Dell OpenManage™ Server Administrator

Messages Reference Guide

Notes, Notices, and Cautions

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

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

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

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SECTION 1

Introduction

Dell OpenManage™ Server Administrator produces event messages stored primarily in operating system or Server Administrator event logs and sometimes in SNMP traps. This document describes the event messages created by Server Administrator version 1.1 or later.

Server Administrator creates events in response to sensor status changes and other monitored parameters. The Server Administrator event monitor uses these status change events to add descriptive messages to the event log.

Each event message that Server Administrator adds to the event log consists of a unique identifier called the event ID and a descriptive message. The event message includes the severity, cause of the event, and other relevant information, such as the event location and the monitored item's previous state.

Tables provided in this guide list all Server Administrator event IDs in numeric order. Each entry includes the event ID's corresponding description, severity level, and cause. Message text in angle brackets (for example, <State>) describes the event-specific information provided by the Server Administrator.

Understanding Event Messages

This section describes the various types of event messages generated by the Server Administrator. When an event occurs on your system, the Server Administrator sends information about one of the following event types to the systems management console:

- **Information** — An event that describes the successful operation of a unit, such as a power supply turning on or a sensor reading returning to normal.
- **Warning** — An event that is not necessarily significant, but may indicate a possible future problem, such as crossing a warning threshold.
- **Error** — A significant event that indicates actual or imminent loss of data or loss of function, such as crossing a failure threshold or a hardware failure.

The Server Administrator generates events based on status changes in the following sensors:

- **Temperature Sensor** — Helps protect critical components by alerting the systems management console when temperatures become too high inside a chassis; also monitors a variety of locations in the chassis and in any attached systems.
- **Fan Sensor** — Monitors fans in various locations in the chassis and in any attached systems.
- **Voltage Sensor** — Monitors voltages across critical components in various chassis locations and in any attached systems.

- **Current Sensor** — Monitors the current (or amperage) output from the power supply (or supplies) in the chassis and in any attached systems.
- **Chassis Intrusion Sensor** — Monitors intrusion into the chassis and any attached systems.
- **Redundancy Unit Sensor** — Monitors redundant units (critical units such as fans, AC power cords, or power supplies) within the chassis; also monitors the chassis and any attached systems. For example, redundancy allows a second or *n*th fan to keep the chassis components at a safe temperature when another fan has failed. Redundancy is normal when the intended number of critical components are operating. Redundancy is degraded when a component fails but others are still operating. Redundancy is lost when there is one less critical redundancy device than required.
- **Power Supply Sensor** — Monitors power supplies in the chassis and in any attached systems.
- **Memory Prefailure Sensor** — Monitors memory modules by counting the number of ECC memory corrections.
- **Fan Enclosure Sensor** — Monitors protective fan enclosures by detecting their removal from and insertion into the system, and by measuring how long a fan enclosure is absent from the chassis. This sensor monitors the chassis and any attached systems.
- **AC Power Cord Sensor** — Monitors the presence of AC power for an AC power cord.
- **Hardware Log Sensor** — Monitors the size of a hardware log.

Viewing Event Messages

An event log is used to record information about important events. You can view the event log using an event viewer. Each operating system's event viewer accesses the applicable operating system event log.

The location of the event log file depends on the operating system you are using.

- In the Microsoft® Windows NT® Server 4.0 Enterprise Edition, Windows® 2000 Advanced Server, and Microsoft Windows 64-bit Advanced Server operating systems, messages are logged to the system event log and to a unicode text file, **dcsys32.log** or **dcsys64.log** (viewable using Notepad), that is located in the *install_path***dell\openmanage\omsa\log** directory.

- In the Novell® NetWare® versions 5.*x* and 6.*x* operating systems, messages are logged to a text file, **DCSYS32.LOG**, (viewable using a unicode text editor from a client attached to the system), that is located in the **\system\dell\omanage\omsa\log** directory.
- In the Red Hat Linux version 7.*x* operating system, messages are logged to a text file named **/var/log/messages**. You can view the messages file using a text editor such as vi or emacs.

The following subsections explain how to open the Windows 2000, 64-bit Windows Advanced Server, Windows NT, NetWare, and Red Hat Linux event viewers.

