

# Dell System E-Support Tool (DSET) Version 3.7.0

## Reportable Items For Windows Operating Systems Reference Guide



# Notes, Cautions, and Warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your computer.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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# Introduction

The reportable items document includes all the data types supported by the DSET application and displayed in the DSET report.


 **NOTE:**


- A few unique data elements are not included in the document.
- The data elements listed also includes other configuration or log files that may be collected but viewed only by navigating to the **.zip** archived contents in the DSET report.

## New in this release

The release highlights of Dell System E-Support Tool are:

- Support for the following PCIe SSD classes on Dell's 13th generation of PowerEdge servers in the iDRAC namespace:
  - Subsystem
  - Extender
  - Backplane
  - Arraydisks
- Addition of new attributes in the BIOS Setup category for Dell's 13th generation of PowerEdge servers.

 **NOTE:** The new attributes for this release are identified in this document by the text "(New)" next to them.

 **NOTE:** iDRAC namespace report has fewer attributes compared to DSET and OpenManage Server Administrator namespace reports.

# System Items List

The system items list includes the following:

- Main System Chassis
- Error Summary Information
- Chassis
- Modular Enclosure
- BIOS
- Batteries
- Processors Information
- Fans Probes Information
- Firmware
- Front Panel Information
- System Components (FRU) Information
- Intrusion Information
- Memory
- Network Interfaces Information
- Ports Information
- Power Supplies
- Remote Access Information
- Slots
- Temperature Probes Information
- Voltage Probes Information
- Auto Recovery
- Embedded System Management (ESM) Logs
- PCI Devices
- Network
- Removable Flash Media Information
- Hardware Performance
- Power Consumption Information

**Table 1. : System Category and Attributes**

Category	Attributes
<b>Main System Chassis</b>	<ul style="list-style-type: none"> <li>• Chassis Model</li> <li>• Chassis Service Tag</li> <li>• Express Service Code</li> <li>• Chassis Lock</li> <li>• Chassis Asset Tag</li> </ul>

Category	Attributes
	<ul style="list-style-type: none"> <li>• Server Module Asset Tag</li> <li>• Server Module Service Tag</li> <li>• Server Module Express Code</li> <li>• Server Module Location</li> <li>• Processor Manufacturer</li> <li>• Processor Family</li> <li>• Processor Version</li> <li>• Current Speed</li> <li>• Maximum Speed</li> <li>• External Clock Speed</li> <li>• Voltage</li> <li>• Total Installed Capacity</li> <li>• Memory Available to the OS</li> <li>• Total Maximum Capacity</li> <li>• Memory Array Count</li> <li>• Location</li> <li>• Use</li> <li>• Installed Capacity</li> <li>• Maximum Capacity</li> <li>• Slots Available</li> <li>• Slots Used</li> <li>• ECC Type</li> <li>• Manufacturer</li> <li>• Version</li> <li>• Release Date</li> <li>• Network Interface</li> <li>• IP Address</li> <li>• Subnet Mask</li> <li>• Default Gateway</li> <li>• MAC Address</li> <li>• Name</li> <li>• Version</li> <li>• Host Name</li> <li>• System Location</li> </ul>
<b>Error Summary Information</b>	<ul style="list-style-type: none"> <li>• Status</li> <li>• Name</li> <li>• Location</li> <li>• Details</li> </ul>
<b>Chassis</b>	<ul style="list-style-type: none"> <li>• Index</li> <li>• Chassis Name</li> <li>• Host Name</li> <li>• BMC Version</li> <li>• DRAC or iDRAC Version</li> <li>• Lifecycle Controller Version</li> </ul>

Category	Attributes
<b>Modular Enclosure</b>	<ul style="list-style-type: none"> <li>• Chassis Model</li> <li>• Chassis Lock</li> <li>• Chassis Service Tag</li> <li>• Chassis Asset Tag</li> <li>• Flash Chassis Identify LED state</li> <li>• Flash Chassis Identify LED timeout value</li> </ul> <ul style="list-style-type: none"> <li>• CMC Information <ul style="list-style-type: none"> <li>– Product</li> <li>– Description</li> <li>– Version</li> <li>– IP Address</li> <li>– IP Address Source</li> <li>– IP Address Type</li> </ul> </li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>• BIOS Information <ul style="list-style-type: none"> <li>– Manufacturer</li> <li>– Version</li> <li>– Release Date</li> </ul> </li> <li>• BIOS Setup <ul style="list-style-type: none"> <li>– General <ul style="list-style-type: none"> <li>* Attribute</li> <li>* Num Lock</li> <li>* Diskette</li> <li>* NIC</li> <li>* NIC 1</li> <li>* NIC 2</li> <li>* Dual NIC (1/2)</li> <li>* Dual NIC (3/4)</li> <li>* IDE</li> <li>* User Accessible USB Ports</li> <li>* Processor Virtualization Technology</li> <li>* Processor Logical Processor (HyperThreading)</li> <li>* Logical Processor</li> <li>* Number of Cores per Processor</li> <li>* AC Power Recovery Mode</li> <li>* Execute Disable</li> <li>* Embedded SATA Controller</li> <li>* Embedded Video Controller</li> <li>* SATA Port 0</li> <li>* SATA Port 1</li> <li>* SATA Port 2</li> </ul> </li> </ul> </li> </ul>

Category	Attributes
	<ul style="list-style-type: none"> <li>* SATA Port 3</li> <li>* Port A</li> <li>* Port B</li> <li>* Port C</li> <li>* Port D</li> <li>* Port E</li> <li>* Demand Based Power Management</li> <li>* TPM Security</li> <li>* Internal USB Port</li> <li>* Integrated Network Card 1</li> <li>* OS Watchdog Timer</li> <li>* Turbo Boost</li> <li>* Node Interleaving</li> <li>* Processor Execute Disable</li> <li>* Processor CMP</li> <li>* Boot Mode</li> <li>* Processor C State Control</li> <li>* Processor C1-E</li> <li>* Keyboard NumLock</li> </ul>
	<ul style="list-style-type: none"> <li>– System Security <ul style="list-style-type: none"> <li>* Intel(R) AES-NI</li> <li>* System Password</li> <li>* Setup Password</li> <li>* Password Status</li> <li>* SHA256 hash of the System password (New for 13G)</li> <li>* Salt string appended to the System password prior to hash (New for 13G)</li> <li>* SHA256 vhash of the Setup password (New for 13G)</li> <li>* Salt string appended to the Setup password prior to hash (New for 13G)</li> <li>* TPM Security</li> <li>* TPM Information (New for 13G)</li> <li>* TPM Activation</li> <li>* TPM Status</li> <li>* TPM Clear</li> <li>* TPM Command (New for 13G)</li> <li>* Intel(R) TXT</li> <li>* Power Button</li> <li>* NMI Button</li> <li>* AC Power Recovery</li> <li>* AC Power Recovery Delay</li> <li>* User Defined Delay (60s to 240s)</li> </ul> </li> </ul>

Category	Attributes
	<ul style="list-style-type: none"> <li>* UEFI Variable Access (New for 13G)</li> <li>* Secure Boot (New for 13G)</li> <li>* Secure Boot Policy (New for 13G)</li> </ul>
	<ul style="list-style-type: none"> <li>- Serial Communications <ul style="list-style-type: none"> <li>* Attribute</li> <li>* Serial Communications</li> <li>* Serial Port Address</li> <li>* Console Redirection After Boot</li> <li>* External Serial connector</li> <li>* Console Redirection Failsafe Baud Rate</li> <li>* Serial Address Select</li> <li>* Redirection After Boot</li> <li>* Failsafe Baud Rate</li> <li>* Remote Terminal Type</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>- SATA Settings <ul style="list-style-type: none"> <li>* Embedded SATA</li> <li>* Security Freeze Lock (New for 13G)</li> <li>* Write Cache (New for 13G)</li> <li>* Port &lt;number&gt; (New for 13G)</li> <li>* Port information</li> <li>* Model</li> <li>* Drive Type</li> <li>* Capacity</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>- Processor Settings <ul style="list-style-type: none"> <li>* Logical Processor</li> <li>* Alternate RTID (Requestor Transaction ID) Setting (New for 13G)</li> <li>* Adjacent Translation Service (ATS) (New for 13G)</li> <li>* QPI Speed</li> <li>* Virtualization Technology</li> <li>* Adjacent Cache Line Prefetch</li> <li>* Hardware Prefetcher</li> <li>* DCU Streamer Prefetcher</li> <li>* DCU IP Prefetcher</li> <li>* Execute Disable</li> <li>* Logical Processor Idling (New for 13G)</li> <li>* Configurable TDP (New for 13G)</li> <li>* X2Apic Mode (New for 13G)</li> <li>* Dell Controlled Turbo (New for 13G)</li> <li>* Number of Cores per Processor</li> <li>* Processor 64-bit Support</li> </ul> </li> </ul>

