# Dell™ OpenManage™ Server Administrator Version 6.0.1

## **SNMP** Reference Guide

## **Notes and Cautions**



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



CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.

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## Introduction

This introduction is divided into two sections. The first section, "Introduction to the SNMP Reference Guide," explains the SNMP Reference Guide design. All essential Simple Network Management Protocol (SNMP) terms are defined in this section. Some of the vocabulary may seem complex and unfamiliar to system administrators who are using SNMP for the first time. SNMP experts can skim this section, and beginners can read the section more carefully.

The second section, "Introduction to the Server Administrator SNMP Subagent," is a more technical introduction to the management information base (MIB) that underlies Server Administrator services.

#### **Audience**

This guide is intended for system administrators, network administrators, and anyone who wants to write SNMP MIB applications to monitor systems.

## What's New in this Release

This section lists the SNMP versions supported and changes to the Server Administrator MIBs in this release.

## **Supported SNMP Versions**

Operating Supported SNMP version

. System

Windows SNMP v1 and v2c

Linux SNMP v1, v2c and v3

## What's New in the Slot Group

Added the following values to DellSystemSlotType enumeration:

- systemSlotIsPCIExpressX1(166)
- systemSlotIsPCIExpressX2(167)
- systemSlotIsPCIExpressX4(168)
- systemSlotIsPCIExpressX8(169)
- systemSlotIsPCIExpressX16(170)

## What's New in the Device Group

Added the new Managed System Services Device Table to the Device Group with the following MIB objects:

- Managed System Services Device Table
- Managed System Services Device Table Entry
- Managed System Services Device Chassis Index
- Managed System Services Device Index
- Managed System Services Device Status
- Managed System Services Device Type
- Managed System Services Device Storage Present
- Managed System Services Device Storage Size

## What's New in Miscellaneous Traps

Added the following trap:

• System Peak Power New Peak

## What's New in the Memory Device Type

Added the following value to DellMemoryDeviceType enumeration:

• deviceTypeIsDDR3(24)

Added the following values to DellMemoryDeviceTypeDetails enumeration:

- deviceTypeDetailIsRegistered(13)
- deviceTypeDetailIsNonRegistered(14)

## What's New in the Processor family

Added the following values to DellProcessorDeviceFamily enumeration:

- deviceFamilyIsIntelCoreSolo (189)
- deviceFamilyIsIntelCore2(190)
- deviceFamilyIsESA390G6(203)
- deviceFamilyIszArchitectur(204)
- deviceFamilyIsVIAC7-M(210)
- deviceFamilyIsVIAC7-D(211)
- deviceFamilyIsVIAC7(212)
- deviceFamilyIsVIAEden(213)

## What's New in the Device Group

Added the following MIB objects:

- BMC IPv4 URL Name
- BMC IPv6 URL Name

## What's New in the Storage Management Group

Added the following table:

Array Disk Media Type

## What's New in the Baseboard Management Controller Group

Added the following values to DellManagementControllerType enumeration:

- iDRAC6(10)
- iDRAC6Modular(11)
- iDRAC6BMC(13)

## **Introduction to the SNMP Reference Guide**

This reference guide provides a formatted version of the Server Administrator Instrumentation MIB (filename 10892.mib), the Server Administrator Remote Access MIB (filename dcs3rmt.mib), the Server Administrator Field Replaceable Unit MIB (filename dcs3fru.mib), the Server Administrator Storage Management MIB (filename dcstorag.mib), the Server Administrator Change Management MIB (filename dellcm.mib) and the Dell RAC Out-of-Band MIB (filename dellRAC.mib) that are released with the current version of Dell™ OpenManage™ Server Administrator.

Sections in this guide follow MIB groups and provide explanations and definitions for the terms used to define MIB objects. Content in this reference guide is organized as documented in the following subsections.

#### **General Content**

Table 1-1 describes the sections that provide general information about the MIBs documented in this guide.

Table 1-1. General Content Sections in This Guide

Section	Topics	MIB Group Number
1	Introduction to SNMP basics and to the MIBs that support Server Administrator services	NA
26	Traps — describes in-band traps defined in the Server Administrator Instrumentation MIB and out-of-band traps sent by the Remote Access Controller (RAC) and Baseboard Management Controller (BMC).	5000
Appendix A	Standard Data Type Definitions — defines standard data types used in this reference guide.	NA
Appendix B	SNMP Sample Output — provides a sample SNMP output.	NA
Glossary	Defines acronyms, abbreviations, and technical terms used in this reference guide.	NA

#### **Server Administrator Instrumentation MIB**

The Server Administrator Instrumentation MIB (filename 10892.mib) provides instrumentation data that allows you to monitor the health of a system with SNMP management applications. It provides:

- Information about the status of temperatures, power supplies, voltages, currents, fans, and memory at key points in the system
- Rapid access to detailed fault and performance information gathered by industry standard systems management agents
- Version information for Basic Input/Output System (BIOS), firmware, and operating system
- A detailed account of every cost of ownership (COO) detail about your system In addition, traps are sent to report a change in status of the health of critical components.

The Server Administrator Instrumentation MIB structures its MIB objects into groups of scalar objects or MIB tables that provide related information. Table 1-2 describes each Server Administrator Instrumentation MIB group and lists the MIB group number assigned to the MIB group. The Server Administrator Instrumentation MIB groups are identified by the SNMP OID 1.3.6.1.4.1.674.10892.1. < MIB group number >, where < MIB group number > is the MIB group number assigned to the MIB group. See the relevant section for more information about the MIB objects defined in a MIB group.

Table 1-2. Server Administrator Instrumentation MIB Sections in This Guide

Section	Topics	MIB Group Numbers
2	Instrumentation MIB Version Group — defines version numbers of the Instrumentation MIB	1
3	Systems Management Software Group — defines information about the systems management software and the supported systems management standards	100
4	System State Group — defines status, state, and redundancy for a system and its components	200

Table 1-2. Server Administrator Instrumentation MIB Sections in This Guide *(continued)* 

Section	Topics	MIB Group Numbers
5	Chassis Information Group — defines chassis types, events, and indicators	300
6	Operating System Group — defines variables for name, version, service pack, and other information about a system's operating system	400
7	System Resource Group — defines variables for input/output ports, memory, interrupts, and direct memory access	500
8	Power Group — defines variables for power units, power supplies, and their current and voltage probes	600
9	Thermal Group — defines variables for temperature probes and cooling devices	700
10	User Security Group — defines variables for creating and modifying user accounts	800
11	Remote Flash BIOS Group — defines variables for updating the system's BIOS remotely	900
12	Port Group — defines variables for major port types such as keyboard, monitor, small computer system interface (SCSI), Universal Serial Bus (USB), and parallel and serial ports	1000
13	Device Group — defines variables for pointing, keyboard,processor, cache, memory, and personal computer interface devices	1100
14	Slot Group — defines variables for the system's slots	1200
15	Memory Group — defines variables for the system's physical memory	1300
16	BIOS Setup Control Group — defines variables for BIOS functions such as boot sequence, speakers, Wake on the local area network (LAN), diskettes, ports, and network interface controllers (NIC)	1400

Table 1-2. Server Administrator Instrumentation MIB Sections in This Guide (continued)

Section	Topics	MIB Group Numbers
17	Local Response Agent Group — defines variables for global settings and actions. These variables allow users to predetermine how the system responds to a particular type of event	1500
18	Cost of Ownership Group — defines variables for tracking data on the system's service contract, lease, repair records, trouble tickets, and so on	1600
20	Cluster Group — defines variables for systems that operate as a cluster	1800
21	Baseboard Management Controller Group — provides information about the Baseboard Management Controller (BMC) that may be present in your system. In addition to providing general information about the BMC, this group provides information about the serial and local area network (LAN) interfaces of the BMC	1900
26	Traps — defines the types of alerts that can be sent to report the status of critical components	5000

#### **Server Administrator Remote Access MIB**

The Server Administrator Remote Access MIB (filename dcs3rmt.mib) provides in-band information about remote access hardware that may be present in your system.

The Server Administrator Remote Access MIB structures its MIB objects into groups of scalar objects or MIB tables that provide related information. Table 1-3 describes each Server Administrator Remote Access MIB group and lists the MIB group number assigned to the MIB group. The Server Administrator Remote Access MIB groups are identified by the SNMP OID 1.3.6.1.4.1.674.10892.1. < MIB group number > where < MIB group number > is the MIB group number assigned to the MIB group. See the relevant section for more information about the MIB objects defined in a MIB group.

Table 1-3. Server Administrator Remote Access MIB Sections in This Guide

Section	Торіс	MIB Group Numbers
19	Remote Access Group — provides information about remote access hardware that may be present in your system and defines variables for administrative users, SNMP trap destinations, modem configuration for dial-up networking, dial-in configuration, and dial-out destinations	1700

## Server Administrator Baseboard Management Controller, ASF MIB

The Server Administrator BMC MIB (filename **DcAsfSrv.mib**) provides information about the traps sent by BMC. The Server Administrator BMC MIB structures its MIB objects that provide related information. The BMC MIB groups are identified by the SNMP OID 1.3.6.1.4.1.3183.1.1.<mi>MIB group number > The BMC MIB is adheres to ASF 2.0 standard and hence the enterprise ID is wired for management (3183).

## Server Administrator Field Replaceable Unit MIB

The Server Administrator Field Replaceable Unit MIB (filename dcs3fru.mib) provides information about field replaceable unit (FRU) hardware that may be present in your system.

The Server Administrator Field Replaceable Unit MIB structures its MIB objects into groups of scalar objects or MIB tables that provide related information. Table 1-4 describes each Server Administrator Field Replaceable Unit MIB group and lists the MIB group number assigned to the MIB group. The Server Administrator Field Replaceable Unit MIB groups are identified by the SNMP OID 1.3.6.1.4.1.674.10892.1. <MIB group number> where <MIB group number> is the MIB group number assigned to the MIB group. See the relevant section for more information about the MIB objects defined in a MIB group.

Table 1-4. Server Administrator Field Replaceable Unit MIB Sections in This Guide

Section	Торіс	MIB Group Numbers
22	Field Replaceable Unit Group — provides information about field replaceable units that may be present in your system	2000

## **Server Administrator Storage Management MIB**

The Server Administrator Storage Management MIB (filename dcstorag.mib) provides storage management data that allows you to monitor the health of storage resources with SNMP management applications.

Table 1-5 describes each Server Administrator Storage Management MIB group and lists the MIB group number assigned to the MIB group. The Server Administrator Storage Management MIB groups are identified by the SNMP OID 1.3.6.1.4.1.674. *AMIB group number* where *AMIB group number* is the MIB group number assigned to the MIB group. See the relevant section for more information about the MIB objects defined in a MIB group.

Table 1-5. Server Administrator Storage Management MIB Sections in This Guide

Section	Topics	MIB Group Numbers
23	Storage Management Group — consists of definitions for the following MIB groups:	10893
	Storage Management Group	
	Storage Management Information Group	
	Global Data Group	
	Physical Devices Group	
	Logical Devices Group	
	Storage Management Event Group	
27	Storage Management Alert Reference — lets you monitor the health of storage resources such as controllers, connectors, array disks, and virtual disks	NA

## Server Administrator Change Management MIB

The Server Administrator Change Management MIB (filename **dellcm.mib**) provides management data that allows you to monitor the inventory of devices and applications with SNMP management applications.

Table 1-6 describes each Server Administrator Change Management MIB group and lists the MIB group number assigned to the MIB group. The Server Administrator Change Management MIB groups are identified by the SNMP OID 1.3.6.1.4.1.674. *MIB group number>* where *MIB group number>* is the MIB group number assigned to the MIB group. See the relevant section for more information about the MIB objects defined in a MIB group.

Table 1-6. Server Administrator Change Management MIB Sections in This Guide

Section	Topics	MIB Group Number
24	Change Management Group - describes the inventory data provided by the Change Management MIB that allows users to monitor devices and software present on a particular managed computer chassis	10899

#### **Dell RAC Out-of-Band MIB**

The Dell RAC Out-of-Band MIB (filename dellRAC.mib) provides management data that allows you to monitor the Chassis Management Controller. This MIB also contains information on RAC legacy alerting. Table 1-7 describes each Dell RAC Out-of-Band group and lists the MIB group number assigned to the MIB group. See the relevant section for more information about the MIB objects defined in a MIB group

Table 1-7. Dell RAC Out-of-Band MIB

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Section	Topics	MIB Group Number
25	The Dell RAC Out-of-Band MIB consists of information for the following groups:	NA
	Product Information	
	Chassis Status	
	Chassis Power	
	CMC Power Information	
	CMC PSU Information	
	• Chassis Alerts	
	Legacy Alerting	

## **How This Guide Defines Technical Terms**

The following table provides information about where to find definitions for technical terms in this reference guide.

Table 1-8. Where to Find Definitions for Technical Terms

Type of Definition	See
Basic SNMP vocabulary.	Introduction
MIB-group-specific variable values. MIB-group-specific MIB variables contain links to the tables that define these values in the last section of the section in which these variables are used.	Sections 3, 5, 7, 8, 9, and 11 through 18.
Systems management terms, acronyms, and commonly managed components referred to in this reference guide.	Glossary
Server Administrator-standard data types that specify variable values in this reference guide.	Appendix A, "Standard Data Type Definitions."

## **SNMP Basic Terminology**

It is important to have a good understanding of the key technical terms used in this guide. This guide provides definitions for all essential terms used in describing the Server Administrator MIBs. The Glossary contains definitions for all essential terms and acronyms.

#### **SNMP Master Agent**

Typically, the SNMP agent on a managed system consists of one SNMP master agent and zero or more SNMP extension agents. This SNMP agent extendable structure facilitates the addition of new MIB modules without having to rebuild the entire SNMP agent and is invisible to SNMP management applications.

The SNMP master agent is responsible for receiving SNMP request protocol messages from SNMP management applications and sending SNMP response protocol messages. As part of processing SNMP request protocol messages, the SNMP master agent typically communicates with one or more SNMP extension agents. This communication does not involve standard SNMP protocol messages. The SNMP master agent uses an extension protocol that shields the SNMP extension agent from the standard SNMP protocol messages. The extension protocol also provides a way for SNMP extension agents to send SNMP event notifications (called traps in SNMPv1). The SNMP master agent is also responsible for sending SNMP event notification protocol messages to SNMP management applications.

On supported operating systems, the SNMP master agent is provided with the operating system. For example, on supported Microsoft® Windows® operating systems, the Windows SNMP service is the SNMP master agent. For information on the versions of the SNMP protocol supported by the SNMP master agent, see the operating system documentation.

## **SNMP Extension Agent**

The SNMP extension agent is responsible for registering the MIB objects that it supports with the SNMP master agent and then processing requests from the SNMP master agent for those MIB objects. The SNMP extension agent also initiates event notifications to the SNMP master agent. The SNMP extension agent does not receive or send standard SNMP protocol messages. The SNMP extension agent communicates with the SNMP master agent using an extension protocol defined by the SNMP master agent.

The Server Administrator SNMP subagent is an SNMP extension agent.

#### Managed Object

A managed object is any item in a computer system that can be singled out for discovery, monitoring, or user intervention and correction.



**NOTE:** Not all managed objects described in this guide are supported by all systems.

#### **MIB**

A MIB acts as a structured road map for managed objects. As an Application Programming Interface (API), a MIB allows systems management tools to retrieve data maintained by an agent. The server administrator MIB is divided into several major groups of managed objects.

#### **Variable**

A variable is a component of a managed object. A temperature probe, for example, has a variable to describe its capabilities, its health or status, and certain indexes that you can use to locate specific temperature probes. One index for the probe would be the probe's chassis number. Some systems may have multiple chassis—one chassis for the central processing unit and another chassis for storage. A chassis within a system can also have more than one temperature probe. Variables for a temperature probe include its capabilities, status, chassis index, and index.

#### **One-Based Index**

When an index is one-based, counting starts at 1. One-based indexing counts the first instance as 1, the second index as 2, and so on.

#### Zero-Based Index

When an index is zero-based, counting starts at 0. Zero-based indexing counts the first instance as 0, the second index as 1, and so on.

#### **Fields**

Managed object variables contain fields. In this reference guide, managed object variables have the following fields defined:

Name is the exact string by which the variable is known in the MIB. MIB variables are named according to the following conventions:

- Variable names start with a lowercase letter.
- Spaces are not allowed between words in the variable name.
- Acronyms are in uppercase letters, except when an acronym is the first word in the variable name.
- With the exception of the first letter of the variable name and acronyms, all other words in the variable name start with capital letters.

The following variable names illustrate these conventions:

- temperatureProbeLowerCriticalThreshold
- coolingUnitIndex
- pCIDeviceSpeed

Object Identifier (OID) is the unique number assigned to an object defined in a MIB. An OID is written as a sequence of subidentifiers in decimal notation. Each OID in this reference guide has a prefix that identifies the managed objects as belonging to Dell™: 1.3.6.1.4.1.674. The additional numbers identify the MIB group and subgroup as well as the table entry number of any variables.

For example, the OID for the temperature probe managed object table is 700.20 and the variable for the location of the temperature probe (temperatureProbeLocationName) has an OID of 700.20.1.8. The full OIDs for these items are 1.3.6.1.4.1.674.10892.1.700.20 for the temperatureProbeTable and 1.3.6.1.4.1.674.10892.1.700.20.1.8 for the temperatureProbeLocation. For more information about the structure of OIDs, see "SNMP MIB OIDs."

**Description** is a brief explanation of what a particular managed object does.

Syntax defines the data type in which the values of the variable must be expressed. Most variables in this reference guide use standard data types such as string or boolean. All data types that are unique to server administrator variables are defined at the end of the section in which they occur. Standard data types are defined in "Standard Data Type Definitions."

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Access specifies whether persons with administrative privileges can read but not modify the value of a variable (read only) or can both read and modify the value of a variable (read-write).

#### Frequently Used Terms in Variable Names

The following terms are frequently used in the name of a MIB variable:

Capability refers to the actions an object can perform, or to actions that can be taken by the object. Hot-pluggable is an example of a capability. If a card is hot-pluggable, it can be replaced while a system is running. Capability settings refer to the capabilities of the object that the user can select from and activate if desired. Capability settings allow users of the server administrator to predetermine how an object will behave under specific conditions.

Settings are the conditions of a manageable object that determine what happens when a certain value is detected in a component. For example, a user can set the upper critical threshold of a temperature probe to 75 degrees Celsius. If the probe reaches that temperature, the setting causes an alert to be sent to the management console. Some settings, when reached, can trigger a system shutdown or other response to prevent damage to the system.

**State** refers to the condition of an object that has more than one condition. For example, an object may be in a "not ready" or in an "enabled" state.

**Status** refers to the health of an object or how the object is functioning. For example, the status of a temperature probe that is measuring acceptable temperatures would be reported as normal. When the probe begins reading temperatures that exceed limits set by the user, it reports a critical status.

#### **Tables**

This reference guide contains two types of tables: tables that are used to organize and define variable values and tables that define MIB objects. Readers must understand the difference between these two types of tables.

#### **SNMP Tables**

Most of the MIB objects defined in this reference guide are organized into SNMP tables. SNMP tables organize data into two-dimensional structural arrays. In SNMP, objects that have a relationship to other objects are called columnar objects. Columnar objects are objects used to form lists and tables. When a MIB group is divided into one or more discrete tables, the word

"table" has a technical meaning. An example is the section of this reference guide entitled Universal Unique Identifier (UUID). The UUID object has a type and a value that uniquely identifies an object such as a chassis. The table defines all of the variables that comprise the managed object UUID.

The following table is an example of an SNMP table. The table contains variables that must occur in a definite sequence. In the example table the defined variables are UUID Chassis Index, UUID Index, UUID Type, and UUID Value.

#### **Example SNMP Table**

#### **UUID Table**

These objects comprise the Server Administrator definitions for the UUID.

Name uUIDTable

**Object ID** 1.3.6.1.4.1.674.10892.1.300.20

**Description** Defines the UUID table.

**Syntax** SEQUENCE OF UUIDTableEntry

**Access** Not accessible

## **UUID Table Entry**

Name uUIDTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.300.20.1 **Description** Defines the UUID table entry.

Syntax UUIDTableEntry
Access
Not accessible

Index uUIDIndex, uUIDchassisIndex

#### UUID Chassis Index

Name uUIDchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.300.20.1.1

**Description** Defines the index (one-based) of this chassis.

Name uUIDchassisIndex

**Syntax** DellObjectRange

Access Read-only

#### **UUID** Index

Name uUIDIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.300.20.1.2

**Description** Defines the index of the UUID in a specified chassis.

**Syntax** DellObjectRange

**Access** Read-only

#### **UUID Type**

Name uUIDType

**Object ID** 1.3.6.1.4.1.674.10892.1.300.20.1.3

**Description** Defines the type of the UUID for this chassis.

**Syntax** DellUUIDType

Access Read-only

#### UUID Value

Name uUIDValue

**Object ID** 1.3.6.1.4.1.674.10892.1.300.20.1.4

**Description** Defines the value of the UUID for this chassis.

**Syntax** OCTET STRING (SIZE[16])

Access Read-only

#### Reference Guide Content Tables



**NOTE:** Variable values are defined for any variable that is Server Administrator-specific. Industry-standard variable definitions are documented in "Standard Data Type Definitions."

