

HP Discovery and Dependency Mapping Inventory

Software Version: 9.31

Release Notes

Manufacturing Part Number: None
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HP Discovery and Dependency Mapping Inventory

Release Notes

Software version: 9.31 / August 2011

This document provides an overview of the changes made to Discovery and Dependency Mapping Inventory (DDM Inventory) for version 9.31. It contains important information not included in the manuals or in the online help.

[Conventions Used in this Document](#)

[In This Version](#)

[Compatibility Notes](#)

[Scanner Support Information](#)

[Obsolete Features](#)

[Documentation Updates](#)

[Installation Notes](#)

[Enhancements and Fixes](#)

[Known Problems, Limitations, and Workarounds](#)

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\9.31
		All others	C:\Program Files\Hewlett-Packard\DDMI\9.31
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 9.31. This new version of the product is the upgrade path for users of DDM Inventory 7.6x, 7.7x, and 9.30.

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 is limited to holding a maximum of 50,000 inventoried devices, 60,000 discovered devices, or 150,000 discovered network ports (whichever occurs first). A DDM Inventory Aggregator can support up to 50 servers and up to 500,000 devices.

From DDM Inventory 9.31 onward, the port limitation is increased to 500,000 with a non-NMS license. Please see QCCR1C35328 in the “Enhancements and Fixes” section of this document for more information.

Updated Third-Party Components

- MySQL 5.1.57
- Apache HTTP Server 2.2.17
- Java Runtime Environment (JRE) 1.6.0_26
- Apache Tomcat 5.5.33
- OpenSSL 0.9.8r

Compatibility Notes

Reports Database Changes

Additions

- Added a new column `hwOSInstalledAppPatchAppliedTo` in `table Aggregate.hwOSInstalledApps`
- Added a new column `hwOSInstalledAppRelease` in `table Aggregate.hwOSInstalledApps`

Scanner Support Information

All Scanners and Agents supported in the 7.70 and 9.30 releases of this product are supported in the 9.31 release. Refer to the Compatibility Matrix for the 9.31 release for the list of all supported platforms.



When an install is upgraded 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

All the features in DDM Inventory 9.30 are supported in DDM Inventory 9.31. For further information, please see the *Compatibility Matrix*.

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:

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

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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 and Viewer) have the following requirements:

Resource	Requirement
Operating System	Windows XP/Vista, Windows Server 2003/2008, Windows 7
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), Windows 2003 R2, or Windows Server 2008 (SP1), and the 64-bit version of Windows Server 2008 (SP1 or SP2) or Windows 2008 R2 (SP1). For information about all supported platforms, refer to the *Compatibility Matrix*.

Recommended Server Platforms

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

- HP Proliant Model: DL380 G7
- CPU: 8 Core (Intel® Xeon® 5600 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: DL380 G7

- CPU: 4 Core(Intel® Xeon® 5600 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 illustrative purposes only. Proper sizing of the DDM Inventory server(s) may require 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	20	2 CPUs or cores 3.6 GHz	200

* DDMI Topology is a network management component of DDM Inventory. It is no longer available for sale to new customers, but still available to existing Topology customers.

** 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 DDM 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, the

data is 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

Number	Location	Description
	Installer	The installation wizard prompts the user to secure the Windows SNMP service when the installer installs and enables the Windows SNMP service.
	Scanner	Scanners are able to collect installed patch information on Windows, Linux, AIX and HP-UX. For Oracle software, the patch information can be collected across all platforms. The patch information is stored in the <code>hwOSInstalledAppPatchAppliedTo</code> field.
	Recognition Engine	Installed package rules can now use the patch information collected by the scanners to recognize the packages. Please refer to the “Application Recognition” chapter in the <i>Scan Data Analysis Guide</i> for more information.
QCCR1C29727	XML Enricher	If multiple versions of a package are installed, the Installed Package rule created for it can now recognize all installations of the package.
QCCR1C30949	AIX and Linux Scanners	The Scanners can now collect the release numbers of RPM packages on Linux and AIX and store them in the <code>hwOSInstalledAppRelease</code> field.
QCCR1C31611	Windows Scanner	The Scanner can now report domain group user types.
QCCR1C32103	Analysis Workbench	The Analysis Workbench supports the "does not contain" query when filtering scan files.
QCCR1C35328	Server	Each DDM Inventory server can discover up to 500,000 ports when the server does not have an NMS license. If an NMS license is on, the number of ports supported is still 150,000. While the port capacity has been increased, the hardware requirements listed in the “Installation Notes” section are still based on the 150,000 port limit. The new benchmark for hardware required to make use of the increased port capacity is not yet available, but more powerful hardware is likely to be necessary.
QCCR1C35654	Web UI	The minimum length of the account password can be up to 20 characters.
QCCR1C35665	Web UI	The Java Applets work properly after upgrading to JRE 1.6.24 or later versions.

Number	Location	Description
QCCR1C35925	Agent Installer	The Agent Installer now creates the Agent service without "Allow service to interact with desktop option" enabled to avoid creating error messages in secured environments where the "Interactive Services Detection" service is running.
QCCR1C35955	Windows Scanner	The Scanner can successfully create temporary files under the logged-on user's temp directory.

