and scanned on a regular basis. This is of particular advantage for networks that have VPN clients or very short DHCP lease time. With the Call Home capability, the client device will contact the DDM Inventory server the first time it connects to the corporate network or if no activity has occurred within a defined time interval after it has connected.

The Call Home option is enabled by default. This option comes into play in the following scenarios:

- Devices that have not connected within a defined interval. The inventory information for these devices is most probably out of date. The Agent will call the DDM Inventory Server to notify it that the device is on the network and needs to be scanned.
- Devices that have never connected but have the Agent installed as part of the corporate image. The Agent will call the DDM Inventory Server. This action provides immediate initial discovery of new devices that have just connected to the network. The new devices will be processed at a higher priority by the DDM Inventory Server, thus minimizing the period of time for which you have no inventory information about the new devices.

In addition to the Call Home feature, DDMI now has the following additional capabilities:

- A priority queue for requesting inventory updates from the devices that use the Call Home function
- The ability to retrieve the existing scan file on the device (if it is more current than the one in the DDM Inventory database) before the Server initiates the next scan. This option is disabled by default but can be enabled in **Administration > System Configuration > Scanner Deployment**.

As users on your network become increasingly mobile, Call Home enables all of your devices to be discovered and inventoried in a timely manner.

For more information, refer to “Setting Up Agents and Scanners” in the *Installation and Initial Setup Guide*.

Scanner Enhancements

Support for Prelinked ELF Files on Linux Systems

The new ELF Prelinking Aware Scanner option provides for better file recognition on Linux systems. It instructs the Scanner to determine whether an executable file has been prelinked by the ELF Prelinking Utility (prelink). If this option is enabled, the Scanner will calculate the size and signature of the file before it was prelinked. This is useful for accurate application recognition, because the file size and signature are used to perform application matching. However, enabling this option produces extra overhead during the scan, as the Scanner needs to run the prelink utility to obtain the original executable file.

For more information, refer to the “Scanner Generator” chapter in the *Configuration and Customization Guide*.







Support for Virtualization HP-UX vPar and IBM AIX LPAR

Scanners now capture virtualization related attributes from HP-UX Virtual Partitioning (vPar) and IBM AIX Logical Partitioning (LPAR). These hardware attributes provide comprehensive information about the relationships and resources used by virtual machines. This information is populated in the `hwOSContainerProperties` table in the Reporting database.

For more information, refer to the “Virtualization in DDM Inventory” chapter in the *Reference Guide*.

New Device Types

DDM Inventory can now successfully identify several new device types. The following table shows the new devices and the icons that represent them:

Icon	Device	Icon	Device
	Windows 7 Server		Windows Thin Client
	Windows 7 Workstation		Windows CE Thin Client
	Linux Thin Client		Windows XP Embedded Thin Client

For a comprehensive list of device types, refer to **Help > Classifications > Device Types** in the DDM Inventory Web UI.

Digital Signatures

Files that are built by HP and shipped as part of DDM Inventory are digitally signed by the Hewlett-Packard Corporation. The following file types are covered: *.msi (except Win32 agent MSI), *.exe, *.dll, *.sys, *.jar and *.war.

Compatibility Notes

Reports Database Changes

Deletions

- The `File_ApplicationName` column in the `File` table has been deleted. Use the `File_Description` column instead.
- The `Aggregate.Appliance.Appliance_ProxyConfig` column in the `Appliance` table has been deleted, since the proxy management facility has been removed.

Additions

- The `hwOSContainerProperties` table has been added.
- The `hwOSInstalledAppNormalizedPublisher`, `hwOSInstalledAppProductCode`, and `hwOSInstalledAppPackageType` columns have been added to the `hwOSInstalledApps` table.
- The `hwOSContainerType` column has been added to the `hwOSContainers` table.
- The `Version_Description` column has been added to the `Version` table.
- The `hwOSWMISoftwareFeatureNormalizedVendor` column has been added to the `hwOSWMISoftwareFeatures` table.
- The `File_NormalizedPublisher` column has been added to the `File` table.
- The `Device_AgentSSHPublicKeyStatus`, `Device_AgentWorkflowType`, and `Device_AgentAUMUpgradeState` columns have been added to the `Device` table.
- The `hwOSInstalledAppNormalizedPublisher`, `hwOSInstalledAppProductCode`, and `hwOSInstalledAppPackageType` columns have been added to the `hwOSInstalledApps` table.
- The `hwOSWMISoftwareFeatureNormalizedVendor` column has been added to the `hwOSWMISoftwareFeatures` table.