Some of the tables in this guide have no technical significance in SNMP. These tables are designed to show information in a readable form. The following table, for example, defines the Server Administrator-specific variable, DellFanControlCapabilities. The table provides the name of the variable, its data type, the values that are valid for the variable, and the meaning of each value.

Table 1-9. Example Variable Type Definition Table

Variable Name: DellFanControlCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(1)	The fan's capabilities are unknown.
lowSpeedCapable(2)	The fan can be set to low speed.
highSpeedCapable(4)	The fan can be set to high speed.
lowOrHighSpeedCapable(6)	The fan can be set to low or high speed.

This type of table is used throughout the reference guide to list and define variable values. Tables that explain Server Administrator-specific variable values are located in the final section of sections that define Server Administrator-specific variables. In the preceding example, the variable name is DellFanControlCapabilities. This variable must be expressed as an integer and has four possible values: unknown, lowSpeedCapable, highSpeedCapable, and lowOrHighSpeed Capable.

## **Section Organization**

Sections in this reference guide are based on the Server Administrator MIBs, so the complexity of each section depends on the complexity of each MIB group. The first section provides a high-level introduction to the MIB group. If the group is defined by one or more tables, the second section lists these tables. The third section documents the variables that comprise the group, and if applicable,

the variables that comprise the tables. The fourth section contains definitions for any Server Administrator-specific variables that are used in the section. The following example shows the typical content of these four sections.

#### 1 BIOS Setup Control Group

This section explains the purpose of the MIB group and summarizes the major features of the component groups.

#### 2 BIOS Group Tables

If there is more than one SNMP table for a group, this section lists all of the tables. For this BIOS group example, there are eight tables listed. In each section, double-clicking any table on the list takes you to that table.

- BIOS Setup Control Table
- SCSI Control Table
- Parallel Port Control Table
- Serial Port Control Table
- USB Control Table
- IDE Control Table
- Diskette Control Table
- Network Interface Control Table

#### **3** Variables that make up each table in the group

This section documents the variables for the eight tables that comprise the BIOS group.

#### 4 BIOS Variable Values

This section explains any Server Administrator-specific variables and data types that are used in this section. In the BIOS group example, there are 17 unique, Server Administrator-specific variable meanings. Information on each Server Administrator-specific variable is presented in a formatted table.

#### **Other Documents You May Need**

In addition to this Server Administrator SNMP Reference Guide, you can find the following guides on your Dell Systems Management Tools and Documentation DVD:

- The Server Administrator Messages Reference Guide lists the messages that you can receive on your systems management console or on your operating system's event viewer. This guide explains the text, severity, and cause of each message that the server administrator issues.
- Server Administrator CIM Reference Guide documents the Common Information Model (CIM) provider, an extension of the standard management object format (MOF) file. The Server-Administrator provider documents supported classes of management objects.

# Introduction to the Server Administrator SNMP Subagent

This guide provides formatted information drawn primarily from the MIB files written for the Server Administrator services that support the SNMP protocol.

For each of the variables defined in the MIBs, the following fields are specified:

- Variable name
- OID or unique identifying number
- Description
- Data type of the variable (for example: integer, string, octet string)
- Whether the variable is accessible, not accessible, read-only, or read-write
- Index or indexes, if applicable

For each MIB group that has unique variable definitions, tables are included in the last section of the section to explain the meaning of the terms.

Standards for writing MIBs are defined by the Internet Engineering Task Force (IETF). Structure of Management Information (SMI) is a standard that specifies the rules for defining the structure and type of managed objects and events in a MIB. SMIv1 is specified in Request For Comments (RFC) 1155. The Server Administrator MIB conforms to the SMIv1 standard.

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SNMP is a systems management standard originally designed for network management. SNMP manages much more than networks. Information Technology (IT) professionals use SNMP for monitoring and managing computer systems and the various components and peripherals supported by their systems.

SNMP standards are defined by the Internet Engineering Task Force (IETF). SNMP version 1 was published in August 1988 and is the most commonly supported version of SNMP SNMP version 2 was first published in May 1993, but has not gained widespread market acceptance. SNMP version 3 was recently completed and has addressed security issues that exist in version 1.

All SNMP systems consist of one or more managed systems that provide data through an SNMP agent to a management system. The management system provides a user interface to view data from the managed systems. The management system and managed systems communicate over a network (typically through User Datagram Protocol/Internet Protocol [UDP/IP]).

The management system and a managed system communicate by means of a common data schema. SNMP MIB files define the structure, type, and values of the SNMP data. While MIBs can be standardized or enterprise specific, most operating systems supply SNMP agents for the standard MIB-I and MIB-II schemas. MIB-I defines a base set of standard management information for systems implementing the Internet Protocol (IP) suite. MIB-II defines characteristics of the system, characteristics of network interfaces, and characteristics of components of the IP on the system. In addition to the standard MIBs, many hardware vendors have defined MIBs that provide management data specific to their systems and peripheral devices.

Monitored data can be retrieved through SNMP using the Get command. Typically, this command requires the host name or IP address of the target machine as well as the OID of the data to retrieve. Exact details are dependent on the operating system and the development tools being used to create the management application. The Get command has a variant known as GetNext.

#### **SNMP MIB OIDs**

Each data class within an MIB is defined by an OID. OIDs are unique across all MIBs. An OID consists of a series of digits separated by periods. The OID functions in a similar fashion to a phone number. The phone number 011-512-471-0000 uniquely identifies a single phone. The phone number can be broken down into a number of components to uniquely identify a phone.

The first component, 011, is the country code for the United States. The second component, 512, identifies the area code for central Texas. The third component, 471, is the phone exchange for a large state university in the city of Austin. The final component, 0000, is the main switchboard.

There are two main differences between the phone number example and an actual OID. The first difference is that there are many more components in an OID, up to 128. The combination of these components is called an OID prefix. The second difference is that OIDs support the concept of indexes or keys. The OID prefix specifies the data class but does not specify an instance of the data within the class. Indexes can be used to identify the instances of a data class. These indexes are referred to as the OID suffix.

The assignment of values for each OID prefix component can be illustrated by using a tree structure. The following is an example of an OID assignment:

```
ROOT

CCITT(0)

ISO(1)

ORG(3)

DOD(6)

INTERNET(1)

MGMT(2)

MIB(1)

EXPERIMENTAL(3)

PRIVATE(4)

ENTERPRISES(1)

DELL(674)

SNMPv2(6)
```

In the preceding example, the OID prefix for the Dell enterprise would be 1.3.6.1.4.1.674.

The numbers in boldface type show the categories and numbers that apply to Server Administrator, All Server Administrator-defined OIDs consist of 1.3.6.1.4.1.674 followed by additional component values.

#### SNMP Security

SNMP version 1 has a very limited security mechanism. SNMP agents support the use of a community string, which is configured at each SNMP agent and is passed as a part of all SNMP request messages. There is no verification that the requester is actually a member of the specified community.

Because most system and network management data is not confidential, this limited security is acceptable for Get types of requests. On the other hand, this security is not acceptable for Set types of operations where an SNMP request could power off a system, reconfigure a redundant array of independent disks (RAID) card, and so on. Some vendors have chosen not to support SNMP Set operations for this reason. Server Administrator is able to support SNMP Set operations because its SNMP agents implement a hash/digest mechanism to prevent unauthorized SNMP Set operations. One limitation of this practice is that only server administrator-developed SNMP management applications have the capability to support the hash/digest mechanism.



**NOTE:** The default SNMP agent configuration usually includes a SNMP community name such as public. For security reasons, change the SNMP community names from their default values. For information about changing SNMP community names, see the Dell OpenManage Server Administrator User's Guide. This guide is available on the Dell Support website at support.dell.com and on the Dell Systems Management Tools and Documentation DVD. For additional guidelines, see the Securing an SNMP Environment article, dated May 2003, in the Dell Power Solutions magazine. This magazine is also available at www.dell.com/powersolutions.



**NOTE:** Server Administrator provides support to enable or disable SNMP Set operations. For more information on enabling or disabling SNMP Set operations in Server Administrator, see the Dell OpenManage Server Administrator User's Guide or the Dell OpenManage Server Administrator Command Line Interface User's Guide.

#### **Management Actions**

Management actions can be performed using the SNMP Set command. These actions can consist of configuring a phone number for the system's owner, rebooting a system, or changing the asset tag of the system. See the previous section, "SNMP Security," for limitations on Set operations.

#### **SNMP Traps**

SNMP is frequently used to monitor systems for fault conditions such as temperature violations, hard drive failures, and so on. Management applications can monitor for these conditions by polling the appropriate OIDs with the Get command and analyzing the returned data. This method has its drawbacks. If it is done frequently, significant amounts of network bandwidth can be consumed. If it is done infrequently, the response to the fault condition may not occur in a timely fashion. SNMP traps avoid these limitations of the polling method.

An SNMP trap is an asynchronous event indicating that something significant has occurred. This is analogous to a pager receiving an important message, except that the SNMP trap frequently contains all the information needed to diagnose a fault.

Two drawbacks to SNMP traps are that they are sent using UDP, which is not a guaranteed delivery mechanism, and that they are not acknowledged by the receiver.

An SNMP trap message contains the trap's enterprise OID, the agent IP address, a generic trap ID, the specific trap ID, a time stamp, and zero or more variable bindings (varbinds). The combination of an enterprise OID and a specific trap ID uniquely identifies each Server Administrator-defined trap. A varbind consists of an OID and its value and provides additional information about the trap.

In order for a management system to receive SNMP traps from a managed system, the node must be configured to send traps to the management system. Trap destination configuration is dependent on the operating system. When this configuration is done, a management application on the management system can wait for traps and act on them when received.

For a list of traps supported by the server administrator SNMP subagent, see "Traps."

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## Instrumentation MIB Version Group

The Instrumentation Management Information Base (MIB) Version Group defines the attributes that identify the version of the Instrumentation MIB supported by the systems management software.

The mIBMajorVersionNumber, mIBMinorVersionNumber, and mIBMaintenanceVersionNumber attributes are scalar objects, meaning that they are not related to other MIB objects and are thus not placed in a table.

## **MIB Major Version Number**

Name mIBMajorVersionNumber

**Object ID** 1.3.6.1.4.1.674.10892.1.1.1.0

**Description** Defines the major version number of the version of this MIB

supported by the systems management software. For example, if

the MIB version is 1.2.3, the major version number is 1.

A major version number change indicates a major change in

object functionality.

**Syntax** DellUnsigned8BitRange

### **MIB Minor Version Number**

 Name
 mIBMinorVersionNumber

 Object ID
 1.3.6.1.4.1.674.10892.1.1.2.0

**Description** Defines the minor version number of the version of this MIB

supported by the systems management software. For example, if the MIB version is 1.2.3, the minor version number is 2. A minor revision provides additional support for new objects as

well as problem fixes.

**Syntax** DellUnsigned8BitRange

Access Read-only

### **MIB Maintenance Version Number**

Name mIBMaintenanceVersionNumber

**Object ID** 1.3.6.1.4.1.674.10892.1.1.3.0

**Description** Defines the maintenance version number for the version of this

MIB supported by the systems management software. For example, if the MIB version is 1.2.3, the maintenance version

number is 3.

**Syntax** DellUnsigned8BitRange

## Systems Management Software Group

The Systems Management Software Group allows users to see information about the standards and software that are supported by the agent of a particular managed computer chassis. The Systems Management Software Group classifies each computer chassis according to the systems management standard that the agent supports.

Additional objects define the universal resource locator (URL) of the systems management software and the language in which systems management information displays. Defining these objects enables users to manage a system using an internet browser. You can access Server Administrator using the secure hypertext transfer protocol (https) and a pre-assigned port number of 1311, or you can specify a port number of your own choosing.



**NOTE**: Using the Software  $\rightarrow$  Server Preferences menu of Server Administrator, you can bind to either one IP address or to all IP addresses.



**NOTE:** To manage a system remotely using Server Administrator, type one of the following in the address field of your browser:

https://<systemname>:<1311 or user specified port number>

or

https://<IP address>:<1311 or user specified port number>

To manage a system locally using Server Administrator, type the following in the address field of your browser:

https://localhost:<1311 or user-specified port number>

## Systems Management Software

The following objects describe the fields for server administrator systems management information. The systems management software variables are scalar objects, meaning that they are not related to other management information base (MIB) objects and are thus not placed in a table.

#### **Systems Management Software Name**

Name systemManagementSoftwareName

**Object ID** 1.3.6.1.4.1.674.10892.1.100.1

**Description** Defines the systems management software product name.

Syntax DellString
Access Read-only

#### **Systems Management Software Version Number Name**

Name systemManagementSoftwareVersionNumberName

**Object ID** 1.3.6.1.4.1.674.10892.1.100.2

**Description** Defines the version number of the systems management

software.

Syntax DellString
Access Read-only

#### **Systems Management Software Build Number**

Name systemManagementSoftwareBuildNumber

**Object ID** 1.3.6.1.4.1.674.10892.1.100.3

**Description** Defines the build number of the systems management software.

Syntax DellUnsigned16BitRange

#### Systems Management Software Description Name

Name systemManagementSoftwareDescriptionName

**Object ID** 1.3.6.1.4.1.674.10892.1.100.4

**Description** Defines the description of the systems management software.

Syntax DellString
Access Read-only

#### **Systems Management Software Supported Protocol**

Name systemManagementSoftwareSupportedProtocol

**Object ID** 1.3.6.1.4.1.674.10892.1.100.5

**Description** Defines the systems management standards (SNMP or CIM)

supported by the systems management software.

**Syntax** SMSSupportedTypes (See Table 3-1.)

Access Read-only

#### **Systems Management Software Preferred Protocol**

Name systemManagementSoftwarePreferredProtocol

**Object ID** 1.3.6.1.4.1.674.10892.1.100.6

**Description** Defines the preferred systems management standard for the

systems management software.

**Syntax** SMSSupportedTypes (See Table 3-1.)

Access Read-only

#### Systems Management Software Update Level Name

Name systemManagementSoftwareUpdateLevelName

**Object ID** 1.3.6.1.4.1.674.10892.1.100.7

**Description** Defines the update level of the system management software.

Syntax DellString
Access Read-only

#### **Systems Management Software URL Name**

Name systemManagementSoftwareURLName

**Object ID** 1.3.6.1.4.1.674.10892.1.100.8

**Description** Defines the universal resource locator (URL) of the systems

management software.

**Syntax** DisplayString (SIZE (0..1024))

Access Read-only

#### Systems Management Software Language Name

Name systemManagementSoftwareLanguageName

**Object ID** 1.3.6.1.4.1.674.10892.1.100.9

**Description** Defines the language of the systems management software.

**Syntax** DisplayString (SIZE (0..255))

Access Read-only

#### **Systems Management Software Global Version Name**

Name systemManagementSoftwareGlobalVersionName

**Object ID** 1.3.6.1.4.1.674.10892.1.100.10

**Description** Defines the global version of the systems management software.

Syntax DellString
Access Read-only

#### **Systems Management Software Feature Flags**

Name systemManagementSoftwareFeatureFlags

**Object ID** 1.3.6.1.4.1.674.10892.1.100.11

**Description** Defines the features of the systems management software.

**Syntax** SMSFeatureFlags (See Table 3-2)

#### **Systems Management Software SNMP Agent Feature Flags**

Name systemManagementSoftwareSNMPAgentFeatureFlags

**Object ID** 1.3.6.1.4.1.674.10892.1.100.12

**Description** Defines the features of the SNMP agent software provided by the

operating system.

**Syntax** SMSSNMPAgentFeatureFlags (See Table 3-3)

Access Read-only

#### **Systems Management Software Manufacturer Name**

Name systemManagementSoftwareManufacturerName

**Object ID** 1.3.6.1.4.1.674.10892.1.100.13

**Description** Defines the manufacturer of the systems management software.

Syntax DellString
Access Read-only

## Systems Management Software Variable Values

This section includes definitions of server administrator-specific variable values used in this section

Table 3-1. Systems Management Software Supported Standards

Variable Name: SMSSupportedTypes

Data Type: Integer

., ,	
Possible Data Values	Meaning of Data Value
supportsSNMP(1)	This system supports SNMP.
supportsDMI(2)	This system supports DMI.
supportsSNMPandDMI(3)	This system supports SNMP and DMI.
supportsCIMOM(4)	This system supports CIM.
supportsSNMPandCIMOM(5)	This system supports SNMP and CIM.

Table 3-2. Systems Management Software Feature Flags

Variable Name: SMSFeatureFlags

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The Systems Management Software features are not enabled.
webOneToOneManagementPreferred(1)	The web 1:1 management preferred feature is enabled.

Table 3-3. Systems Management Software SNMP Agent Feature Flags

Variable Name: SMSSNMPAgentFeatureFlags

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The Systems Management Software SNMP agent features are not enabled.
supportsSparseTables(1)	The SNMP agent supports sparse tables.

## System State Group

The Management Information Base (MIB) variables presented in this section enable you to track various attributes that describe the state of the critical components supported by your system. Components monitored under the System State Group include power supplies, AC power cords, AC power switches, and cooling devices, as well as temperature, fan, amperage, and voltage probes.

## **System State Group Table**

The System State Group defines objects in the System State MIB table.

#### **System State Table**

The following object sets up the System State Table:

Name systemStateTable

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10

**Description** Defines the System State Table.

**Syntax** SEQUENCE OF SystemStateTableEntry

**Access** Not accessible

#### System State Table Entry

Name systemStateTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1

**Description** Defines the System State Table entry.

**Syntax** SystemStateTableEntry

**Access** Not accessible

Index systemStatechassisIndex

#### **System State Chassis Index**

Name systemStatechassisIndex
Object ID 1.3.6.1.4.1.674.10892.1.200.10.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **System State Global System Status**

Name systemStateGlobalSystemStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.2

**Description** Defines the global system status of all chassis being monitored by

this instrumentation instance.

Syntax DellStatus
Access Read-only

#### System State Chassis State

Name systemStateChassisState
Object ID 1.3.6.1.4.1.674.10892.1.200.10.1.3

**Description** Defines the system state of this chassis.

**Syntax** DellStateSettings

Access Read-only

#### **System State Chassis Status**

Name systemStateChassisStatus

 $\textbf{Object ID} \qquad 1.3.6.1.4.1.674.10892.1.200.10.1.4$ 

**Description** Defines the system status of this chassis.

Syntax DellStatus

#### **System State Power Unit State Details**

Name systemStatePowerUnitStateDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.5

**Description** Defines the state of all power units in this chassis. The results are

returned as a binary octet string. Each byte of the octet string represents the state of a specific power unit. The first byte returned represents the state of the first power unit, the second byte returned represents the state of the second power unit, and so on. The bytes

have the same definition type as DellStateSettings.

**Syntax** OCTET STRING (SIZE(1..128))

**Access** Read-only

#### **System State Power Unit Status Redundancy**

Name systemStatePowerUnitStatusRedundancy

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.6

**Description** Defines the system status of the power unit(s) in this chassis.

Syntax DellStatus
Access Read-only

#### **System State Power Unit Status Details**

Name systemStatePowerUnitStatusDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.7

**Description** Defines the status of all power units in this chassis. The results are

returned as a binary octet string. Each byte of the octet string represents the status of a specific power unit. The first byte returned represents the status of the first power unit, the second byte returned represents the status of the second power unit, and so on. The bytes have the same definition type as DellStatusRedundancy.

**Syntax** OCTET STRING (SIZE(1..128))

#### System State Power Supply State Details

Name systemStatePowerSupplyStateDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.8

**Description** Defines the state of all power supplies in this chassis. The results are

returned as a binary octet string. Each byte of the octet string represents the state of a specific power supply. The first byte returned represents the state of the first power supply, the second byte returned represents the state of the second power supply, and so on. The bytes have the same definition type as DellStateSettings.

OCTET STRING (SIZE(1..128))

Access Read-only

**Syntax** 

#### **System State Power Supply Status Combined**

Name systemStatePowerSupplyStatusCombined

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.9

**Description** Defines the status of all power supplies in this chassis.

Syntax DellStatus
Access Read-only

#### System State Power Supply Status Details

Name systemStatePowerSupplyStatusDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.10

**Description** Defines the status of all power supplies in this chassis. The results

are returned as a binary octet string, Each byte of the octet string represents the status of a specific power supply. The first byte returned represents the status of the first power supply, the second byte returned represents the status of the second power supply, and so on. The bytes have the same definition type as DellStatus.

