

# HP Discovery and Dependency Mapping Inventory

Software Version: 9.30

---

## Release Notes

Manufacturing Part Number: None

Document Release Date: February 2011

Software Release Date: February 2011



## Legal Notices

### Warranty

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

The information contained herein is subject to change without notice.

### Restricted Rights Legend

Confidential computer software. Valid license from HP required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

### Copyright Notices

© Copyright 1993-2011 Hewlett-Packard Development Company, L.P.

### Trademark Notices

Microsoft®, Windows®, Windows Server®, Windows® XP, and Windows® 7 are U.S. registered trademarks of Microsoft Corporation.

Windows Vista™ is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

Java™ is a US trademark of Oracle Corporation.

UNIX® is a registered trademark of The Open Group.

Adobe® and Acrobat® are trademarks of Adobe Systems Incorporated.

Pentium® is a registered trademark of Intel Corporation or its subsidiaries in the United States and other countries.

This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>).

For additional licensing information about third party and open source software, see the `open_source_and_third_party_licenses.pdf` file in the `bin\documentation` folder on the DDM Inventory 9.30 distribution media.

## Support

You can visit the HP Software Support web site at:

**[www.hp.com/go/hpsoftwaresupport](http://www.hp.com/go/hpsoftwaresupport)**

HP Software online support provides an efficient way to access interactive technical support tools. As a valued support customer, you can benefit by using the support site to:

- Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Download software patches
- Manage support contracts
- Look up HP support contacts
- Review information about available services
- Enter into discussions with other software customers
- Research and register for software training

Most of the support areas require that you register as an HP Passport user and sign in. Many also require an active support contract. To find more information about support access levels, go to the following URL:

**[http://h20230.www2.hp.com/new\\_access\\_levels.jsp](http://h20230.www2.hp.com/new_access_levels.jsp)**

To register for an HP Passport ID, go to the following URL:

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

---

# HP Discovery and Dependency Mapping Inventory

## Release Notes

Software version: 9.30 / February 2011

This document provides an overview of the changes made to Discovery and Dependency Mapping Inventory (DDM Inventory) for version 9.30. It contains important information not included in the manuals or in the online help.

[Conventions Used in this Document](#)

[In This Version](#)

[New Features](#)

- Software Recognition
  - Oracle recognition
  - Software identification tags
  - New SAI structure
- Store and Forward Server
- Scanner Scheduler
- SSH key authentication for UNIX agentless scanning
- Updated Web UI

[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:

<b>Folder</b>	<b>Placeholder</b>	<b>Platform</b>	<b>Default Location</b>
Program Files	<InstallDir>	Windows Server 2008 x64	C:\Program Files (x86)\Hewlett-Packard\DDMI\9.30
		All others	C:\Program Files\Hewlett-Packard\DDMI\9.30
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 9.30. This new version of the product is the upgrade path for users of DDM Inventory 7.6x and 7.7x. Please note that DDM Inventory 9.30 is a minor upgrade. The change in product number from version 7.70 to 9.30 was done to align DDM Inventory with other HP Software products that are now on version 9.x.

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.

## Updated Third-Party Components

- Strawberry Perl 5.12.0
- Java Runtime Environment (JRE) 1.6.0\_20

---

## New Features

DDM Inventory 9.30 provides several new features to extend existing functionality and provide users with new capabilities. The following section describes these features.

### Software Recognition

#### Oracle recognition

DDM Inventory 9.30 introduces new Oracle software recognition capabilities. These capabilities provide a more reliable mechanism for identifying Oracle software installations across all platforms. In this version, instead of relying on static file-based recognition, DDM Inventory extracts Oracle software information from the Oracle Universal Installer.

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

#### Software identification tags

DDM Inventory 9.30 has been enabled to consume ISO/IEC 19770-2 software identification tag information. ISO/IEC 19770-2 is a new industry standard for software identification. A software identification tag is an XML file containing identification and management information about a software product. The tag is installed onto a computing device together with the software product, and uniquely identifies the software, providing data for software inventory and asset management.

With the introduction of industry-standard software identification tags, it becomes possible to automate the processes of gathering software inventory data for use in reporting and in other initiatives such as managing software entitlement compliance. As these tags gain wider acceptance, they will allow for a more complete and more reliable software inventory across the various vendors and operating systems.

For more detailed information, refer to the “Software Identification Tags” chapter in the *Scan Data Analysis Guide*.

#### New SAI structure

This release introduces a new structure for Software Application Index files. Specifically, the Master SAI file has been split into two files: Master SAI and Legacy SAI.

The purpose of this change is to provide additional clarity to customers, HP technical support, and the HP R&D organization regarding the maintenance of specific SAI entries. This change will allow HP to periodically review the contents of its SAI files and perform a cleanup to ensure continued focus on work that benefits the majority of our customers. Some of the reasons for the changes may be: the age of specific entries; the market share (popularity) of the application, and the replacement of file-based entries with rule-based entries (not currently employed due to support requirements for pre-7.6x releases).