Category	Attributes
	<ul style="list-style-type: none"> <li>* Processor Core Speed</li> <li>* Processor Bus Speed</li> <li>* Brand</li> <li>* Level &lt;level_number&gt; Cache</li> <li>* Number of Cores</li> <li>* Family-Model-Stepping</li> </ul>
	<ul style="list-style-type: none"> <li>- Network Settings <ul style="list-style-type: none"> <li>* PXE Device1 (New for 13G)</li> <li>* PXE Device2 (New for 13G)</li> <li>* PXE Device3 (New for 13G)</li> <li>* PXE Device4 (New for 13G)</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>- Debug Menu (New for 13G) <ul style="list-style-type: none"> <li>* Check for software bugs (New for 13G)</li> <li>* Debug Print Level (80000042 recommended) (New for 13G)</li> <li>* Reboot Test Mode (New for 13G)</li> <li>* Reboot Test Point (New for 13G)</li> <li>* Reboot Test Count (New for 13G)</li> <li>* Embedded SATA Test Mode (New for 13G)</li> <li>* Spread Spectrum (New for 13G)</li> <li>* Embedded SATA RTSe Debug (New for 13G)</li> <li>* MRC Serial Debug Output (New for 13G)</li> <li>* DfX Margining (New for 13G)</li> <li>* TXEQ PCIe Workaround (New for 13G)</li> <li>* Misc. Device Unhide (New for 13G)</li> <li>* Memory RMT (New for 13G)</li> <li>* Memory Multi Thread (New for 13G)</li> <li>* Memory Fast Boot Cold (New for 13G)</li> <li>* Memory Per Bit Margin (New for 13G)</li> <li>* iDRAC IPMI SMA Debug Mode (New for 13G)</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>- Memory Settings <ul style="list-style-type: none"> <li>* System Memory Size</li> <li>* System Memory Type</li> <li>* System Memory Speed</li> <li>* System Memory Voltage</li> <li>* Video Memory</li> <li>* System Memory Testing</li> <li>* Memory Operating Mode</li> <li>* Node Interleaving</li> <li>* Snoop Mode (New for 13G)</li> </ul> </li> </ul>

Category	Attributes
	<ul style="list-style-type: none"> <li>* Correctable Memory ECC SMI (New for 13G)</li> </ul>
	<ul style="list-style-type: none"> <li>– System Profile Settings <ul style="list-style-type: none"> <li>* System Profile</li> <li>* CPU Power Management</li> <li>* Memory Frequency</li> <li>* Turbo Boost</li> <li>* C1E</li> <li>* C States</li> <li>* Collaboration CPU Performance Control (New for 13G)</li> <li>* Memory Patrol Scrub</li> <li>* Memory Refresh Rate</li> <li>* Uncore Frequency (New for 13G)</li> <li>* Energy Efficient Policy (New for 13G)</li> <li>* Number of Turbo Boost Enabled Cores for Processor 1 (New for 13G)</li> <li>* Monitor/Mwait (New for 13G)</li> <li>* Memory Operating Voltage</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>– Miscellaneous Settings <ul style="list-style-type: none"> <li>* Asset Tag</li> <li>* Keyboard NumLock</li> <li>* Report Keyboard Errors</li> <li>* F1/F2 Prompt on Error</li> <li>* In-System Characterization</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>– System Information <ul style="list-style-type: none"> <li>* System Model Name</li> <li>* System BIOS Version</li> <li>* System Management Engine Version (New for 13G)</li> <li>* System Service Tag</li> <li>* System Manufacturer</li> <li>* System Manufacturer Contact Information</li> <li>* System CPLD Version (New for 13G)</li> <li>* UEFI Compliance Version (New for 13G)</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>– Integrated Devices <ul style="list-style-type: none"> <li>* USB 3.0 Settings (New for 13G)</li> <li>* User Accessible USB Ports</li> <li>* Internal USB Port</li> <li>* Integrated Network Card</li> <li>* I/OAT DMA Engine (New for 13G)</li> </ul> </li> </ul>

Category	Attributes
	<ul style="list-style-type: none"> <li>* OS Watchdog Timer</li> <li>* Embedded Video Controller</li> <li>* Current State of Embedded Video Controller (New for 13G)</li> <li>* SR-IOV Global Enable</li> <li>* Memory Mapped I/O above 4GB</li> <li>- Slot Disablement <ul style="list-style-type: none"> <li>* Slot number</li> </ul> </li> <li>- PXE Device&lt;number&gt; Settings (New for 13G) <ul style="list-style-type: none"> <li>* Interface (New for 13G)</li> <li>* Protocol (New for 13G)</li> <li>* VLAN (New for 13G)</li> <li>* VLAN ID (New for 13G)</li> <li>* VLAN Priority (New for 13G)</li> </ul> </li> <li>- Boot Settings <ul style="list-style-type: none"> <li>* Boot Mode</li> <li>* Boot Sequence Retry</li> <li>* Hard-Disk Failover (New for 13G)</li> </ul> </li> <li>- UEFI Boot Settings (New for 13G) <ul style="list-style-type: none"> <li>* UEFI Boot Sequence (New for 13G)</li> <li>* UEFI PXE boot protocol (New for 13G)</li> </ul> </li> <li>- One-Time Boot <ul style="list-style-type: none"> <li>* One-Time Boot Device List</li> <li>* BIOS Boot Sequence Device</li> <li>* BIOS Hard-Disk Drive Sequence Device</li> <li>* UEFI Boot Sequence Device</li> </ul> </li> </ul>
<b>Batteries</b>	<p data-bbox="823 1247 1118 1272">Individual Battery Elements</p> <ul style="list-style-type: none"> <li>• Status</li> <li>• Probe Name</li> <li>• Reading</li> </ul>
<b>Processors Information</b>	<ul style="list-style-type: none"> <li>• Status</li> <li>• Connector Name</li> <li>• Processor Brand</li> <li>• Processor Version</li> <li>• Current Speed</li> <li>• State</li> <li>• Core Count</li> </ul>
<b>Fans Probes Information</b>	<ul style="list-style-type: none"> <li>• Fan Redundancy <ul style="list-style-type: none"> <li>- Attribute</li> </ul> </li> </ul>

Category	Attributes
	<ul style="list-style-type: none"> <li>- Redundancy Status</li> <li>• Probe List <ul style="list-style-type: none"> <li>- Status</li> <li>- Probe Name</li> <li>- Reading</li> <li>- Minimum Warning Threshold</li> <li>- Maximum Warning Threshold</li> <li>- Minimum Failure Threshold</li> <li>- Maximum Failure Threshold</li> </ul> </li> </ul>
<b>Firmware</b>	<ul style="list-style-type: none"> <li>• Baseboard Management Controller version</li> <li>• Remote Access Controller firmware version</li> <li>• DRAC or iDRAC version</li> <li>• Lifecycle Controller version</li> <li>• PERC Firmware version</li> <li>• Fiber Channel HBA Device</li> <li>• Dell OS Drivers Pack</li> <li>• System CPLD</li> <li>• NIC Firmware Version</li> <li>• Power Supply.Slot.&lt;number&gt;</li> <li>• Enterprise UEFI Diagnostics</li> <li>• BIOS version</li> <li>• Enclosure Firmware version</li> </ul>
<b>Front Panel Information</b>	LCD Line 1
<b>System Components (FRU) Information</b>	<ul style="list-style-type: none"> <li>• Device <ul style="list-style-type: none"> <li>- System Planar</li> <li>- Remote Access Controller Version</li> <li>- SAS Controller Daughter Card (Storage)</li> <li>- Power Supply</li> <li>- Primary Backplane (Storage)</li> <li>- Memory DIMM Slots</li> <li>- Disk Drive Bay (BP)</li> <li>- Add-in Card (NDC)</li> <li>- Add-in Card (MEZZB)</li> <li>- Add-in Card (PERC1)</li> <li>- Add-in Card (IDSDM)</li> <li>- DRIVE BACKPLANE</li> <li>- NIC.Integrated</li> <li>- RAID.Integrated</li> <li>- NIC.Slot</li> <li>- RAID.Slot</li> </ul> </li> <li>• Serial No.</li> <li>• Part No.</li> </ul>