**Syntax** OCTET STRING (SIZE(1..128))

#### **System State Voltage State Details**

Name systemStateVoltageStateDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.11

**Description** Defines the state of all voltage probes in this chassis. The results are

returned as a binary octet string. Each byte of the octet string represents the status of a specific voltage probe. The first byte returned represents the status of the first voltage probe, the second byte returned represents the status of the second voltage probe, and so on. The bytes have the same definition type as DellStateSettings.

**Syntax** OCTET STRING (SIZE(1..128))

**Access** Read-only

#### System State Voltage Status Combined

Name systemStateVoltageStatusCombined

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.12

**Description** Defines the status of all voltage probes in this chassis.

Syntax DellStatus
Access Read-only

#### System State Voltage Status Details

Name systemStateVoltageStatusDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.13

**Description** Defines the status of all voltage probes in this chassis.

**Syntax** OCTET STRING (SIZE(1..128))

#### **System State Amperage State Details**

Name systemStateAmperageStateDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.14

**Description** Defines the state of all current probes in this chassis. The results are

returned as a binary octet string. Each byte of the octet string represents the status of a specific current probe. The first byte returned represents the state of the first current probe, the second byte returned represents the state of the second current probe, and so on. The bytes have the same definition type as DellStateSettings.

**Syntax** OCTET STRING (SIZE(1..128))

Access Read-only

#### System State Amperage Status Combined

Name systemStateAmperageStatusCombined

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.15

**Description** Defines the status of all amperage probes in this chassis. The result

is returned as a combined status value. The value has the same

definition type as DellStatus.

Syntax DellStatus
Access Read-only

#### **System State Amperage Status Details**

Name systemStateAmperageStatusDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.16

**Description** Defines the status of all amperage probes in this chassis. The results

are returned as a binary octet string. Each byte of the octet string represents the status of a specific amperage probe. The first byte returned represents the status of the first amperage probe, the second byte returned represents the status of the second amperage probe, and so on. The bytes have the same definition type as

DellStatus.

Syntax OCTET STRING (SIZE(1..128))

#### **System State Cooling Unit State Details**

Name statesystemStateCoolingUnitStateDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.17

**Description** Defines the state of all cooling units in this chassis. The results are

returned as a binary octet string. Each byte of the octet string represents the state of a specific cooling unit. The first byte returned represents the state of the first cooling unit, the second byte returned represents the state of the second cooling unit, and so on. The bytes have the same definition type as DellStateSettings.

**Syntax** OCTET STRING (SIZE(1..128))

Access Read-only

#### **System State Cooling Unit Status Redundancy**

Name systemStateCoolingUnitStatusRedundancy

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.18

**Description** Defines the state of all cooling units in this chassis.

**Syntax** DellStatusRedundancy

**Access** Read-only

#### **System State Cooling Unit State Details**

Name systemStateCoolingUnitstateDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.19

**Description** Defines the state of all cooling units in this chassis. The results are

returned as a binary octet string. Each byte of the octet string represents the state of a specific cooling unit. The first byte returned represents the state of the first cooling unit, the second byte returned represents the state of the second cooling unit, and so on. The bytes have the same definition type as DellStateSettings.

**Syntax** OCTET STRING (SIZE(1..128))

#### **System State Cooling Device State Details**

Name systemStateCoolingDeviceStateDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.20

**Description** Defines the state of all cooling devices in this chassis. The results are

returned as a binary octet string. Each byte of the octet string represents the state of a specific cooling device. The first byte returned represents the state of the first cooling device, the second byte returned represents the state of the second cooling device, and so on. The bytes have the same definition type as DellStateSettings.

**Syntax** OCTET STRING (SIZE(1..128))

Access Read-only

#### **System State Cooling Device Status Combined**

Name systemStateCoolingDeviceStatusCombined

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.21

**Description** This attribute defines the cooling device status of all cooling devices

in this chassis. The results is returned as a combined status value.

The value has the same definition type as DellStatus.

Syntax DellStatus
Access Read-only

#### **System State Cooling Device Status Details**

Name systemStateCoolingDeviceStatusDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.22

**Description** Defines the status of all cooling devices in this chassis. The results

are returned as a binary octet string. Each byte of the octet string represents the status of a specific cooling device. The first byte returned represents the status of the first cooling device, the second byte returned represents the status of the second cooling device, and so on. The bytes have the same definition type as DellStatus.

Syntax OCTET STRING (SIZE(1..128))

#### **System State Temperature State Details**

Name systemStateTemperatureStateDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.23

**Description** Defines the state of all temperature probes in this chassis.

The results are returned as a binary octet string. Each byte of the octet string represents the state of a specific temperature probe. The first byte returned represents the state of the first temperature probe, the second byte returned represents the status of the second temperature probe, and so on. The bytes have the same definition

type as DellStateSettings.

**Syntax** OCTET STRING (SIZE(1..128))

Access Read-only

#### **System State Temperature Status Combined**

Name systemStateTemperatureStatusCombined

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.24

**Description** Defines the status of all temperature probes in this chassis.

The result is returned as a combined status value. The value has the

same definition type as DellStatus.

Syntax DellStatus
Access Read-only

#### System State Temperature Status Details

Name systemStateTemperatureStatusDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.25

**Description** Defines the status of all temperature probes in this chassis. The first

byte returned represents the status of the first temperature probe, the second byte returned represents the status of the second

temperature probe, and so on.

**Syntax** OCTET STRING (SIZE(1..128)

#### **System State Memory Device State Details**

Name systemStateMemoryDeviceStateDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.26

**Description** Defines the state of all memory devices in this chassis. The results

are returned as a binary octet string. Each byte of the octet string represents the state of the specific memory device. The first byte returned represents the state of the first memory device, the second byte returned represents the status of the second memory device,

and so on. The bytes have the same definition type as

DellStateSettings.

**Syntax** OCTET STRING (SIZE(1..128)

Access Read-only

#### **System State Memory Device Status Combined**

Name systemStateMemoryDeviceStatusCombined

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.27

**Description** Defines the status of all memory devices in this chassis.

Syntax DellStatus
Access Read-only

#### System State Memory Device Status Details

Name systemStateMemoryDeviceStatusDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.28

**Description** Defines the status of all memory devices in this chassis. The results

are returned as a binary octet string. Each byte of the octet string represents the status of a specific memory device. The first byte returned represents the status of the first memory device, the second byte returned represents the status of the second memory device, and so on. The bytes have the same definition type as

DellStatus.

**Syntax** OCTET STRING (SIZE(1..128)

#### **System State Chassis Intrusion State Details**

Name systemStateChassisIntrusionStateDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.29

**Description** Defines the intrusion state of all intrusion detection devices in this

chassis. The results are returned as a binary octet string. Each byte of the octet string represents the status of a specific intrusion detection device. The first byte returned represents the status of the first intrusion detection device, the second byte returned represents the status of the second intrusion detection device, and so on. The bytes

have the same definition type as DellStateSettings.

**Syntax** OCTET STRING (SIZE(1..128)

Access Read-only

#### System State Chassis Intrusion Status Combined

Name systemStateChassisIntrusionStatusCombined

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.30

**Description** Defines the intrusion status of all intrusion detection devices in this

chassis. The result is returned as a combined status value. The value

has the same definition type as DellStatus.

Syntax DellStatus
Access Read-only

#### System State Chassis Intrusion Status Details

Name systemStateChassisIntrusionStatusDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.31

**Description** Defines the intrusion status of all intrusion detection devices in this

chassis. The first byte returned represents the status of the first intrusion detection device, the second byte returned represents the

status of the second intrusion detection device, and so on.

**Syntax** OCTET STRING (SIZE(1..128))

#### System State AC Power Switch State Details

Name systemStateACPowerSwitchStateDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.32

**Description** Defines the individual state of all AC power switches in this chassis.

The first byte returned represents the state of the first AC power switch, the second byte returned represents the state of the second

AC power switch, and so on.

**Syntax** OCTET STRING (SIZE(1..128))

Access Read-only

#### **System State AC Power Switch Status Redundancy**

Name systemStateACPowerSwitchStatusRedundancy

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.33

**Description** Defines the overall redundancy status of the AC power switches in

this chassis.

**Syntax** DellStatusRedundancy

**Access** Read-only

#### System State AC Power Switch Status Details

Name systemStateACPowerSwitchStatusDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.34

**Description** Defines the individual status of all AC power switches in this

chassis. The first byte returned represents the status of the first AC power switch, the second byte returned represents the status of

the second AC power switch, and so on.

**Syntax** OCTET STRING (SIZE(1..128))

#### **System State AC Power Cord State Details**

Name systemStateACPowerCordStateDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.35

**Description** Defines the individual state of all AC power cords for any AC power

switches in this chassis. The first byte returned represents the state of the first AC power cord, the second byte returned represents the

state of the second AC power cord, and so on.

**Syntax** OCTET STRING (SIZE(1..128))

Access Read-only

#### **System State AC Power Cord Status Combined**

Name systemStateACPowerCordStatusCombined

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.36

**Description** Defines the overall status of all AC power cords for any AC power

switches in this chassis.

Syntax DellStatus
Access Read-only

#### System State AC Power Cord Status Details

Name systemStateACPowerCordStatusDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.37

**Description** Defines the individual status of all AC power cords for any

AC power switches in this chassis. The first byte returned represents the status of the first AC power cord, the second byte returned represents the status of the second AC power cord, and so on.

**Syntax** OCTET STRING (SIZE(1..128))

#### **System State Redundant Memory Unit State Details**

Name systemStateRedundantMemoryUnitStateDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.38

**Description** Defines the state of all redundant memory units in this chassis.

The results are returned as a binary octet string, each byte of the octet string represents the state of the specific object. The first byte returned represents the state of the first object, and so on. The bytes

have the same definition type as DellStateSettings.

**Syntax** OCTET STRING (SIZE(1..128))

Access Read-only

#### **System State Redundant Memory Unit Status Redundancy**

Name systemStateRedundantMemoryUnitStatusRedundancy

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.39

**Description** Defines the overall redundancy status for redundant memory.

**Syntax** DellStatusRedundancy

**Access** Read-only

#### System State Redundant Memory Unit Status Details

Name systemStateRedundantMemoryUnitStatusDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.40

**Description** Defines the status of all redundant memory units in this chassis.

The results are returned as a binary octet string, each byte of the octet string represents the status of the specific object. The first byte returned represents the status of the first object, and so on. The bytes have the same definition type as DellStatusRedundancy.

**Syntax** OCTET STRING (SIZE(1..128))

#### **System State Event Log Status**

Name systemStateEventLogStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.41

**Description** Defines the overall status of this chassis (ESM) event log.

Syntax DellStatus
Access Read-only

#### **System State Power Unit Status Combined**

Name systemStatePowerUnitStatusCombined

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.42

**Description** Defines the combined status of all power units of this chassis.

Syntax DellStatus
Access Read-only

#### System State Power Unit Status List

Name systemStatePowerUnitStatusList

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.43

**Description** Lists the status of each power unit of this chassis. The results are

returned as a binary octet string where each byte of the octet string represents the status of a power unit. The first byte returned represents the status of the first power unit, and so on. The bytes

have the same definition type as DellStatus.

**Syntax** OCTET STRING (SIZE(1..128))

#### **System State Cooling Unit Status Combined**

Name systemStateCoolingUnitStatusCombined

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.44

**Description** Defines the combined status of all cooling units of this chassis.

Syntax DellStatus
Access Read-only

#### System State Cooling Unit Status List

Name systemStateCoolingUnitStatusList

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.45

**Description** Lists the status of each cooling unit of this chassis. The results are

returned as a binary octet string where each byte of the octet string represents the status of a cooling unit. The first byte returned represents the status of the first cooling unit, and so on. The bytes

have the same definition type as DellStatus.

**Syntax** OCTET STRING (SIZE(1..128))

Access Read-only

#### System State AC Power Switch Status Combined

Name systemStateACPowerSwitchStatusCombined

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.46

**Description** Defines the combined status of all AC power switches of this

chassis.

Syntax DellStatus
Access Read-only

#### **System State AC Power Switch Status List**

Name systemStateACPowerSwitchStatusList

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.47

**Description** Lists the status of each AC power switch of this chassis. The results

are returned as a binary octet string where each byte of the octet string represents the status of an AC power switch. The first byte returned represents the status of the first AC power switch, and so

on. The bytes have the same definition type as DellStatus.

**Syntax** OCTET STRING (SIZE(1..128))

**Access** Read-only

#### **System State Redundant Memory Unit Status Combined**

Name systemStateRedundantMemoryUnitStatusCombined

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.48

**Description** Defines the combined status of all redundant memory units of this

chassis.

Syntax DellStatus

Access Read-only

#### System State Redundant Memory Unit Status List

Name systemStateRedundantMemoryUnitStatusList

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.49

**Description** Lists the status of each redundant memory unit of this chassis.

The results are returned as a binary octet string where each byte of the octet string represents the status of a redundant memory unit. The first byte returned represents the status of the first redundant memory unit, and so on. The bytes have the same definition type as

DellStatus.

**Syntax** OCTET STRING (SIZE(1..128))

#### System State Processor Device Status Combined

Name systemStateProcessorDeviceStatusCombined

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.50

**Description** Defines the combined status of all processor devices of this chassis.

Syntax DellStatus
Access Read-only

#### System State Processor Device Status List

Name systemStateProcessorDeviceStatusList

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.51

**Description** Lists the status of each processor device of this chassis. The results

are returned as a binary octet string where each byte of the octet string represents the status of a processor device. The first byte returned represents the status of the first processor device, and so

on. The bytes have the same definition type as DellStatus.

**Syntax** OCTET STRING (SIZE(1..128))

**Access** Read-only

#### **System State Battery Status Combined**

Name systemStateBatteryStatusCombined

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.52

**Description** Defines the combined status of all batteries of this chassis.

Syntax DellStatus
Access Read-only

#### **System State Battery Status List**

Name systemStateBatteryStatusList

**Object ID** 1.3.6.1.4.1.674.10892.1.200.10.1.53

**Description** Lists the status of each battery of this chassis. The results are

returned as a binary octet string where each byte of the octet string represents the status of a battery. The first byte returned represents the status of the first battery, and so on. The bytes have the same

definition type as DellStatus.

**Syntax** OCTET STRING (SIZE(1..128))

## **Chassis Information Group**

The Chassis Information Group provides information about the type or types of chassis in your system, as well as information about the light-emitting diode (LED) indicators and settings for devices on each chassis. Information is also available about the current date and time displayed on the chassis, intrusion warnings, watchdog timer, systems management basic input/output system (SMBIOS), and so on.

## **Chassis Information Group Tables**

The following management information base (MIB) tables define the objects in the Chassis Information Group:

- Chassis Information Table
- UUID Table
- POST Log Table
- Event Log Table
- System BIOS Table
- Firmware Table
- Intrusion Table
- Baseboard Table

#### **Chassis Information Table**

The following object sets up the Chassis Information Table.

Name chassisInformationTable
ObjectID 1.3.6.1.4.1.674.10892.1.300.10

**Description** Defines the chassis information table.

SYNTAX SEQUENCE OF ChassisInformationTableEntry

Access Not accessible

#### **Chassis Information Table Entry**

Name chassisInformationTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1

**Description** Defines the chassis information table entry.

**Syntax** ChassisInformationTableEntry

**Access** Not accessible

Index chassisIndexChassisInformation

#### **Chassis Index Chassis Information**

Name chassisIndexChassisInformation

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.1

**Description** Defines the index (one-based) of this chassis. The first chassis

will be numbered one.

**Syntax** DellObjectRange

Access Read-only

#### **Chassis State Capabilities**

Name chassisStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.2

**Description** Defines the capabilities of the chassis.

Syntax DellStateCapabilities

Access Read-only

#### **Chassis State Settings**

Name chassisStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.3

**Description** Defines the state settings for the chassis.

**Syntax** DellStateSettings

Access Read-write

#### **Chassis Status**

Name chassisStatus

Object ID 1.3.6.1.4.1.674.10892.1.300.10.1.4

Description Defines the status of the chassis.

Syntax DellStatus
Access Read-only

#### Chassis Parent Index Reference

Name chassisparentIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.4

**Description** Defines the index (one-based) of the parent chassis of this

chassis, if any. A zero (0) means that this chassis is the parent of

all other chassis managed by the Server Administrator.

**Syntax** DellObjectRange

Access Read-only

# **Chassis Type**

Name chassisType

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.6

**Description** Defines the chassis type.

**Syntax** DellChassisType (See Table 5-2.)

Access Read-only

### **Chassis Name**

Name chassisName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.7

**Description** Defines the user-assigned chassis name of the chassis.

Syntax DellString
Access Read-write

#### **Chassis Manufacturer Name**

Name chassisManufacturerName
Object ID 1.3.6.1.4.1.674.10892.1.300.10.1.8

**Description** Defines the manufacturer's name for this chassis.

Syntax DellString
Access Read-only

#### **Chassis Model Name**

Name chassisModelName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.9

**Description** Defines the system model type for this chassis.

Syntax DellString
Access Read-only

# **Chassis Asset Tag Name**

Name chassisAssetTagName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.10

**Description** Defines the user-assigned asset tag name for this chassis.

 $\textbf{Syntax} \qquad \qquad DisplayString} \ (SIZE \ (0..10))$ 

Access Read-write

# **Chassis Service Tag Name**

Name chassisServiceTagName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.11

**Description** Defines the service tag name for this chassis.

Syntax DisplayString (SIZE (0..7))

#### Chassis ID

Name chassisID

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.12

**Description** Defines the asset tag name for this chassis.

**Syntax** DellUnsigned8BitRange

Access Read-only

#### Chassis ID Extension

Name chassisIDExtension

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.13

**Description** Defines the SMBIOS machine ID of this chassis.

**Syntax** DellUnsigned16BitRange

Access Read-only

# **Chassis System Class**

Name chassisSystemClass

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.14

**Description** Defines the chassis class of this chassis.

**Syntax** DellChassisSystemClass (See Table 5-21.)

**Access** Read-only

# **Chassis System Name**

Name chassisSystemName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.15

**Description** Defines the system name of this chassis.

Syntax DellString
Access Read-only

# **Chassis System Boot Date Name**

NamechassisSystemBootDateNameObject ID1.3.6.1.4.1.674.10892.1.300.10.1.16DescriptionDefines the boot time of this system.

**Syntax** DellDateName

Access Read-only

### **Chassis System Date Name**

Name chassisSystemDateName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.17

**Description** Defines the current time on this system.

**Syntax** DellDateName

Access Read-only

# **Chassis System Location Name**

 Name
 chassisSystemLocationName

 Object ID
 1.3.6.1.4.1.674.10892.1.300.10.1.18

**Description** Defines the user-assigned location for this chassis.

Syntax DellString
Access Read-write

# **Chassis System Primary User Name**

Name chassisSystemPrimaryUserName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.19

**Description** Defines the user-assigned primary user name for this chassis.

Syntax DellString
Access Read-write

# **Chassis System User Phone Number Name**

Name chassisSystemUserPhoneNumberName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.20

**Description** Defines the user-assigned phone number of the primary user of

the system.

Syntax DellString
Access Read-write

### **Chassis Connection Status Unique**

Name chassisConnectionStatusUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.21

**Description** Defines the status of the connection from the system chassis to

an expansion chassis.

**Syntax** DellConnectionStatus (See Table 5-3.)

Access Read-only

# **Chassis Fan Control Capabilities Unique**

Name chassisFanControlCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.22

**Description** Defines the capabilities of the fan control function in this chassis.

**Syntax** DellFanControlCapabilities (See Table 5-4.)

Access Read-only

# **Chassis Fan Control Settings Unique**

Name chassisFanControlSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.23

**Description** Defines the readings and settings of the fan control hardware in

the chassis.

**Syntax** DellFanControlSettings

Access Read-write

# **Chassis LED Control Capabilities Unique**

Name chassisLEDControlCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.24

**Description** Defines the capabilities of the LED control function in the chassis.

**Syntax** DellLEDControlCapabilities (See Table 5-5.)

Access Read-only

### **Chassis LED Control Settings Unique**

Name chassisLEDControlSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.25

**Description** Defines the readings and settings of the LED control hardware

in the chassis.

**Syntax** DellLEDControlSettings (See Table 5-6.)

Access Read-write

# Chassis Hard-Drive (HD) Fault Clear Control Capabilities

Name chassisHDFaultClearControlCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.26

**Description** Specifies whether the chassis allows reset of the chassis

hard-drive fault LED

**Syntax** DellHDFaultLEDControlCapabilities (See Table 5-7.)

Access Read-only

# **Chassis HD Fault Clear Control Settings**

Name chassisHDFaultClearControlSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.27

Description Allows reset of the chassis hard-drive fault LED.