Modifications

- The `Directory.Directory_Path` column in the `Directory` table has been increased in size from 255 to 1024 characters.
- The `Application`, `ApplicationCategory`, `Company`, `Language`, `OperatingSystemGroup`, `Release`, and `Version` tables are now populated with the full contents of all the loaded SAIs rather than just those which are actually found on inventoried devices.

Scanner Support Information

All Scanners and Agents supported in the 7.5x releases of this product are supported in the 7.60 release. Refer to the Compatibility Matrix for the 7.5x release of interest for the list of all supported platforms.



If you upgrade from a previous release, 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

Health Panel

The footer panel that contains the server clock has been removed because most of its content has been deprecated. The server clock can now be found in the Connection Info panel. See the Connection Info command in the File menu.

Enterprise Mobility Suite

DDM Inventory no longer supports the integration of the Enterprise Mobility Suite (EMS) server to collect, store, and display information about mobile devices.

Client Install

The installation of the client tools is no longer supported on Windows Server 2000. You must use Windows XP/Vista or Windows Server 2003/2008.

Event Notification Delay

Event notification delays have been removed. All events filters in **Administration > Event Filter Configuration** will have their delay configuration removed and will now operate without notification delays.

Alarms License

This release contains legacy code and capabilities known as “Alarms” functionality. This code is provided in support of existing customers who acquired a license for this part of the product prior to HP’s purchase of Peregrine Systems and is not available to any new customers. This functionality continues to exist “as is” and is no longer being maintained by the DDM Inventory product organization.

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>

This site requires that you register for an HP Passport and sign-in. To register for an HP Passport ID, go to:

<http://h20229.www2.hp.com/passport-registration.html>

Or click the **New users - please register** link on the HP Passport login page.

You will also receive updated or new editions if you subscribe to the appropriate product support service. Contact your HP sales representative for details.

NOTE: To view files in PDF format (*.pdf), Adobe Acrobat Reader must be installed on your system. To download Adobe Acrobat Reader, go to the following web site:

<http://www.adobe.com/>

The following PDF documents are available in the DDM Inventory Web UI:

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

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 requirements:

Resource	Requirement
Operating System	Windows XP/Vista, Windows Server 2003/2008
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 (SP1 or SP2). 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 Storage 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 Storage 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 a bi-weekly scan interval, 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 Enrichers 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 must be installed on a local disk. It cannot be installed on network drives, SAN drives, or clustered devices. 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. It improves performance but does not deliver fault tolerance. 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 as 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

For information about upgrading from earlier releases of DDM Inventory refer to the “Upgrade and Migration Scenarios” chapter in the *Installation and Initial Setup Guide*.

Enhancements and Fixes

The following items were added or fixed in the current software release. Table 2 lists enhancements to existing features or behavior. Table 3 lists problems that were fixed (identified by error tracking number).

Table 2 - Enhancements

Location	Description
Administration > System Configuration > Recognition file data	This page has been removed since it contained only one option setting (Import File Data). This option has been moved to Administration > System Configuration > Scan processing page for better organization.
Agentless Scanning	The size of binaries used to perform agentless scans on Windows systems has been reduced.
Aggregate Status > Aggregate Server Health	The display is now more readable as a result of combining the Name and IP columns into a single column.
Device Manager > Update Model Panel Administration > Data Management > Update device models	There is now an option to reset SSH public keys.
Documentation	The “Agent Deployment” section in the “How DDM Inventory Works” chapter in the <i>Reference Guide</i> has been renamed and enhanced to better explain Agent security.
Documentation	Application teaching content was re-organized and expanded for improved usability.
Inventory	A new exception has been created for devices that no longer have an IP address in the DDM Inventory database.
MIB Browser	You can now use the option-click on the Type column (that is, click the Option key while clicking the column header) to sort it alphabetically.
Online Help	A link was added to the on-line help from the Help navigation tree.
Reports	When exporting report data to comma separated values (CSV), even if the query times out, the query will continue to run and the export data is available immediately. Also, the local and aggregate Inventory report has been added to the list of reports to run overnight.