Viewing Events in Windows 2000 and 64-Bit Windows Advanced Server

1. Click the **Start** button, point to **Settings**, and click **Control Panel**.
2. Double-click **Administrative Tools**, and then double-click **Event Viewer**.
3. In the **Event Viewer** window, click the **Tree** tab and then click **System Log**.

   The **System Log** window displays a list of recently logged events.
4. To view the details of an event, double-click one of the event items.

NOTE: You can also review the separate event log file by editing the dcsys32.log or the dcsys64.log file in the *install_path*\dell\openmanage\omsa\log directory.

Viewing Events in Windows NT

1. Click the **Start** button, point to **Programs→ Administrative Tools (Common)**, and then click **Event Viewer**.
2. In the **Event Viewer** window, click the **Log** menu item and then click **System**.

   The **Event Viewer - System Log** window displays a list of recent events.
3. To view the details of an event, double-click one of the event items.

NOTE: You can also review the separate event log file by editing the dcsys32.log file in the *install_path*\dell\openmanage\omsa\log directory.

Viewing Events in NetWare

1. Using a Windows system, map a drive to the *nwserver***sys** directory, where *nwserver* is the name of your NetWare system.

2 From the mapped drive, locate the **DCSYS32.LOG** file in the **\system\dell\omanage\omsa\log** directory.

3 View the **DCSYS32.LOG** file with Notepad or any other unicode-capable text editor.

Viewing Events in Red Hat Linux

1 Log in as **root**.

2 Use a text editor such as vi or emacs to view the file named **/var/log/messages**.

The following example shows the Linux message log, **/var/log/messages**. The text in boldface type indicates the message text.

NOTE: These messages are typically displayed as one long line. In the following example, the message is displayed using line breaks to help you see the message text more clearly.

```
...
Feb 6 14:20:51 server01 Server Administrator: EventID: 1000
Server Administrator starting

Feb 6 14:20:51 server01 Server Administrator: EventID: 1001
Server Administrator startup complete

Feb 6 14:21:21 server01 Server Administrator: EventID: 1254
Chassis intrusion detected Sensor location: Main chassis
intrusion Chassis location: Main System Chassis Previous state
was: OK (Normal) Chassis intrusion state: Open

Feb 6 14:21:51 server01 Server Administrator: EventID: 1252
Chassis intrusion returned to normal Sensor location: Main
chassis intrusion Chassis location: Main System Chassis
Previous state was: Critical (Failed) Chassis intrusion state:
Closed
```

Viewing the Event Information

The event log for each operating system contains some or all of the following information:

- **Date** — The date the event occurred.
- **Time** — The local time the event occurred.
- **Type** — A classification of the event severity: Information, Warning, or Error.
- **User** — The name of the user on whose behalf the event occurred.

- **Computer** — The name of the system where the event occurred.
- **Source** — The software that logged the event.
- **Category** — The classification of the event by the event source.
- **Event ID** — The number identifying the particular event type.
- **Description** — A description of the event. The format and contents of the event description vary, depending on the event type.

Understanding the Event Description

Table 1-1 lists in alphabetical order each line item that may appear in the event description.

Table 1-1. Event Description Reference

Description Line Item	Explanation
`<Additional power supply status information>`	Specifies information pertaining to the event, for example: `Power supply input AC is off, Power supply POK (power OK) signal is not normal, Power supply is turned off`
`Chassis intrusion state: <Intrusion state>`	Specifies the chassis intrusion state (open or closed), for example: `Chassis intrusion state: Open`
`Chassis location: <Name of chassis>`	Specifies name of the system that generated the message, for example: `Chassis location: Main System Chassis`
`Current sensor value: <Reading>`	Specifies the current sensor value in amps, for example: `Current sensor value: 7.853`
`Fan sensor value: <Reading>`	Specifies the fan speed in revolutions per minute (RPMs), for example: `Fan sensor value: 2600`
`Log type: <Log type>`	Specifies the type of hardware log, for example: `Log type: ESM`
`Memory device bank location: <Bank name in chassis>`	Specifies the name of the memory bank in the system that generated the message, for example: `Memory device bank location: Bank_1`