Syntax DellHDFaultLEDControlSettings (See Table 5-8.)

Access Read-write

# **Chassis Identify Flash Control Capabilities**

Name chassisIdentifyFlashControlCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.28

**Description** Specifies whether the chassis front-panel LED can be set to flash.

**Syntax** DellChassisIdentifyControlCapabilities (See Table 5-9.)

Access Read-only

# **Chassis Identify Flash Control Settings**

Name chassisIdentifyFlashControlSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.29

**Description** Causes the chassis front-panel LED to flash.

**Syntax** DellChassisIdentifyControlSettings (See Table 5-10.)

Access Read-write

#### **Chassis Lock Present**

Name chassisLockPresent

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.30

**Description** Specifies whether a chassis lock is present on the chassis.

Syntax DellBoolean
Access Read-only

# **Chassis Host Control Capabilities Unique**

Name chassishostControlCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.31

**Description** Defines the capabilities of the host control object. **Syntax** DellHostControlCapabilities (See Table 5-11.)

### **Chassis Host Control Settings Unique**

Name chassishostControlSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.32

**Description** Defines the current settings of the host control object.

**Syntax** DellHostControlSettings (See Table 5-12.)

Access Read-write

### Chassis Watchdog Control Capabilities Unique

Name chassiswatchDogControlCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.33

**Description** Defines the capabilities of the watchdog timer object. **Syntax** DellWatchDogControlCapabilities (See Table 5-13.)

Access Read-only

# **Chassis Watchdog Control Settings Unique**

Name chassiswatchDogControlSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.34

**Description** Defines the current settings and the values allowed to be set for

the watchdog timer object.

**Syntax** DellWatchDogControlCapabilities (See Table 5-13.)

**Access** Read-write

# **Chassis Watchdog Control Expiry Time Capabilities Unique**

Name chassiswatchDogControlExpiryTimeCapabilities

Unique

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.35

**Description** Defines the capabilities of the watchdog expiry timer object.

**Syntax** DellWatchDogTimerCapabilities (See Table 5-13.)

# **Chassis Watchdog Control Expiry Time**

Name chassiswatchDogControlExpiryTime

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.36

**Description** Defines the current reading and allows setting of the nonrecoverable

watchdog expiry timer object.

**Syntax** DellUnsigned16BitRange

**Access** Read-write

#### Chassis Allow Set Commands From SNMP

Name chassisallowSETCommandsfromSNMP

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.37

**Description** Specifies whether Simple Network Management Protocol (SNMP)

**Set** type commands are allowed by Server Administrator.

This attribute does not reflect whether SNMP Set type commands

are allowed by the SNMP master agent.

Syntax DellBoolean
Access Read-only

# **Chassis Power Button Control Capabilities Unique**

Name chassisPowerButtonControlCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.38

**Description** Defines the capabilities of the power button control function.

**Syntax** DellPowerButtonControlCapabilities (See Table 5-16)

### **Chassis Power Button Control Settings Unique**

Name chassisPowerButtonControlSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.39

**Description** Defines the current reading and allows setting of the power button

control hardware.

**Syntax** DellPowerButtonControlSettings (See Table 5-17)

Access Read-write

#### **Chassis Reseller Name**

Name chassisResellerName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.40

**Description** Defines the name of the chassis reseller.

**Syntax** DisplayString (SIZE (0..128))

**Access** Read-only

#### Chassis Reseller Contact Information Name

Name chassisResellerContactInformationName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.41

**Description** Defines the chassis reseller contact information name.

**Syntax** DisplayString (SIZE (0..128))

Access Read-only

#### Chassis Reseller Product Name

Name chassisResellerProductName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.42

**Description** Defines the chassis reseller product name.

**Syntax** DisplayString (SIZE (0..128))

Access Read-only

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### **Chassis Reseller System ID**

 Name
 chassisResellerSystemID

 Object ID
 1.3.6.1.4.1.674.10892.1.300.10.1.43

**Description** Defines the chassis reseller system ID.

**Syntax** DellUnsigned16BitRange

Access Read-only

# **Chassis NMI Button Control Capabilities Unique**

Name chassisNMIButtonControlCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.44

**Description** Defines the capabilities of the NMI button control function.

**Syntax** DellNMIButtonControlCapabilities (See Table 5-18)

**Access** Read-only

### Chassis NMI Button Control Settings Unique

Name chassisNMIButtonControlSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.45

**Description** Defines the current reading and allows setting of the NMI button

control hardware

**Syntax** DellNMIButtonControlSettings (See Table 5-19)

Access Read-write

# **Chassis System Properties**

Name chassisSystemProperties

Object ID 1.3.6.1.4.1.674.10892.1.300.10.1.46

Description Defines the properties of the system.

Syntax DellSystemProperties (See Table 5-20)

# **Chassis System Revision Number**

Name chassisSystemRevisionNumber

**Object ID** 1.3.6.1.4.1.674.10892.1.300.10.1.47

**Description** Defines the revision number of the system where zero indicates the

original version of the system. The revision number is not available

on all systems.

**Syntax** DellUnsigned8BitRange

Access Read-only

# **Chassis System Revision Name**

Name chassisSystemRevisionName
Object ID 1.3.6.1.4.1.674.10892.1.300.10.1.48

**Description** Defines the revision name of the system, if applicable.

Syntax DellString
Access Read-only

# **UUID Table**

These objects comprise the server administrator definitions for the Universal Unique Identifier (UUID).

Name uUIDTable

**Object ID** 1.3.6.1.4.1.674.10892.1.300.20

**Description** Defines the UUID table.

**Syntax** SEQUENCE OF UUIDTableEntry

**Access** Not accessible

### **UUID Table Entry**

Name uUIDTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.300.20.1

 Description
 Defines the UUID table entry.

Syntax UUIDTableEntry
Access
Not accessible

Index uUIDIndex, uUIDchassisIndex

# **UUID Chassis Index**

Name uUIDchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.300.20.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **UUID Index**

Name uUIDIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.300.20.1.2

**Description** Defines the index of the UUID in a specified chassis.

**Syntax** DellObjectRange

Access Read-only

# **UUID Type**

Name uUIDType

**Object ID** 1.3.6.1.4.1.674.10892.1.300.20.1.3

**Description** Defines the type of the UUID for this chassis.

**Syntax** DellUUIDType

#### **UUID Value**

Name uUIDValue

**Object ID** 1.3.6.1.4.1.674.10892.1.300.20.1.4

**Description** Defines the value of the UUID for this chassis.

**Syntax** OCTET STRING (SIZE(16))

Access Read-only

# **POST Log Table**

This section defines attributes for the power-on self-test (POST) log. When you turn on your computer, the POST checks various system components before the operating system loads. The POST tests the random-access memory (RAM), the hard drives, and the keyboard, for example. While the POST is running, it makes a log file that system administrators can view. The variables in this section also contribute to managing the POST log.

Name postLogTable

 Object ID
 1.3.6.1.4.1.674.10892.1.300.30

 Description
 Defines the POST Log Table.

**Syntax** SEQUENCE OF PostLogTableEntry

Access Not accessible

# **POST Log Table Entry**

Name postLogTableEntry

 $\textbf{Object ID} \qquad 1.3.6.1.4.1.674.10892.1.300.30.1$ 

**Description** Defines the POST Log Table entry.

**Syntax** PostLogTableEntry

**Access** Not accessible

Index postLogchassisIndex, postLogRecordIndex

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### **POST Log Chassis Index**

Name postLogchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.300.30.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

# **POST Log Record Index**

Name postLogRecordIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.300.30.1.2

**Description** Defines the record number (one-based) of the POST log.

**Syntax** DellUnsigned32BitRange

Access Read-only

# **POST Log State Capabilities Unique**

Name postLogStateCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.300.30.1.3

**Description** Defines the capabilities of the object that is writing the POST log.

**Syntax** DellStateCapabilitiesLogUnique

**Access** Read-only

# **POST Log State Settings Unique**

Name postLogStateSettingsUnique

 $\textbf{Object ID} \qquad 1.3.6.1.4.1.674.10892.1.300.30.1.4$ 

**Description** Defines the state of the object that is writing the POST log.

**Syntax** DellStateSettingsLogUnique

Access Read-write

### **POST Log Record**

Name postLogRecord

**Object ID** 1.3.6.1.4.1.674.10892.1.300.30.1.5

**Description** Defines the data for the specified chassis and record index in the

POST log being returned.

**Syntax** DisplayString (SIZE (0..1024))

**Access** Read-only

### **POST Log Format**

Name postLogFormat

**Object ID** 1.3.6.1.4.1.674.10892.1.300.30.1.5

**Description** Defines format of the POST log.

**Syntax** DellLogFormat (See Table 5-1.)

**Access** Read-only

# **Event Log Table**

Name eventLogTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.300.40

 $\textbf{Description} \quad \text{Defines the Event Log Table}.$ 

**Syntax** SEQUENCE OF EventLogTableEntry

**Access** Not accessible

# **Event Log Table Entry**

Name eventLogTableEntry

 $\textbf{Object ID} \qquad 1.3.6.1.4.1.674.10892.1.300.40.1$ 

**Description** Defines the event Log Table Entry.

**Syntax** EventLogTableEntry

**Access** Not accessible

Index eventLogchassisIndex,eventLogRecordIndex

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### **Event Log Chassis Index**

Name eventLogchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.300.40.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

# **Event Log Record Index**

Name eventLogRecordIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.300.40.1.2

**Description** Defines the record index of the event log.

**Syntax** DellUnsigned32BitRange

Access Read-only

### **Event Log State Capabilities Unique**

Name eventLogStateCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.300.40.1.3

**Description** Defines the capabilities of the object that is writing the event log.

**Syntax** DellStateCapabilitiesLogUnique

**Access** Read-only

# **Event Log State Settings Unique**

Name eventLogStateSettingsUnique

 $\textbf{Object ID} \qquad 1.3.6.1.4.1.674.10892.1.300.40.1.4$ 

**Description** Defines the state settings for the object that is writing the event log.

Syntax DellStateSettingsLogUnique

Access Read-write

### **Event Log Record**

Name eventLogRecord

**Object ID** 1.3.6.1.4.1.674.10892.1.300.40.1.5

**Description** Defines the data for the specified chassis and log record index in the

event log being returned.

**Syntax** DisplayString (SIZE (0..1024))

Access Read-only

# **Event Log Format**

Name eventLogFormat

**Object ID** 1.3.6.1.4.1.674.10892.1.300.40.1.6

**Description** Defines the format of the event log.

**Syntax** DellLogFormat (See Table 5-1.)

Access Read-only

# **Event Log Severity Status**

Name eventLogSeverityStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.300.40.1.7

**Description** Defines the severity of the event log record.

**Syntax** DellStatus

Access Read-only

**Status** Mandatory

# **Event Log Date Name**

Name eventLogDateName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.40.1.8

**Description** Defines the date and time of the event log record.

**Syntax** DellDateName

Access Read-only
Status Mandatory

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# **System BIOS Table**

This table lists objects that define the system's basic input/output system (BIOS).

Name systemBIOSTable

**Object ID** 1.3.6.1.4.1.674.10892.1.300.50

**Description** Defines the System BIOS Table.

**Syntax** SEQUENCE OF SystemBIOSTableEntry

Access Not accessible

# System BIOS Table Entry

Name systemBIOSTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.300.50.1

**Description** Defines the System BIOS Table entry.

**Syntax** SystemBIOSTableEntry

**Access** Not accessible

Index systemBIOSchassisIndex,systemBIOSIndex

# **System BIOS Chassis Index**

Name systemBIOSchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.300.50.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

# System BIOS Index

Name systemBIOSIndex

 $\textbf{Object ID} \qquad 1.3.6.1.4.1.674.10892.1.300.50.1.2$ 

**Description** Defines the index (one-based) of the system BIOS of this object.

**Syntax** DellObjectRange

### System BIOS State Capabilities

Name systemBIOSStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.300.50.1.3

**Description** Defines the capabilities of the system BIOS of this object.

**Syntax** DellStateCapabilities

Access Read-only

# System BIOS State Settings

Name systemBIOSStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.300.50.1.4

**Description** Defines the state of the system BIOS of this object.

**Syntax** DellStateSettings

Access Read-write

# System BIOS Status

Name systemBIOSStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.300.50.1.5

**Description** Defines the status of the system BIOS of this object.

Syntax DellStatus
Access Read-only

# System BIOS Size

Name systemBIOSSize

**Object ID** 1.3.6.1.4.1.674.10892.1.300.50.1.6

**Description** Defines the image size of the system BIOS in kilobytes (KB).

A zero (0) indicates that the image size of the BIOS is unknown.

**Syntax** DellUnsigned32BitRange

Access Read-only

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### System BIOS Release Date Name

Name systemBIOSReleaseDateName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.50.1.7

**Description** Defines the release date of the system BIOS.

**Syntax** DellDateName

Access Read-only

# **System BIOS Version Name**

Name systemBIOSVersionName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.50.1.8

**Description** Defines the version name of the system BIOS.

Syntax DellString
Access Read-only

### System BIOS Starting Address

Name systemBIOSStartingAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.300.50.1.9

**Description** Defines the starting address of the system BIOS. A zero (0) indicates

that the address is unknown.

Syntax DellUnsigned64BitRange

Access Read-only

# System BIOS Ending Address

Name systemBIOSEndingAddress

 $\textbf{Object ID} \qquad 1.3.6.1.4.1.674.10892.1.300.50.1.10$ 

**Description** Defines the ending address of the system BIOS. A zero (0) indicates

that the address is unknown.

**Syntax** DellUnsigned64BitRange

### System BIOS Manufacturer Name

Name systemBIOSManufacturerName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.50.1.11

**Description** Defines the system BIOS manufacturer's name.

Syntax DellString
Access Read-only

### System BIOS Characteristics

Name systemBIOSCharacteristics

**Object ID** 1.3.6.1.4.1.674.10892.1.300.50.1.12

**Description** Defines characteristics of the system BIOS. This attribute is a bit

field where a bit has the meaning defined below when set to 1 (one). Bit 63 is the first bit in the value, and bit 0 is the last bit in the value. See the description of DellUnsigned64BitRange at the beginning of

this file for more information on the format of the value.

Bits 48-63 need to be examined in the context of the system ID. The system ID is available in the attribute chassisID. If the value for chassisID is non-zero, bits 48-63 have the meaning defined below:

Bit Position Meaning if Set

D. OD 1

Bit 0Reserved Bit 1Reserved Bit 2Unknown

Bit 3BIOS Characteristics Not Supported

Bit 4ISA is supported Bit 5MCA is supported Bit 6EISA is supported Bit 7PCI is supported

Bit 8PC Card (PCMCIA) is supported

Bit 9Plug and Play is supported

Bit 10APM is supported

Bit 11BIOS is Upgradeable (Flash) Bit 12BIOS shadowing is allowed Bit 13VL-VESA is supported Bit 14ESCD support is available Bit 15Boot from CD is supported

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Name systemBIOSCharacteristics

**Description** Bit Position Meaning if Set

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Bit 16Selectable Boot is supported

Bit 17BIOS ROM is socketed

Bit 18Boot From PC Card (PCMCIA) is supported

Bit 19EDD (Enhanced Disk Drive) Specification is supported

Bit 20Int 13h - Japanese Floppy for NEC 9800 1.2mb (3.5 in,

1k Bytes/Sector, 360 RPM) is supported

Bit 21Int 13h - Japanese Floppy for Toshiba 1.2mb (3.5 in,

360 RPM) is supported

Bit 22Int 13h - 5.25 in / 360 KB Floppy Services are supported

Bit 23Int 13h - 5.25 in /1.2MB Floppy Services are supported

Bit 24Int 13h - 3.5 in / 720 KB Floppy Services are supported

Bit 25Int 13h - 3.5 in / 2.88 MB Floppy Services are supported

Bit 26Int 5h, Print Screen Service is supported

Bit 27Int 9h, 8042 Keyboard services are supported

Bit 28Int 14h, Serial Services are supported

Bit 29Int 17h, Printer Services are supported

Bit 30Int 10h, CGA/Mono Video Services are supported

Bit 31NEC PC-98

Bit 32-47Reserved Bit 48Built-in NIC supports Magic Packet

Bit 49System supports Wake-on-LAN

Bit 50System supports chassis intrusion

Bit 51Built-in NIC supports pattern-matching

Bit 52System BIOS supports a 7-character service tag

Bit 53-63Reserved

**Syntax** DellUnsigned64BitRange

### System BIOS Characteristics Ext 1

Name systemBIOSCharacteristicsExt1

**Object ID** 1.3.6.1.4.1.674.10892.1.300.50.1.13

**Description** Defines additional characteristics of the system basic input/output

system (BIOS). This attribute is a bit field where a bit has the

meaning defined below when set to 1 (one).

Bit Position Meaning if Set

Bit 0ACPI supported

Bit 1USB Legacy is supported Bit 2AGP is supported Bit 3I2O boot is supported Bit 4LS-120 boot is supported

Bit 5ATAPI ZIP Drive boot is supported

Bit 61394 boot is supported Bit 7Smart Battery supported

**Syntax** DellUnsigned8BitRange

Access Read-only

# System BIOS Characteristics Ext 2

Name systemBIOSCharacteristicsExt2

Object ID 1.3.6.1.4.1.674.10892.1.300.50.1.14

**Description** Defines additional characteristics of the system BIOS.

This attribute is a bit field where a bit has the meaning defined

below when set to 1 (one). Bit Position Meaning if Set

Bit OBIOS Boot Specification supported

Bit 1Function key-initiated Network Service boot supported

Bit 2Targeted Content Distribution supported

Bit 3-7Reserved

**Syntax** DellUnsigned8BitRange

# **Firmware Table**

Name firmwareTable

**Object ID** 1.3.6.1.4.1.674.10892.1.300.60 **Description** Defines the Firmware Table.

**Syntax** SEQUENCE OF Firmware Table Entry

**Access** Not accessible

### Firmware Table Entry

Name firmwareTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.300.60.1

**Description** Defines the Firmware Table entry.

**Syntax** FirmwareTableEntry

**Access** Not accessible

**Index** firmwarechassisIndex, firmwareIndex

#### Firmware Chassis Index

Name firmwarechassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.300.60.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### Firmware Index

Name firmwareIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.300.60.1.2

**Description** Defines the index (one-based) of the firmware in this chassis.

**Syntax** DellObjectRange

# **Firmware State Capabilities**

Name firmwareStateCapabilities
ObjectID 1.3.6.1.4.1.674.10892.1.300.60.1.3

**Description** Defines the capabilities of the firmware states.

**Syntax** DellStateCapabilities

**Access** Read-only

# Firmware State Capabilities

Name firmwareStateCapabilities

Object ID 1.3.6.1.4.1.674.10892.1.300.60.1.4

**Description** Defines the state of the firmware and allows for the setting of the

firmware.

**Syntax** DellStateSettings

Access Read-write

#### **Firmware Status**

Name firmwareStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.300.60.1.5 **Description** Defines the status of the firmware.

**Syntax** DellStateSettings

Access Read-only

#### Firmware Size

Name firmwareSize

**Object ID** 1.3.6.1.4.1.674.10892.1.300.60.1.6

**Description** Defines the image size of the firmware in KB. A zero (0) indicates

that the size is unknown.

**Syntax** DellUnsigned16BitRange

**Access** Read-only

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# Firmware Type

Name firmwareType

**Object ID** 1.3.6.1.4.1.674.10892.1.300.60.1.7 **Description** Defines the type of the firmware.

**Syntax** DellFirmwareType

Access Read-only

# **Firmware Type Name**

Name firmwareTypeName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.60.1.8 **Description** Defines the name of firmware type.

Syntax DellString
Access Read-only

# **Firmware Update Capabilities**

Name firmwareUpdateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.300.60.1.9

**Description** Defines the bitmap of supported methods for firmware update.

**Syntax** DellUnsigned16BitRange

Access Read-only

#### **Firmware Date Name**

Name firmwareDateName

 $\textbf{Object ID} \qquad 1.3.6.1.4.1.674.10892.1.300.60.1.10$ 

**Description** Defines the date of the firmware.

**Syntax** DellDateName

#### **Firmware Version Name**

Name firmwareVersionName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.60.1.11

Defines the version name of the firmware. Description

Syntax DellString Access Read-only

# **Intrusion Table**

The following objects and attributes describe the different forms of chassis intrusion, a situation that occurs when the cover of a computer is removed.

Name intrusionTable

**Object ID** 1.3.6.1.4.1.674.10892.1.300.70 Defines the Intrusion Table. Description

SEQUENCE OF IntrusionTableEntry

Syntax

Access Not accessible

# **Intrusion Table Entry**

Name intrusionTableEntry

1.3.6.1.4.1.674.10892.1.300.70.1 Object ID

Description Defines the Intrusion Table entry.