Location	Description
Reports	<p>In the Detail Reports section of Reports > Scanned Devices, additional menu items are now available:</p> <ul style="list-style-type: none"> • The Inventory of Scanned Devices (Hardware) report displays device hardware data. • The Inventory of Scanned Devices (Application Columns) report displays device application data. <p>The title of the previous Inventory of Scanned Devices report has been renamed Inventory of Scanned Devices (All Columns). Links have been added to each report to enable you to switch to any of the alternate Scanned Device views.</p>
Reports	<p>A new VMware inventory report is now available that lists only VM host devices. To view a list of the individual VMs hosted by a particular device, click the VM Count column for that device.</p>
Reports	<p>The Find functionality in the report request module has been enhanced to allow for greater flexibility in queries and better usability. It has been added to the report request module wherever it makes sense to have it.</p>
Reports	<p>The sort direction in reports is now displayed.</p>
Reports	<p>CSV export initiated by clicking on the [Export] link in most reports, now runs significantly faster. Also, if the <code>CNode_LabelMAC</code> column is present in the list of exported fields, it will now have a space inserted after the first 6 characters to improve legibility and to ensure that spreadsheet programs do not interpret it as a number.</p>
Scanner (Windows)	<p>The following enhancements were made to the Windows Scanner:</p> <ul style="list-style-type: none"> • The Windows Scanner now collects the real content of the System32 directory on 64-bit Windows platforms. Previously System32 and SysWow64 directories were identical and contained details of 32-bit executables because of the file system redirection for Win32 applications. • Leading and trailing spaces are now stripped from version data fields collected from Windows executable files. • The <code>hwOSInstalledAppProductID</code> hardware field is now populated for applications packages in the MSI format whenever it is available. The new <code>hwOSInstalledAppProductCode</code> hardware field stores the MSI's product GUID.
Scanner Generator	<p>The “Installed Applications” checkbox has been renamed to “OS Registered Applications” and the “Installed Applications (WMI)” checkbox has been renamed “WMI Software Features” for greater clarity.</p>
Scanner Generator	<p>All dialogs now have access to online help.</p>
Server	<p>When the DDM Inventory Server processes the scan file from a device and discovers that the preferred IP address reported in the scan file is different from the one currently used for SNMP modeling, the Server may re-run SNMP modeling process on the new address to keep information in the database up-to-date.</p>

Location	Description
Server	Performance has been improved and memory usage requirements are reduced during DDM Inventory Discovery Engine startup.
Solaris SPARC Scanner	Core/logical CPU detection now occurs on UltraSPARC CPUs using the CoolThreads technology.
System Panel	Hardware panel content is updated upon request (for example, a request to detect up-to-date available disk space).

Table 3 - Problems Fixed

Number	Location	Description
QCCR1C186	Administration > Account Administration	The “Web access” option is now disabled when adding Aggregator/Scanner type accounts.
QCCR1C4457	Applets	There is no longer any need to restart all browser sessions when users change their DDM Inventory passwords.
QCCR1C18753	Administration > Discovery Configuration	Tabs are now remembered even after the Refresh button is clicked.
QCCR1C18831	Server	Before running the daily backup, tables are checked. If needed, a repair is attempted.
QCCR1C18844	Administration > Discovery Configuration	Community string change detection is now case sensitive.
QCCR1C18860	Scanner Generator	Close All Windows on home page now prompts you if you are in the middle process of generating a Scanner.
QCCR1C18866	Device Manager > Configuration Panel	The device addresses are now sorted more efficiently.
QCCR1C18898	Help > Database Schema > Base Sub-Schema	Database documentation now refers to “Discovery Configuration” instead of “Network Configuration.”
QCCR1C18924	Aggregator	The page context is preserved when going back and forth between Discovery Configuration pages located on the Aggregator and on the remote server(s).
QCCR1C18942	Administration > System Configuration > Scanner deployment	The “Clean up PDI data from workstations” option was removed since it was obsolete.

