

#####

DELL(TM) OPENMANAGE(TM) IT ASSISTANT VERSION 8.1 README

#####

IT Assistant provides a central point of access to monitor and manage systems on a local area network (LAN) or the wide area network (WAN). By allowing an administrator a comprehensive view across the enterprise, IT Assistant can increase system uptime, reduce repetitive tasks, and prevent interruption in critical business operations.

This file contains updated information for your "Dell OpenManage IT Assistant User's Guide" and any other technical documentation included with IT Assistant.

You can access all the documentation from the documentation CD or from the Dell Support website at "support.dell.com."

#####

CONTENTS

#####

This file contains the following sections:

- \* Criticality
- \* Compatibility/Recommended Requirements
- \* Release Highlights
- \* Installation
- \* User Notes
- \* Known Issues
- \* Third Party Disclaimer

#####

CRITICALITY

#####

2 – Recommended

Dell recommends applying this update during your next scheduled update cycle. The update contains feature enhancements or changes that will help keep your system software current and compatible with other system modules (firmware, BIOS, drivers and software).

#####

COMPATIBILITY/RECOMMENDED REQUIREMENTS

#####

-----  
Minimum Supported Operating System Requirements for IT Assistant  
(by Enterprise Size)  
-----

Small (up to 500 Managed Systems):

- Microsoft Windows® XP Professional with SP2
- Windows 2000 with SP4 (Server and Advanced Server Editions)
- Windows Server 2003 with SP2
- Windows Server 2003 R2 (Web Edition)

- Windows Vista(R) (Business and Enterprise Editions)

NOTE: If you run Internet Explorer in Protected Mode on Windows Server 2008, Internet Explorer cannot gain write access to the files in a user's profile or system locations. Due to this reason, the exported data from IT Assistant to these locations is not be visible in the expected location. You can view files created by IT Assistant on the user's profile from the virtualized "UserProfile" folder ("%userprofile%\AppData\Local\Microsoft\Windows\Temporary Internet Files\Virtualized\{system drive letter}\Users\{username}").

Large (500+ Managed Systems):

- Windows Server(R) 2008 (includes Standard, Enterprise, and Web editions)  
NOTE: Microsoft Windows Server 2008 is scheduled to be available in the first half of 2008. For the latest information, see <http://www.microsoft.com/windowsserver2008/default.mspx>.

NOTE: If you run Internet Explorer in Protected Mode on Windows Server 2008, Internet Explorer cannot gain write access to the files in a user's profile or system locations. Due to this reason, the exported data from IT Assistant to these locations is not be visible in the expected location. You can view files created by IT Assistant on the user's profile from the virtualized "UserProfile" folder ("%userprofile%\AppData\Local\Microsoft\Windows\Temporary Internet Files\Virtualized\{system drive letter}\Users\{username}").

For more information on this issue, see  
"http://msdn.microsoft.com/library/default.asp?url=/library/en-us/IETechCol/dnwebgen/ProtectedMode.asp"

- Windows Server 2003 with SP2
- Windows 2000 with SP4 (Server and Advanced Server Editions)
- Windows Server® 2003 R2 (Standard and Enterprise Editions)

-----  
Recommended Minimum Hardware Configuration for IT Assistant

(by Enterprise Size)

-----  
Small (up to 500 Managed Systems):

- Processor: 1 processor (1.8-GHz minimum)
- Memory: 1-2 GB
- Disk Space: at least 4 GB

Large (500+ Managed Systems):

Processor: 2 to 4 processors (800-MHz minimum)  
Memory: 2-4 GB  
Disk Space: as much as 10 GB

NOTE: The disk space needed may increase based on the:

- \* Number of Dell Update Packages you import for software update.
- \* Number of MSI files you import for software deployment
- \* Amount of performance monitoring sample data you collect

-----  
Recommended Operating System Updates

\* If you have set up WMI discovery and enter incorrect credentials, the memory consumed by the IT Assistant services keeps increasing. After running for a few days, this could cause IT Assistant services to crash due to insufficient memory. This has been traced to memory leaks in the underlying COM libraries.

Affected operating system:

Win2000 SP4

For more information see the Microsoft KB articles at:

<http://support.microsoft.com/?kbid=891861>  
<http://support.microsoft.com/kb/891861/en-us>

\* If you have set up WMI discovery/performance monitoring, the memory consumed by the IT Assistant services keeps increasing. After running for a few days, this could cause IT Assistant services to crash due to insufficient memory.