Syntax IntrusionTableEntry

Access Not accessible

intrusionchassisIndex, intrusionIndex Index

# Intrusion Chassis Index

Name intrusionchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.300.70.1.1

Description Defines the index (one-based) of this chassis.

Syntax DellObjectRange

#### Intrusion Index

Name intrusionIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.300.70.1.2

**Description** Defines the index of the intrusion objects in this subgroup.

**Syntax** DellObjectRange

Access Read-only

# **Intrusion State Capabilities**

Name intrusionStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.300.70.1.3

**Description** Defines the capabilities of the intrusion object.

**Syntax** DellStateCapabilities

Access Read-only

### **Intrusion State Settings**

Name intrusionStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.300.70.1.4

**Description** Defines the settings of the intrusion object.

**Syntax** DellStateSettings

**Access** Read-write

#### **Intrusion Status**

Name intrusionStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.300.70.1.5

**Description** Defines the status of the intrusion object.

Syntax DellStatus
Access Read-only

### **Intrusion Reading**

Name intrusionReading

**Object ID** 1.3.6.1.4.1.674.10892.1.300.70.1.6

**Description** Defines the reading of the intrusion object.

**Syntax** DellIntrusionReading

Access Read-only

# **Intrusion Type**

Name intrusionType

**Object ID** 1.3.6.1.4.1.674.10892.1.300.70.1.7

**Description** Defines the type of the intrusion object.

**Syntax** DellIntrusionType

Access Read-only

### **Intrusion Location Name**

Name intrusionLocationName

 $\textbf{Object ID} \qquad 1.3.6.1.4.1.674.10892.1.300.70.1.8$ 

**Description** Defines the location name of the intrusion object in this subgroup.

Syntax DellString
Access Read-only

# **Baseboard Table**

This table lists objects that define the baseboard of a system.

Name baseBoardTable

 Object ID
 1.3.6.1.4.1.674.10892.1.300.80

 Description
 Defines the Baseboard Table.

**Syntax** SEQUENCE OF BaseBoardTableEntry

**Access** Not accessible

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# **Baseboard Table Entry**

Name baseBoardTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.300.80.1

**Description** Defines the Baseboard Table entry.

**Syntax** BaseBoardTableEntry

**Access** Not accessible

Index baseBoardChassisIndex, baseBoardIndex

#### **Baseboard Chassis Index**

Name baseBoardChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.300.80.1.1

**Description** Defines the index (one-based) of the associated chassis.

**Syntax** DellObjectRange

Access Read-only

#### **Baseboard Index**

Name baseBoardIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.300.80.1.2

**Description** Defines the index (one-based) of the base board.

**Syntax** DellObjectRange

Access Read-only

# **Baseboard State Capabilities**

Name baseBoardStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.300.80.1.3

**Description** Defines the state capabilities of the baseboard.

**Syntax** DellStateCapabilities

# **Baseboard State Settings**

Name baseBoardStateSettings
Object ID 1.3.6.1.4.1.674.10892.1.300.80.1.4

**Description** Defines the state settings of the baseboard.

**Syntax** DellStateSettings

Access Read-write

#### **Baseboard Status**

Name baseBoardStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.300.80.1.5 **Description** Defines the status of the baseboard.

Syntax DellStatus
Access Read-only

# **Baseboard Feature Flags**

Name baseBoardFeatureFlags

 $\textbf{Object ID} \qquad 1.3.6.1.4.1.674.10892.1.300.80.1.6$ 

**Description** Defines the features of the baseboard.

**Syntax** DellBaseBoardFeatureFlags

Access Read-only

# **Baseboard Type**

Name baseBoardType

 $\begin{array}{ll} \textbf{Object ID} & 1.3.6.1.4.1.674.10892.1.300.80.1.7 \\ \textbf{Description} & Defines the type of the baseboard. \\ \end{array}$ 

**Syntax** DellBaseBoardType

Access Read-only

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# **Baseboard Type Name**

Name baseBoardTypeName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.80.1.8

**Description** Defines the name of the type of baseboard.

Syntax DellString
Access Read-only

### **Baseboard Location Name**

Name baseBoardLocationName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.80.1.9

**Description** Defines the location name of the baseboard.

Syntax DellString
Access Read-only

### **Baseboard Manufacturer Name**

Name baseBoardManufacturerName

 $\textbf{Object ID} \qquad 1.3.6.1.4.1.674.10892.1.300.80.1.10$ 

**Description** Defines the baseboard manufacturer's name.

Syntax DellString
Access Read-only

#### **Baseboard Product Name**

Name baseBoardProductName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.80.1.11

**Description** Defines the baseboard product's name.

Syntax DellString
Access Read-only

#### **Baseboard Version Name**

Name baseBoardVersionName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.80.1.12

**Description** Defines the baseboard version name.

Syntax DellString
Access Read-only

#### **Baseboard Service Tag Name**

Name baseBoardServiceTagName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.80.1.13

**Description** Defines the baseboard service tag name.

Syntax DellString
Access Read-only

### **Baseboard Piece Part ID (PPID) Name**

Name baseBoardPiecePartIDName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.80.1.14

**Description** Defines the baseboard PPID.

Syntax DellString
Access Read-only

# **Baseboard Asset Tag Name**

Name baseBoardAssetTagName

**Object ID** 1.3.6.1.4.1.674.10892.1.300.80.1.15

**Description** Defines the baseboard asset tag name.

Syntax DellString
Access Read-only

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# **Chassis Information Group Variable Values**

This section includes definitions for server administrator-specific variable values used in this section.

Table 5-1. Log Format

Variable Name: DellLogFormat

Data Type: Integer

Possible Data Values	Meaning of Data Value
raw(1)	The log is in the format received from the firmware.
ascii(2)	The log is in ASCII format.
uniCode(3)	The log is in Unicode format.

Table 5-2. Chassis Type

Variable Name: DellChassisType

Data Type: Integer

Possible Data Values	Meaning of Data Value
other(1)	The chassis type is not one of the following:
unknown(2)	The chassis type is unknown.
desktop(3)	The chassis type is a desktop.
lowProfileDesktop(4)	The chassis type is a low-profile desktop.
pizzaBox(5)	The chassis type is a pizza box.
miniTower(6)	The chassis type is a minitower.
tower(7)	The chassis type is a tower.
portable(8)	The chassis type is a portable.
lapTop(9)	The chassis type is a laptop.
noteBook(10)	The chassis type is a notebook.
handHeld(11)	The chassis type is a handheld.
dockingStation(12)	The chassis type is a docking station.
allInOne(13)	The chassis type is an all-in-one.

Table 5-2. Chassis Type (continued)

Variable Name: DellChassisType

Data Type: Integer

Possible Data Values	Meaning of Data Value
subNoteBook(14)	The chassis type is a subnotebook.
spaceSaving(15)	The chassis type is a spacesaver.
lunchBox(16)	The chassis type is a lunch box.
mainSystemChassis(17)	The chassis type is the main system chassis.
expansionChassis(18)	The chassis type is an expansion chassis.
subChassis(19)	The chassis type is a subchassis.
busExpansionChassis(20)	The chassis type is a bus-expansion chassis.
peripheralChassis(21)	The chassis type is a peripheral chassis.
raidChassis(22)	The chassis type is a disk RAID chassis.
rackMountChassis(23)	The chassis type is a rack-mounted chassis.
sealedCasePC(24)	The chassis type is a sealed-case chassis.
multiSystemChassis(25)	The chassis type is a multisystem chassis.

Table 5-3. Connection Status

Variable Name: DellConnectionStatus

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(2)	The status of the chassis connection is unknown.
ok(3)	The status of the chassis connection is OK.
failure(4)	The status of the chassis connection is failure.

Table 5-4. Fan Control Capabilities

Variable Name: DellFanControlCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(1)	The fan's capabilities are unknown.
lowSpeedCapable(2)	The fan can be set to low speed.
highSpeedCapable(4)	The fan can be set to high speed.
lowOrHighSpeedCapable(6)	The fan can be set to low or high speed.

Table 5-5. Front-Panel LED Control Capabilities

Variable Name: DellLEDControlCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(1)	The LED control capabilities are unknown.
alertOnErrorCapable(2)	The LED control can be set to alert on an error condition.
<pre>alertOnWarningAndErrorCap able(4)</pre>	The LED control can be set to alert on an error and a warning condition.
alertOnWarningOrErrorCapa ble(6)	The LED control can be set to alert on an error or a warning condition.

Table 5-6. Front-Panel LED Control Settings

Variable Name: DellLEDControlSettings

Possible Data Values	Meaning of Data Value
unknown(1)	The LED control setting is unknown.
alertOnError(2)	The LED control is set to alert on an error condition.
alertOnWarningAndError(4)	The LED control is set to alert on an error or a warning condition.

Table 5-7. Hard-Drive Fault LED Control Capabilities

Variable Name: DellHDFaultLEDControlCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The hard drive has no fault LED capabilities.
unknownCapabilities(1)	The hard-drive fault LED capabilities are unknown.
enableCapable(2)	The hard-drive fault LED can be disabled (offline, a binary 0 value) or enabled (online, a binary 1 value).
notReadyCapable(4)	The hard-drive fault LED can indicate not ready.
resetCapable(8)	The hard-drive fault LED can be reset.

Table 5-8. Hard-Drive Fault LED Control Settings

Variable Name: DellHDFaultLEDControlSettings

Possible Data Values	Meaning of Data Value
none(0)	The LEDs do not have any fault settings capabilities.
unknown(1)	The hard-drive fault LEDs' state is unknown.
enabled(2)	The hard-drive fault LEDs' state is disabled (offline, a binary 0 value) or enabled (online, a binary 1 value).
notReady(4)	The hard-drive fault LEDs' state is not ready.
reset(8)	The hard-drive fault LEDs have been reset.
resetAndEnable(10)	The hard-drive fault LEDs have been reset and enabled.

Table 5-9. Chassis Identification Control Capabilities

Variable Name: DellChassisIdentifyControlCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The LEDs do not have any chassis identification capabilities.
unknownCapabilities(1)	The chassis identification control's capabilities are unknown.
enableCapable(2)	The chassis identification controls can be disabled (offline, a binary 0 value) or enabled (online, a binary 1 value).
notReadyCapable(4)	The chassis identification control's capabilities are not ready.
identifyCapable(8)	The chassis identification control's LEDs can be made to identify the chassis.

**NOTE:** Chassis identification capabilities allow system administrators to set front panel light-emitting diodes (LEDs) to blink when the chassis has malfunctioning components. When enabled, the blinking lights help administrators locate the problem chassis.

Table 5-10. Chassis Identification Control Settings

Variable Name: DellChassisIdentifyControlSettings

Possible Data Values	Meaning of Data Value
unknown(1)	The chassis identification control's state is unknown.
enabled(2)	The chassis identification control's state is disabled (offline, a binary 0 value) or enabled (online, a binary 1 value).
notReady(4)	The chassis identification control's state is not ready.

Table 5-10. Chassis Identification Control Settings (continued)

Variable Name: DellChassisIdentifyControlSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value	
identifyChassis(8)	The chassis identification control's LEDs may be returned to (normal) 0, or (identify chassis) 1.	
identifyChassisAndEnable (10)	The chassis identification control's LEDs may be returned to normal (a binary 0 value), or identify chassis and enabled (a binary 1 value).	

Table 5-11. Host Control Capabilities

Variable Name: DellHostControlCapabilities

**NOTE:** An operator can manually cause these actions using SNMP.

Possible Data Values	Meaning of Data Value
manualRebootCapable(1)	The operator can reboot capable host.
manualPowerOFFCapable(2)	The operator can power off capable host.
manualPowerCycleCapable(4)	The operator can power-cycle capable host.
manualAllExceptOperating SystemShutdownCapable(7)	The operator can reboot and power off capable host.
<pre>manualOperatingSystemShut downCapable(8)</pre>	The operator can shut down the operating-system–shutdown capable host.
manualFullyCapable(15)	The operator can reboot, power on and off the power-cycle capable host, and shut down the operating-system—shutdown capable host.

Table 5-12. Host Control Settings

Variable Name: DellHostControlSettings

NOTE: An operator can manually cause these actions using SNMP.

Data Type: Integer

Possible Data Values	Meaning of Data Value
manualReboot(1)	The operator can reboot the host.
manualPowerOFF(2)	The operator can power off the host.
manualPowerCycle(4)	Power cycle the host.
manualOperatingSystemShutdown(8)	The operator can shut down the operating system on the host.
manualOperatingSystemShutdownThenReboot(9)	The operator can shut down the operating system on the host then reboot.
manualOperatingSystemShutdownThenPowerOFF(10)	The operator can shut down the operating system on the host then power off machine.
manualOperatingSystemShutdownThenPowerCycle(12)	The operator can shut down the operating system on the host then power cycle machine.

#### Table 5-13. Watchdog Control Capabilities

Variable Name: DellWatchDogControlCapabilities

**NOTE:** When the system determines that the operating system is not responding, it will automatically perform the selected action without operator intervention.

Possible Data Values	Meaning of Data Value
<pre>automaticRebootCapable(1)</pre>	Watchdog controls can be set to reboot capable host.
automaticPowerCycleCapable(2)	Watchdog controls can be set to power cycleable capable host.
automaticNotificationCapable(4)	Watchdog controls can be set to notify capable host.

Table 5-13. Watchdog Control Capabilities (continued)

Variable Name: DellWatchDogControlCapabilities

**NOTE**: When the system determines that the operating system is not responding, it will automatically perform the selected action without operator intervention.

Data Type: Integer

Possible Data Values	Meaning of Data Value
automaticWatchDogTimerCapable(8)	Watchdog controls can be set to function automatically.
automaticPowerOffCapable(16)	Watchdog controls can be set to automatically power off host.
automaticAllExceptNotificationCap able(27)	Watchdog controls can be set to automatically perform all functions except notification capable.
automaticFullyCapable(31)	Watchdog controls can be set to automatically perform all functions.

## Table 5-14. Watchdog Control Settings

Variable Name: DellWatchControlSettings

**NOTE:** The watchdog timer is the mechanism used by a chassis to determine if the operating system has stopped responding.

Possible Data Values	Meaning of Data Value
<pre>automaticRebootEnabled(1)</pre>	Automatic reboot is enabled for this host.
<pre>automaticPowerCycleEnabled(2)</pre>	Automatic power cycleable is enabled for this host.
<pre>automaticNotificationEnabled(4)</pre>	Automatic notification is enabled for this host.
automaticPowerOffEnabled(8)	Automatic power off is enabled for this host.

Table 5-15. Watchdog Timer Capabilities

Variable Name: DellWatchDogTimerCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
typelCapable(1)	Watchdog timer can time in intervals from 20–480 seconds.
type2Capable(2)	Watchdog timer can time in 30-, 60-, 120-, and 480-second intervals.
type3Capable(4)	Watchdog timer can time in 60-second intervals.

**Table 5-16. Power Button Control Capabilities** 

Variable Name: DellPowerButtonControlCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The power button has no capabilities.
unknownCapabilities(1)	The power button capabilities are unknown.
enableCapable(2)	The power button can be enabled (online) or disabled (offline).

Table 5-17. Power Button Control Settings

Variable Name: DellPowerButtonControlSettings

Possible Data Values	Meaning of Data Value
none(0)	The power button has no settings capabilities.
unknown(1)	The power button settings are unknown.
enabled(2)	The power button state is enabled.
disabled(4)	The power button state is disabled.

Table 5-18. NMI Button Control Capabilities

Variable Name: DellNMIButtonControlCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The NMI button has no capabilities.
unknownCapabilities(1)	The NMI button capabilities are unknown.
enableCapable(2)	The NMI button can be enabled (online) or disabled (offline).

Table 5-19. NMI Button Control Settings

Variable Name: DellnMIButtonControlSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The NMI button has no settings capabilities.
unknown(1)	The NMI button settings are unknown.
enabled(2)	The NMI button state is enabled.
disabled(4)	The NMI button state is disabled.

#### Table 5-20. System Properties

Variable Name: DellSystemProperties

**NOTE:** These values are bit masks, so combination values are possible.

Possible Data Values	Meaning of Data Value
none(0)	No properties.
energySmart(1)	The system is an Energy Smart System.

Table 5-21. Chassis System Class

Variable Name: DellChassisSystemClass

Data Type: Integer

Possible Data Values	Meaning of Data Value
other(1)	The chassis system class is not one of the following:
unknown(2)	The chassis system class is unknown.
workstationClass(3)	The chassis system class is a workstation.
serverClass(4)	The chassis system class is a server.
desktopClass(5)	The chassis system class is a desktop.
portableClass(6)	The chassis system class is a portable.
netPCClass(7)	The chassis system class is a "Net PC."
storageClass(8)	The chassis system class is storage.

Table 5-22. Firmware Type

Variable Name: DellFirmwareType

Possible Data Values	Meaning of Data Value
other(1)	The firmware type is other than following values.
unknown(2)	The firmware type is unknown.
systemBIOS(3)	The firmware type is System BIOS
<pre>embeddedSystemManagementContro ller(4)</pre>	The firmware type is Embedded System Management Controller.
powerSupplyParallelingBoard(5)	The firmware type is Power Supply Paralleling Board.
systemBackPlane(6)	The firmware type is System (Primary) Backplane.
powerVault2XXSKernel(7)	The firmware type is Dell™ PowerVault™ 2XXS Kernel.
powerVault2XXSApplication(8)	The firmware type is PowerVault 2XXS Application.

Table 5-22. Firmware Type (continued)

Variable Name: DellFirmwareType

Data Type: Integer

Possible Data Values	Meaning of Data Value
frontPanel(9)	The firmware type is Front Panel Controller.
baseboardManagementController (10)	The firmware type is Baseboard Management Controller.
hotPlugPCI(11)	The firmware type is Hot Plug Peripheral Component Interconnect (PCI) Controller.
sensorData(12)	The firmware type is Sensor Data Records.
peripheralBay(13)	The firmware type is Peripheral Bay Backplane.
secondaryBackPlane(14)	The firmware type is Secondary Backplane for ESM 2 systems.
secondaryBackPlaneESM3And4(15)	The firmware type is Secondary Backplane for ESM 3 and 4 systems.
rac(16)	The firmware type is Remote Access Controller.
iDRAC(17)	The firmware type is Integrated Dell Remote Access Controller.

# Table 5-23. Baseboard Type

Variable Name: DellBaseBoardType

Possible Data Values	Meaning of Data Value
unknown(1)	The baseboard type is unknown.
other(2)	The baseboard type is not one of the following types.
serverBlade(3)	The baseboard type is a server blade.

Table 5-23. Baseboard Type (continued)

Variable Name: DellBaseBoardType

Data Type: Integer

Possible Data Values	Meaning of Data Value
connectivitySwitch(4)	The baseboard type is a connectivity switch.
systemManagementModule(5)	The baseboard type is a system management module.
processorModule(6)	The baseboard type is a processor module.
ioModule(7)	The baseboard type is an I/O module.
memoryModule(8)	The baseboard type is a memory module
daughterBoard(9)	The baseboard type is a daughter board.
motherboard(10)	The baseboard type is a mother board.
processorMemoryModule(11)	The baseboard type is a processor or memory module
processorIOModule(12)	The baseboard type is a processor or I/O module
interconnectBoard(13)	The baseboard type is an interconnect board.

Table 5-24. Baseboard Feature Flags

Variable Name: DellBaseBoardFeatureFlags

Possible Data Values	Meaning of Data Value
<b>NOTE:</b> These values are bit fields, so co	ombination values are possible.
no features(0)	This baseboard has no feature flags.
boardIsHostingBoard(1)	This baseboard is a hosting board.
boardRequiresDaughterBoard (2)	This baseboard requires at least one daughter board or auxiliary card.
boardIsRemovable(4)	This baseboard is removable.
boardIsReplaceable(8)	This baseboard is replaceable.
boardIsHotSwappable(16)	This baseboard is hot swappable.
boardIsRemovable(4) boardIsReplaceable(8)	This baseboard is removable.  This baseboard is replaceable.

# **Operating System Group**

The Operating System Group provides status and identifying information about a system's operating system. Identifying information includes the name, version, service pack, and patch level of the installed operating system.

# **Operating System Group Table**

The following management information base (MIB) tables define the objects in the Operating System Group:

- Operating System Table
- Operating System Memory Table

# **Operating System Table**

The following object sets up the Operating System Table.