Category	Attributes
<b>Intrusion Information</b>	<ul style="list-style-type: none"> <li>• Revision</li> <li>• Manufacturer</li> <li>• Manufacturer Date</li>   <li>• Status</li> <li>• Probe Name</li> <li>• State</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>• Fail Over State</li> <li>• Redundancy Configuration</li> <li>• Attributes of Memory Array(s) <ul style="list-style-type: none"> <li>– Location</li> <li>– Use</li> <li>– Installed Capacity</li> <li>– Maximum Capacity</li> <li>– Slots Available</li> <li>– Slots Used</li> <li>– ECC Type</li> </ul> </li> <li>• Total of Memory Array(s) <ul style="list-style-type: none"> <li>– Total Installed Capacity</li> <li>– Total Installed Capacity Available to the OS</li> <li>– Total Maximum Capacity</li> </ul> </li> <li>• Details of Memory Array <ul style="list-style-type: none"> <li>– Status</li> <li>– Connector Name</li> <li>– Type</li> <li>– Size</li> <li>– Device Name</li> <li>– Speed</li> <li>– Failures</li> </ul> </li> </ul>
<b>Network Interfaces Information</b>	<ul style="list-style-type: none"> <li>• Interface Name</li> <li>• Vendor</li> <li>• Description</li> <li>• Connection Status</li> <li>• Slot</li> <li>• Physical Interface <ul style="list-style-type: none"> <li>– Description</li> <li>– Vendor</li> <li>– Slot Name</li> <li>– Current MAC Address</li> <li>– Duplex</li> <li>– Base I/O Address</li> <li>– Base Memory Address</li> </ul> </li> </ul>

Category	Attributes
	<ul style="list-style-type: none"> <li>- IRQ</li> <li>- DMA</li> <li>- Link Status</li> <li>- Connection Status</li> <li>- Driver Name</li> <li>- Driver Version</li> <li>- Firmware Version</li> <li>• Interface <ul style="list-style-type: none"> <li>- Description</li> <li>- Type</li> <li>- Operational Status</li> <li>- Administrative Status</li> <li>- Maximum Transmission Unit</li> <li>- Speed Not Available</li> </ul> </li> <li>• Physical Interface Receive Statistics <ul style="list-style-type: none"> <li>- Alignment Errors</li> <li>- FCS Errors</li> <li>- Frames Too Long</li> </ul> </li> <li>• Physical Interface Transmit Statistics <ul style="list-style-type: none"> <li>- Single Collision Frames</li> <li>- Multiple Collision Frames</li> <li>- Deferred Transmits</li> <li>- Collisions</li> <li>- Late Collisions</li> <li>- Excessive Collisions</li> <li>- Carrier Sense Errors</li> </ul> </li> <li>• Interface Receive Statistics <ul style="list-style-type: none"> <li>- Bytes</li> <li>- Total Packets</li> <li>- Unicast Packets</li> <li>- Multicast Packets</li> <li>- Broadcast Packets</li> <li>- Discarded Packets</li> <li>- Error Packets</li> </ul> </li> <li>• Interface Transmit Statistics <ul style="list-style-type: none"> <li>- Bytes</li> <li>- Total Packets</li> <li>- Unicast Packets</li> <li>- Discarded Packets</li> <li>- Error Packets</li> </ul> </li> </ul>
<b>Ports Information</b>	<ul style="list-style-type: none"> <li>• Port Type</li> <li>• External Name</li> <li>• Base I/O Addr</li> </ul>

Category	Attributes
<b>Power Supplies</b>	<ul style="list-style-type: none"> <li>• IRQ Lvl</li> <li>• Connector Type</li> <li>• Maximum Speed</li>   <li>• MainSystemChassis Power Supplies</li> <li>• Power Supply Redundancy</li> <li>• Redundancy Status <ul style="list-style-type: none"> <li>– Status</li> <li>– Location</li> <li>– Type</li> <li>– Rated Input Wattage</li> <li>– Maximum Output Wattage</li> <li>– Firmware Version</li> <li>– Online Status</li> <li>– Power Monitoring Capable</li> </ul> </li> </ul>
<b>Remote Access Information</b>	<ul style="list-style-type: none"> <li>• Remote Access Device <ul style="list-style-type: none"> <li>– Device Type</li> <li>– IPMI Version</li> <li>– System GUID</li> <li>– Number of Possible Active Sessions</li> <li>– Number of Current Active Sessions</li> <li>– Enable IPMI Over LAN</li> <li>– SOL Enabled</li> <li>– MAC Address</li> <li>– Enable VLAN ID</li> <li>– VLAN ID</li> <li>– Priority</li> </ul> </li> <li>• IPv4 Address <ul style="list-style-type: none"> <li>– IP Address Source</li> <li>– IP Address</li> <li>– IP Subnet</li> <li>– IP Gateway</li> </ul> </li> <li>• IPV6 Address <ul style="list-style-type: none"> <li>– IP Address Source</li> <li>– IPv6 Address 1</li> <li>– Default Gateway</li> <li>– IPv6 Address 2</li> <li>– Link Local Address</li> <li>– DNS Address Source</li> <li>– Preferred DNS Server</li> <li>– Alternate DNS Server</li> </ul> </li> <li>• NIC Configuration <ul style="list-style-type: none"> <li>– Channel Number</li> </ul> </li> </ul>

Category	Attributes
	<ul style="list-style-type: none"> <li>- NIC Selection</li> <li>• Serial Port Configuration <ul style="list-style-type: none"> <li>- Channel Number</li> <li>- Connection Mode Setting</li> <li>- Baud Rate</li> <li>- Flow Control</li> <li>- Channel Privilege Level Limit</li> <li>- Serial Port Configuration</li> <li>- Line Editing</li> <li>- Delete Control</li> <li>- Echo Control</li> <li>- Handshaking Control</li> <li>- New Line Sequence</li> <li>- Input New Line Sequence</li> </ul> </li> <li>• Serial Over LAN Configuration <ul style="list-style-type: none"> <li>- Channel Number</li> <li>- Baud Rate</li> <li>- Minimum privileges required</li> <li>- Serial Over LAN Configuration</li> <li>- Retry Count</li> <li>- Retry Interval</li> <li>- Character Accumulate Interval</li> <li>- Character Send Threshold</li> </ul> </li> <li>• DRAC <ul style="list-style-type: none"> <li>- Product</li> <li>- Description</li> <li>- Version</li> <li>- IP Address</li> <li>- IP Subnet</li> <li>- IP Gateway</li> </ul> </li> </ul>
<b>Slots</b>	<ul style="list-style-type: none"> <li>• PCI Bus Hierarchy</li> <li>• Slot ID (Physical Location)</li> <li>• Adapter</li> <li>• Data Bus Width</li> <li>• PCI Device Description</li> <li>• PCI Type and Speed</li> <li>• PCI Data BusWidth</li> <li>• PCI Slot Length</li> <li>• Hot Plug Capable</li> <li>• Power Management Enabled</li> </ul>
<b>Temperature Probes Information</b>	Main System Temperatures <ul style="list-style-type: none"> <li>• Status</li> <li>• Probe Name</li> </ul>