Affected operating system:

- Win2K3 SP1
- WinXP SP2 KB

For more information, see the Microsoft article at:  
<http://support.microsoft.com/kb/911262/en-us>

-----  
Additional Software Required to Run Some Features of IT Assistant

\* For Dell/EMC storage arrays, ensure your array is FLARE(R) version 19 or above. You should also install Navisphere(R) Secure

CLI (version 19 or above) on your management station.  
NOTE: This CLI software is part of the IT Assistant install.

-----  
Recommended SQL Server Updates  
-----

SQL Server 2000 SP3 is required for using SQL Server 2000 as the default database.

SQL Server 2005 SP1 is required for using SQL Server 2005 as the default database.

#####  
RELEASE HIGHLIGHTS  
#####

\* Online Updates

You can use IT Assistant to download and apply Dell Update Packages (DUPs) to your systems. You can schedule regular checks to the Dell Support website at <ftp.dell.com>, thereby ensuring that you do not miss any critical updates applicable to your systems.

\* VMware Integration

You can use IT Assistant to discover and monitor VMware ESX Server version 3.x, as well as to retrieve information about the associated virtual systems through Simple Network Management Protocol (SNMP).

\* Dell Client Manager (DCM) Launch

IT Assistant will display DCM launch point for devices that have Dell OpenManage Client Instrumentation 7.4 or later installed.

\* Server Administrator Deployment on Linux operating systems

You can now use IT Assistant to install a Server Administrator agent on multiple supported Dell systems running Linux operating systems, as well as VMware ESX Servers.

\* Sever Administrator Upgrade

You can use IT Assistant to upgrade Server Administrator agent on a remote system running Microsoft Windows or Linux operating systems.

\* Importing and Exporting Tasks

You can use IT Assistant to migrate existing tasks to a new network environment, instead of recreating and reconfiguring all the tasks. The following tasks can be exported to a different management station:

- Generic Command Line
- Remote Server Administrator Command Line
- Remote Client Instrumentation Command Line
- IPMI Command Line

\* Power Monitoring

With IT Assistant version 8.1, you can monitor power consumptions counters along with performance monitoring counters.

NOTE: This feature is supported only on limited Dell systems and requires Server Administrator version 5.3 or later to be installed on the managed systems.

With IT Assistant version 8.1, you can view the power consumption data of multiple systems at the same time. The following power monitoring information is supported.

- Energy Consumption
- Power Usage
- Current drawn

```
#####  
INSTALLATION  
#####
```

#### (A) First-time Installation of IT Assistant 8.1

See the "Dell OpenManage Installation and Security User's Guide" for instructions on setting up IT Assistant for the first time on a system.

#### (B) Upgrade from IT Assistant 6.x to IT Assistant 8.1

IT Assistant 8.1 does not support a direct upgrade from versions 6.x or older. To upgrade from version 6.x to 8.1, first install version 7.0, and then apply version 8.1 as an upgrade.

NOTE: During an upgrade from version 6.x of IT Assistant to version 7.0, the installation will preserve the following settings:

- (a) Global configuration settings
- (b) Discovery configuration settings
- (c) Event Stored actions

Any other database information such as custom groups, custom event filters, or event categories will not be migrated because the database schema is not compatible with earlier versions of IT Assistant. To save this information, back up your original database before upgrading.

#### (C) Upgrade from IT Assistant 7.0 to IT Assistant 8.1

If you have changed the data that was prepopulated as part of the 7.0 install in the Report and EventSource tables that you want to retain after upgrading to 8.1, take a backup of these tables and manually restore them after the upgrade.

NOTE: If you used the CIM protocol before an upgrade, then after the upgrade it is important to verify that the CIM credentials are qualified with a domain or localhost if no trusted domain is configured (for example, domain\administrator or

localhost\administrator). You can view the CIM credentials by editing the imported discovery ranges in the CIM Configuration Pane. If this is not done, devices will not be discovered through the CIM protocol.

#####  
USER NOTES  
#####

\* The processor count in IT Assistant will differ for managed systems that contain processors with multiple cores or hyperthreading enabled. The count will differ based on whether the managed system is discovered using the CIM or SNMP protocol. The systems discovered using SNMP will report physical processors, and the systems discovered using CIM will report logical processors.