Name operatingSystemTable
Object ID 1.3.6.1.4.1.674.10892.1.400.10

**Description** Defines the Operating System Table.

SYNTAX SEQUENCE OF OperatingSystemTableEntry

**Access** Not accessible

# **Operating System Table Entry**

Name operatingSystemTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.400.10.1

**Description** Defines the Operating System Table entry.

Syntax OperatingSystemTableEntry

Access Not accessible

Index operatingSystemchassisIndex

#### **Operating System Chassis Index**

Name operatingSystemchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.400.10.1.1

**Description** Defines the index (one-based) of the associated chassis.

**Syntax** DellObjectRange

Access Read-only

#### **Operating System State Capabilities**

Name operatingSystemStateCapabilities

**Object ID** 1,3.6.1.4.1.674.10892.1.400.10.1.2

**Description** Defines the capabilities of the operating system.

Syntax DellStateCapabilities

Access Read-only

#### **Operating System State Settings**

Name operatingSystemStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.400.10.1.3

**Description** Defines the state of the operating system.

Syntax DellStateSettings

Access Read-write

# **Operating System Status**

Name operatingSystemStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.400.10.1.4

**Description** Defines the status of the operating system.

Syntax DellStatus
Access Read-only

#### **Operating System Is Primary**

Name operatingSystemIsPrimary
ObjectID 1.3.6.1.4.1.674.10892.1.400.10.1.5

**Description** Specifies whether this operating system is the primary operating

system.

Syntax DellBoolean
Access Read-only

#### **Operating System Name**

Name operatingSystemOperatingSystemName

**Object ID** 1.3.6.1.4.1.674.10892.1.400.10.1.6

**Description** Defines the name of the operating system running on the system.

**Syntax** DisplayString (SIZE (0..255))

Access Read-only

# **Operating System Version Name**

Name operatingSystemOperatingSystemVersionName

**Object ID** 1.3.6.1.4.1.674.10892.1.400.10.1.7

**Description** Defines the version of the operating system running on the

system.

**Syntax** DisplayString (SIZE (0..255))

Access Read-only

# **Operating System Memory Table**

Name operatingSystemMemoryTable

**Object ID** 1.3.6.1.4.1.674.10892.1.400.20

**Description** Defines the Operating System Memory Table.

**Syntax** SEQUENCE OF OperatingSystemMemoryTableEntry

Access Not accessible

#### **Operating System Memory Table Entry**

Name operatingSystemTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.400.20.1

**Description** Defines the Operating System Memory Table entry.

**Syntax** OperatingSystemMemoryTableEntry

**Access** Not accessible

Index operatingSystemMemorychassisIndex

#### **Operating System Memory Chassis Index**

Name operatingSystemMemorychassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.400.20.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

# **Operating System Memory State Capabilities**

Name operatingSystemMemoryStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.400.20.1.2

**Description** Defines the capabilities of the operating system memory.

Syntax DellStateCapabilities

Access Read-only

# **Operating System Memory State Settings**

Name operatingSystemMemoryStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.400.20.1.3

**Description** Defines the state and allows the setting of the operating system

memory.

Syntax DellStateSettings

**Access** Read-write

#### **Operating System Memory Status**

Name operatingSystemMemoryStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.400.20.1.4

**Description** Defines the status of the operating system memory.

Syntax DellStatus
Access Read-only

#### **Operating System Memory Total Physical Size**

Name operatingSystemMemoryTotalPhysicalSize

**Object ID** 1.3.6.1.4.1.674.10892.1.400.20.1.5

**Description** Defines the total physical memory size in bytes.

**Syntax** DellUnsigned32BitRange

Access Read-only

#### Operating System Memory Available Physical Size

Name operatingSystemMemoryAvailablePhysicalSize

**Object ID** 1.3.6.1.4.1.674.10892.1.400.20.1.6

**Description** Defines the available physical memory size in bytes.

**Syntax** DellUnsigned32BitRange

Access Read-only

# **Operating System Memory Total Page File Size**

Name operatingSystemMemoryTotalPageFileSize

**Object ID** 1.3.6.1.4.1.674.10892.1.400.20.1.7

**Description** Defines the total page file memory size in bytes.

**Syntax** DellUnsigned32BitRange

#### **Operating System Memory Available Page File Size**

Name operatingSystemMemoryAvailablePageFileSize

**Object ID** 1.3.6.1.4.1.674.10892.1.400.20.1.8

**Description** Defines the available page file memory size in bytes.

**Syntax** DellUnsigned32BitRange

Access Read-only

#### **Operating System Memory Total Virtual Size**

Name operatingSystemMemoryTotalVirtualSize

**Object ID** 1.3.6.1.4.1.674.10892.1.400.20.1.9

**Description** Defines the total virtual memory size in bytes.

**Syntax** DellUnsigned32BitRange

Access Read-only

#### **Operating System Memory Available Virtual Size**

Name operatingSystemMemoryAvailableVirtualSize

**Object ID** 1.3.6.1.4.1.674.10892.1.400.20.1.10

**Description** Defines the available virtual memory size in bytes.

**Syntax** DellUnsigned32BitRange

# System Resource Group

The Management Information Base (MIB) variables presented in this section enable you to track various attributes of your system resources. This section includes System Resource Group Tables that track variables such as the owner, ports, system memory, interrupts, and direct memory access.

# **System Resource Group Tables**

The following MIB tables define objects for the System Resource Group:

- System Resource Map Table
- System Resource Owner Table
- System Resource Input/Output (I/O) Port Table
- System Resource Memory Table
- System Resource Interrupt Table
- System Resource Direct Memory Access (DMA) Table

# **System Resource Map Table**

Name systemResourceMapTable
ObjectID 1.3.6.1.4.1.674.10892.1.500.10

**Description** Defines the System Resource Map Table.

**Syntax** SEQUENCE OF SystemResourceMapTableEntry

Access Not accessible

#### System Resource Map Table Entry

Name systemResourceMapTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.500.10.1

**Description** Defines the System Resource Map Table entry.

**Syntax** SystemResourceMapTableEntry

**Access** Not accessible

Index systemResourceMapchassisIndex, systemResourceMapIndex

### System Resource Map Chassis Index

Name systemResourceMapChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.500.10.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### System Resource Map Index

Name systemResourceMapIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.500.10.1.2

**Description** Defines the index of system resource maps in this chassis.

**Syntax** DellObjectRange

Access Read-only

# System Resource Map State Capabilities

Name systemResourceMapStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.500.10.1.3

**Description** Defines the capabilities of this system map.

Syntax DellStateCapabilities

Access Read-only

1

#### **System Resource Map State Settings**

Name systemResourceMapStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.500.10.1.4

**Description** Defines the state and allows the setting of this system map.

**Syntax** DellStateSettings

Access Read-write

#### System Resource Map Status

Name systemResourceMapStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.500.10.1.5

**Description** Defines the status of this system map.

Syntax DellStatus
Access Read-only

# System Resource Map Type

Name systemResourceMapType

**Object ID** 1.3.6.1.4.1.674.10892.1.500.10.1.6

**Description** Defines the type of this system map.

**Syntax** DellSystemResourceMapType (See Table 7-1.)

Access Read-only

# **System Resource Owner Table**

Name systemResourceOwnerTable

**Object ID** 1.3.6.1.4.1.674.10892.1.500.20

**Description** Defines the System Resource Owner Table.

**Syntax** SEQUENCE OF SystemResourceOwnerTableEntry

**Access** Not accessible

#### **System Resource Owner Table Entry**

Name systemResourceOwnerTable
Object ID 1.3.6.1.4.1.674.10892.1.500.20.1

**Description** Defines the System Resource Owner Table entry. Variables in

this group reference the System Resource Map index.

**Syntax** SystemResourceOwnerTableEntry

**Access** Not accessible

**Index** systemResourceOwnerchassisIndex,

systemResourceOwnerIndex

#### **System Resource Owner Chassis Index**

Name systemResourceOwnerchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.500.20.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

# System Resource Owner Index

Name systemResourceOwnerIndex
Object ID 1.3.6.1.4.1.674.10892.1.500.20.1.2

**Description** Defines the index of system resource owners for this chassis.

**Syntax** DellObjectRange

Access Read-only

# **System Resource Owner State Capabilities**

Name systemResourceOwnerStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.500.20.1.3

**Description** Defines the capabilities of this system resource owner.

Syntax DellStateCapabilities

#### **System Resource Owner State Settings**

Name systemResourceOwnerStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.500.20.1.4

**Description** Defines the state settings of this system resource owner.

**Syntax** DellStateSettings

Access Read-write

#### **System Resource Owner Status**

Name systemResourceOwnerStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.500.20.1.5

**Description** Defines the status of this system resource owner.

Syntax DellStatus
Access Read-write

#### System Resource Owner Interface Type

Name systemResourceOwnerInterfaceType

**Object ID** 1.3.6.1.4.1.674.10892.1.500.20.1.6

**Description** Defines the interface type for this system resource owner.

**Syntax** DellResourceOwnerInterfaceType (See Table 7-2.)

**Access** Read-only

# System Resource Map Index Reference

Name systemResourceMapIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.500.20.1.7

**Description** Defines the index to the associated system resource map in this

chassis.

**Syntax** DellObjectRange

#### **System Resource Owner Description Name**

Name systemResourceOwnerDescriptionName

**Object ID** 1.3.6.1.4.1.674.10892.1.500.20.1.8

**Description** Defines the description name of the system resource owner.

Syntax DellString
Access Read-only

#### System Resource Owner Interface Instance

Name systemResourceOwnerInterfaceInstance

**Object ID** 1.3.6.1.4.1.674.10892.1.500.20.1.9

**Description** Defines the associated system resource owner interface instance

in this chassis.

**Syntax** DellObjectRange

Access Read-only

# System Resource Input/Output (I/O) Port Table

Name systemResourceIOPortTable

**Object ID** 1.3.6.1.4.1.674.10892.1.500.30

**Description** Defines the System Resource I/O Port Table.

**Syntax** SEQUENCE OF SystemResourceIOPortTableEntry

Access Not accessible

# System Resource I/O Port Table Entry

Name systemResourceIOPortTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.500.30.1

**Description** Defines the System Resource I/O Port Table entry.

**Syntax** SystemResourceIOPortTableEntry

Access Not accessible

**Index** systemResourceIOPortchassisIndex,

systemResourceIOPortIndex

#### System Resource I/O Port Chassis Index

Name systemResourceIOPortchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.500.30.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### System Resource I/O Port Index

Name systemResourceIOPortIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.500.30.1.2

**Description** Defines the index (one-based) of the system resource I/O ports

in this chassis.

**Syntax** DellObjectRange

Access Read-only

#### System Resource I/O Port State Capabilities

Name systemResourceIOPortStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.500.30.1.3

**Description** Defines the capabilities of the system resource I/O port.

**Syntax** DellStateCapabilities

Access Read-only

#### System Resource I/O Port State Settings

Name systemResourceIOPortStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.500.30.1.4

**Description** Defines the state and allows the setting of the system resource

I/O port.

**Syntax** DellStateSettings

Access Read-write

#### System Resource I/O Port Status

Name systemResourceIOPortStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.500.30.1.5

**Description** Defines the status of the system resource I/O port.

**Syntax** DellStateSettings

Access Read-only

#### System Resource I/O Port Owner Index Reference

Name systemResourceIOPortOwnerIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.500.30.1.6

**Description** Defines the index to the associated system resource owner in this

chassis.

**Syntax** DellObjectRange

Access Read-only

#### System Resource I/O Port Share Disposition

Name systemResourceIOPortShareDisposition

**Object ID** 1.3.6.1.4.1.674.10892.1.500.30.1.7

**Description** Defines the share disposition of the system resource I/O port.

**Syntax** DellResourceShareDisposition (See Table 7-3.)

**Access** Read-only

#### System Resource I/O Port Starting Address

Name systemResourceIOPortStartingAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.500.30.1.8

**Description** Defines the 64 bits of the starting address of the system resource

I/O port.

**Syntax** DellUnsigned64BitRange

#### System Resource I/O Port Ending Address

Name systemResourceIOPortEndingAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.500.30.1.9

**Description** Defines the 64 bits of the ending address of the system resource

I/O port.

**Syntax** DellUnsigned64BitRange

Access Read-only

#### **System Resource Memory Table**

Name systemResourceMemoryTable

**Object ID** 1.3.6.1.4.1.674.10892.1.500.40

**Description** Defines the System Resource Memory Table.

Syntax SEQUENCE OF SystemResourceMemoryTableEntry

**Access** Not accessible

#### System Resource Memory Table Entry

Name systemResourceMemoryTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.500.40.1

**Description** Defines the System Resource Memory Table entry.

**Syntax** SystemResourceMemoryTableEntry

Access Not accessible

**Index** systemResourceMemorychassisIndex,

systemResourceMemoryIndex

# System Resource Memory Chassis Index

Name systemResourceMemorychassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.500.40.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

#### System Resource Memory Index

Name systemResourceMemoryIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.500.40.1.2

**Description** Defines the index of system resource memory in this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **System Resource Memory State Capabilities**

Name systemResourceMemoryStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.500.40.1.3

**Description** Defines the capabilities of this system resource memory.

**Syntax** DellObjectRange

Access Read-only

#### **System Resource Memory State Settings**

Name systemResourceMemoryStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.500.40.1.4

**Description** Defines the state of this system resource memory.

**Syntax** DellObjectRange

Access Read-write

# **System Resource Memory Status**

Name systemResourceMemoryStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.500.40.1.5

**Description** Defines the status of this system resource memory.

Syntax DellStatus
Access Read-only

#### System Resource Memory Owner Index Reference

Name systemResourceMemoryOwnerIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.500.40.1.6

**Description** Defines the index to the associated system resource owner in this

chassis.

**Syntax** DellObjectRange

Access Read-only

#### System Resource Memory Share Disposition

Name systemResourceMemoryShareDisposition

**Object ID** 1.3.6.1.4.1.674.10892.1.500.40.1.7

**Description** Defines the share disposition of the system resource memory.

**Syntax** DellResourceShareDisposition (See Table 7-3.)

Access Read-only

#### System Resource Memory Starting Address

Name systemResourceMemoryStartingAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.500.40.1.8

**Description** Defines the 64 bits of the starting address of the system resource

memory.

**Syntax** DellUnsigned64BitRange

Access Read-only

# **System Resource Memory Ending Address**

Name systemResourceMemoryEndingAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.500.40.1.9

**Description** Defines the 64 bits of the ending address of the system resource

memory.

**Syntax** DellUnsigned64BitRange

#### System Resource Memory Flags

Name systemResourceMemoryFlags
Object ID 1.3.6.1.4.1.674.10892.1.500.40.1.10

**Description** Defines the permission flags for the system resource memory.

**Syntax** DellResourceMemoryFlags (See Table 7-4.)

Access Read-only

# System Resource Interrupt Table

Name systemResourceInterruptTable

**Object ID** 1.3.6.1.4.1.674.10892.1.500.50

**Description** Defines the System Resource Interrupt Table.

**Syntax** SEQUENCE OF SystemResourceInterruptTableEntry

**Access** Not accessible

# System Resource Interrupt Table Entry

Name systemResourceInterruptTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.500.50.1

**Description** Defines the System Resource Interrupt Table entry.

**Syntax** SystemResourceInterruptTableEntry

**Access** Not accessible

 $\textbf{Index} \hspace{1cm} system Resource Interrupt chassis Index,$ 

system Resource Interrupt Index

# **System Resource Interrupt Chassis Index**

Name systemResourceInterruptchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.500.50.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange
Access Not accessible

#### System Resource Interrupt Index

Name systemResourceInterruptIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.500.50.1.2

**Description** Defines the index (one-based) of this interrupt resource.

**Syntax** DellObjectRange

Access Read-only

#### System Resource Interrupt State Capabilities

Name systemResourceInterruptStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.500.50.1.3

**Description** Defines the capabilities of this system resource interrupt.

**Syntax** DellStateCapabilities

Access Read-only

#### **System Resource Interrupt State Settings**

Name systemResourceInterruptStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.500.50.1.4

**Description** Defines the state of this system resource interrupt.

**Syntax** DellStateSettings

Access Read-write

## System Resource Interrupt Status

Name systemResourceInterruptStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.500.50.1.5

**Description** Defines the status of this system resource interrupt.

Syntax DellStatus
Access Read-only

#### System Resource Interrupt Owner Index Reference

Name systemResourceInterruptOwnerIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.500.50.1.6

**Description** Defines the index for the associated system resource owner in

this chassis.

Syntax DellObjectRange

Access Read-only

#### System Resource Interrupt Owner Share Disposition

Name systemResourceInterruptShareDisposition

**Object ID** 1.3.6.1.4.1.674.10892.1.500.50.1.7

**Description** Defines the share disposition of the system resource interrupt.

**Syntax** DellResourceShareDisposition (See Table 7-3.)

**Access** Read-only

#### **System Resource Interrupt Level**

Name systemResourceInterruptLevel

**Object ID** 1.3.6.1.4.1.674.10892.1.500.50.1.8

**Description** Defines the interrupt request (IRO) level of the system resource

interrupt.

**Syntax** DellUnsigned32BitRange

Access Read-only

# System Resource Interrupt Type

Name systemResourceInterruptType

**Object ID** 1.3.6.1.4.1.674.10892.1.500.50.1.9

**Description** Defines the interrupt type of the system resource interrupt.

**Syntax** DellResourceInterruptType (See Table 7-5.)

#### System Resource Interrupt Trigger

Name systemResourceInterruptTrigger

**Object ID** 1.3.6.1.4.1.674.10892.1.500.50.1.10

**Description** Defines the interrupt trigger of the system resource interrupt.

**Syntax** DellResourceInterruptTrigger (See Table 7-6.)

Access Read-only

# System Resource Direct Memory Access (DMA) Table

Name systemResourceDMATable

**Object ID** 1.3.6.1.4.1.674.10892.1.500.60

**Description** Defines the System Resource DMA Table.

**Syntax** SEQUENCE OF SystemResourceDMATableEntry

**Access** Not accessible

#### **System Resource DMA Table Entry**

Name systemResourceDMATable
Object ID 1.3.6.1.4.1.674.10892.1.500.60.1

**Description** Defines the System Resource DMA Table entry.

**Syntax** SystemResourceDMATableEntry

**Access** Not accessible

 $\textbf{Index} \hspace{1cm} \textbf{systemResourceDMAChassisIndex, systemResourceDMAIndex}$ 

# System Resource DMA Chassis Index

Name systemResourceDMAchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.500.60.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange

#### System Resource DMA Index

 Name
 systemResourceDMAIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.500.60.1.2

**Description** Defines the index of system resource DMAs in this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **System Resource DMA State Capabilities**

Name systemResourceDMAStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.500.60.1.3

**Description** Defines the capabilities of this system resource DMA.

Syntax DellStateCapabilities

Access Read-only

#### System Resource DMA State Settings

Name systemResourceDMAStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.500.60.1.4

**Description** Defines the state and setting of this system resource DMA.

**Syntax** DellStateSettings

Access Read-write

# **System Resource DMA Status**

 Name
 systemResourceDMAStatus

 Object ID
 1.3.6.1.4.1.674.10892.1.500.60.1.5

**Description** Defines the status of this system resource DMA.

Syntax DellStatus
Access Read-only

#### System Resource DMA Owner Index Reference

Name systemResourceDMAOwnerIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.500.60.1.6

**Description** Defines the index to the associated system resource owner in this

chassis.

**Syntax** DellObjectRange

Access Read-only

#### System Resource DMA Share Disposition

Name systemResourceDMAShareDisposition

**Object ID** 1.3.6.1.4.1.674.10892.1.500.60.1.7

**Description** Defines the share disposition of the system resource DMA.

**Syntax** DellResourceShareDisposition (See Table 7-3.)

Access Read-only

#### System Resource DMA Maximum Transfer Size

Name systemResourceDMAMaximumTransferSize

**Object ID** 1.3.6.1.4.1.674.10892.1.500.60.1.8

**Description** Defines the maximum size of a memory transfer in bytes for the

system resource DMA.

**Syntax** DellUnsigned32BitRange

Access Read-only

#### **System Resource DMA Transfer Width**

Name systemResourceDMATransferWidth

**Object ID** 1.3.6.1.4.1.674.10892.1.500.60.1.9

**Description** Defines the transfer width of the system resource DMA.

**Syntax** DellResourceDMATransferWidth (See Table 7-8.)

#### **System Resource DMA Bus Master**

 Name
 systemResourceDMABusMaster

 Object ID
 1.3.6.1.4.1.674.10892.1.500.60.1.10

**Description** Defines the bus mastering capabilities of the system resource DMA.

**Syntax** DellResourceDMABusMaster (See Table 7-7.)

Access Read-only

# **System Resource Group Variable Values**

This section includes definitions for server administrator-specific variable values used in this section.

Table 7-1. System Resource Map Type

Variable Name: DellSystemResourceMapType

Data Type: Integer

Possible Data Values	Meaning of Data Value
other(1)	The system resource map type is not one of the following:
unknown(2)	The system resource map type is unknown (not known or not monitored).
typeOne(3)	The system resource map is type 1 (one).