Table 3 - Problems Fixed

Number	Location	Description
QCCR1C34774	Windows Scanner	The Scanner can resolve fully qualified domain names when the command line option "-p" is used.
QCCR1C35195	Server	In rare instances the Agent communication port numbers were not reported properly. This problem has now been resolved.
QCCR1C35235	Web UI	The Event Filter Configuration page and Trap Recipient Configuration page will not display without an NMS license.
QCCR1C35256	Web UI	The CSV device list for support can be accessed through the Aggregator correctly now.
QCCR1C35275	Web UI	Users can now open Device Manager directly by typing the URL <code>http://<server IP>/nm/?go=device;device=<device IP></code> in their browser.
QCCR1C35284	Web UI	The Asset Questionnaire Export Answers page works properly now.
QCCR1C35309	AIX Scanner	The Scanner can now report the correct <code>hwCPUSpeedMeasured</code> data for Power5 CPUs.
QCCR1C35397	Web UI	The MIB browser of the remote servers can be opened on the Aggregator UI.
QCCR1C35400	Web UI	The Network Map of the remote servers on the Aggregator UI opens without giving a connection error.
QCCR1C35402	Web UI	The links on Aggregate View > Admin > Remote Servers now work properly.
QCCR1C35405	Web UI	The login window layout is correct now.
QCCR1C35406	Web UI	The Close button on the Home page is displayed correctly.

Number	Location	Description
QCCR1C35422	HP-UX Scanner	The Scanner now collects the values for hwCardName, hwCardVendorID, and hwCardID.
QCCR1C35460	Windows Scanner	In rare instances the Windows Scanner could hang during SCSI data detection. This problem has been resolved.
QCCR1C35507	Client Tools	The MSI Scanner can now process nested MSI files included in installer actions.
QCCR1C35525	XML Enricher	Solaris local zone scan file information is imported into the database correctly, so that the Java Scan Viewer can display data for Solaris local zones.
QCCR1C35717	Mac Scanner	The Mac Scanner will leave the Machine ID field of Mac workstations blank if the Machine ID field is not set. Therefore, Mac workstations can be merged correctly.
QCCR1C35852	Upgrade Agent	The Agent can be properly upgraded on Solaris local zones without affecting the Agent on the global zone.
QCCR1C35867	Solaris Scanner	Bus data can be properly collected on Solaris T series machines.
QCCR1C35961	Analysis Workbench	The Analysis Workbench can save state image files correctly on Windows 7 and Windows Vista now.
QCCR1C35967	Linux Scanner	The Scanner now reports the correct physical CPU counts on ESX hosts.
QCCR1C35968	Linux Scanner	The Scanner now reports the correct memory capacity of ESX hosts.
QCCR1C36049	Server	The IP address can be discovered from ESXi servers through Virtual Discovery.
QCCR1C36198	Linux Scanner	The Scanner can now detect BIOS Asset Tag and Bios Source information correctly.
QCCR1C36376	Web UI	The Help page opens after you click the “Group processed scan files by primary” link in Administration>System Configuration>Scan file management.
QCCR1H61974	Scanner	The Scanner can now detect hwIPDNSSuffixes correctly.

Known Problems, Limitations, and Workarounds

Agents

- When the Agent is installed on Windows Vista machines using an account other than the "Administrator" account, the firewall exception is not added into the exceptions list (QCCR1C382).
- The HP-UX Agent may not work if the system name is longer than eight characters (QCCR1C35093).

Scanners

- 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).
- In some cases an unmanaged device with more than one network card may fail to run the Scanner because of an upload error (QCCR1C32128).
- The DNS field in the scan file that contains the DNS entry for the primary IP may not be detected on some UNIX machines if a DNS server is not configured (QCCR1C32533).
- The Linux scanner may fail and exit when run on SUSE Enterprise Desktop 9 update 4 (QCCR1C32691).
- There is a Container state field mismatch between the scan file and Device Manager (QCCR1C34856).

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 uninstalling, 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).

- After a new installation, opening the SAI Editor for the first time may show a warning message (QCCR1C32445).
- If DDM Inventory is upgraded from a previous version, the certificate date may not be updated (QCCR1C32481).
- When installing DDM Inventory on Windows Server 2003 SP2, you may receive a digital signature policy error.

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).
- 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).
- If two or more VMware virtual machines configured on the same host share the same IP address (possible if a virtual network adapter is disabled), VMware discovery may yield incorrect IP address information for a virtual machine. This can happen as VMware discovery does not currently detect whether a network adapter is disabled (QCCR1C19379).
- 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 enabled. 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. This problem has occurred on both Internet Explorer version 6 and version 7 (QCCR1C19591).
- If a non administrative user logs into the Windows server, an error indicating that the `syspanel.log` file cannot be created may occur (QCCR1C20437).
- 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 the account from the DDM Inventory UI is deleted (QCCR1C19398).
- The hyperlink (5th token) in the breadcrumb is missing for some reports (QCCR1C35014).

Applets

- When upgrading, the applet may not recognize a new license until the server has been restarted (QCCR1C32483).

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 the recognition type is set to Installed Applications, the `auto.zsai` file will not be created automatically (QCCR1C30353).

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, and not that of the remote computer address (QCCR1C764).
- The UI may show non-printable characters in text fields (QCCR1C2408).

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 non-English names may appear incorrect when viewing them with the DDM Inventory web user interface (QCCR1C19372).
- If the name of a User zSAI file contains non-English characters, the XML Enricher may not be able to load that zSAI file (QCCR1C19402).
- Recognition rules written in non-English characters may not recognize all versions (QCCR1C19610).
- Some non-English locales may not report the total disk space correctly in some cases (QCCR1C19614).