-----  
Software Updates  
-----

NOTE: IT Assistant does not support the software update task on the management station. This is because a software update may require a reboot that may impact other scheduled tasks being run on the management station. You can perform software updates using the "Dell PowerEdge Server Update Utility" CD or the "Dell Server Update Utility" DVD after closing the IT Assistant application.

-----  
Software Updates for Linux  
-----

To perform a remote Linux software update, IT Assistant uses Plink for SSH communication. By default, IT Assistant passes your password as a command-line parameter to Plink.  
NOTE: This occurs only on the IT Assistant management station. Passwords are always encrypted when transferred to the managed system.

If passing passwords through the command line on the IT Assistant management station is of concern, you can configure the updates to use RSA keys instead of passwords. A blank password in IT Assistant will trigger SSH authentication using the RSA keys.

To create RSA keys, perform the following steps:

NOTE: It is assumed that you are running an SSH2 server and are using the RSA2 keys.

1. Run PuTTYgen (or your preferred mechanism) for generating public/private key pairs. You can save your private keys (".ppk" files) at any location on your system.

The following is a sample public key that you would put in a file that you create called "authorized\_keys2 for RSA2 keys."

```
ssh-rsa  
AAAAB3NzaC1yc2EAAAABJQAAAIEAxfMzTwS4Cwnua61h7kiad9l3HvISeFIYPsZOrCYMuA++
```

9mPRraUEtrKNkwdPKqPnc2/JFHyAxOu31jfUgQqgM2CSqwdr7fuowjseVVPTuG5JdVR1BwUAXIJK/  
Hy1BM+mkKHMuNe0jTrN/gUxcmlA0IHFaFNRjV++AeM15upJsk= rsa-key-20050209

Linux ships with other utilities for creating public/private key pairs. You can download PuTTYgen from the following Web address:  
"http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html"

The public keys are saved in the following configuration file on the Linux system.

~/.ssh/authorized\_keys2

2. Create this file, if it is not present.
3. You can store the private keys in the directory of your choice. For security reasons, it is recommended that you set the appropriate permissions for your private key files.

This is a sample "sshconfig.pro" file where you will configure the names and location of your private keys.

```
#server[.user]=<path-to-file>
#A server-name of global would be appropriate to accommodate a
network where all or most systems are set up using the same key.
#global[.user]=<path-to-file>
global.root=C:\SSH Private Keys\root\global_root_privatekey.ppk
global.fred=C:\SSH Private Keys\fred\global_fred_privatekey.ppk
192.168.157.149.root=C:\SSH Private Keys\root\system1_root_privatekey.ppk
192.168.157.151.fred=C:\SSH Private Keys\fred\system2_fred_privatekey.ppk
```

4. Copy "sshconfig.pro" to the bin folder of IT Assistant. By default, this folder is located at:  
c:\Program Files\Dell\SysMgt\ITAssistant\bin directory

NOTE: A blank password in IT Assistant will trigger SSH authentication using the RSA keys instead of using passwords. IT Assistant will then attempt to find the entry in the "sshconfig.pro" file. If IT Assistant finds the system and user or global key in "sshconfig.pro", IT Assistant will use the ".ppk" file for establishing an SSH connection to the server. However, if IT Assistant cannot find this information, it will assume that you meant to enter a blank password.

Dell recommends that SSH version 2 or above be used on the managed system for better security.

For more information on the usage of public keys for SSH authentication, see  
"http://www.tartarus.org/~simon/puttydoc/Chapter8.html"

---

## Reports

---

- 1) Install Array Manager on the managed systems for retrieving "Volume Info Report."

2) When you install IT Assistant, an in-built utility generates a report on the applicable software updates on the systems that IT Assistant discovered.

This report is generated by comparing the versions of the packages/bundles imported into the IT Assistant repository (in the Software Updates) and the versions installed on the managed systems.

The utility is present under the folder

“<ITA Installation Directory>\bin>” and is named

"itacompliance.vbs". The report is generated in Microsoft Excel(C) format.

Usage:

The utility should be run on the system where the IT Assistant database is installed. By default, IT Assistant and the IT Assistant database are installed on the same system. However, if you use a remote database, copy the following files from the IT Assistant bin folder to the system running the remote database.