Category	Attributes
<b>Voltage Probes Information</b>	<ul style="list-style-type: none"> <li>• Reading</li> <li>• Minimum Warning Threshold</li> <li>• Maximum Warning Threshold</li> <li>• Minimum Failure Threshold</li> <li>• Maximum Failure Threshold</li> </ul>
<b>Auto Recovery</b>	<ul style="list-style-type: none"> <li>• Status</li> <li>• Probe Name</li> <li>• Reading</li> <li>• Minimum Warning Threshold</li> <li>• Maximum Warning Threshold</li> <li>• Minimum Failure Threshold</li> <li>• Maximum Failure Threshold</li> </ul>
<b>Embedded System Management (ESM) Logs</b>	<ul style="list-style-type: none"> <li>• Action on hung Operating System</li> <li>• System Reset Timer</li> </ul>
<b>PCI Devices</b>	<ul style="list-style-type: none"> <li>• Severity</li> <li>• Date and Time</li> <li>• Description</li> <li>• Raw SEL data</li> </ul> <ul style="list-style-type: none"> <li>• Slot ID (Location)</li> <li>• Adapter</li> <li>• Data Bus Width</li> <li>• PCI Device Detail <ul style="list-style-type: none"> <li>– ID</li> <li>– Type</li> <li>– Slot Length</li> <li>– Speed</li> <li>– Category</li> <li>– Hot Plug Capable</li> <li>– Voltage Supply</li> <li>– Shared Slot</li> <li>– PC Card-16</li> <li>– Card Bus</li> <li>– Zoom Video</li> <li>– Modem Ring Resume</li> <li>– Power Management Enable (PME#) Signal</li> <li>– Adapter Manufacturer</li> <li>– Adapter Description</li> <li>– Adapter Data Bus Width</li> <li>– Adapter Speed</li> </ul> </li> </ul>
<b>Network</b>	<ul style="list-style-type: none"> <li>• Total Number of Network Cards</li> <li>• NIC Info</li> </ul>

Category	Attributes
Removable Flash Media Information	<ul style="list-style-type: none"> <li>• IP Address</li> <li>• Vendor</li> <li>• Description</li> <li>• Connection Status</li> <li>• Team Interfaces</li> </ul> <ul style="list-style-type: none"> <li>• Internal SD Module Status <ul style="list-style-type: none"> <li>– Status</li> <li>– Connector Name</li> <li>– State</li> <li>– Storage</li> </ul> </li> <li>• vFlash Media Details <ul style="list-style-type: none"> <li>– Connector Name</li> <li>– Type</li> <li>– State</li> <li>– Available Size</li> <li>– Storage Size</li> </ul> </li> </ul>
Hardware Performance	<ul style="list-style-type: none"> <li>• Probe Name</li> <li>• Status</li> <li>• Cause</li> </ul>
Power Consumption Information	<ul style="list-style-type: none"> <li>• Power Consumption <ul style="list-style-type: none"> <li>– Status</li> <li>– Probe Name <ul style="list-style-type: none"> <li>* System Board System Level</li> <li>* System Board Pwr Consumption</li> </ul> </li> <li>– Reading</li> <li>– Warning Threshold</li> <li>– Failure Threshold</li> </ul> </li> <li>• Amperage <ul style="list-style-type: none"> <li>– Location <ul style="list-style-type: none"> <li>* Current</li> </ul> </li> <li>– Reading</li> </ul> </li> <li>• Power Headroom <ul style="list-style-type: none"> <li>– Attribute <ul style="list-style-type: none"> <li>* System Instantaneous Headroom</li> <li>* System Peak Headroom</li> </ul> </li> <li>– Value</li> </ul> </li> <li>• Power Tracking Statistics <ul style="list-style-type: none"> <li>– Statistic</li> </ul> </li> </ul>

Category	Attributes
	<ul style="list-style-type: none"> <li>* Energy Consumption</li> <li>* System Peak Power</li> <li>* System Peak Amperage</li> <li>- Measurement Start Time</li> <li>- Measurement Finish Time</li> <li>- Reading</li> <li>- Peak Time</li> <li>- Peak Reading</li> <li>• Power Inventory               <ul style="list-style-type: none"> <li>- Attribute                   <ul style="list-style-type: none"> <li>* System Idle Power</li> <li>* System Maximum Potential Power</li> </ul> </li> <li>- Value</li> </ul> </li> <li>• Power Budget               <ul style="list-style-type: none"> <li>- Attribute                   <ul style="list-style-type: none"> <li>* Enable Power Cap</li> <li>* Power Cap</li> </ul> </li> <li>- Values</li> </ul> </li> <li>• Power Profiles               <ul style="list-style-type: none"> <li>- Maximum Performance</li> <li>- Active Power Controller</li> <li>- OS Control</li> <li>- Custom</li> </ul> </li> </ul>

## Storage Items List

The storage items list includes the following:

- Controllers Information
- Battery
- Enclosures
- Array Disks
- Virtual Disks
- IDE Controller
- Channel
- Physical Disks (Non-RAID)
- Enclosure Details
- Tape
- SATA
- Fibre Channel HBA
- iSCSI
- PCIe-SSD Subsystem Information (New)

**Table 2. : Storage Category and Attributes**

Category	Attributes
<b>Controllers Information</b>	<ul style="list-style-type: none"> <li>• Properties               <ul style="list-style-type: none"> <li>– ID</li> <li>– Name</li> <li>– State</li> <li>– Firmware Version</li> <li>– Minimum Required Firmware Version</li> <li>– Driver Version</li> <li>– Minimum Required Driver Version</li> <li>– Storport Driver Version</li> <li>– Number of Connectors</li> <li>– Rebuild Rate</li> <li>– BGI Rate</li> <li>– Check consistency Rate</li> <li>– Reconstruct Rate</li> <li>– Security Capable</li> <li>– Security Key Present</li> <li>– Alarm State</li> <li>– SCSI Initiator ID</li> </ul> </li> </ul>

Category	Attributes
	<ul style="list-style-type: none"> <li>- Cache Memory Size</li> <li>- Patrol Read Mode</li> <li>- Patrol Read State</li> <li>- Patrol Read Rate</li> <li>- Patrol Read Iterations</li> <li>- Abort Check Consistency on Error</li> <li>- Allow Revertible Hot Spare and Replace Member</li> <li>- Load Balance</li> <li>- Auto Replace Member on Predictive Failure</li> <li>- CacheCade Capable</li> <li>- Encryption Capable</li> <li>- Encryption Key Present</li> <li>- Encryption Mode</li> <li>- Cluster Mode</li> <li>- Persistent Hot Spare</li> <li>- Connector Type</li> <li>- Termination</li> <li>- SCSI Rate</li> <li>- SCSI Initiator ID</li> <li>- Spin Down Unconfigured Drives</li> <li>- Spin Down Hot Spares</li> <li>- Spin Down Configured Drives</li> <li>- Automatic Disk Power Saving (Idle C)</li> <li>- T10 Protection Information Capable (New)</li> </ul>
<b>Battery</b>	<ul style="list-style-type: none"> <li>• Status</li> <li>• Name</li> <li>• State</li> <li>• Recharge Count</li> <li>• Max Recharge Count</li> <li>• Predicted Capacity Status</li> <li>• Learn State</li> <li>• Next Learn Time</li> <li>• Maximum Learn Delay</li> <li>• Learn Mode</li> </ul>
<b>Enclosure</b>	<ul style="list-style-type: none"> <li>• ID</li> <li>• Status</li> <li>• Name</li> <li>• State</li> <li>• Connector</li> <li>• Target ID</li> <li>• Configuration</li> <li>• Firmware Version</li> <li>• Service Tag</li> </ul>