Table 1-1. Event Description Reference *(continued)*

Description Line Item	Explanation
`Memory device location: <Device name in chassis>`	Specifies the location of the memory module in the chassis, for example: `Memory device location: DIMM_A`
`Number of devices required for full redundancy: <Number>`	Specifies the number of power supply or cooling devices required to achieve full redundancy, for example: `Number of devices required for full redundancy: 4`
`Pre-failure sensor error count value: <Count>`	Specifies the memory sensor error count value, for example: `Pre-failure sensor error count value:5`
`Pre-failure state was: <State>`	Specifies the status of the previous memory message, for example: `Pre-failure state was: Failed`
`Previous redundancy state was: <State>`	Specifies the status of the previous redundancy message, for example: `Previous redundancy state was: Lost`
`Previous state was: <State>`	Specifies the previous state of the system, for example: `Previous state was: OK (Normal)`
`Redundancy unit: <Redundancy location in chassis>`	Specifies the location of the redundant power supply or cooling unit in the chassis, for example: `Redundancy unit: Fan Enclosure`
`Sensor location: <Location in chassis>`	Specifies the location of the sensor in the specified chassis, for example: `Sensor location: CPU1`
`Temperature sensor value: <Reading>`	Specifies the temperature in degrees Celsius, for example: `Temperature sensor value (in degrees Celsius): 30`
`Voltage sensor value: <Reading>`	Specifies the voltage sensor value in volts, for example: `Voltage sensor value: 1.693`

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SECTION 2

Event Message Reference

The following tables list in numeric order each event ID and its corresponding description, along with its severity and cause.

NOTE: For corrective actions, see the appropriate documentation.

Miscellaneous Messages

Miscellaneous messages in Table 2-1 indicate that certain alert systems are up and working.

Table 2-1. Miscellaneous Messages

Event ID	Description	Severity	Cause
0000	Log was cleared	Information	User cleared the log from Server Administrator.
0001	Log backup created	Information	The log was full, copied to backup, and cleared.
1000	Server Administrator starting	Information	Server Administrator is beginning to initialize.
1001	Server Administrator startup complete	Information	Server Administrator completed its initialization.
1002	A system BIOS update has been scheduled for the next reboot	Information	The user has chosen to update the flash basic input/output system (BIOS).
1003	A previously scheduled system BIOS update has been canceled	Information	The user decides to cancel the flash BIOS update, or an error occurs during the flash.
1004	Thermal shutdown protection has been initiated	Error	This message is generated when a system is configured for thermal shutdown due to an error event. If a temperature sensor reading exceeds the error threshold for which the system is configured, the operating system shuts down and the system powers off. This event may also be initiated on certain systems when a fan enclosure is removed from the system for an extended period of time.

Table 2-1. Miscellaneous Messages *(continued)*

Event ID	Description	Severity	Cause
1005	SMBIOS data is absent	Warning	The system management BIOS does not contain a valid system management BIOS version 2.2 or higher, or the BIOS is corrupted.

Temperature Sensor Messages

Temperature sensors listed in Table 2-2 help protect critical components by alerting the systems management console when temperatures become too high inside a chassis. The temperature sensor messages use additional variables: sensor location, chassis location, previous state, and temperature sensor value reported in degrees Celsius.

Table 2-2. Temperature Sensor Messages

Event ID	Description	Severity	Cause
1050	Temperature sensor has failed Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Temperature sensor value (in degrees Celsius): <Reading>	Information	A temperature sensor on the backplane board, system board, or the carrier in the specified system failed. The sensor location, chassis location, previous state, and temperature sensor value are provided.
1051	Temperature sensor value unknown Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Temperature sensor value (in degrees Celsius): <Reading>	Information	A temperature sensor on the backplane board, system board, or drive carrier in the specified system could not obtain a reading. The sensor location, chassis location, previous state, and a nominal temperature sensor value are provided.

Table 2-2. Temperature Sensor Messages *(continued)*

Event ID	Description	Severity	Cause
1052	Temperature sensor returned to a normal value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Temperature sensor value (in degrees Celsius): <Reading>	Information	A temperature sensor on the backplane board, system board, or drive carrier in the specified system returned to a valid range after crossing a failure threshold. The sensor location, chassis location, previous state, and temperature sensor value are provided.
1053	Temperature sensor detected a warning value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Temperature sensor value (in degrees Celsius): <Reading>	Warning	A temperature sensor on the backplane board, system board, or drive carrier in the specified system exceeded its warning threshold. The sensor location, chassis location, previous state, and temperature sensor value are provided.
1054	Temperature sensor detected a failure value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Temperature sensor value (in degrees Celsius): <Reading>	Error	A temperature sensor on the backplane board, system board, or drive carrier in the specified system exceeded its failure threshold. The sensor location, chassis location, previous state, and temperature sensor value are provided.