# Table 7-2. Resource Owner Interface Type

Variable Name: DellResourceOwnerInterfaceType

Possible Data Values	Meaning of Data Value
typeIsOther(1)	The interface type is not one of the following:
typeIsUnknown(2)	The interface type is unknown.
typeIsInternal(3)	The interface type is internal.
typeIsISA(4)	The interface type is an Industry Standard Architecture (ISA) bus.

Table 7-2. Resource Owner Interface Type (continued)

Variable Name: DellResourceOwnerInterfaceType

Data Type: Integer

Possible Data Values	Meaning of Data Value
typeIsEISA(5)	The interface type is an Extended Industry Standard Architecture (EISA) bus.
typeIsMCA(6)	The interface type is a microchannel architecture (MCA) bus.
typeIsTurboChannel(7)	The interface type is a turbo-channel bus.

### Table 7-3. Resource Share Disposition

Variable Name: DellResourceShareDisposition

Data Type: Integer

Possible Data Values	Meaning of Data Value
shareIsOther(1)	The share disposition is not one of the following:
shareIsUnknown(2)	The share disposition is unknown (not known or not monitored).
<pre>shareIsDeviceExclusive(3)</pre>	The share disposition is device exclusive.
shareIsDriverExclusive(4)	The share disposition is driver exclusive.
shareIsShared(5)	The share disposition is shared.

### Table 7-4. Resource Memory Flags

Variable Name: DellResourceMemoryFlags

Possible Data Values	Meaning of Data Value
memoryIsReadOnly(1)	The resource memory is read-only.
memoryIsWriteOnly(2)	The resource memory is write-only.
memoryIsPreFetchable(4)	The resource memory is prefetchable.
memoryIsCombinedWritable(8)	The resource memory is read-write.
memoryIsF24(16)	The resource memory is F24.

Table 7-5. Resource Interrupt Type

Variable Name: DellResourceInterruptType

Data Type: Integer

Possible Data Values	Meaning of Data Value
<pre>interruptIsLevelSensitive(1)</pre>	The interrupt type is level sensitive.
interruptIsLatched(2)	The interrupt type is latched.

### Table 7-6. Resource Interrupt Trigger

Variable Name: DellResourceInterruptTrigger

Data Type: Integer

Possible Data Values	Meaning of Data Value
<pre>interruptIsActiveWhenLow(1)</pre>	The interrupt trigger is active on a low signal.
<pre>interruptIsActiveWhenHigh(2)</pre>	The interrupt trigger is active on a high signal.

#### Table 7-7. Resource DMA Bus Master

Variable Name: DellResourceDMABusMaster

Possible Data Values	Meaning of Data Value
dmaIsOther(1)	The DMA bus master capability is not one of the following:
dmaIsUnknown(2)	The DMA bus master capability is unknown.
dmaIsNotABusmaster(3)	The DMA does not have bus master capability.

Table 7-8. Resource DMA Transfer Width

Variable Name: DellResourceDMATransferWidth

Possible Data Values	Meaning of Data Value
dmaTransferWidthIsOther(1)	The DMA transfer width is not one of the following:
dmaTransferWidthIsunknown(2)	The DMA transfer width is unknown.
dmaTransferWidthIs8Bits(3)	The DMA transfer width is 8 bits.
dmaTransferWidthIs16Bits(4)	The DMA transfer width is 16 bits.
dmaTransferWidthIs32Bits(5)	The DMA transfer width is 32 bits.
dmaTransferWidthIs64Bits(6)	The DMA transfer width is 64 bits.
dmaTransferWidthIs128Bits(7)	The DMA transfer width is 128 bits.

# **Power Group**

The Power Group provides information about power units (a group of power supplies in a system chassis), power supplies, and voltage and amperage probes.

## **Power Group Tables**

The following management information base (MIB) tables define objects for the Power Group:

- Power Unit Table
- Power Supply Table
- Voltage Probe Table
- Amperage Probe Table
- AC Power Switch Table
- AC Power Cord Table
- Battery Table
- Power Usage Table

### **Power Unit Table**

Name powerUnitTable

 Object ID
 1.3.6.1.4.1.674.10892.1.600.10

 Description
 Defines the Power Unit Table.

**Syntax** PowerUnitTableEntry

Access Not accessible

### **Power Unit Table Entry**

Name powerUnitTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.600.10.1

**Description** Defines the Power Unit Table entry.

**Syntax** DellObjectRange

Access Read-only

Index powerUnitchassisIndex, powerUnitIndex

#### **Power Unit Chassis Index**

Name powerUnitchassisIndex
Object ID 1.3.6.1.4.1.674.10892.1.600.10.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange

Access Read-only

#### **Power Unit Index**

Name powerUnitIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.600.10.1.2

**Description** Defines the index of the power unit in this chassis.

**Syntax** DellObjectRange

Access Read-only

### **Power Unit State Capabilities**

Name powerUnitStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.600.10.1.3

**Description** Defines the capabilities of the power unit.

**Syntax** DellStateCapabilities

Access Read-only

### **Power Unit State Settings**

Name powerUnitStateSettings
ObjectID 1.3.6.1.4.1.674.10892.1.600.10.1.4

**Description** Defines the state and settings of the power unit.

**Syntax** DellStateSettings

Access Read-write

#### **Power Unit Redundancy Status**

 Name
 powerUnitRedundancyStatus

 Object ID
 1.3.6.1.4.1.674.10892.1.600.10.1.5

**Description** Defines the redundancy status of the power unit.

**Syntax** DellStatusRedundancy

Access Read-only

### **Power Supply Count for Redundancy**

Name powerSupplyCountForRedundancy

**Object ID** 1.3.6.1.4.1.674.10892.1.600.10.1.6

**Description** Defines the total number of power supplies required for this

power unit to have redundancy.

Syntax DellString
Access Read-only

#### **Power Unit Name**

Name powerUnitName

**Object ID** 1.3.6.1.4.1.674.10892.1.600.10.1.7

**Description** Defines the name of the power unit in this chassis.

Syntax DellString
Access Read-only

#### **Power Unit Status**

Name powerUnitStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.600.10.1.8

**Description** Defines the status of the power unit in this chassis.

Syntax DellStatus
Access Read-only

### **Power Supply Table**

Name powerSupplyTable

 Object ID
 1.3.6.1.4.1.674.10892.1.600.12

 Description
 Defines the Power Supply Table.

**Syntax** PowerSupplyTableEntry

**Access** Not accessible

### **Power Supply Table Entry**

 Name
 powerSupplyTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.600.12.1

**Description** Defines the Power Supply Table entry.

**Syntax** PowerSupplyTableEntry

**Access** Not accessible

Index powerSupplychassisIndex, powerSupplyIndex

### **Power Supply Chassis Index**

Name powerSupplychassisIndex
Object ID 1.3.6.1.4.1.674.10892.1.600.12.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange

Access Read-only

### **Power Supply Index**

Name powerSupplyIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.600.12.1.2

 Description
 Defines the index of power supply.

**Syntax** DellObjectRange

Access Read-only

### **Power Supply State Capabilities Unique**

Name powerSupplyStateCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.600.12.1.3

**Description** Defines the capabilities of the power supply.

**Syntax** DellPowerSupplyStateCapabilitiesUnique (See Table 8-1.)

Access Read-only

### **Power Supply State Settings Unique**

Name powerSupplyStateSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.600.12.1.4

**Description** Defines the state and settings of the power supply.

**Syntax** DellPowerSupplyStateSettingsUnique (See Table 8-2.)

Access Read-write

### **Power Supply Status**

Name powerSupplyStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.600.12.1.5

**Description** Defines the status of the power supply.

Syntax DellStatus
Access Read-only

### **Power Supply Output Watts**

Name powerSupplyOutputWatts
Object ID 1.3.6.1.4.1.674.10892.1.600.12.1.6

**Description** Defines the maximum sustained output wattage of the power

supply in tenths of watts.

**Syntax** DellSigned32BitRange

Access Read-only

### **Power Supply Type**

Access

Name powerSupplyType

 Object ID
 1.3.6.1.4.1.674.10892.1.600.12.1.7

 Description
 Defines the type of power supply.

Read-only

Syntax DellPowerSupplyType (See Table 8-3.)

### **Power Supply Location Name**

Name powerSupplyLocationName
Object ID 1.3.6.1.4.1.674.10892.1.600.12.1.8

**Description** Defines the location name of the power supply.

Syntax DellString
Access Read-only

### **Power Supply Input Voltage**

 Name
 powerSupplyInputVoltage

 Object ID
 1.3.6.1.4.1.674.10892.1.600.12.1.9

**Description** Defines the input voltage to the power supply in volts.

Syntax DellSigned32BitRange

### **Power Supply Power Unit Index Reference**

Name powerSupplypowerUnitIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.600.12.1.10

**Description** Defines the index to the associated system power unit in this chassis.

**Syntax** DellObjectRange

Access Read-only

### **Power Supply Sensor State**

Name powerSupplySensorState

**Object ID** 1.3.6.1.4.1.674.10892.1.600.12.1.11

**Description** Defines the state reported by the power supply sensor, and

supplements the state and settings of the power supply.

**Syntax** DellPowerSupplySensorState (See Table 8-4)

Access Read-only

### **Power Supply Configuration Error Type**

Name powerSupplyConfigurationErrorType

**Object ID** 1.3.6.1.4.1.674.10892.1.600.12.1.12

**Description** Defines the type of configuration error reported by the power

supply sensor.

**Syntax** DellPowerSupplyConfigurationErrorType (See Table 8-5)

Access Read-only

### **Power Supply Power Monitor Capable**

Name powerSupplyPowerMonitorCapable

**Object ID** 1.3.6.1.4.1.674.10892.1.600.12.1.13

**Description** Defines a boolean value that reports whether the power supply is

capable of monitoring power consumption.

Syntax DellBoolean
Access Read-only

### **Voltage Probe Table**

Name voltageProbeTable

Object ID 1.3.6.1.4.1.674.10892.1.600.20

Description Defines the Voltage Probe Table.

**Syntax** VoltageProbeTableEntry

Access Not accessible

### **Voltage Probe Table Entry**

 Name
 voltageProbeTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.600.20.1

**Description** Defines the Voltage Probe Table entry.

**Syntax** VoltageProbeTableEntry

**Access** Not accessible

Index voltageProbechassisIndex, voltageProbeIndex

### **Voltage Probe Chassis Index**

 Name
 voltageProbechassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.600.20.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange

Access Read-only

### Voltage Probe Index

Name voltageProbeIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.600.20.1.2

**Description** Defines the index of voltage probes in this chassis.

Syntax DellObjectRange

Access Read-only

### **Voltage Probe State Capabilities**

Name voltageProbeStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.600.20.1.3

**Description** Defines the capabilities of the voltage probe.

**Syntax** DellStateCapabilities

**Access** Read-only

#### **Voltage Probe State Settings**

**Name** voltageProbeStateSettings **Object ID** 1.3.6.1.4.1.674.10892.1.600.20.1.4

**Description** Defines the state and settings of the voltage probe.

Syntax DellStateSettings

Access Read-write

#### Voltage Probe Status

Name voltageProbeStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.600.20.1.5

**Description** Defines the status of the voltage probe.

**Syntax** DellStatusProbe

Access Read-only

### **Voltage Probe Reading**

Name voltageProbeReading

**Object ID** 1.3.6.1.4.1.674.10892.1.600.20.1.6

**Description** Defines the value of the voltage probe reading. The value is an integer

representing the voltage in millivolts that the probe is reading.

When the value for voltageProbeType is voltageProbeTypeIsDiscrete,

a value is not returned for this attribute.

**Syntax** DellSigned32BitRange

#### **Voltage Probe Type**

Name voltageProbeType

**Object ID** 1.3.6.1.4.1.674.10892.1.600.20.1.7

**Description** Defines the type of the voltage probe.

**Syntax** DellVoltageType

Access Read-only

### **Voltage Probe Location Name**

Name voltageProbeLocationName

**Object ID** 1.3.6.1.4.1.674.10892.1.600.20.1.8

**Description** Defines the location of the voltage probe in this chassis.

Syntax DellString
Access Read-only

#### **Voltage Probe Upper Nonrecoverable Threshold**

Name voltageProbeUpperNonRecoverableThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.600.20.1.9

**Description** Defines the value of the voltage probe's upper nonrecoverable

threshold.

**Syntax** DellSigned32BitRange

Access Read-only

### **Voltage Probe Upper Critical Threshold**

Name voltageProbeUpperCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.600.20.1.10

**Description** Defines the value of the voltage probe's upper critical threshold.

**Syntax** DellSigned32BitRange

Access Read-only

### **Voltage Probe Upper Noncritical Threshold**

Name voltageProbeUpperNonCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.600.20.1.11

**Description** Defines the user-assigned value of the voltage probe's upper

noncritical threshold.

**Syntax** DellSigned32BitRange

Access Read-write

### **Voltage Probe Lower Noncritical Threshold**

Name voltageProbeLowerNonCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.600.20.1.12

**Description** Defines the user-assigned value of the voltage probe's lower

noncritical threshold.

**Syntax** DellSigned32BitRange

Access Read-write

### **Voltage Probe Lower Critical Threshold**

Name voltageProbeLowerCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.600.20.1.13

**Description** Defines the value of the voltage probe's lower critical threshold.

**Syntax** DellSigned32BitRange

Access Read-only

### **Voltage Probe Lower Nonrecoverable Threshold**

Name voltageProbeLowerNonRecoverableThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.600.20.1.14

**Description** Defines the value of the voltage probe's lower nonrecoverable

threshold.

**Syntax** DellSigned32BitRange

### **Voltage Probe Probe Capabilities**

Name voltageProbeProbeCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.600.20.1.15

**Description** Defines the probe capabilities of the voltage probe.

**Syntax** DellProbeCapabilities

Access Read-only

### **Voltage Probe Discrete Reading**

Name voltageProbeDiscreteReading

**Object ID** 1.3.6.1.4.1.674.10892.1.600.20.1.16

**Description** Defines the reading for a voltage probe of type

voltageProbeTypeIsDiscrete.

When the value for voltageProbeType is other than

voltageProbeTypeIsDiscrete, a value is not returned for this

attribute. When the value for voltageProbeType is voltageProbeTypeIsDiscrete, the value returned for this

attribute is the discrete reading for the probe.

**Syntax** DellVoltageDiscreteReading

Access Read-only

### **Amperage Probe Table**

Name amperageProbeTable

**Object ID** 1.3.6.1.4.1.674.10892.1.600.30

**Description** Defines the Amperage Probe Table.

**Syntax** SEQUENCE OF AmperageProbeTableEntry

**Access** Not accessible

### **Amperage Probe Table Entry**

 Name
 amperageProbeTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.600.30.1

**Description** Defines the Amperage Probe Table entry.

**Syntax** AmperageProbeTableEntry

**Access** Not accessible

Index amperageProbechassisIndex, amperageProbeIndex

### **Amperage Probe Chassis Index**

 Name
 amperageProbechassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.600.30.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

### Amperage Probe Index

Name amperageProbeIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.600.30.1.2

**Description** Defines the index of amperage probes in this chassis.

Syntax DellObjectRange

Access Read-only

### **Amperage Probe State Capabilities**

Name amperageProbeStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.600.30.1.3

**Description** Defines the capabilities of the amperage probe.

Syntax DellStateCapabilities

### **Amperage Probe State Settings**

 Name
 amperageProbeStateSettings

 Object ID
 1.3.6.1.4.1.674.10892.1.600.30.1.4

**Description** Defines the state and settings of the amperage probe.

**Syntax** DellStateSettings

Access Read-write

#### Amperage Probe Status

Name amperageProbeStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.600.30.1.5

**Description** Defines the status of the amperage probe.

**Syntax** DellSigned32BitRange

Access Read-only

### Amperage Probe Reading

Name amperageProbeReading

**Object ID** 1.3.6.1.4.1.674.10892.1.600.30.1.6

**Description** Defines the reading for an amperage probe of type other than

amperageProbeTypeIsDiscrete.

When the value for amperageProbeType is amperageProbeTypeIsPowerSupplyAmps or

amperageProbeTypeIsSystemAmps, the value returned for this attribute is the power usage that the probe is reading in tenths

of Amperes.

When the value for amperageProbeType is amperageProbeTypeIsPowerSupplyWatts or

amperageProbeTypeIsSystemWatts, the value returned for this attribute is the power usage that the probe is reading in Watts.

Name amperageProbeReading

When the value for amperageProbeType is other than

amperageProbeTypeIsDiscrete,

amperageProbeTypeIsPowerSupplyAmps, amperageProbeTypeIsPowerSupplyWatts, amperageProbeTypeIsSystemAmps, or

amperageProbeTypeIsSystemWatts, the value returned for this attribute is the amperage that the probe is reading in Milliamps.

When the value for amperageProbeType is

amperageProbeTypeIsDiscrete, a value is not returned for this

attribute.

**Syntax** DellSigned32BitRange

Access Read-only

### **Amperage Probe Type**

Name amperageProbeType

**Object ID** 1.3.6.1.4.1.674.10892.1.600.30.1.7

**Description** Defines the type of the amperage probe.

**Syntax** DellAmperageProbeType

Access Read-only

### **Amperage Probe Location Name**

Name amperageProbeLocationName

**Object ID** 1.3.6.1.4.1.674.10892.1.600.30.1.8

**Description** Defines the location name of the amperage probe in this chassis.

Syntax DellString
Access Read-only

### **Amperage Probe Upper Nonrecoverable Threshold**

Name amperageProbeUpperNonRecoverableThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.600.30.1.9

**Description** Defines the value of the amperage probe's upper nonrecoverable

threshold. The value is an integer representing the amperage in

milliamperes that the probe is reading.

**Syntax** DellSigned32BitRange

Access Read-only

### Amperage Probe Upper Critical Threshold

Name amperageProbeUpperCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.600.30.1.10

**Description** Defines the value of the amperage probe's upper critical threshold.

**Syntax** DellSigned32BitRange

Access Read-only

### **Amperage Probe Upper Noncritical Threshold**

Name amperageProbeUpperNonCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.600.30.1.11

**Description** Defines the user-assigned value of the amperage probe's upper

critical threshold.

**Syntax** DellSigned32BitRange

Access Read-write

### Amperage Probe Lower Noncritical Threshold

Name amperageProbeLowerNonCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.600.30.1.12

**Description** Defines the user-assigned value of the amperage probe's lower

noncritical threshold.

**Syntax** DellSigned32BitRange

Access Read-write

#### **Amperage Probe Lower Critical Threshold**

Name amperageProbeLowerCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.600.30.1.13

**Description** Defines the value of the amperage probe's lower

critical threshold.

**Syntax** DellSigned32BitRange

Access Read-only

### **Amperage Probe Lower Nonrecoverable Threshold**

Name amperageProbeLowerNonRecoverableThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.600.30.1.14

**Description** Defines the value of the amperage probe's lower

nonrecoverable threshold.

**Syntax** DellSigned32BitRange

Access Read-only

### **Amperage Probe Probe Capabilities**

Name amperageProbeProbeCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.600.30.1.15

**Description** Defines the probe capabilities of the amperage probe.

**Syntax** DellProbeCapabilities

### **Amperage Probe Discrete Reading**

Name amperageProbeDiscreteReading

**Object ID** 1.3.6.1.4.1.674.10892.1.600.30.1.16

**Description** Defines the reading for a amperage probe of type

amperageProbeTypeIsDiscrete.

When the value for amperageProbeType is other than

amperageProbeTypeIsDiscrete, a value is not returned for this attribute. When the value for amperageProbeType is

amperageProbeTypeIsDiscrete, the value returned for this attribute is the discrete reading for the probe.

**Syntax** DellAmperageDiscreteReading (See Table 8-9)

Access Read-only

### **AC Power Switch Table**

Name aCPowerSwitchTable

**Object ID** 1.3.6.1.4.1.674.10892.1.600.40

**Description** Defines the AC Power Switch Table.

SYNTAX SEQUENCE OF ACPowerSwitchTableEntry

**Access** Not accessible

### AC Power Switch Table Entry

Name aCPowerSwitchTableEntry
Object ID 1.3.6.1.4.1.674.10892.1.600.40.1

**Description** Defines the AC Power Switch Table entry.

**Syntax** ACPowerSwitchTableEntry

**Access** Not accessible

Index aCPowerSwitchchassisIndex, aCPowerSwitchIndex

#### **AC Power Switch Chassis Index**

Name aCPowerSwitchChassisIndex
ObjectID 1.3.6.1.4.1.674.10892.1.600.40.1.1

**Description** Defines the index (one-based) of the chassis containing this

AC power switch.