Category	Attributes
<b>Array Disks</b>	<ul style="list-style-type: none"> <li>• Express Service Code</li> <li>• Asset Tag</li> <li>• Asset Name</li> <li>• Backplane Part Number</li> <li>• Split Bus Part Number</li> <li>• Enclosure Part Number</li> <li>• SAS Address</li> <li>• SCSI Rate</li> <li>• Enclosure Alarm</li>   <li>• Status</li> <li>• Connector (New)</li> <li>• Power Status</li> <li>• Name</li> <li>• State</li> <li>• Failure Predicted</li> <li>• Certified</li> <li>• Encryption Capable</li> <li>• Secured</li> <li>• Progress</li> <li>• Bus Protocol</li> <li>• Media</li> <li>• Part of Cache Pool</li> <li>• Device Life Remaining</li> <li>• Driver Version</li> <li>• Model Number</li> <li>• T10 PI Capable (New)</li> <li>• Encrypted (New)</li> <li>• Mirror Set ID</li> <li>• Capacity</li> <li>• Used RAID Disk Space</li> <li>• Available RAID Disk Space</li> <li>• Hot Spare</li> <li>• Vendor ID</li> <li>• Product ID</li> <li>• Revision</li> <li>• Serial No.</li> <li>• Part Number</li> <li>• Negotiated Speed</li> <li>• Capable Speed</li> <li>• Device Write Cache</li> <li>• Manufacture Day</li> <li>• Manufacture Week</li> <li>• Manufacture Year</li> <li>• SAS Address</li> </ul>

<b>Category</b>	<b>Attributes</b>
<b>Virtual Disks</b>	<ul style="list-style-type: none"> <li>• Status</li> <li>• Name</li> <li>• State</li> <li>• Encrypted (New)</li> <li>• Progress</li> <li>• Layout</li> <li>• Size</li> <li>• T10 Protection Information Status(New)</li> <li>• Associated Fluid Cache State (New)</li> <li>• Device Name</li> <li>• Bus Protocol</li> <li>• Media</li> <li>• Read Policy</li> <li>• Write Policy</li> <li>• Stripe Element Size</li> <li>• Disk Cache Policy</li> </ul>
<b>IDE Controller</b>	<ul style="list-style-type: none"> <li>• Name</li> <li>• Status</li> <li>• Firmware Version</li> <li>• Device Descriptor</li> <li>• Description</li> <li>• Device location</li> <li>• Parent location</li> <li>• Manufacturer</li> <li>• Serial No.</li> <li>• Model Number</li> <li>• Asset Tag</li> <li>• Channels</li> <li>• CD/DVD/Floppy Drive Name</li> <li>• CD/DVD/Floppy Drive Firmware</li> <li>• CD/DVD/Floppy Drive Location on PCI Bus</li> </ul>
<b>Channel</b>	<ul style="list-style-type: none"> <li>• Status</li> <li>• Name</li> <li>• State</li> <li>• Connector Type</li> <li>• Termination</li> <li>• SCSI Rate</li> </ul>
<b>Physical Disks (Non-RAID)</b>	<ul style="list-style-type: none"> <li>• Status</li> <li>• Disk Channel</li> <li>• SCSI ID</li> <li>• LUN</li> <li>• Drive Vendor/Product ID</li> <li>• Drive Firmware Rev</li> </ul>

Category	Attributes
Enclosure Details	<ul style="list-style-type: none"> <li>• Drive Signature</li> <li>• Enclosure Management Modules: <ul style="list-style-type: none"> <li>– Status</li> <li>– Name</li> <li>– State</li> <li>– Part Number</li> <li>– Firmware Version</li> <li>– SCSI Rate</li> </ul> </li> <li>• Fans: <ul style="list-style-type: none"> <li>– Name</li> <li>– State</li> <li>– Part Number</li> <li>– Status</li> <li>– Speed</li> </ul> </li> <li>• Power Supplies: <ul style="list-style-type: none"> <li>– Name</li> <li>– State</li> <li>– Part Number</li> </ul> </li> <li>• Temperature: <ul style="list-style-type: none"> <li>– Status</li> <li>– Name</li> <li>– State</li> <li>– Reading</li> <li>– Minimum/Maximum Warning Threshold</li> <li>– Minimum/Maximum Critical Threshold</li> </ul> </li> </ul>
Tape	<ul style="list-style-type: none"> <li>• Name</li> <li>• Status</li> <li>• Firmware</li> <li>• Device Descriptor</li> <li>• Device Location</li> <li>• Parent Location</li> <li>• Manufacturer</li> <li>• Serial Number</li> <li>• Model Number</li> </ul> <p> <b>NOTE:</b> Other tape device specific information such as whether clean is required, power on hours etc.</p>
SATA	<ul style="list-style-type: none"> <li>• Controller Status</li> <li>• Firmware</li> <li>• Device Location</li> <li>• Parent Location</li> </ul>

Category	Attributes
Fibre Channel HBA	<ul style="list-style-type: none"> <li>• Manufacturer</li> <li>• Channels</li> <li>• SATA Disk State</li> <li>• SATA Disk Capacity</li> <li>• SATA Disk Vendor ID</li> <li>• SATA Disk Product ID</li> </ul> <ul style="list-style-type: none"> <li>• HBA name</li> <li>• HBA model</li> <li>• Firmware</li> <li>• Driver</li> <li>• Type</li> <li>• Vendor</li> <li>• HBA port</li> </ul>
iSCSI	<ul style="list-style-type: none"> <li>• Initiator info</li> <li>• Targets list</li> <li>• Session <ul style="list-style-type: none"> <li>– Session ID</li> <li>– Initiator Node Name</li> <li>– Target Node Name</li> <li>– Target Name</li> <li>– ISID</li> <li>– TSID</li> <li>– Connection Count</li> </ul> </li> <li>• Connections <ul style="list-style-type: none"> <li>– Connection ID</li> <li>– Initiator Portal</li> <li>– Target Portal</li> <li>– CID</li> </ul> </li> <li>• Devices <ul style="list-style-type: none"> <li>– Device Type</li> <li>– Device Number</li> <li>– Partition Number</li> <li>– Friendly Name</li> <li>– Device Description</li> <li>– Reported Mappings</li> <li>– Location</li> <li>– Initiator Name</li> <li>– Device Interface Name</li> <li>– Device Instance</li> </ul> </li> <li>• Portals <ul style="list-style-type: none"> <li>– Portal Address and Socket</li> </ul> </li> </ul>

Category	Attributes
PCIe-SSD Subsystem Information	<ul style="list-style-type: none"> <li data-bbox="868 243 1078 268">– Symbolic Name</li> <li data-bbox="868 277 1050 302">– Port Number</li> <li data-bbox="826 333 1050 359">• Properties (New) <ul style="list-style-type: none"> <li data-bbox="868 384 999 409">– ID (New)</li> <li data-bbox="868 417 1042 443">– Name (New)</li> <li data-bbox="868 451 1031 476">– State (New)</li> <li data-bbox="868 485 1211 510">– Number of Extenders (New)</li> </ul> </li> <li data-bbox="826 518 1161 543">• PCIe-SSD Extenders (New) <ul style="list-style-type: none"> <li data-bbox="868 569 1042 594">– Status (New)</li> <li data-bbox="868 602 1042 627">– Name (New)</li> <li data-bbox="868 636 1031 661">– State (New)</li> </ul> </li> <li data-bbox="826 669 1058 695">• Enclosures (New) <ul style="list-style-type: none"> <li data-bbox="868 720 1042 745">– Status (New)</li> <li data-bbox="868 753 1042 779">– Name (New)</li> <li data-bbox="868 787 1031 812">– State (New)</li> <li data-bbox="868 821 1187 846">– PCIe-SSD Extender (New)</li> <li data-bbox="868 854 1166 879">– Firmware Version (New)</li> <li data-bbox="868 888 1106 913">– Asset Name (New)</li> <li data-bbox="868 921 1235 947">– Enclosure Part Number (New)</li> </ul> </li> </ul>

# Software Items List

The software items list includes the following:

- OS Summary
- Internet Explorer
- Uptime Logs
- Resources
  - DMA
  - IRQ
  - Memory Allocations
  - IO Ranges
- Components
  - Display Information
  - Startup List
  - USB
  - Problem Devices
  - Network Adapter Information
  - Storage Information
- Environment
  - Environment Variables
  - Drivers
  - Processes
  - Installed Items
  - Service Information
  - Modules
  - Boot/Page Info
  - Registry Items
  - Kernel Dump
- Logs
  - Application Log
  - System Log
  - Dr. Watson
- Modem
- Operating System Startup Items
- OpenManage Components