Table 2-2. Temperature Sensor Messages *(continued)*

Event ID	Description	Severity	Cause
1055	Temperature sensor detected a non-recoverable value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Temperature sensor value (in degrees Celsius): <Reading>	Error	A temperature sensor on the backplane board, system board, or drive carrier in the specified system detected an error from which it cannot recover. The sensor location, chassis location, previous state, and temperature sensor value are provided.

Cooling Device Messages

Cooling device sensors listed in Table 2-3 monitor how well a fan is functioning. Cooling device messages provide status and warning information for fans in a particular chassis.

Table 2-3. Cooling Device Messages

Event ID	Description	Severity	Cause
1100	Fan sensor has failed Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Fan sensor value: <Reading>	Information	A fan sensor in the specified system detected a failure of one or more fans. The sensor location, chassis location, previous state, and fan sensor value are provided.
1101	Fan sensor value unknown Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Fan sensor value: <Reading>	Information	A fan sensor in the specified system could not obtain a reading. The sensor location, chassis location, previous state, and a nominal fan sensor value are provided.

Table 2-3. Cooling Device Messages *(continued)*

Event ID	Description	Severity	Cause
1102	Fan sensor returned to a normal value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Fan sensor value: <Reading>	Information	A fan sensor reading on the specified system returned to a valid range after crossing a warning threshold. The sensor location, chassis location, previous state, and fan sensor value are provided.
1103	Fan sensor detected a warning value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Fan sensor value: <Reading>	Warning	A fan sensor reading in the specified system exceeded a warning threshold. The sensor location, chassis location, previous state, and fan sensor value are provided.
1104	Fan sensor detected a failure value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Fan sensor value: <Reading>	Error	A fan sensor in the specified system detected the failure of one or more fans. The sensor location, chassis location, previous state, and fan sensor value are provided.
1105	Fan sensor detected a non-recoverable value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Fan sensor value: <Reading>	Error	A fan sensor detected an error from which it cannot recover. The sensor location, chassis location, previous state, and fan sensor value are provided.

Voltage Sensor Messages

Voltage sensors listed in Table 2-4 monitor the number of volts across critical components. Voltage sensor messages provide status and warning information for voltage sensors in a particular chassis.

Table 2-4. Voltage Sensor Messages

Event ID	Description	Severity	Cause

1150	`Voltage sensor has failed`
	`Sensor location: <Location in chassis>`
	`Chassis location: <Name of chassis>`
	`Previous state was: <State>`
	`Voltage sensor value: <Reading>`
		Information	A voltage sensor in the specified system failed. The sensor location, chassis location, previous state, and voltage sensor value are provided.

1151	`Voltage sensor value unknown`
	`Sensor location: <Location in chassis>`
	`Chassis location: <Name of chassis>`
	`Previous state was: <State>`
	`Voltage sensor value: <Reading>`
		Information	A voltage sensor in the specified system could not obtain a reading. The sensor location, chassis location, previous state, and a nominal voltage sensor value are provided.

1152	`Voltage sensor returned to a normal value`
	`Sensor location: <Location in chassis>`
	`Chassis location: <Name of chassis>`
	`Previous state was: <State>`
	`Voltage sensor value: <Reading>`
		Information	A voltage sensor in the specified system returned to a valid range after crossing a failure threshold. The sensor location, chassis location, previous state, and voltage sensor value are provided.

Table 2-4. Voltage Sensor Messages *(continued)*

Event ID	Description	Severity	Cause
1153	Voltage sensor detected a warning value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Voltage sensor value: <Reading>	Warning	A voltage sensor in the specified system exceeded its warning threshold. The sensor location, chassis location, previous state, and voltage sensor value are provided.
1154	Voltage sensor detected a failure value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Voltage sensor value: <Reading>	Error	A voltage sensor in the specified system exceeded its failure threshold. The sensor location, chassis location, previous state, and voltage sensor value are provided.
1155	Voltage sensor detected a non-recoverable value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Voltage sensor value: <Reading>	Error	A voltage sensor in the specified system detected an error from which it cannot recover. The sensor location, chassis location, previous state, and voltage sensor value are provided.