- itacompliance.vbs
- compliance.xml

Create a folder "Reports" under C:\. The report will be saved in folder. Run the utility from "Windows Explorer" or from the command line. If the utility prompts for the name of the report file, specify only the file name with a ".xls" extension. It will then connect to the IT Assistant database and import the data into the file.

You can view this file using Microsoft Excel.

The report contains following columns: Computer Name, Service Tag, Server Model, Patch Name, Software Type, Customer Hardware Current Version, Patch Version, and Patch Level. The patch level indicates the severity of the update.

-----  
Modular Disk Storage Manager  
-----

You must install DirectX 8.1 on the system to run IT Assistant with the Modular Disk Storage Manager on Windows 2000 Server.

#####  
KNOWN ISSUES  
#####

\* If you attempt to update the BIOS from version A05 or earlier on a Dell PowerEdge(TM) 1500SC that has 4 GB of system memory installed, the system stops responding on the BIOS post screen. You must manually reboot the system and the BIOS will not be updated. To avoid this issue, either use the diskette flash method or temporarily remove some memory before performing the update (148580)

\* If you have a Windows Firewall configured on the management station or the managed system, make the following configuration changes to enable remote Server Administrator CLI and software updates to work



successfully.

Management Station:

- 1) Open TCP port 135.
- 2) Add the application "omremote.exe" (located in ITAssistant\bin) to the Firewall exception list.

Managed System:

If you have the Windows firewall configured, enable remote administration by running the following command in the Command Prompt:

```
"netsh firewall set service RemoteAdmin"
```

For additional information on connecting through the Windows firewall, see the Platform SDK: Windows Management Instrumentation (Connecting through Windows Firewall) on Microsoft's MSDN website. <http://msdn2.microsoft.com/en-us/library/Aa389286.aspx....new>

\* When running Firefox on Red Hat(R) Enterprise Linux(R) versions 3.0 and 4.0, the focus on a component may disappear when you hide a Modal Dialog. This is a known issue with Java(TM) (6274378).

To regain application focus, click outside the context of the browser in which IT Assistant is running, and then click back within the IT Assistant user interface (UI). (146975)

\* The preference and help pages on the IT Assistant browser will be active only after IT Assistant has loaded completely. (145205)

\* Dell PowerEdge systems with DRAC III, DRAC III/XT, ERA, or ERA/O will be displayed in the IT Assistant Device tree under modular systems if the out-of-band SNMP agent property is enabled with "racadm." This property is not supported on the DRAC III family and will be disabled in the next firmware release. If you see systems with a DRAC III card under modular systems, use the racadm command-line utility to disable the property with the following command:

Locally on the server with the DRAC card:

```
"racadm config -g cfgOobSnmp -o cfgOobSnmpAgentEnable 0"
```

Remotely from a management station with the RAC management software installed:

```
"racadm -r <ipaddress of RAC card> -u <RAC username> -p  
<RAC password> config -g cfgOobSnmp -o cfgOobSnmpAgentEnable 0"  
(139394)
```

\* On Windows 2000, you may see an error message when you launch the Remote Desktop Connection application using the right-click menu option on the Device tree. This issue may occur because older versions of the client do not get installed in the system path. To correct this problem, install a later version of the Remote

Desktop Client (6.0.2600.0 or later). You can download the client from Microsoft's website at:

"<http://www.microsoft.com/windowsxp/downloads/tools/rdclientdl.mspx>."  
(139630)

\* When running Mozilla on Linux:

Using the "View | Reload" (Ctrl + R) command in Mozilla results in unpredictable behavior. IT Assistant may reload in some cases, but at other times you may see the following message:

"An instance of the IT Assistant console is already running on this device."