**Table 3. : Software Category and Attributes**

Category	Attributes
<b>OS Summary</b>	<ul style="list-style-type: none"> <li>• OS Name</li> <li>• Version</li> <li>• Other OS Description</li> <li>• OS Manufacturer</li> <li>• Activation Status</li> <li>• System Name</li> <li>• System Manufacturer</li> <li>• System Model</li> <li>• System Type</li> <li>• Processor</li> <li>• BIOS Version Date</li> <li>• SMBIOS Version</li> <li>• Windows Directory</li> <li>• System Directory</li> <li>• Boot Device</li> <li>• Locale</li> <li>• Hardware Abstraction Layer</li> <li>• User Name</li> <li>• Time Zone</li> <li>• OS Install Date</li> <li>• Total Physical Memory</li> <li>• Available Physical Memory</li> <li>• Total Virtual Memory</li> <li>• Available Virtual Memory</li> <li>• Page File Space</li> <li>• Page File</li> </ul>
<b>Internet Explorer</b>	<ul style="list-style-type: none"> <li>• Name</li> <li>• MkEnabled</li> <li>• Build</li> <li>• Version</li> <li>• Windows Version</li> <li>• IntegratedBrowser</li> <li>• AutoHide</li> <li>• Security Risk Page</li> <li>• Extensions Off Page</li> <li>• Default_Page_URL</li> <li>• Default_Search_URL</li> <li>• Search Page</li> <li>• Enable_Disk_Cache</li> <li>• Cache_Percent_of_Disk</li> <li>• Delete_Temp_Files_On_Exit</li> <li>• Local Page</li> <li>• Anchor_Visitation_Horizon</li> </ul>

Category	Attributes
Uptime Log	<ul style="list-style-type: none"> <li>• Use_Async_DNS</li> <li>• Placeholder_Width</li> <li>• Placeholder_Height</li> <li>• Default_Secondary_Page_URL</li> <li>• Start Page</li> <li>• Company Name</li> <li>• Custom_Key</li> <li>• Wizard_Version</li> <li>• FullScreen</li> </ul> <ul style="list-style-type: none"> <li>• Current System Uptime</li> <li>• Total Availability Percentage</li> <li>• Total Up Time</li> <li>• Total Down Time</li> <li>• Total Reboots</li> <li>• Total Blue Screens</li> </ul>
Resources	<ul style="list-style-type: none"> <li>• DMA <ul style="list-style-type: none"> <li>– Channel</li> <li>– Device</li> <li>– Status</li> </ul> </li> <li>• IRQ <ul style="list-style-type: none"> <li>– IRQ</li> <li>– Device</li> </ul> </li> <li>• Memory Allocations <ul style="list-style-type: none"> <li>– Range</li> <li>– Device</li> <li>– Status</li> </ul> </li> <li>• IO Ranges <ul style="list-style-type: none"> <li>– Address_Range</li> <li>– Device</li> <li>– Status</li> </ul> </li> </ul>
Component	<ul style="list-style-type: none"> <li>• Display Information <ul style="list-style-type: none"> <li>– Program</li> <li>– PNP Device ID</li> <li>– Adapter Type</li> <li>– Adapter Description</li> <li>– Adapter RAM</li> <li>– Installed Drivers</li> <li>– Driver Version</li> <li>– INF File</li> <li>– Color Planes</li> </ul> </li> </ul>

Category	Attributes
	<ul style="list-style-type: none"> <li>- Color Table Entries</li> <li>- Resolution</li> <li>- Bits/Pixel</li> </ul>
	<ul style="list-style-type: none"> <li>• Startup List <ul style="list-style-type: none"> <li>- Program</li> <li>- Command</li> <li>- User Name</li> <li>- Location</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• USB <ul style="list-style-type: none"> <li>- Name</li> <li>- PnP Device ID</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Problem Devices <ul style="list-style-type: none"> <li>- Device</li> <li>- Error Code</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Network Adapter Information <ul style="list-style-type: none"> <li>- Product Type</li> <li>- Installed</li> <li>- Last Reset</li> <li>- Index</li> <li>- DHCP Enabled</li> <li>- IP Enabled</li> <li>- PNP Device ID</li> <li>- Service Name</li> <li>- Adapter Type</li> <li>- MAC Address</li> <li>- DNS Server IP</li> <li>- DNS Domain</li> <li>- Driver Path</li> <li>- DHCP Server</li> <li>- DHCP Lease Expires</li> <li>- DHCP Lease Obtained</li> <li>- IP Address</li> <li>- IP Subnet</li> <li>- Default IP Gateway</li> <li>- Connectionless Service</li> <li>- Guarantees Delivery</li> <li>- Guarantees Sequencing</li> <li>- Minimum Address Size</li> <li>- Maximum Address Size</li> <li>- Maximum Message Size</li> <li>- Maximum Message Size</li> <li>- Message Oriented</li> </ul> </li> </ul>

Category	Attributes
	<ul style="list-style-type: none"> <li>- Pseudo Stream Oriented</li> <li>- Supports Broadcasting</li> <li>- Supports Connect Data</li> <li>- Supports Disconnect Data</li> <li>- Supports Encryption</li> <li>- Supports ExpeditedData</li> <li>- Supports Graceful Closing</li> <li>- Supports Guaranteed Bandwidth</li> <li>- Supports Multicasting</li> <li>• Storage Information <ul style="list-style-type: none"> <li>- Description</li> <li>- Compressed</li> <li>- File System</li> <li>- Size</li> <li>- Free Space</li> <li>- Volume Name</li> <li>- Volume Serial Number</li> <li>- Manufacturer</li> <li>- Provider Name Model</li> <li>- Bytes Per Sector</li> <li>- Media Loaded</li> <li>- Media Type</li> <li>- Partitions</li> <li>- SCSI Bus</li> <li>- SCSI Logical Unit</li> <li>- SCSI Port</li> <li>- SCSI TargetID</li> <li>- Sectors Per Track</li> <li>- Total Cylinders</li> <li>- Total Sectors</li> <li>- Total Tracks</li> <li>- Tracks Per Cylinder</li> <li>- PartitionDiskIndex</li> <li>- Partition</li> <li>- Partition Size</li> <li>- Partition Start</li> <li>- Bootable Partition</li> <li>- Partition Type</li> </ul> </li> </ul>
<b>Environment</b>	<ul style="list-style-type: none"> <li>• Environment Variables <ul style="list-style-type: none"> <li>- Variable</li> <li>- Variable Value</li> <li>- User Name</li> <li>- System Variable</li> </ul> </li> <li>• Drivers</li> </ul>

Category	Attributes
	<ul style="list-style-type: none"> <li>- Internal Name</li> <li>- Description</li> <li>- File</li> <li>- Version</li> <li>- Type</li> <li>- Start</li> <li>- Status</li> <li>- Name</li> <li>- Company</li> <li>• Processes <ul style="list-style-type: none"> <li>- Name</li> <li>- ID</li> <li>- Mem Usage</li> <li>- VM Size</li> <li>- Paged Pool</li> <li>- NP Pool</li> <li>- Page Faults</li> <li>- CPU Time</li> <li>- Priority</li> <li>- Threads</li> <li>- Handles</li> <li>- Started</li> <li>- Path</li> <li>- GDI Objects</li> <li>- User Objects</li> <li>- IO Reads</li> <li>- IO Writes</li> <li>- IO Other</li> <li>- Read bytes</li> <li>- Write bytes</li> <li>- Other bytes</li> </ul> </li> <li>• Installed Items <ul style="list-style-type: none"> <li>- Name</li> <li>- Version</li> <li>- InstallLocation</li> <li>- InstallSource</li> <li>- Install date</li> <li>- Publisher</li> <li>- URL Info About</li> </ul> </li> <li>• Service Information <ul style="list-style-type: none"> <li>- Display Name</li> <li>- Service Name</li> <li>- State</li> </ul> </li> </ul>