On a new installation of DDM Inventory 9.30, Legacy.zsai is in the default configuration. In an upgrade scenario, Master.zsai will be converted to Master.zsai and Legacy.zsai. For more detailed information, refer to the “Upgrade and Migration Scenarios” chapter in the *Installation and Initial Setup Guide*.

The entries in the Legacy SAI file will not be maintained by HP; they are provided for historical reasons. Customers may request that HP provide an update for an entry located in the Legacy SAI file. However, customers should not expect any of these entries to be updated without a direct customer request. You can

request a new entry by contacting technical support. HP has an established process for handling these requests. When some new entries are added to the SAI, they may be placed in the Legacy SAI file. If we see multiple requests for different versions of the application, we will periodically move entries from Legacy SAI to Master SAI.

HP will continue to monitor titles present in the Master SAI file and update them proactively whenever possible. However, not all software titles are available to HP (for example, due to competitive reasons), so customer cooperation may be needed in some cases before updates are made to specific SAI entries.

## Store and Forward Server

The Store and Forward server is a standalone component in DDM Inventory 9.30 that allows for more flexible inventory collection capabilities when running the scanners in the Manual Deployment mode. It is designed to facilitate the traversal of scan files through multiple firewalls until the scan files reach the DDM Inventory server.

Normally in the Manual Deployment mode, the Incoming directory of the XML Enricher is shared either via a network file share (Windows), HTTP (done out of the box) or FTP. The scanners are configured to save their off-site scan file to that UNC location or URL. In order for this to work, the managed device on which the scanners are running ought to be able to connect to the specified UNC path/URL directly. Unfortunately, in more complex deployment scenarios, this may not always be possible due to segmentation of the network, or firewall restrictions. The chain of Store and Forward servers allows you to build an infrastructure that can move scan files through multiple firewalls until they finally reach the DDM Inventory server for processing.

The Store and Forward server works over one configurable TCP port and uses HTTP or HTTPS as the underlying network transport mechanism. It supports the forwarding of data to multiple locations, bandwidth throttling, and resumed file transfer between Store and Forward servers.

For more detailed information, refer to the *Store and Forward Server Guide*.

## Scanner Scheduler

The Scanner Scheduler is a standalone component in DDM Inventory 9.30 that allows for more flexible scanner deployment scenarios in the Manual Deployment mode. It implements the scanner scheduling capabilities in cases where the DDM Inventory server is not able to connect to the device directly. The Scanner Scheduler allows the scanner scheduling to happen locally on the managed computer itself, rather than being controlled from the DDM Inventory server. The Scanner Scheduler can be used on its own or in combination with a chain of the DDM Inventory Store and Forward servers that facilitates the transfer of the scan files through multiple firewalls.

The Scanner Scheduler runs as a service (Windows) or as a detached process (UNIX) on a client computer and, according to its configuration parameters, periodically runs the DDM Inventory Scanner. The Scanner has the ability to save the scan file off-site to a remote location, including a Store and Forward server or the DDM Inventory server itself. The Scanner Scheduler can also periodically update its configuration by retrieving a new version of the configuration located in its config.ini file from a remote location. The Scanner Scheduler supports the same platforms as the DDM Inventory Scanner.

For more detailed information, refer to the *Scanner Scheduler Guide*.



## SSH key authentication for UNIX agentless scanning

In DDM Inventory 9.30, administrators can configure the agentless inventory process to log in to a remote device with a username and password, or log in by using key-based authentication. SSH credentials can be used to create a Secure Shell connection to UNIX, Linux, and Mac OS X devices. If you choose key-based authentication, you must upload a private key file to be used in the SSH connection. Additionally, you may encrypt the key file with a passphrase.

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

## Updated Web UI

To give users a more convenient and richer browsing experience, the DDM Inventory web UI has been updated and improved. Specifically, the Common Web Client has been improved, and tasks such as navigation have become easier and more intuitive.

---

# Compatibility Notes

## Reports Database Changes

### Additions

- Added table `Aggregate.hwOSSoftwareIdTags`.
- Added column `hwsmbiosConfiguredMemoryClockSpeedMHz` to table `Aggregate.hwsmbiosMemoryDevice`.
- Added column `hwsmbiosCoolingDeviceDescription` to table `Aggregate.hwsmbiosCoolingDevice`.
- Added column `hwsmbiosIPMIDeviceInformationInterruptInfo`, `hwsmbiosIPMIDeviceInformationRegisterSpacing`, and `hwsmbiosIPMIDeviceInformationInterruptNumber` to table `Aggregate.hwsmbiosIPMIDeviceInformation`.