Number	Location	Description
QCCR1C18945	Administration > Data Management > Agent download	Internet Explorer no longer downloads a .tar.Z file and saves it as a .tar.tar file.
QCCR1C18990	Server	The restore window does not occasionally show up any more after a system reboot.
QCCR1C19004	Administration > Discovery Configuration > Configuration Profiles > Agent Profiles	The 3 drop-down menus (Agent deployment actions, Agent automatic upgrade schedule, and AUM agent migration) no longer return to their default values (if something else has been selected) after new credentials are added.
QCCR1C19010	Administration > Discovery Configuration > Configuration Profiles	Returning from an “Associated Device Group” in any of the Profiles screens now returns you to the proper tab and window.
QCCR1C19011	Administration > Discovery Configuration > Device Groups	Navigation between Device Groups and associated Profiles is now properly handled.
QCCR1C19017	Documentation	A help file has been added for the aggregate report inventory data transfer interval.
QCCR1C19031	Server	A race condition that seldom occurred when starting the Discovery database causing the System Monitor to abort has been eliminated.
QCCR1C19036	Status > Device Status > Active devices	The Modeling status no longer displays misleading information for scan only devices.
QCCR1C19041	Server	The device license limit for scanned devices is now reported consistently.
QCCR1C19045	Status > Unrecognized files distribution	Some minor UI issues with this screen have been resolved.
QCCR1C19051	Documentation	All obsolete information about the Alarms and Attribute Graph tabs has been removed from the “Service Analyzer” chapter in the <i>Network Data Analysis Guide</i> .
QCCR1C19078	UI	You can now log in using a browser that is configured with locales other than English without incurring an error since all non-English standard message files generated by 3rd party tools have been removed.
QCCR1C19079	Virtual Devices	For the VMware host, the Show Virtual Devices command is now disabled for devices already showing in the Virtual Devices window for that host.

Number	Location	Description
QCCR1C19089	Administration > Discovery Configuration > Schedules	Schedule names having exactly 256 characters are now properly handled.
QCCR1C19094	Documentation	An incorrect error message is no longer displayed in the online help when you attempt to delete a schedule that is associated with a profile.
QCCR1C19116	Reports	VirtualCenter reports are now sorted by VM Host device within a VirtualCenter device.
QCCR1C19131	Health Panel	“My User Alarms” command is now disabled when no selection is made in User Preferences.
QCCR1C19145	Administration > Event Filter Configuration > Modify a filter	The Java Script error: “state_transition_submit is not defined” no longer occurs when you submit the filter modification.
QCCR1C19148	Administration > Discovery Configuration > Device Groups > Device Group Details	Duplicate IP addresses imported from a file will now be ignored, rather than causing a data entry error.
QCCR1C19150	Scanner Generator	The output file name field is no longer pre-populated incorrectly.
QCCR1C19157	Server	If it is present, the integrity <code>Cstats.PastRealtime</code> table is checked (and repaired if necessary), thus preventing the database backup from failing.
QCCR1C19168	Documentation	A note has been added to the <i>Installation and Initial Setup Guide</i> and online help explaining that the communication port changes (if so configured) after Agent uninstall/install or Agent upgrade.
QCCR1C19172	Server	The DDM Inventory Server when checking if a scan file is available on a UNIX system no longer mistakenly raises an error when an agentless scan is in process but not completed.
QCCR1C19184	Virtual Devices	The Virtual Devices window no longer shows any port number when displaying the host title.
QCCR1C19187	Reports	The heading in the VLAN Inventory report for the default VLAN now displays correctly.
QCCR1C19200	Reports	The device manager link in the Network Documentation > Device Inventory By Virtual LAN report now opens the device manager for the correct device.

Number	Location	Description
QCCR1C19204	Documentation	A new section called “DDM Inventory Server and Automatic Configuration” has been added in the “Configuring the Discovery Process” chapter of the <i>Installation and Initial Setup Guide</i> explaining what is meant by automatic configuration and how the process occurs.
QCCR1C19220	Aggregate Status > Aggregate server health	The Last Connection check time is now updated.
QCCR1C19233	Documentation	The help file now lists all the possible reasons for device deactivation.
QCCR1C19237	Server	Network map database tables are now populated when the Scheduler starts so that the network map displays properly. This is visible only if the poll cycle is long enough; otherwise the problem is not noticed.
QCCR1C19269	Server	If invalid characters are detected in a scan file, the XML Enricher will not write these characters to the enriched scan (XML) file or the database import (TSV) file.
QCCR1C19276	Server	Those remote server properties that were reset by a restart of the Scheduler are no longer affected.
QCCR1C19288	Device Manager > Diagnostics Panel	When no entries are found on DNS lookup, a comprehensive error message is now displayed.
QCCR1C19289	Server	The backup is now performed once a day regardless of the circumstances.
QCCR1C19314	Server	Any partial backup is now deleted (if present) when the System Monitor starts.
QCCR1C19317	Server	Events are no longer generated after associated event filters have been deleted.
QCCR1C19326	Web UI	The Close command now closes online integrated help for the Device Manager, Port Manager, and other such applets.
QCCR1C19333	Network Map	Logic used by the Network Map has been improved thus preventing several map disconnect problems.
QCCR1C19337	Discovery Engine	The Discovery Engine will not restart if it is updating the Discovery Database while the database table optimization is occurring.
QCCR1C19339	Help > Data Collected by Scanners	The <i>Data Collected by Scanners</i> document no longer contains empty redundant headers from some database tables, such as <code>hwSMBIOS</code> .
QCCR1C19357	Windows Scanner	Serial numbers are now detected from all USB devices.