Current Sensor Messages

Current sensors listed in Table 2-5 measure the amount of current (in amperes) that is traversing critical components. Current sensor messages provide status and warning information for current sensors in a particular chassis.

Table 2-5. Current Sensor Messages

Event ID	Description	Severity	Cause
1200	Current sensor has failed Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Current sensor value: <Reading>	Information	A current sensor on the power supply for the specified system failed. The sensor location, chassis location, previous state, and current sensor value are provided.
1201	Current sensor value unknown Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Current sensor value: <Reading>	Information	A current sensor on the power supply for the specified system could not obtain a reading. The sensor location, chassis location, previous state, and a nominal current sensor value are provided.
1202	Current sensor returned to a normal value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Current sensor value: <Reading>	Information	A current sensor on the power supply for the specified system returned to a valid range after crossing a failure threshold. The sensor location, chassis location, previous state, and current sensor value are provided.

Table 2-5. Current Sensor Messages *(continued)*

Event ID	Description	Severity	Cause
1203	Current sensor detected a warning value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Current sensor value: <Reading>	Warning	A current sensor on the power supply for the specified system exceeded its warning threshold. The sensor location, chassis location, previous state, and current sensor value are provided.
1204	Current sensor detected a failure value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Current sensor value: <Reading>	Error	A current sensor on the power supply for the specified system exceeded its failure threshold. The sensor location, chassis location, previous state, and current sensor value are provided.
1205	Current sensor detected a non-recoverable value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Current sensor value: <Reading>	Error	A current sensor in the specified system detected an error from which it cannot recover. The sensor location, chassis location, previous state, and current sensor value are provided.

Chassis Intrusion Messages

Chassis intrusion messages listed in Table 2-6 are a security measure. Chassis intrusion means that someone is opening the cover to a system's chassis. Alerts are sent to prevent unauthorized removal of parts from a chassis.

Table 2-6. Chassis Intrusion Messages

Event ID	Description	Severity	Cause
1250	Chassis intrusion sensor has failed Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Chassis intrusion state: <Intrusion state>	Information	A chassis intrusion sensor in the specified system failed. The sensor location, chassis location, previous state, and chassis intrusion state are provided.
1251	Chassis intrusion sensor value unknown Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Chassis intrusion state: <Intrusion state>	Information	A chassis intrusion sensor in the specified system could not obtain a reading. The sensor location, chassis location, previous state, and chassis intrusion state are provided.
1252	Chassis intrusion returned to normal Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Chassis intrusion state: <Intrusion state>	Information	A chassis intrusion sensor in the specified system detected that a cover was opened while the system was operating but has since been replaced. The sensor location, chassis location, previous state, and chassis intrusion state are provided.

Table 2-6. Chassis Intrusion Messages *(continued)*

Event ID	Description	Severity	Cause
1253	Chassis intrusion in progress Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Chassis intrusion state: <Intrusion state>	Warning	A chassis intrusion sensor in the specified system detected that a system cover is currently being opened and the system is operating. The sensor location, chassis location, previous state, and chassis intrusion state are provided.
1254	Chassis intrusion detected Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Chassis intrusion state: <Intrusion state>	Error	A chassis intrusion sensor in the specified system detected that the system cover was opened while the system was operating. The sensor location, chassis location, previous state, and chassis intrusion state are provided.
1255	Chassis intrusion sensor detected a non-recoverable value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> Chassis intrusion state: <Intrusion state>	Error	A chassis intrusion sensor in the specified system detected an error from which it cannot recover. The sensor location, chassis location, previous state, and chassis intrusion state are provided.

Redundancy Unit Messages

Redundancy means that a system chassis has more than one of certain critical components. Fans and power supplies, for example, are so important for preventing damage or disruption of a computer system that a chassis may have "extra" fans or power supplies installed. Redundancy allows a second or *n*th fan to keep the chassis components at a safe temperature when the primary fan has failed. Redundancy is normal when the intended number of critical components are operating. Redundancy is degraded when a component fails but others are still operating. Redundancy is lost when the number of components functioning falls below the redundancy threshold. Table 2-7 lists the redundancy unit messages.