Category	Attributes
	<ul style="list-style-type: none"> <li>- Start Mode</li> <li>- Service Type</li> <li>- Service Path</li> <li>- Error Control</li> <li>- Start Name</li> <li>• Modules <ul style="list-style-type: none"> <li>- Internal Name</li> <li>- Version</li> <li>- Size</li> <li>- File Date Time</li> <li>- Manufacturer</li> <li>- Source Path</li> </ul> </li> <li>• Boot/Page Info <ul style="list-style-type: none"> <li>- Boot.ini Settings Pagefile <ul style="list-style-type: none"> <li>* Path</li> <li>* Initial Size</li> <li>* Current Size</li> <li>* Max Size</li> <li>* Max Total Size</li> </ul> </li> </ul> </li> <li>• Registry Items <ul style="list-style-type: none"> <li>- HKLM\SOFTWARE\Dell</li> <li>- HKLM\Software\Dell Computer Corporation</li> <li>- HKLM\Software\American Megatrends Inc.</li> <li>- HKLM\Software\Adaptec</li> <li>- HKLM\Software\ComputerAssociates</li> <li>- HKLM\SYSTEM\CurrentControlSet\Services\ql2200</li> <li>- HKLM\SYSTEM\CurrentControlSet\Services\ql2200\Parameters</li> <li>- HKLM\SYSTEM\CurrentControlSet\Services\ql2x00_override\Parameters</li> <li>- HKLM\SYSTEM\CurrentControlSet\Services\qldirect\Parameters</li> <li>- HKLM\SYSTEM\CurrentControlSet\Services\qldirect_override\Parameters</li> <li>- HKLM\SYSTEM\CurrentControlSet\Services\SNMP\Parameters\ExtensionAgents</li> <li>- HKLM\Cluster</li> <li>- HKLM\SYSTEM\CurrentControlSet\Control\Class</li> <li>- HKLM\SYSTEM\CurrentControlSet\Services</li> <li>- HKLM\SOFTWARE\Storage Consolidation</li> </ul> </li> <li>• Kernel Dump <ul style="list-style-type: none"> <li>- Dump Location</li> <li>- Minidump Location</li> </ul> </li> </ul>

Category	Attributes
<b>Logs</b>	<ul style="list-style-type: none"> <li>• Applications Log <ul style="list-style-type: none"> <li>– Status</li> <li>– Type</li> <li>– Source</li> <li>– DateTime</li> <li>– Event ID</li> <li>– Message or Comment</li> </ul> </li> <li>• System Log <ul style="list-style-type: none"> <li>– Status</li> <li>– Type</li> <li>– Source</li> <li>– DateTime</li> <li>– Event ID</li> <li>– Message or Comment</li> </ul> </li> <li>• Dr. Watson Log <ul style="list-style-type: none"> <li>– Dump settings</li> <li>– Dump file location</li> </ul> </li> </ul>
<b>Modem</b>	Manufacturer
<b>Operating System Startup Items</b>	<ul style="list-style-type: none"> <li>• Program</li> <li>• Command</li> <li>• Location</li> <li>• EXE/Registry Path</li> <li>• User Name</li> </ul>
<b>OpenManage Components</b>	<ul style="list-style-type: none"> <li>• OpenManage Suite Version</li> <li>• Name</li> <li>• Version</li> </ul>

## Log Files List

The log files list includes the following:

- Logs Gathered by Script/Tools
- OpenManage Server Administrator Configurations
- RAC3/4 Logs
- 23 IT Assitant 7/MSDE Configurations
- EMC PowerPath
- Netstat
- StorageC
- Windows Clustering
- Windows (Only for Windows 2008)
- Logs Gathered With Log.ini

**Table 4. : Logs Category and List**

Category	List
<b>Logs Gathered by Script/Tools</b>	<ul style="list-style-type: none"> <li>• Netstat -e &amp; netstat -r</li> <li>• Adaptec Controller Logs (from firmware)</li> <li>• LSI Controller Logs (from firmware)</li> </ul>
<b>OpenManage Server Administrator Configurations</b>	<ul style="list-style-type: none"> <li>• Alert Action</li> <li>• Alert Log</li> <li>• Cmdlog</li> <li>• Events</li> <li>• PE destinations</li> <li>• Platformentents</li> <li>• SNMP Envents</li> <li>• PDK inventory.xml</li> </ul>
<b>RAC3/4 Logs</b>	<ul style="list-style-type: none"> <li>• RACADM getsysinfo</li> <li>• RACADM getraclog</li> <li>• RACADM gettracelog</li> </ul>
<b>23 IT Assitant 7/MSDE Configurations</b>	<ul style="list-style-type: none"> <li>• DCDBMNG Agent</li> <li>• DCDBMNG Applog</li> <li>• DCDBMNG Device</li> <li>• DCDBMNG DeviceGroup</li> <li>• DCDBMNG DeviceGroupHierarchy</li> <li>• DCDBMNG DiscoveryConfiguration</li> <li>• DCDBMNG EventFilter</li> <li>• DCDBMNG EventFilterActionAssociation</li> </ul>

Category	List
EMC PowerPath	<ul style="list-style-type: none"> <li>• DCDBMNG EventFilterCategoryAssociation</li> <li>• DCDBMNG EventFilterSourceAssociation</li> <li>• DCDBMNG EventStoredAction</li> <li>• DCDBMNG EventManager</li> <li>• DCDBMNG GlobalConfigurationView</li> </ul> <ul style="list-style-type: none"> <li>• POWERMT version</li> <li>• POWERMT check_registration</li> <li>• POWERMT display</li> <li>• POWERMT paths</li> <li>• POWERMT options</li> </ul>
Netstat	netstatinfo
StorageC	<ul style="list-style-type: none"> <li>• STORAGEEC stat</li> <li>• STORAGEEC showdl</li> </ul>
Windows Clustering	<ul style="list-style-type: none"> <li>• CLUSTER . res</li> <li>• CLUSTER . res /priv</li> <li>• CLUSTER . netint</li> <li>• CLUSTER . /quorum</li> </ul>
Windows (Only for Windows 2008)	<ul style="list-style-type: none"> <li>• Event Logs <ul style="list-style-type: none"> <li>– ADSIDebug</li> <li>– Application</li> <li>– BitsclientAnalytic</li> <li>– BitsClientOperational</li> <li>– CAPI2Operational</li> <li>– CFRClientOperational</li> <li>– CFIServerOperational</li> <li>– Codeintegrityoperational</li> <li>– CodeIntegrityVerbose</li> <li>– COMAnalytic</li> <li>– CredentialRoaminOperational</li> <li>– DateTimeControlPanelAnalytic</li> <li>– DateTimeControlPanelOperation</li> <li>– DCLocatorDebug</li> <li>– DiagnosisPLADebug</li> <li>– DiagnosticNetworkingDebug</li> <li>– DiagnosticNetworkingOperational</li> <li>– DPSAnalytic</li> <li>– DPSDebug</li> <li>– DPSOperational</li> <li>– DriverframeworksUserModeOperational</li> <li>– DwgkrnlDiagnostic</li> <li>– EFSDebug EndpointMapper</li> </ul> </li> </ul>

Category	List
	<ul style="list-style-type: none"> <li>- EventCollectorDebug</li> <li>- EventCollectorOperational</li> <li>- EventLogAnalytic</li> <li>- EventLogDebug</li> <li>- EventLogForwardpluginDebug</li> <li>- EventLogWMIProviderDebug</li> <li>- FileInfoMinifilterOperational</li> <li>- FirewallCPLDlagnostic</li> <li>- ForwardedEvents</li> <li>- ForwardingOperational</li> <li>- FunctionDiscoveryHostTracing</li> <li>- GroupPolicyOperational</li> <li>- HardwareEvents</li> <li>- HelpOperational</li> <li>- HttpServiceTrace</li> <li>- InternationalOperational</li> <li>- InternetExplorer</li> <li>- IPECSRVDlagnostic</li> <li>- KernelAcpiDiagnostic</li> <li>- KernelBootDiagnosticsDiagnostic</li> <li>- KernelPnDiagnostic</li> <li>- KernelPowerDiagnostic</li> <li>- KernelPrefetchDiagnostic</li> <li>- KernelProcessAnalytic</li> <li>- KernelProcessorPowerDiagnostic</li> <li>- KernelRegistryAnalytic</li> <li>- KernelWDIAnalytic</li> <li>- KernelWDIDebug</li> <li>- KernelWDIOperational</li> <li>- KernelWHEA</li> <li>- KeyManagementService</li> <li>- LanguagePackAnalytic</li> <li>- LanguagePackSetupDebug</li> <li>- LDAPClientDebug</li> <li>- MPSClNTDiagnostic</li> <li>- MPSDRVDiagnostic</li> <li>- MPSSRVDiagnostic</li> <li>- MSDTDebug</li> <li>- MSDTOperational</li> <li>- MUIOperational</li> <li>- NetworkAccessProtectionOperational</li> <li>- Offlinefilesanalytic</li> <li>- OfflineFilesDebug</li> <li>- OfflineFilesOperational</li> </ul>