---

## Scanner Support Information

All Scanners and Agents supported in the 7.70 release of this product are supported in the 9.30 release. Refer to the Compatibility Matrix for the 9.30 release of interest 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

### Windows Vista Readiness reports

The Windows Vista Readiness reports were removed from DDM Inventory 9.30.

---

## 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, System Panel, 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 <b>Help &gt; Compatibility Matrix</b> 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. 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	3	2 CPUs or cores 3.6 GHz	50

\* 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
	Scanners	The DDM Inventory Scanner can now detect the following CPUs: Fujitsu SPARC64 VII+ and SPARC64 VIII; Sun UltraSPARC-T3; Intel Itanium 9000 Series, Itanium 9100 Series, and Itanium 9300 Series; AMD Athlon II X3, Athlon II Neo, Athlon II, Six-Core Opteron, Phenom II, V105, V120, and V140.
	Windows Scanner	The Windows Server Foundation operating system can now be properly identified and reported as part of the hardware data.
QCCR1C21145	Installer	The DDM Inventory installer now checks to see if any mainstream anti-virus software is installed before the server installation proceeds.
QCCR1C33002	Agent/Server	The DDMI agent and AUM agent are now able to collect utilization data independently.
QCCR1C33788	Solaris Scanner	HBA cards are now detected on Solaris 10 systems.
QCCR1C34017	Web UI	The DDM Inventory login page can be configured to include a custom warning message and require users to confirm that they agree with the conditions before logging in.
QCCR1C30657, QCCR1C34743	Windows Scanner	The DDM Inventory Scanner can now read 64-bit registry values in 64-bit versions of Windows. For more detailed information, refer to the section on Asset Registry Extract fields in the “Scanner Generator” chapter in the <i>Configuration and Customization Guide</i> .

**Table 3 - Problems Fixed**

Number	Location	Description
QCCR1C29618	Server	VM names with non-English characters now display properly in the DDM Inventory web UI.
QCCR1C30340, QCCR1C31570, QCCR1C33906	Windows Scanner	The Windows scanner now collects the complete monitor serial number (in hwMonitorSerialNumber) for certain manufacturers correctly.

Number	Location	Description
QCCR1C30414, QCCR1C32252	SAI Editor	The SAI Editor ensures that the IDs of the user-defined files, application types, and OS types are in the valid range when the user SAIs are saved after being dragged and dropped. Therefore, the SAI Editor can now load the user zSAIs without displaying an error.
QCCR1C31017, QCCR1C33092	HP-UX Scanner	The CPU core information of various HP-UX CPUs will now be correctly collected.
QCCR1C31241	Documentation (Help->Database Schema)	Referenced product names are up-to-date.
QCCR1C32453	Server	The performance of the Discovery Configuration file import has been improved.
QCCR1C32478	Applets	Event Browser is now able to display DNS names with illegal characters.
QCCR1C32712	Analysis Workbench	Analysis Workbench no longer generates an "Access violation" error when teaching some applications (when a duplicate file detail is added to the SAI).
QCCR1C32728, QCCR1C33274, QCCR1C32454	Solaris Scanner	The DDM Inventory Scanner now correctly collects the logical CPU counts in Solaris non-global zones.
QCCR1C32752	Server	The Discovery Engine will no longer crash in some cases that were caused by an agent call home request.
QCCR1C32803	Server	Users are now able to load custom map backgrounds.
QCCR1C32807, QCCR1C32942, QCCR1C32807	Aggregator Server	The Aggregator Server will now import data from the previous versions of DDM Inventory that are documented in the Compatibility Matrix.
QCCR1C32809	Server	The Discovery Engine will no longer crash in some cases that were caused when merging VMware inventory data with previously discovered network nodes.
QCCR1C32958	Windows Agent	The Windows agent no longer leaks Windows handles when running the scanning workflow.
QCCR1C32959	Server	Occasional memory management problems in Discovery Engine that could cause the module to crash in some cases were fixed. The logging of memory statistics over a configurable period (default of 5 minutes) was added (used memory, free, reserved, etc.).
QCCR1C32973	Installer	The database creation process has been improved when it is run on slower machines.
QCCR1C33046	Agent Communication Server	Better logging is introduced when VMware discovery fails.
QCCR1C33069	Windows Agent	The Windows agent no longer leaks a small amount of memory when running the scanning workflow. This becomes visible only when the scanning workflow interval is very short, such as one hour.