Table 2-7. Redundancy Unit Messages

Event ID	Description	Severity	Cause

1300	`Redundancy sensor has failed`
	`Redundancy unit: <Redundancy location in chassis>`
	`Chassis location: <Name of chassis>`
	`Previous redundancy state was: <State>`
	`Number of devices required for full redundancy: <Number>`
		Information	A redundancy sensor in the specified system failed. The redundancy unit location, chassis location, previous redundancy state, and the number of devices required for full redundancy are provided.

1301	`Redundancy sensor value unknown`
	`Redundancy unit: <Redundancy location in chassis>`
	`Chassis location: <Name of chassis>`
	`Previous redundancy state was: <State>`
	`Number of devices required for full redundancy: <Number>`
		Information	A redundancy sensor in the specified system could not obtain a reading. The redundancy unit location, chassis location, previous redundancy state, and the number of devices required for full redundancy are provided.

Table 2-7. Redundancy Unit Messages *(continued)*

Event ID	Description	Severity	Cause
1302	Redundancy not applicable Redundancy unit: <Redundancy location in chassis> Chassis location: <Name of chassis> Previous redundancy state was: <State> Number of devices required for full redundancy: <Number>	Information	A redundancy sensor in the specified system detected that a unit was not redundant. The redundancy location, chassis location, previous redundancy state, and the number of devices required for full redundancy are provided.
1303	Redundancy is offline Redundancy unit: <Redundancy location in chassis> Chassis location: <Name of chassis> Previous redundancy state was: <State> Number of devices required for full redundancy: <Number>	Information	A redundancy sensor in the specified system detected that a redundant unit is offline. The redundancy unit location, chassis location, previous redundancy state, and the number of devices required for full redundancy are provided.
1304	Redundancy regained Redundancy unit: <Redundancy location in chassis> Chassis location: <Name of chassis> Previous redundancy state was: <State> Number of devices required for full redundancy: <Number>	Information	A redundancy sensor in the specified system detected that a "lost" redundancy device has been reconnected or replaced; full redundancy is in effect. The redundancy unit location, chassis location, previous redundancy state, and the number of devices required for full redundancy are provided.

Table 2-7. Redundancy Unit Messages *(continued)*

Event ID	Description	Severity	Cause

1305	`Redundancy degraded`
	`Redundancy unit: <Redundancy location in chassis>`
	`Chassis location: <Name of chassis>`
	`Previous redundancy state was: <State>`
	`Number of devices required for full redundancy: <Number>`
		Warning	A redundancy sensor in the specified system detected that one of the components of the redundancy unit has failed but the unit is still redundant. The redundancy unit location, chassis location, previous redundancy state, and the number of devices required for full redundancy are provided.

1306	`Redundancy lost`
	`Redundancy unit: <Redundancy location in chassis>`
	`Chassis location: <Name of chassis>`
	`Previous redundancy state was: <State>`
	`Number of devices required for full redundancy: <Number>`
		Warning or Error (depending on the number of units that are functional)	A redundancy sensor in the specified system detected that one of the components in the redundant unit has been disconnected, has failed, or is not present. The redundancy unit location, chassis location, previous redundancy state, and the number of devices required for full redundancy are provided.

Power Supply Messages

Power supply sensors monitor how well a power supply is functioning. Power supply messages listed in Table 2-8 provide status and warning information for power supplies present in a particular chassis.

Table 2-8. Power Supply Messages

Event ID	Description	Severity	Cause
1350	Power supply sensor has failed Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> <Additional power supply status information>	Information	A power supply sensor in the specified system failed. The sensor location, chassis location, previous state, and additional power supply status information are provided.
1351	Power supply sensor value unknown Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> <Additional power supply status information>	Information	A power supply sensor in the specified system could not obtain a reading. The sensor location, chassis location, previous state, and additional power supply status information are provided.
1352	Power supply returned to normal Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> <Additional power supply status information>	Information	A power supply has been reconnected or replaced. The sensor location, chassis location, previous state, and additional power supply status information are provided.