To address this issue, close the browser session and open a new session. (132635)

\* When name resolution on an IP address to a host name fails using DNS, IT Assistant attempts to resolve the name using NetBIOS name query. This action may cause the device to appear in IT Assistant with the NetBIOS name even if it does not have a DNS entry. (138013)

\* The IT Assistant UI supports the Mozilla browser only on systems running the Linux operating system. On systems running the Windows operating system, the supported browser is Internet Explorer and Firefox. Multiple instance of IT Assistant on Windows Server(R) 2008 with the Firefox browser is not supported and a valid message is not displayed.  
(150687)

\* If you use a special character font (for example, Wingdings(R) or a similar font) for your report name, the report is saved correctly but the name will be displayed as question marks instead of the special character font. To avoid this issue, use only standard fonts for report names. (135701)

\* If you have Java Runtime Environment JRE(TM) versions 1.3 and 1.5.0 installed on your IT Assistant UI client, and you uninstall an older version of the JRE, the IT Assistant UI may request that you reinstall JRE version 1.5.0. To correct this problem, uninstall JRE version 1.5.0 and then reinstall it by launching the IT Assistant UI.  
(137304)

For more information on this issue, see bug ID 4994468 on <http://bugs.sun.com>.

\* IT Assistant 8.1 does not work well with operating system schemes that use very large fonts (for example, various "High Contrast" schemes in Windows). Changing the display settings to use such a scheme may cause text in various parts of IT Assistant to appear incomplete or truncated. If you notice this situation, change the display properties.

To change the display properties on Windows systems:

1. Click the "Start" button, click "Settings"-> "Control Panel"-> "Display Settings," then select the "Appearance" tab.
2. Select a scheme with smaller fonts.
3. Close the browser and restart IT Assistant to implement the new settings.

On Linux systems, similar problems may occur if the selected system font size is too large. To correct this issue, select smaller fonts ("Start"-> "Preferences"-> "Fonts") and restart the application. (102193)

- \* To disable mnemonics at the operating system level, close and restart the IT Assistant browser session. Doing so allows the JRE to re-load and implement the new settings. (120978)
- \* When managing an environment with more than 2000 devices, increase the amount of memory allocated to the JRE heap.

Open the Windows Control Panel and click the "Java" icon to display "Java Control Panel." Select the "Java" tab. Then click "Java Applet Runtime Settings | View..." Enter -Xmx256m in the "Java Runtime Parameters" section. (123581)

- \* Changing the display "Scheme" option under "Preferences," which you can access on the topmost IT Assistant menu bar, is not supported in IT Assistant (8.1) . (123829)
- \* When viewing the Network Interface Card (NIC) information of Red Hat Linux systems on the "Details" page, the information may not be aligned correctly. IP addresses may not align with the correct MAC addresses, or the IP and MAC addresses may not be displayed at all. This issue has been fixed in the Red Hat net-snmp package. To correct this issue, install the latest Red Hat net-snmp package on the managed system. (131619,74483)
- \* If you try to open a second session of IT Assistant on the same system while using the Mozilla browser, an error message is displayed stating that only one browser session at a time may be used. Close the second browser session using the Mozilla "File | Close" command or by clicking the "X" in the top right of the browser window. Do not click the IT Assistant "Logout" hotlink on the top Global Navigation bar on the top right of the window. As only one session is allowed per client, clicking "Logout" would have the effect of logging out of the first browser session as well. (131954)
- \* A registry editor error occurs while opening the IT Assistant UI on a system with less than the required space. The IT Assistant client requires at least 25 MB of available hard-drive space. (132615)
- \* The reporting system generates the output in Unicode format

("http://www.unicode.org"). To open the CSV reports in Microsoft Excel, open Microsoft Excel and run the "File | Open" command. Select the "comma delimited" option to open the report with the data in the correct columns. (132619)

\* When you mouse-over a device in the Topology view, a white box or flicker may appear instead of the tool tip containing the device data. (133161)

For more information on this issue, see bug ID:4762705 on "http://bugs.sun.com."

\* "Device Name" is a default field and is present in all reports. (134260)

\* For Remote Access Controllers (RACs) that have instrumentation installed and that are running on the host operating system, the RAC IP addresses are shown in the "RACDevice" table. (134365)

\* If an alert storm is sending more than 5 traps a second to IT Assistant, it could take IT Assistant several minutes to process all the alerts. New alerts that are received in the interim will not be displayed in the UI until all the alerts in the storm are processed.