Number	Location	Description
QCCR1C19394	Applet	The default values in property applets (user defined defaults) are adjusted properly with the values imported by bulk data import.
QCCR1C19397	Status > Device status > Device exceptions	A column has been added to show the severity (alarm) of the item in question.
QCCR1C19401	Linux Scanner	The Linux Scanner no longer fails to detect when it is running inside a VMware virtual machine. This used to occur in some cases.
QCCR1C19412	Administration > Discovery Configuration > Configuration Profiles	The proper SNMP version 3 credentials are now deleted or updated when credential names are identical.
QCCR1C19416	Administration > Discovery Configuration > Configuration Profiles	The AUM Agent migration field is now properly replicated when an Agent profile is duplicated.
QCCR1C19417	Administration > Discovery Configuration > Configuration Profiles	Credentials no longer disappear after navigating to the Associated Groups tab and back (to the Settings tab) on the Mobile and Virtualization profiles pages.
QCCR1C19419	System Panel	The order of report time interval boundaries is now displayed correctly.
QCCR1C19420	Server	Database import no longer fails in some cases where directory names found in the scan files as part of the file and directory data are longer than 255 characters.
QCCR1C19424	Scanner Generator	The “Enable scanning of Java class files” option is no longer enabled as the initial default state.
QCCR1C19430	Documentation	All environments that cause the Scanner to exit (error level 20) are now adequately described in the “Scanners” chapter in the <i>Reference Guide</i> .
QCCR1C19436	Documentation	The registry screen shot and explanation for extracting registry values in the Scanner Generator are now correct in the “Scanner Generator” chapter in the <i>Configuration and Customization Guide</i> .
QCCR1C19439	Documentation	The text rendering problem in the integrated online help no longer occurs.
QCCR1C19444	Server	A newly added user account will have the default password set to blank.

Number	Location	Description
QCCR1C19452	Scanners	The CPU serial number is now only detected for Intel CPUs supporting this feature preventing garbage output. Also, CPU serial number formatting is unified for UNIX and Windows.
QCCR1C19455	Scanner Generator	Zero is now a valid entry for “Only store files smaller than” option.
QCCR1C19456	Scanner Generator	When two Scanner Generators are running, they no longer interfere with each other when reading and writing persistent values locally.
QCCR1C19468	Device Manager > Diagnostics Panel > Agent Ping	The results of the “Agent Ping” action no longer display the Agent version for agentless devices.
QCCR1C19474	Device Manager > Diagnostics Panel	The results of Ping requests are now displayed using the proper locale character set.
QCCR1C19476	Server	On the Aggregator Server, the data transfer schedule now works correctly regardless of whether the schedule spans a day or more.
QCCR1C19478	Server	Auto identified device driver files are no longer added to the unrecognized file data in the database.
QCCR1C19481	HP-UX Scanner	The HP-UX Scanner no longer fails to detect the network card on HP-UX HPPA systems. This used to occur in some cases.
QCCR1C19491	Server	Active devices are no longer deleted first when room is needed in the Reports database. The deleted devices, then the deactivated devices, and then the active devices are deleted in that order until enough room is freed to accommodate the newly imported devices.
QCCR1C19494	Find	DNS queries now return multiple results where possible.
QCCR1C19496	Server	Restore no longer creates the <ROOT DIR>\scanners\Cert directory as a backup for the current server certificates before overwriting them in the <DATA DIR>\Cert directory with the ones found in the restore set.
QCCR1C19501	Server	Daylight Savings Time changes no longer affect scheduling of aggregator transfer jobs.
QCCR1C19503	Reports	During startup, database tables of zero length with a corrupt index file will now be repaired properly.