Table 2-8. Power Supply Messages *(continued)*

Event ID	Description	Severity	Cause
1353	Power supply detected a warning Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> <Additional power supply status information>	Warning	A power supply sensor reading in the specified system exceeded a user-definable warning threshold. The sensor location, chassis location, previous state, and additional power supply status information are provided.
1354	Power supply detected a failure Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> <Additional power supply status information>	Error	A power supply has been disconnected or has failed. The sensor location, chassis location, previous state, and additional power supply status information are provided.
1355	Power supply sensor detected a non-recoverable value Sensor location: <Location in chassis> Chassis location: <Name of chassis> Previous state was: <State> <Additional power supply status information>	Error	A power supply sensor in the specified system detected an error from which it cannot recover. The sensor location, chassis location, previous state, and additional power supply status information are provided.

Memory Device Messages

Memory device messages listed in Table 2-9 provide status and warning information for memory modules present in a particular system. Memory devices determine health status by counting the number of ECC memory corrections.

NOTE: A value of `failure` or `non-recoverable` does not indicate a system failure or loss of data, but rather that the specified system exceeded the specified ECC correction threshold. Although the system continues to function, you should perform system maintenance as described in Table 2-9.

Table 2-9. Memory Device Messages

Event ID	Description	Severity	Cause
1400	Memory device monitoring has been disabled Memory device location: <Device name in chassis> Memory device bank location: <Bank name in chassis> Chassis location: <Name of chassis> Previous state was: <State> Pre-failure sensor error count value: <Count>	Information	The monitoring of the memory device is disabled. The memory device location, memory device bank location, chassis location, previous state, and the ECC correction count value are provided.
1401	Memory device status is unknown Memory device location: <Device name in chassis> Memory device bank location: <Bank name in chassis> Chassis location: <Name of chassis> Previous state was: <State> Pre-failure sensor error count value: <Count>	Information	The health of the memory device cannot be determined. The memory device location, memory device bank location, chassis location, previous state, and an ECC correction count value are provided.
1402	Memory device ECC correction count returned to a normal value Memory device location: <Device name in chassis> Memory device bank location: <Bank name in chassis> Chassis location: <Name of chassis> Previous state was: <State> Pre-failure sensor error count value: <Count>	Information	The memory device correction count for the specified system returned to a valid range after crossing a failure threshold. The memory device location, memory device bank location, chassis location, previous state, and the ECC correction count value are provided.

Table 2-9. Memory Device Messages *(continued)*

Event ID	Description	Severity	Cause
1403	Memory device ECC correction count crossed a warning threshold Memory device location: <Device name in chassis> Memory device bank location: <Bank name in chassis> Chassis location: <Name of chassis> Previous state was: <State> Pre-failure sensor error count value: <Count>	Warning	A memory device correction count for the specified system exceeded its warning threshold. The memory device location, memory device bank location, chassis location, previous state, and the ECC correction count value are provided.
1404	Memory device ECC correction count crossed a failure threshold Memory device location: <Device name in chassis> Memory device bank location: <Bank name in chassis> Chassis location: <Name of chassis> Previous state was: <State> Pre-failure sensor error count value: <Count>	Error	A memory device correction count exceeded its failure threshold. The system continues to function normally, but the memory module identified in the message should be replaced during the system's next scheduled maintenance. The memory device location, memory device bank location, chassis location, previous state, and the ECC correction count value are provided.

Table 2-9. Memory Device Messages *(continued)*

Event ID	Description	Severity	Cause
1405	Memory device ECC correction count crossed a non-recoverable threshold Memory device location: <Device name in chassis> Memory device bank location: <Bank name in chassis> Chassis location: <Name of chassis> Previous state was: <State> Pre-failure sensor error count value: <Count>	Error	A memory device correction count in the specified system exceeded its non-recoverable threshold. The system continues to function, but system maintenance should be scheduled to replace the memory module identified in the message. The memory device location, memory device bank location, chassis location, previous state, and the ECC correction count are provided.

Fan Enclosure Messages

Some systems are equipped with a protective enclosure for fans. Fan enclosure messages listed in Table 2-10 monitor whether foreign objects are present in an enclosure and how long a fan enclosure is missing from a chassis.

Table 2-10. Fan Enclosure Messages

Event ID	Description	Severity	Cause
1450	Fan enclosure sensor has failed Sensor location: <Location in chassis> Chassis location: <Name of chassis>	Information	The fan enclosure sensor in the specified system failed. The sensor location and chassis location are provided.