\* Pressing "Next," "Previous," or "Refresh" on the "Alerts" page of the UI, while a constant stream of alerts is being processed by IT Assistant, may cause the counters in the "Alerts" page of the UI to fall short. To correct this problem, click "Refresh" when the constant stream of alerts has subsided. The refresh action does not impact any alert actions. (134862)

\* When creating or updating a task, the stamp for the creation or update time is that of the IT Assistant UI. The "Last Run Time" displayed on the summary report, however, is the time of the IT Assistant Services system. If there is a significant variation in the UI and Services system time, it is possible that a scheduled task may not execute or show that it was executed before it was created.(137997)

\* For NIC information on systems, IT Assistant uses the operating system's provider(s) to retrieve data rather than Server Administrator. This behavior can result in discrepancies in reporting NIC information between IT Assistant and Server Administrator. For example:

1. On Linux systems, adapters may be named differently between IT Assistant and Server Administrator. For example, IT Assistant may report a NIC adapter as "eth0," while Server Administrator shows the actual manufacturer name of the NIC.
2. If more than one NIC card is not configured with an IP address, IT Assistant may show only one of the cards with an IP address of 0.0.0.0.

3. IT Assistant may not report disabled NIC adapters.

4. On Novell(R) NetWare(R) systems, since NetWare reports each NIC port as a NIC interface entry, IT Assistant may show more NIC interfaces than are actually present in the system.  
(138454)

- \* While performing discovery, if a device is discovered using "host name," and if its IP Address changes at a later time, IT Assistant will display two devices after the next discovery cycle. One device will display the old IP address and status as Power Down, while the other will display the new IP Address. This problem is likely to affect systems that have DNS-DHCP IP addressing and for which the IP addresses frequently change. A workaround to eliminate duplicate device is to delete the device with the old IP address. (148069)
- \* IT Assistant will discover a RAC under the RAC group only if IT Assistant can communicate out-of-band (bypassing the operating system) with the SNMP agent on the controller. DRAC III (and below) do not have this capability, and hence would not be grouped under the RAC group. DRAC 4 (and above) support out-of-band communication with the SNMP agent and are discovered under the RAC group. (151535)
- \* The choice of protocols specified for discovering and managing the devices can result in varying levels of manageability. For instance, if you choose to manage devices in your network using only CIM, the devices with only SNMP agent (example DRAC) will get classified under the "Unknown" group and consequently, you may not get application launch (example RAC console) functionality for the same. To avoid such issues, make a careful choice of the protocols while configuring discovery ranges, keeping in mind the devices (and protocols supported by agents running on those devices) that you are going to manage. (153729)
- \* After installing IT Assistant, if you reinstall the database application (Example: MSDE 2000/SQL Server 2000 etc - which is used by IT Assistant) then IT Assistant database will be detached from the database application. Run the following command manually to attach it back to the application.

NOTE: The command mentioned below shows the default location of SQL Server. Use the exact path to locate the database files.

```
EXEC sp_attach_db @dbname = 'ITAssist', @filename1 =  
"C:\Program Files\Microsoft SQL Server\MSSQL\Data\ITAssist_Data.MDF",  
@filename2 = "C:\Program Files\Microsoft SQL  
Server\MSSQL\Data\ITAssist_Log.LDF"
```

- This command can be run directly in SQL Query Analyzer. Or on the command prompt, run this command by using "OSQL -E."

- After executing the command, ensure that IT Assistant services ("DSM IT Assistant Connection Service" and "DSM IT Assistant Network Monitor") are up and running.
- \* IT Assistant incorrectly associates a stand-alone Dell PowerConnect(TM) 3448 switch with a modular chassis, as the switch Firmware incorrectly reports a non-blank chassis service tag. This issue will be corrected in the next firmware release for the 3448 switch.
- \* The password changes on a Windows managed system will not have any effect on the performance monitoring task if the connection to the managed system has already been established.(DF71103)
- \* If you are managing a Dell/EMC AX100i (iSCSI) array, see the EMC PowerLink website and view the information in Knowledge Base article emc136753 for obtaining a FLARE patch. This patch will fix a problem with discovering AX100i devices.
- \* NIC information is not displayed in the device details screen for Dell/EMC arrays. Use Navisphere Manager to view these details.
- \* When using the Broadcom ASF client utility to change Administrator or Operator permissions on your client machine, re-discover the device in IT Assistant to apply the changes before creating any new ASF power control tasks.
- \* The time displayed in the reports generated by IT Assistant and the "Device Summary/Details" page are in the time zone corresponding to the management station. (75603)
- \* If you are managing a Dell/EMC storage array, note that you need to enter the IP address for only one of the storage processors (that is, either SPA or SPB, and not both) in the discovery range. The storage processors are redundant and return the same inventory data to IT Assistant. If you enter both SPs in the discovery range, only one SP will be displayed in the device tree.
- \* On Dell PowerEdge x8xx systems (IPMI 1.5 systems) discovered through IPMI, system health will not reflect any redundancy information. For example, if one of the redundant power supplies is down and the other is available, the system health will still indicate green. (78500)
- \* While browsing the SNMP MIB in the Device details tab, the timeout values may have to be changed to enable retrieval of large entries from the MIB. The timeout value that controls the MIB retrieval is for the range applicable to the device. (SNMP configuration timeout in step 3 of the Edit Discovery Wizard.) The request timeout values may also need to be changed. (80132)
- \* IT Assistant will not work as expected if IP version6 is enabled on the Management Station. (79768)