Number	Location	Description
QCCR1C19504	Administration > Asset Questionnaire > Import answers	Importing a large file no longer causes the UI to generate a proxy error.
QCCR1C19507	Scanner Generator	Mouse-over now always displays the description text on the hardware data page.
QCCR1C19518	Server	Merging of network and scanner models is fixed in cases when certain hardware fields contain special characters, such as the new line character.
QCCR1C19542	Server	The OPTIMIZE TABLE command has been replaced with the ALTER TABLE command, which performs the same function. Unlike the OPTIMIZE TABLE command, the ALTER TABLE command is non-destructive and eliminates table corruption that can occur from server crashes or other events. As a result, the user will no longer experience random corruption of database tables in the Aggregate database.
QCCR1C19543	Server	Backups and associated restores of large servers now work properly.
QCCR1C19544	System Panel	An error message is now displayed when there is a database-restore failure.
QCCR1C19545	System Panel	Time zones and Daylight Savings Time changes are now properly handled.
QCCR1C19548	System Panel	The progress bar position for the restore process is now properly displayed based on the actual progress.
QCCR1C19554	Scanners	The automatic asset field is no longer unconditionally converted to upper case.
QCCR1C19560	UNIX Scanner	Additional device node directories used in cluster environment have been filtered out. In particular, /global/.devices is excluded from scanning (in addition to the already excluded /dev and /devices).
QCCR1C19581	XML Enricher	Rules are now deleted from the user SAI file when applications using them are deleted.
QCCR1C19586	Applet	No Locate On Map buttons are visible when the Network Topology license is not present.
QCCR1C19589	Server	VMware discovery through VirtualCenter now collects data from the Server, Version, and Platform fields of the VMware hosts that VirtualCenter manages.

Number	Location	Description
QCCR1C19590	Aggregate Administration > Remote server administration > Remote Server Properties	Schedules are now properly displayed immediately after adding a new remote server.
QCCR1C19593	Server	The Discovery Engine no longer crashes when processing large UI requests, such as requests to retrieve values for a large number of device or port attributes.
QCCR1C19595	XML Enricher	Application type information is now set correctly when an application is created in the Auto SAI when the application rules are triggered.
QCCR1C19598	Windows Scanner	The logic that ignored known fake BIOS asset tags numbers has been enhanced to ignore additional known fake values, such as 000000000000000000.
QCCR1C19599	SAI Editor	The SAI Editor no longer crashes or displays an invalid collection index error when the Import from recognition result window is closed during the import process.
QCCR1C19602	SAI Editor	In the Options > SAI List dialog box, the Applications column is now replaced with the Version column, since the number of versions (not applications) is displayed in it. Also, the Options dialog has been made resizable so that you can see long directory names more easily; it now also remembers its size and position.
QCCR1C19604	Web UI	When Asset Questionnaire is selected as the home page and the "Highlight Row" option is set to "on," mousing over the table in the Asset Questionnaire no longer produces the "object doesn't support this property or method" error message.
QCCR1C19620	Aggregator	Finding the remaining disk space and halting the transfer of jobs on an Aggregator if not enough space is left on the disk now works properly, regardless of the operating system (including Windows Server 2008).
QCCR1C19655	Agent	An issue where, in certain circumstances, it was possible for a remote user to gain unauthorized access to DDM Inventory Agents no longer occurs. More details are available in the HP Security Bulletin HPSBMA0243SSRT090084 or in CVE-2009-1419.
QCCR1C19656	Server	The length of the Server Certificate RSA key used to communicate with the Agent is now set to 2048 as documented.