Category	List
	<ul style="list-style-type: none"> <li>- OfflineFilesSyncLog</li> <li>- PerfHostAnalytic</li> <li>- PLASOperational</li> <li>- PowerCFGDiagnostic</li> <li>- PowerCPLDiagnostic</li> <li>- PrintSpoolerAuxAnalytic</li> <li>- PrintSpoolerCoreAnalytic</li> <li>- PrintSpoolerCoreDebug</li> <li>- QoSpacerDebug</li> <li>- ReliabilityAnalysisComponentmetrics</li> <li>- RPCDebug</li> <li>- RPCEInfo</li> <li>- Security</li> <li>- SenseDebug</li> <li>- SecurWUSADebug</li> <li>- ServerManagerAnalytic</li> <li>- ServerManagerOperational</li> <li>- ServiceReportingApiDebug</li> <li>- ServicesDiagnostic</li> <li>- Setup ShellAuthUIDiagnostic</li> <li>- ShellAuthUIShutdownDiagnostic</li> <li>- ShellDefaultprogramsDiagnostic</li> <li>- Shellshwebsvc</li> <li>- System TaskSchedulerDebug</li> <li>- TaskSchedulerDiagnostic</li> <li>- TerminalDevicesPnDevicesAdmin</li> <li>- TerminalDevicesPnDevicesAnalytic</li> <li>- UACDiagnostic</li> <li>- WinlogonOperational</li> <li>- WinRMAAnalytic</li> <li>- WMIActivityTrace</li> <li>- WUSADebug</li> </ul>

**Logs Gathered With Log.ini**

- General Windows Logs
  - %SYSTEMROOT%\ntbtlog.txt
  - %SYSTEMROOT%\setupapi.log
  - %SYSTEMROOT%\setuperr.log
  - %SYSTEMROOT%\setuplog.txt
- OMSA Configuration File
  - %DengPath%\ini\\*.ini
  - %DisneyPath%\ini\\*.ini
  - %DisneyPath%\log\\*.\*
  - %OMAPath%\ini\\*.ini
  - %SystemRoot%\dc\*.log
- OpenManage 3.x Installation Logs

Category	List
	<ul style="list-style-type: none"> <li>- %SystemDrive%\temp\ominstal.log</li> <li>- %SystemDrive%\temp\OMPROG</li> <li>- %SystemDrive%\temp\omstatus.log</li> <li>- %SystemDrive%\temp\DOMSA_SETUP.LOG</li> <li>- %SystemDrive%\temp\DOMSA_UNINSTALL.LOG</li> <li>- %SystemRoot%\ominstal.db</li> <li>- %SystemRoot%\*.oil</li> <li>- %SystemDrive%\temp\denginist.log</li> <li>- %SystemDrive%\temp\isvcinst.log</li> <li>- %SystemDrive%\temp\omclean.log</li> <li>- %SystemDrive%\temp\rac3.log</li> <li>• Dell Update Package Logs — %SystemDrive%\Dell\UpdatePackage\log\support\*.*</li> <li>• OpenManage Remote Install Logs <ul style="list-style-type: none"> <li>- %SystemDrive%\dell\openmanage\netstart\oem\jboss\log\server.log</li> <li>- %SystemDrive%\dell\openmanage\netstart\KickStart\KSDebug.txt</li> <li>- %SystemDrive%\dell\openmanage\netstart\ddhcp\ddhcp.log</li> <li>- %SystemDrive%\dell\openmanage\netstart\ddhcp\DDHCP.cfg</li> <li>- %SystemDrive%\dell\openmanage\netstart\StaticIP.txt</li> <li>- %OMmainPath%\ns\log\nsapi.log</li> </ul> </li> <li>• OpenManage 4.x Installation Logs <ul style="list-style-type: none"> <li>- %OMIpath%\MgmtST*.log</li> <li>- %OMIpath%\SysMgmt*.log</li> <li>- %OMIpath%\*prereq*.*</li> <li>- %OMIpath%\msdeinstall.log</li> </ul> </li> <li>• Dell Server Assistant CD Logs <ul style="list-style-type: none"> <li>- %SystemDrive%\summary.htm</li> <li>- %SystemDrive%\unattend.txt</li> <li>- %SystemDrive%\txtsetup.oem</li> <li>- %SystemDrive%\Replication\*.xml</li> </ul> </li> <li>• Array Manager Logs <ul style="list-style-type: none"> <li>- %AMpath%\VxSvc.log</li> <li>- %AMpath%\VxsvcAlert.Log</li> </ul> </li> <li>• Online Diagnostics Logs <ul style="list-style-type: none"> <li>- %SystemDrive%\dell\diagnostics\log\*.xml</li> <li>- %SystemDrive%\dell\diagnostics\log\*.log</li> </ul> </li> <li>• IT Assistant Configuration and Logs <ul style="list-style-type: none"> <li>- %ITasstPath%\configuration\dconfig.ini</li> </ul> </li> </ul>

Category	List
	<ul style="list-style-type: none"> <li>- %SystemDrive%\msde_*.log</li> <li>- %SystemDrive%\*.dcnetmon</li> <li>- %SystemDrive%\*.dcappserver</li> <li>- %SystemRoot%\SQLHotFix\*.*</li> <li>- %OMIpath%\Netfx.log</li> <li>- %OMIpath%\jsredistMSI.log</li> <li>- %OMIpath%\jsredistSetup.log</li> <li>- %SystemDrive%\temp\ITALog</li> <li>- %SystemDrive%\inetpub\mailroot\Queue\*.*</li> <li>- %SystemDrive%\inetpub\mailroot\Drop\*.*</li> <li>- %SystemDrive%\inetpub\mailroot\Pickup\*.*</li> <li>- %DSETPath%\bin\ita\SQLtables\*.txt</li> <li>- %ITasstPath%\bin\*.exception</li> <li>- %SystemDrive%\temp\ITA*.*</li> <li>- %ITasstPath%\ITA_discovery_details.txt</li> <li>- %SystemDrive%\*.connectionservice</li> </ul>
	<ul style="list-style-type: none"> <li>• Windows Cluster Logs <ul style="list-style-type: none"> <li>- %SYSTEMROOT%\cluster\*.log</li> <li>- %systemroot%\System32\Logfiles\Cluster\ClCfgSrv.log</li> <li>- %systemroot%\Cluster\ChkDsk*.*</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Dell System Update Utility Logs – %SystemDrive%\dell\suu\log\support*.*</li> </ul>
	<ul style="list-style-type: none"> <li>• NIC Teaming Configuration <ul style="list-style-type: none"> <li>- Intel</li> <li>- Broadcom Teaming Config</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• NAS <ul style="list-style-type: none"> <li>- %systemroot%\system32\*vds*.log</li> <li>- %systemroot%\system32\Storagemgmt_san.log</li> <li>- %systemroot%\system32\Storagemgmt.log</li> <li>- %systemroot%\DSIW.log</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• EMC <ul style="list-style-type: none"> <li>- %systemdrive%\programfiles\emc\symapi\log\EMCVDSHardwareProvider.log</li> <li>- %systemdrive%\programfiles\emc\symapi\log\Hwprov.log</li> <li>- %systemdrive%\programfiles\emc\symapi\log\symapi*.log</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• MDxxxx – SES log in MDxxxx EMM</li> </ul>