Table 2-10. Fan Enclosure Messages *(continued)*

Event ID	Description	Severity	Cause
1451	Fan enclosure sensor value unknown Sensor location: <Location in chassis> Chassis location: <Name of chassis>	Information	The fan enclosure sensor in the specified system could not obtain a reading. The sensor location and chassis location are provided.
1452	Fan enclosure inserted into system Sensor location: <Location in chassis> Chassis location: <Name of chassis>	Information	A fan enclosure has been inserted into the specified system. The sensor location and chassis location are provided.
1453	Fan enclosure removed from system Sensor location: <Location in chassis> Chassis location: <Name of chassis>	Warning	A fan enclosure has been removed from the specified system. The sensor location and chassis location are provided.
1454	Fan enclosure removed from system for an extended amount of time Sensor location: <Location in chassis> Chassis location: <Name of chassis>	Error	A fan enclosure has been removed from the specified system for a user-definable length of time. The sensor location and chassis location are provided.
1455	Fan enclosure sensor detected a non-recoverable value Sensor location: <Location in chassis> Chassis location: <Name of chassis>	Error	A fan enclosure sensor in the specified system detected an error from which it cannot recover. The sensor location and chassis location are provided.

AC Power Cord Messages

AC power cord messages listed in Table 2-11 provide status and warning information for power cords that are part of an AC power switch, if your system supports AC switching.

Table 2-11. AC Power Cord Messages

Event ID	Description	Severity	Cause
1500	AC power cord sensor has failed Sensor location: <Location in chassis> Chassis location: <Name of chassis>	Information	An AC power cord sensor in the specified system failed. The AC power cord status cannot be monitored. The sensor location and chassis location information are provided.
1501	AC power cord is not being monitored Sensor location: <Location in chassis> Chassis location: <Name of chassis>	Information	The AC power cord status is not being monitored. This occurs when a system's expected AC power configuration is set to **nonredundant**. The sensor location and chassis location information are provided.
1502	AC power has been restored Sensor location: <Location in chassis> Chassis location: <Name of chassis>	Information	An AC power cord that did not have AC power has had the power restored. The sensor location and chassis location information are provided.
1503	AC power has been lost Sensor location: <Location in chassis> Chassis location: <Name of chassis>	Warning	An AC power cord has lost its power. The sensor location and chassis location information are provided.
1504	AC power has been lost Sensor location: <Location in chassis> Chassis location: <Name of chassis>	Error	An AC power cord has lost its power. The sensor location and chassis location information are provided.

Table 2-11. AC Power Cord Messages *(continued)*

Event ID	Description	Severity	Cause
1505	AC power has been lost Sensor location: <Location in chassis> Chassis location: <Name of chassis>	Error	An AC power cord sensor in the specified system failed. The AC Power cord status cannot be monitored. The sensor location and chassis location information are provided.

Hardware Log Sensor Messages

Hardware logs provide hardware status messages to systems management software. On certain systems, the hardware log is implemented as a circular queue. When the log becomes full, the oldest status messages are overwritten when new status messages are logged. On some systems, the log is not circular. On these systems, when the log becomes full, subsequent hardware status messages are lost. Hardware log sensor messages listed in Table 2-12 provide status and warning information about the noncircular logs that may fill up, resulting in lost status messages.

Table 2-12. Hardware Log Sensor Messages

Event ID	Description	Severity	Cause
1550	Log monitoring has been disabled Log type: <Log type>	Information	A hardware log sensor in the specified system is disabled. The log type information is provided.
1551	Log status is unknown Log type: <Log type>	Information	A hardware log sensor in the specified system could not obtain a reading. The log type information is provided.
1552	Log size is no longer near or at capacity Log type: <Log type>	Information	The hardware log on the specified system is no longer near or at its capacity, usually as the result of clearing the log. The log type information is provided.

Table 2-12. Hardware Log Sensor Messages *(continued)*

Event ID	Description	Severity	Cause
1553	Log size is near or at capacity Log type: <Log type>	Warning	The size of a hardware log on the specified system is near or at the capacity of the hardware log. The log type information is provided.
1554	Log size is near or at capacity Log type: <Log type>	Error	The size of a hardware log on the specified system is near or at the capacity of the hardware log. The log type information is provided.
1555	Log size is near or at capacity Log type: <Log type>	Error	A hardware log sensor in the specified system failed. The hardware log status cannot be monitored. The log type information is provided.

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