Number	Location	Description
QCCR1C19657	Documentation	A cautionary note has been added to the “Configuring the Discovery Process” chapter in the <i>Installation and Initial Setup Guide</i> about the possibility of exceeding the 2000 device range limitation if wildcards are used when defining device groups using an IP address or range.
QCCR1C19659	Server	Default filters are no longer restored if no filters are found. As a result, you can now delete all filters if so desired.
QCCR1C19661	Solaris SPARC Scanner	Detection of new UltraSPARC CPUs has been improved.
QCCR1C19663	Reports	The grouping of records is now accurately displayed by performing case insensitive character comparisons of the keys which determine report groupings.
QCCR1C19730	Linux Agent	Random Agent freeze no longer occurs on Linux systems.
QCCR1C19731	Server	The race condition when trying to communicate with a device through multiple modes no longer occurs.
QCCR1C19733	Server	The DDM Inventory Server no longer outputs debug level log messages into the discovery log file when installed on a server with Turkish regional settings.
QCCR1C19739	Server	Temporary swap table Aggregate.SwapASttributeGroupStateSummaryTmp is no longer left behind once the process it supports has been executed.
QCCR1C19741	Reports	The Virtual Devices>VirtualCenter reports no longer show duplicate VirtualCenter devices.
QCCR1C19743	Server	Credential errors reported when performing an agentless scan on Windows systems using accounts that do not have enough privileges no longer occur.
QCCR1C20362	Scanners	When a scanner is identifying a Solaris ELF executable, it no longer outputs a debug “Safety check” error message in the scanner log.
QCCR1C20369	Documentation	A note has been added to the “Upgrade and Migration Scenarios” chapter of the <i>Installation and Initial Setup Guide</i> explaining that you must clear the browser cache on machines that are used to access the DDM Inventory Web UI.
QCCR1C20370	Server	On an Aggregator, the Appliance table is no longer regularly locked by the Check Connection process to avoid freezing the Aggregate database refresh processes when a long user query is concurrently running.

Number	Location	Description
QCCR1C20371	Agentless Scanning	The agentless scan for Windows 2008 no longer raises a security alert about the service requesting UI access.
QCCR1C20372	Reports	In the Network Documentation > Device Inventory by UNSPSC reports, the counts on the pie chart in this report are no longer greater than the actual counts if there are inactive devices.
QCCR1C20373	Reports	In the Network Documentation > Device Inventory by UNSPSC reports, pie chart data is now refreshed whenever the refresh link in the summary table report is pressed. This ensures that the data in the pie chart is always in sync with the data in the summary table.
QCCR1C20377	Reports	In the Device Inventory by UNSPSC reports, the counts in the summary report and drill-downs reports no longer differ occasionally.
QCCR1C20414	Server	Windows Remote Procedure Call (winrpc) agentless scanning now works correctly when a hard-coded path containing backslash symbols is used in the credentials configuration.
QCCR1C20421	UNIX Scanner	Software scanning on some systems with directories containing a large number of non-regular files (for example, sockets) no longer causes the Scanner to crash because of stack overflow.
QCCR1C20425	Scanner Generator	When defining a sequence asset field in the Scanner Generator, the default value for “ignore strings shorter than” is now one instead of zero.
QCCR1C20429	Windows Scanner	Extra protection has been added to the Scanner to avoid a crash during detection of Advanced SCSI Programming Interface (ASPI) devices.
QCCR1C20453	Server	The Discovery Engine no longer crashes when a device record is simultaneously accessed by more than one user, where one user has purged the device record and another user continues to work with the same device record.
QCCR1C21113	Server	VMware discovery no longer fails with a “WebService error” exception.
QCCR1C29251	Scanner Generator	WMI extract no longer reverts the “Collect all instances” parameter in Scanner Generator.
QCCR1C29286	Documentation	The incorrect note in the <i>Planning Guide</i> that was applied to the ODBC connector port indicating that it referred to VMware discovery only has been removed.

Number	Location	Description
QCCR1C29456	Server	Files older than 7 days are now removed from the <DataDir>\Scans\failed\Delta directory.

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 (QCCR1C382).
- 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 (QCCR1C674).
- The utilization plug-in (not the main agent) may not function correctly if installed on a new Windows machine. Errors in the plug-in log will indicate an error connecting to the registry (QCCR1C29392).

Agentless

- In the agentless log file, the first line of the log indicates that there was an error removing the `ovedscansvc.exe` file. This is just a warning message and does not mean there is necessarily an error (QCCR1C19019).
- 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 (QCCR1C19038).

Scanners

- Automounts are being scanned in HP-UX and Linux systems (QCCR1C1163).
- 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 (QCCR1C19042).
- Scanners may fail if the scanner log file is extremely large in size (QCCR1C20445).

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 (QCCR1C1275).
- For files in the root directory, the leading slash is missing from the beginning of the UNIX directory structure in AW (QCCR1C1480).
- 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 (QCCR1C19475).

Server Installation

- After an uninstall, the branding registry keys are left over (QCCR1C1434).

- Non-ASCII characters used in data directory path name can cause problems during the installation (QCCR1C16520 and QCCR1C1472).
- 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 (QCCR1C2405).
- DDM Inventory with a Network Topology license should not be installed on VMware (QCCR1C5271).
- The SNMP extension registry key may not be removed on some Windows 2008 server installations (QCCR1C29306).