\* It is not recommended to provide an IP address in multiple ranges, especially when you are using the IPMI Protocol. This could result in duplicate devices being displayed on the device tree. (78710)

\* For discovering systems running SUSE(R) Linux Enterprise Server and using SNMP, add the following to the snmpd.conf:

```
-----  
com2sec mynetwork 192.168.1.0/24 public  
group MyRWGroup v1 mynetwork  
view all included .1 80  
access MyRWGroup "" any noauth exact all all none  
-----
```

Ensure that you retain the trapsink and the smuxpeer lines in the existing conf file. You can delete all other content. In the line containing "com2sec mynetwork...", substitute the existing address with the subnet address your management station is on. For example, if the IT Assistant system has an IP address of 143.166.29.117, then substitute it with 143.166.29.0. Make sure to retain "/24."  
Restart /etc/init.d/snmpd. (81249)

\* For IPMI-based discovery or inventory, the maximum length for the host operating system name is 62 characters. Any character beyond that limit will be truncated. (91210)

\* Initialization of ML6000 may take a few minutes to give accurate information on the slotcount/drive count on IT Assistant.(66838)

\* You may experience problems while performing resource-intensive operations in IT Assistant if you keep the same browser session open for a couple of days. These operations include working with Software Deployment tasks and Performance and Power Monitoring features. To recover, close the browser and launch IT Assistant in a new browser window. (156726)

\* A first-time catalog update on the Online Repository Synchronization Wizard, may not populate the tree. To workaround this issue close and re-run the wizard.(162862)

\* If IT Assistant is running on a Windows Vista system, a first-time Catalog update on the Online Repository Synchronization Wizard may Cause the session to expire. If the session expires, close the browser and launch IT Assistant in a new browser window (162315).

\* On Vista and later operating systems, the Microsoft telnet client may not be installed by default. Due to this, IT Assistant may not show application launch point for SOL Proxy and telnet. Microsoft Telnet Client must be installed on the system where the IT Assistant UI is running. (157301)

\* If you set the task start or end time to a time in Daylight Saving Time (DST) shift period, IT Assistant will change the task start or end time to the closest valid time. A workaround to eliminate the changing of start or end time is to set a valid start/end

time. (165393)

- \* Changing time zone on the IT Assistant Management Station could lead to fatal errors being displayed. This could happen if you have date/time related data (for example, an Alert Filter) that is applicable to a particular date and time, configured on one time zone. If you change the time zone to another one that happens to be observing daylight saving time, and, if the date-time combination corresponding to your data is invalid, then launching IT Assistant would result in the above error.

To recover from this error:

- change back the system time zone to the previous one
- edit the data values such that they would translate into valid date and time combination in the other time zone
- change the system time zone and restart IT Assistant.

(165919)

- \* When opening the IT Assistant UI, respond to the security certificate challenge box and Microsoft User Access Control pop-up messages within approximately 2 minutes; otherwise the UI will time-out and fail to load. To correct this issue, close the current UI and re-open it. (102193,163732 )
- \* Power monitoring agent shows unknown status for devices if the you have selected only the Peak Amperage or Peak Power counters for the task running on these devices. (171464)
- \* By default, root login through SSH is not enabled on VMware ESX Servers. As a result, all IT Assistant tasks that use the root account would fail. To enable the SSH root login on the ESX Server, set the option "PermitRootLogin=YES" in /etc/ssh/sshd\_conf file. (174023)

- \* For systems with a Trusted Computing Group (TCG\_ 1.2-compliant Trusted Platform Module (TPM) chip, software updates for BIOS will fail if all of the following are true:

- The Microsoft Windows BitLocker Drive Encryption feature is enabled.
- The TPM feature is set (using BIOS) to ON with Preboot Measurement.  
For information about TPM security settings, see the Dell OpenManage Server Administrator Online Help or the Dell OpenManage Server Administrator User's Guide. The Dell OpenManage Server Administrator User's Guide is available on the Dell Support website at support.dell.com and on the appropriate media supplied by Dell.