Number	Location	Description
QCCR1C33310	Solaris Scanner	A problem with detecting the hwDiskTotalPhysicalSizeMB field in some cases on Solaris has been fixed.
QCCR1C33322	Server	The DDM Inventory server can properly display the "Addresses" table in the Port Manager window in Device Manager.
QCCR1C33417	Documentation (Help->Data Collected by Scanners)	hwOSInstalledAppName was removed as a supported item by the Windows platform.
QCCR1C33424	Windows Scanner	The base OS directory (hwOSBaseDir) is now reported correctly for the Windows platform when the DDM Inventory Scanner is run inside Windows Terminal Services.
QCCR1C33426	Windows Scanner	SMBIOS data is now collected by the DDM Inventory Scanner.
QCCR1C33514	XML Enricher	Software application data from scan files is correctly imported into the database when the XML Enricher is configured to use "Installed Applications" recognition.
QCCR1C33515	Solaris Scanner	The DDM Inventory Scanner can now scan device files in Solaris 8.
QCCR1C33555	Documentation (Help->Data Collected by Scanners)	Added VMware scanner platform for wOSContainerName, hwOSContainerID, hwOSContainerRoot, hwOSContainerStatus, hwOSContainerNetworkDevice, and hwOSContainerNetworkDeviceAddress.
QCCR1C33591	Windows Scanner	The DDM Inventory Scanner can now use logical CPU information to get the correct physical core count in a VM environment.
QCCR1C33620	Server	The Discovery Engine will no longer crash when scanning some types of SNMPv2c and SNMPv3 devices.
QCCR1C33685	Server	DDM Inventory will now add ports for every network adapter collected from the VMware discovery process for hosts. This ensures that network adapter information is not overridden (lost) by incomplete network discovery data.
QCCR1C33700, QCCR1C33838	Solaris Scanner	Solaris SPARC64 VII and M9000 CPUs are correctly identified.
QCCR1C33742, QCCR1C33631, QCCR1C30571	XML Enricher	The XML Enricher no longer fails to process scan files from Windows Domain controllers that have thousands of user profiles.
QCCR1C33909, QCCR1C34016	Agent	The SSL certificate/key generation configuration was modified to avoid the UNIX year 2038 issue. Now, SSL certificates/keys used for agent-based communications can be generated.
QCCR1C33974	HP-UX Scanners	More detailed information is available for Itanium CPUs (hwCPUFamily, hwCPUModel, and hwCPUStepping). Additionally, newer Itanium CPUs are identified correctly.

<b>Number</b>	<b>Location</b>	<b>Description</b>
QCCR1C34214	Server	Inconsistent port counting was fixed. This could lead to purging ports from SNMP-managed nodes when the number of active ports is near the license limit.
QCCR1C34418	Server	Updating the wrong node with scanned data coming from another node was fixed. This could happen in some rare cases when an IP address is reassigned from one device to another.
QCCR1C34443	Agent Communication Server, Standalone VMware Scanner	Improved logging and error handling when users attempt to use vCenter to manage a host with a newer unsupported version of VMware.
QCCR1C34452	Server	DDM Inventory now only supports SSL high strength cipher suites; weak and medium strength cipher suites are no longer supported.
QCCR1C34486	Server	The Trash and Purge processes are now running properly.
QCCR1C34712	Windows Scanner	After you perform an upgrade of DDM Inventory, the Scanner is able to save the inventory file (local\$.xsf) even if it already exists on the machine. This was not possible previously in some cases.
QCCR1C34868	Documentation (Help->Data Collected by Scanners)	Added VMware scanner platform for hwOSClusterNodeName, hwOSClusterNodeState, hwOSClusterName, and hwOSClusterState.
QCCR1C34981, QCCR1C33618	Windows Agent	The DDM Inventory agent no longer has a memory leak in systems that are running Windows XP.
QCCR1C34999	Server	Possible memory corruption in Discovery Engine on startup when running on a server with multiple network adapters was fixed.
QCCR1C35112	Server	Report database tables no longer remain locked for a long time.
QCCR1C35124	Scanners	The DDM Inventory Scanner no longer incorrectly logs an error message when the pre-scan scripts feature is running.
QCCR1C35135	Server	Applications with unknown publishers are now listed in the “OS Registered Applications – Application Summary” report.

---

# 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).
- The save state feature does not work in Windows 2008 or in Windows Vista (QCCR1C35035).

## 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.
- If the Windows SNMP service is not installed and enabled, during the installation phase, the DDM Inventory server installs and configures the Windows SNMP service to run. This is because the DDM Inventory server requires it for its own operation. However, the default security settings are used for the Windows SNMP service, such as the read community string being set to **public**. Please follow these instructions to change the default security configuration of the SNMP service with custom settings as needed:
  - Open the **Services** Control Panel applet: Control Panel > Administrative Tools > Services
  - Right-click **SNMP Service**, select **Properties**, and then navigate to the **Security** tab.
  - Amend the security settings as required.

Once the default read community string is changed, please update the appropriate DDM Inventory SNMP profiles by adding this read community string to make sure that DDM Inventory can still access the SNMP information from the DDM Inventory server itself.

## 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 (5<sup>th</sup> 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).

## Reports

- 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

- Alarm-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 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).