Server

- 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 (QCCR1C4448).
- An older OpenSSL DLLs in the system PATH can affect the DDM Inventory Apache server and Perl engines (QCCR1C5447).
- 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 (QCCR1C6670).
- 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 (QCCR1C7409).
- In some cases, purged devices may appear in the modeling queue despite already having been purged (QCCR1C19165).
- VMware discovery may, in some cases, use an incorrect IP address if the VMware image has been recently powered off (QCCR1C19379).
- Firefox 3.x page navigation may appear incorrect in some cases (QCCR1C19250).
- Running JRE 1.5 and Firefox 3.x on Vista or Windows Server 2008 machines may cause the applets and the browser to close (QCCR1C19437).
- Sometimes when logging into the DDM Inventory server, a pop-up window opens with the message “Jscript compilation error: Expected ‘}’”. This problem occurs as a result of calling Java Applets from Internet Explorer (this issue does not seem to occur with Firefox). The problem is not specific to DDM Inventory and can be seen on various Web pages where Applets are present. Note that the pop-up window opens with this message only if the “Disable script debugging” option is disabled. Otherwise, if this option is enabled, only a warning icon (yellow triangle containing an exclamation mark) will appear on the left-side of the Internet Explorer taskbar when this problem occurs. As determined so far, this problem does not occur if you are running JRE 1.4 or earlier. This problem has occurred on both Internet Explorer version 6 and version 7 (QCCR1C19591).
- If a DDM Inventory service is interrupted while in the starting phase, the system monitor service may not successfully be able to start (QCCR1C20408).
- If a non administrative user logs into the Windows server, an error indicating that the `syspanel.log` file cannot be created may occur (QCCR1C20437).
- The XML Enricher may report error 103 indicating that there is an issue with processing (QCCR1C20555).
- The `hwOscontainerProperties` table is not verified on startup by the startup sequence (QCCR1C29336).
- If agent and agentless scanning is enabled for a property group, in some cases installing and then uninstalling an agent may result in DDM Inventory not recognizing that a device has an agent on it (QCCR1C29364).

System Panel

- When there are multiple instances of the DDM Inventory System Panel running on the Server, only one of the System Panel instances will display Port Usage information (QCCR1C20409).

Web User Interface

- 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 (QCCR1C19398).

Applets

- In some cases it is possible to add a new publisher or version that already exists in the User SAI files (QCCR1C29303).
- The Express Teaching applet may allow the user to teach an application even though it is set to disabled in the UI. The items taught will not be added to the SAI file (QCCR1C29369).

Administration

- Depending on the licenses, the “Resource/ Environment manage” option in Discovery Configuration may not have any effect (QCCR1C7034).
- In the Service Analyzer, device breaks may show up in the filter list for line breaks (QCCR1C18988).
- If a VirtualCenter server does not respond to a request, DDM Inventory will not report an error (QCCR1C19059).
- 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 (QCCR1C19063).
- When VMware discovery is run on a VirtualCentre device, the VMware images on it may appear in the inventory even if the IP addresses are not in the IP ranges to be discovered (QCCR1C29277).

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 (QCCR1C764).
- The UI may show non-printable characters in text fields (QCCR1C2408).

Reports

- The + symbol in the Navigation Tree next to reports is missing. This does not affect functionality (QCCR1C18894).
- When using HP Client Automation Enterprise Reporting Server, some new CPU type may not be displayed correctly (QCCR1C19380).
- The Alarm summary of Collisions, Frame Relay FECN/BECN,DE Inventory reports and Device Load Average may report N\A instead of the correct values (QCCR1C29312).

Licensing

Alarms License

- Alarms-related items are not always hidden (QCCR1C5673).

Internationalization

- 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 (QCCR1C416).
- 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 (QCCR1C490).
- There are several problems with the SAI Editor accepting characters in the Korean code page (QCCR1C507, QCCR1C508).
- The statistics graphs do not use the language options configured in the operation system and will always format the dates in English (QCCR1C2043).
- SAI files with Chinese names may appear incorrect when viewing them with the DDM Inventory web user interface (QCCR1C19372).
- If the name of a User zSAI file contains Chinese characters, the XML Enricher may not be able to load that zSAI file (QCCR1C19402).
- Recognition rules written in Chinese may not recognize all versions (QCCR1C19610).
- Some locales may not report the total disk space correctly in some cases (QCCR1C19614).