For software updates for BIOS to function, perform the following steps:



- 1 Disable the Microsoft Windows BitLocker Drive Encryption feature.  
For information on disabling this feature, see the Microsoft documentation at [www.microsoft.com](http://www.microsoft.com).
- 2 Update BIOS.
- 3 Re-start the system.
- 4 Re-enable the Microsoft Windows BitLocker Drive Encryption feature.

You can use IT Assistant to view the TPM information in the Device Details page.

\* You may not get appropriate privileges in the IT Assistant GUI if:

A) you are part of an Active Directory group, which is in turn part of another group and

B) you launch Server Administrator using the desktop icon and Single Sign-on is enabled.(167801).

\* In the Online Repository Synchronization wizard, while testing Internet connectivity, if the test passes, IT Assistant may use the same Internet Connection settings and continue to report further tests as successful even if you provide different proxy settings. This issue can be overcome by restarting the DSM IT Assistant Connection Service.(174323)

\* If the CPU throttles, the following message in the Hardware System Event Log (SEL) will be displayed with an unknown severity: System Board Power Optimized: Performance status sensor for System Board, unknown event. This would be displayed in the "Hardware Logs" tab when you select the system in the Devices view.(175331)

\* SNMP connectivity from IT Assistant may fail if the SNMP ports on the management station and managed system are different. If some management applications change the default SNMP port, it could lead to SNMP connectivity failure from IT Assistant.(175442 )

\* Server Administrator Deployment task requires dependent components (example libc++) to be installed on the target systems running Linux Operating System. If these components are not installed, the task will fail with error message "omexec must be installed on the remote node for the task. See the help and ensure remote node requirements are met before executing the task." (175296)

#####  
THIRD PARTY DISCLAIMER  
#####

The following disclaimer applies to the "TreeTable" control code in IT Assistant:

Copyright 1997, 1998 Sun Microsystems, Inc. All Rights Reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided the following

conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistribution in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Sun Microsystems, Inc. or the names of contributors may be used to endorse or promote products derived from this software without specific prior written permission.

This software is provided "AS IS," without a warranty of any kind. ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE HEREBY EXCLUDED. SUN AND ITS LICENSORS SHALL NOT BE LIABLE FOR ANY DAMAGES OR LIABILITIES SUFFERED BY LICENSEE AS A RESULT OF OR RELATING TO USE, MODIFICATION OR DISTRIBUTION OF THIS SOFTWARE OR ITS DERIVATIVES. IN NO EVENT WILL SUN OR ITS LICENSORS BE LIABLE FOR ANY LOST REVENUE, PROFIT OR DATA, OR FOR DIRECT, INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, ARISING OUT OF THE USE OF OR INABILITY TO USE THIS SOFTWARE, EVEN IF SUN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

You acknowledge that this software is not designed, licensed or intended for use in the design, construction, operation or maintenance of any nuclear facility.

#####

Information in this document is subject to change without notice.  
(C) 2007 Dell Inc. All rights reserved.

Reproduction in any manner whatsoever without the written permission of Dell Inc. is strictly forbidden.

Trademarks used in this text: "Dell," "OpenManage," "PowerConnect," and "PowerEdge" are trademarks of Dell Inc.; "Microsoft", "Windows," "Windows Server," "Excel," and "Wingdings" are registered trademarks of Microsoft Corporation; "Novell," "NetWare," and "SUSE" are registered trademarks of Novell Inc.; "Red Hat" and Red Hat Enterprise Linux are registered trademarks of Red Hat, Inc.; "EMC," "Flare," and "Navisphere" are registered trademarks of EMC Corporation; "Java" and "JRE" are trademarks of Sun(TM) Microsystems.

Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell Inc. disclaims any proprietary interest in trademarks and trade names other than its own.

October 2007