Syntax DellObjectRange

Access Read-only

#### **AC Power Switch Index**

Name aCPowerSwitchIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.600.40.1.2

**Description** Defines the index (one-based) of this AC power switch.

**Syntax** DellObjectRange

Access Read-only

### **AC Power Switch Capabilities**

Name aCPowerSwitchCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.600.40.1.3

**Description** Defines the capabilities of this AC power switch.

**Syntax** DellACPowerSwitchCapabilities

Access Read-only

### **AC Power Switch Settings**

Name aCPowerSwitchSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.600.40.1.4

**Description** Defines the settings of this AC power switch.

Syntax DellACPowerSwitchSettings

**Access** Read-write

### **AC Power Switch Redundancy Status**

Name aCPowerSwitchRedundancyStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.600.40.1.5

**Description** Defines the redundancy status of this AC power switch.

**Syntax** DellStatusRedundancy

Access Read-only

### **AC Power Cord Count for Redundancy**

Name aCPowerCordCountForRedundancy

**Object ID** 1.3.6.1.4.1.674.10892.1.600.40.1.6

**Description** Defines the total number of AC power cords required for this

AC power switch to have redundancy.

**Syntax** DellObjectRange

Access Read-only

#### **AC Power Switch Name**

Name aCPowerSwitchName

**Object ID** 1.3.6.1.4.1.674.10892.1.600.40.1.7

**Description** Defines the name of this AC power switch.

Syntax DellString
Access Read-only

### AC Power Switch Redundancy Mode

Name aCPowerSwitchRedundancyMode

**Object ID** 1.3.6.1.4.1.674.10892.1.600.40.1.8

**Description** Defines the redundancy mode of this AC power switch.

**Syntax** DellACPowerSwitchRedundancyMode

Access Read-write

#### **AC Power Switch Status**

Name aCPowerSwitchStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.600.40.1.9

**Description** Defines the status of this AC power switch.

Syntax DellStatus
Access Read-only

#### **AC Power Cord Table**

Name aCPowerCordTable

**Object ID** 1.3.6.1.4.1.674.10892.1.600.42

**Description** Defines the AC Power Cord Table.

**Syntax** SEQUENCE OF ACPowerCordTableEntry

**Access** Not accessible

#### **AC Power Cord Table Entry**

Name aCPowerCordTableEntry
ObjectID 1.3.6.1.4.1.674.10892.1.600.42.1

**Description** Defines the AC Power Cord Table entry.

Syntax ACPowerCordTableEntry

**Access** Not accessible

Index aCPowerCordchassisIndex, aCPowerCordIndex

#### **AC Power Cord Chassis Index**

 Name
 aCPowerCordChassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.600.42.1.1

**Description** Defines the index (one-based) of the chassis containing this

AC power cord.

Syntax DellObjectRange

#### **AC Power Cord Index**

Name aCPowerCordIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.600.42.1.2

**Description** Defines the index (one-based) of this AC power cord.

**Syntax** DellObjectRange

Access Read-only

### **AC Power Cord State Capabilities**

Name aCPowerCordStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.600.42.1.3

**Description** Defines the capabilities of this AC power cord.

**Syntax** DellACPowerCordStateCapabilities

Access Read-only

### **AC Power Cord State Settings**

Name aCPowerCordStateSettings
ObjectID 1.3.6.1.4.1.674.10892.1.600.42.1.4

**Description** Defines the settings of this AC power cord.

**Syntax** DellACPowerCordStateSettings

Access Read-write

#### **AC Power Cord Status**

Name aCPowerCordStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.600.42.1.5

**Description** Defines the status of this AC power cord.

Syntax DellStatus
Access Read-only

#### **AC Power Cord AC Power Switch Index Reference**

Name aCPowerCordaCPowerSwitchIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.600.42.1.6

**Description** Defines the index (one-based) to the associated AC power switch

for this AC power cord.

**Syntax** DellObjectRange

Access Read-only

#### **AC Power Cord Location Name**

Name aCPowerCordLocationName
Object ID 1.3.6.1.4.1.674.10892.1.600.42.1.7

**Description** Defines the location name of this AC power cord.

Syntax DellString
Access Read-only

### **Battery Table**

Name batteryTable

 Object ID
 1.3.6.1.4.1.674.10892.1.600.50

 Description
 Defines the Battery Table.

**Syntax** SEQUENCE OF BatteryTableEntry

**Access** Not accessible

### **Battery Table Entry**

Name batteryTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.600.50.1

 Description
 Defines the Battery Table Entry.

Syntax BatteryTableEntry
Access Not accessible

Index batteryChassisIndex, batteryIndex

#### **Battery Chassis Index**

Name batteryChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.600.50.1.1

**Description** Defines the index (one-based) of the chassis that contains the

battery.

**Syntax** DellObjectRange

Access Read-only

### **Battery Index**

Name batteryIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.600.50.1.2

**Description** Defines the index (one-based) of the battery.

**Syntax** DellObjectRange

Access Read-only

### **Battery State Capabilities**

Name batteryStateCapabilities

 $\textbf{Object ID} \qquad \qquad 1.3.6.1.4.1.674.10892.1.600.50.1.3$ 

**Description** Defines the state capabilities of the battery.

Syntax DellStateCapabilities

**Access** Read-only

### **Battery State Settings**

Name batteryStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.600.50.1.4

**Description** Defines the state settings of the battery.

Syntax DellStateSettings

Access Read-write

#### **Battery Status**

Name batteryStatus

 Object ID
 1.3.6.1.4.1.674.10892.1.600.50.1.5

 Description
 Defines the status of the battery.

Syntax DellStatus
Access Read-only

### **Battery Reading**

Name batteryReading

Object ID 1.3.6.1.4.1.674.10892.1.600.50.1.6

Description Defines the reading of the battery.

Syntax DellBatteryReading (see Table 8-15)

Access Read-only

### **Battery Location Name**

Name batteryLocationName

Object ID1.3.6.1.4.1.674.10892.1.600.50.1.7DescriptionDefines the location of the battery.

Syntax DellString
Access Read-only

### **Power Usage Table**

Name powerUsageTable

 Object ID
 1.3.6.1.4.1.674.10892.1.600.60

 Description
 Defines the Power Usage Table.

**Syntax** SEQUENCE OF PowerUsageTableEntry

Access Not accessible

### **Power Usage Table Entry**

Name powerUsageTableEntry
ObjectID 1.3.6.1.4.1.674.10892.1.600.60.1

**Description** Defines the Power Usage Table Entry.

**Syntax** PowerUsageTableEntry

**Access** Not accessible

Index powerUsageChassisIndex, powerUsageIndex

#### **Power Usage Chassis Index**

 Name
 powerUsageChassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.600.60.1.1

**Description** Defines the index (one-based) of the associated chassis.

**Syntax** DellObjectRange

Access Read-only

### **Power Usage Index**

Name powerUsageIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.600.60.1.2

**Description** Defines the index (one-based) of the power usage information.

Syntax DellObjectRange

Access Read-only

### **Power Usage State Capabilities**

Name powerUsageStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.600.60.1.3

**Description** Defines the state capabilities of the power usage information.

Syntax DellStateCapabilities

#### **Power Usage State Settings**

Name powerUsageStateSettings
ObjectID 1.3.6.1.4.1.674.10892.1.600.60.1.4

**Description** Defines the state settings of the power usage information.

Syntax DellStateSettings

Access Read-write

### **Power Usage Status**

Name powerUsageStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.600.60.1.5

**Description** Defines the status of the power usage information.

Syntax DellStatus
Access Read-only

### **Power Usage Entity Name**

Name powerUsageEntityName

**Object ID** 1.3.6.1.4.1.674.10892.1.600.60.1.6

**Description** Defines the name of the entity associated with this power usage

information.

Syntax DellString
Access Read-only

### **Power Usage Cumulative Wattage**

Name powerUsageCumulativeWattage

**Object ID** 1.3.6.1.4.1.674.10892.1.600.60.1.7

**Description** Defines the total wattage used (in Watt-hours) by this entity

since the date and time specified by the

 $power Usage Cumulative Wattage Start Date Name\ attribute.$ 

**Syntax** DellUnsigned32BitRange

#### **Power Usage Cumulative Wattage Start Date Name**

Name powerUsageCumulativeWattageStartDateName

**Object ID** 1.3.6.1.4.1.674.10892.1.600.60.1.8

**Description** Defines the date and time at which the data collection started

for the value reported by the powerUsageCumulativeWattage

attribute.

Syntax DellDateName

Access Read-only

### **Power Usage Peak Watts**

Name powerUsagePeakWatts

**Object ID** 1.3.6.1.4.1.674.10892.1.600.60.1.9

**Description** Defines the peak wattage reading (in Watts) for this entity

since the date and time specified by the

powerUsagePeakWattsStartDateName attribute.

**Syntax** DellUnsigned32BitRange

Access Read-only

### **Power Usage Peak Watts Start Date Name**

Name powerUsagePeakWattsStartDateName

**Object ID** 1.3.6.1.4.1.674.10892.1.600.60.1.10

**Description** Defines the date and time at which the data collection started

for the value reported by the powerUsagePeakWatts attribute.

**Syntax** DellDateName

### **Power Usage Peak Watts Reading Date Name**

Name powerUsagePeakWattsReadingDateName

**Object ID** 1.3.6.1.4.1.674.10892.1.600.60.1.11

**Description** Defines the date and time at which the value reported by the

powerUsagePeakWatts attribute was measured.

Syntax DellDateName

Access Read-only

### **Power Usage Peak Amps**

Name powerUsagePeakAmps

**Object ID** 1.3.6.1.4.1.674.10892.1.600.60.1.12

**Description** Defines the peak amperage reading (in tenths of Amps) for this

entity since the date and time specified by the

powerUsagePeakAmpsStartDateName attribute.

**Syntax** DellUnsigned32BitRange

Access Read-only

### **Power Usage Peak Amps Start Date Name**

Name powerUsagePeakAmpsStartDateName

**Object ID** 1.3.6.1.4.1.674.10892.1.600.60.1.13

**Description** Defines the date and time at which the data collection started

for the value reported by the powerUsagePeakAmps attribute.

**Syntax** DellDateName

### **Power Usage Peak Amps Reading Date Name**

Name powerUsagePeakAmpsReadingDateName

**Object ID** 1.3.6.1.4.1.674.10892.1.600.60.1.14

**Description** Defines the date and time at which the value reported by the

powerUsagePeakAmps attribute was measured.

Syntax DellDateName

Access Read-only

# **Power Group Variable Values**

This section includes definitions for server administrator-specific variable values used in this section.

Table 8-1. Power Supply State Capabilities Unique

Variable Name: DellPowerSupplyStateCapabilitiesUnique

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(1)	The power supply's capabilities are unknown.
onlineCapable(2)	The power supply can be disabled (offline, a binary 0 value) or enabled (online, a binary 1 value).
notReadyCapable(4)	The power supply's capabilities are not ready.

Table 8-2. Power Supply State Settings Unique

Variable Name: DellPowerSupplyStateSettingsUnique

Possible Data Values	Meaning of Data Value	
unknown(1)	The power supply's capabilities are unknown.	
onLine(2)	The power supply's state is disabled (offline, a binary 0 value) or enabled (online, a binary 1 value).	
notReady(4)	The power supply's state is not ready.	
fanFailure(8)	The power supply fan has failed.	

Table 8-2. Power Supply State Settings Unique (continued)

Variable Name: DellPowerSupplyStateSettingsUnique

Data Type: Integer

Data Type. Theeger	
Possible Data Values	Meaning of Data Value
onlineAndFanFailure(10)	The power supply is online and indicating that its fan is not working.
powerSupplyIsON(16)	The power supply is indicating that it is on.
powerSupplyIsOk(32)	The power supply is indicating that it is OK.
acSwitchIsON(64)	The power supply is indicating that the AC power switch is on.
onlineandAcSwitchIsON (66)	The power supply is online and indicating that the AC power supply switch capability is activated.
acPowerIsON(128)	The power supply is indicating that the AC power is on.
onlineAndAcPowerIsON (130)	The power supply is online and indicating that the AC power is on.
onlineAndPredictiveFail ure(210)	The power supply is online and indicating that it has a problem.
acPowerAndSwitchAreOn PowerSupplyIsOnIsOkAnd Online(242)	The power supply is online and OK.

Table 8-3. Power Supply Type Definitions

Variable Name: DellPowerSupplyType

Possible Data Values	Meaning of Data Value
powerSupplyTypeIsOther(1)	The power supply type is not one of the following:
powerSupplyTypeIsUnknown(2)	The power supply type is unknown (not known or not monitored).
powerSupplyTypeIsLinear(3)	The power supply type is a linear power supply.

 Table 8-3.
 Power Supply Type Definitions (continued)

Variable Name: DellPowerSupplyType

Data Type: Integer

Possible Data Values	Meaning of Data Value
powerSupplyTypeIsSwitching(4)	The power supply type is a switching power supply.
powerSupplyTypeIsBattery(5)	The power supply type is a battery.
powerSupplyTypeIsUPS(6)	The power supply type is an uninterruptable power supply.
powerSupplyTypeIsConverter(7)	The power supply type is a power converter power supply.
powerSupplyTypeIsRegulator(8)	The power supply type is a regulator power supply.
powerSupplyTypeIsAC(9)	The power supply type is an AC power supply.
powerSupplyTypeIsDC(10)	The power supply type is a DC power supply.
powerSupplyTypeIsVRM(11)	The power supply type is a voltage regulator module (VRM) power supply.

### Table 8-4. Power Supply Sensor State

Variable Name: DellPowerSupplySensorState

Possible Data Values	Meaning of Data Value
presenceDetected(1)	The power supply's presence is detected.
psFailureDetected(2)	The power supply failure is detected.
predictiveFailure(4)	The power supply sensor detects predictive failure
psACLost(8)	The power supply's AC power is lost.
acLostOrOutOfRange(16)	The power supply's AC power is lost or out of range.

Table 8-4. Power Supply Sensor State (continued)

Variable Name: DellPowerSupplySensorState

Data Type: Integer

Possible Data Values	Meaning of Data Value
acOutOfRangeButPresent(32)	The power supply's AC power is present, but it is out of range.
configurationError(64)	The power supply sensor detects a configuration error.

Table 8-5. Power Supply Configuration Error Type

Variable Name: DellPowerSupplyConfigurationErrorType

Data Type: Integer

Possible Data Values	Meaning of Data Value
vendorMismatch(1)	The power supply configuration error type is vendor mismatch.
revisionMismatch(2)	The power supply configuration error type is revision mismatch.
processorMissing(3)	The power supply configuration error type is processor missing.

Table 8-6. Voltage Probe Type

Variable Name: DellVoltageType

Possible Data Values	Meaning of Data Value
voltageProbeTypeIsOther(1)	The voltage probe type is not one of the following:
voltageProbeTypeIsUnknown(2)	The voltage probe type is unknown (not known or not monitored).
<pre>voltageProbeTypeIs1Point5Volt (3)</pre>	The voltage probe type is a 1.5-volt (V) probe.

Table 8-6. Voltage Probe Type (continued)

Variable Name: DellVoltageType

Possible Data Values	Meaning of Data Value
<pre>voltageProbeTypeIs3Point3Volt (4)</pre>	The voltage probe type is a 3.3-V probe.
voltageProbeTypeIs5Volt(5)	The voltage probe type is a 5-V probe.
<pre>voltageProbeTypeIsMinus5Volt (6)</pre>	The voltage probe type is a –5-V probe.
voltageProbeTypeIs12Volt(7)	The voltage probe type is a 12-V probe.
voltageProbeTypeIsMinus12Volt (8)	The voltage probe type is a $-12$ -V probe.
voltageProbeTypeIsIO(9)	The voltage probe type is an I/O volt probe.
voltageProbeTypeIsCore(10)	The voltage probe type is a core volt probe.
voltageProbeTypeIsFLEA(11)	The voltage probe type is a FLEA (standby) volt probe.
voltageProbeTypeIsBattery(12)	The voltage probe type is a battery volt probe.
voltageProbeTypeIsTerminator (13)	The voltage probe type is a SCSI termination volt probe.
voltageProbeTypeIs2Point5Volt (14)	The voltage probe type is a 2.5-V probe.
voltageProbeTypeIsGTL(15)	The voltage probe type is a ground termination logic (GTL) probe.
voltageProbeTypeIsDiscrete(16)	The voltage probe type is a voltage probe with discrete reading.

Table 8-7. Voltage Probe Discrete Reading

Variable Name: DellVoltageDiscreteReading

Data Type: Integer

Possible Data Values	Meaning of Data Value	
voltageIsGood(1)	The voltage probe discrete reading is good.	
voltageIsBad(2)	The voltage probe discrete reading is bad.	

Table 8-8. Amperage Probe Definitions

Variable Name: DellAmperageType

Possible Data Values	Meaning of Data Value
amperageProbeTypeIsOther(1)	The amperage probe type is not one of the following:
amperageProbeTypeIsUnknown(2)	The amperage probe type is unknown (not known or not monitored).
amperageProbeTypeIs1Point5Volt(3)	The amperage probe type is a 1.5-ampere (A) probe.
amperageProbeTypeIs3Point3volt(4)	The amperage probe type is a 3.3-A probe.
amperageProbeTypeIs5Volt(5)	The amperage probe type is a 5-A probe.
amperageProbeTypeIsMinus5Volt(6)	The amperage probe type is a –5-A probe.
amperageProbeTypeIs12Volt(7)	The amperage probe type is a 12-A probe.
amperageProbeTypeIsMinus12Volt(8)	The amperage probe type is a –12-A probe.
amperageProbeTypeIsIO(9)	The amperage probe type is an I/O amperage probe.
amperageProbeTypeIsCore(10)	The amperage probe type is a core amperage probe.

Table 8-8. Amperage Probe Definitions (continued)

Variable Name: DellAmperageType

Possible Data Values	Meaning of Data Value
amperageProbeTypeIsFLEA(11)	The amperage probe type is a FLEA (standby) amperage probe.
amperageProbeTypeIsBattery(12)	The amperage probe type is a battery amperage probe.
amperageProbeTypeIsTerminator(13)	The amperage probe type is a Small Computer System Interface (SCSI) termination amperage probe.
amperageProbeTypeIs2Point5Volt(14)	The amperage probe type is a 2.5-V amperage probe.
amperageProbeTypeIsGTL(15)	The amperage probe type is a Gunning Transceiver Logic (GTL) probe.
amperageProbeTypeIsDiscrete(16)	The amperage probe type is an amperage probe with discrete reading.
amperageProbeTypeIsPowerSupplyAmps(23)	The amperage probe type is power supply probe with reading in Amperes.
<pre>amperageProbeTypeIsPowerSupplyWatts (24)</pre>	The amperage probe type is power supply probe with reading in Watts.
amperageProbeTypeIsSystemAmps(25)	The amperage probe type is system probe with reading in Amperes.
amperageProbeTypeIsSystemWatts(26)	The amperage probe type is system probe with reading in Watts.

Table 8-9. Amperage Probe Discrete Reading

Variable Name: DellAmperageDiscreteReading

Data Type: Integer

Possible Data Values	Meaning of Data Value
amperageIsGood(1)	The amperage probe discrete reading is good.
amperageIsBad(2)	The amperage probe discrete reading is bad.

Table 8-10. AC Power Switch Capabilities

Variable Name: DellACPowerSwitchCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknownCapabilities(1)	The AC power switch's capabilities are unknown.
inputSourceCordlNoReturnCapable(2)	Input source is AC power cord 1, with no return.
inputSourceCord1ReturnCapable(4)	Input source is AC power cord 1, with return.
inputSourceCord2NoReturnCapable(8)	Input source is AC power cord 2, with no return.
inputSourceCord2ReturnCapable(16)	Input source is AC power cord 2, with return.
inputSourceSharedCapable(32)	Input source is shared.

Table 8-11. AC Power Switch Settings

Variable Name: DellACPowerSwitchSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(1)	The AC power switch's settings are unknown.

inputSourceCordlNoReturn(2) Input source is AC power cord l, with no return.

Table 8-11. AC Power Switch Settings (continued)

Variable Name: DellACPowerSwitchSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
<pre>inputSourceCord1Return(4)</pre>	Input source is AC power cord 1, with return.
inputSourceCord2NoReturn(8)	Input source is AC power cord 2, with no return.
inputSourceCord2Return(16)	Input source is AC power cord 2, with return.
inputSourceShared(32)	Input source is shared.

## Table 8-12. AC Power Switch Redundancy Mode

Variable Name: DellACPowerSwitchRedundancyMode

Data Type: Integer

Possible Data Values	Meaning of Data Value
nonRedundant(1)	The AC power switch is not expecting redundancy.
redundant(2)	The AC power switch is expecting redundancy.

## Table 8-13. AC Power Cord State Capabilities

Variable Name: DellACPowerCordStateCapabilities

Possible Data Values	Meaning of Data Value
unknown(1)	The AC power cord's capabilities are unknown.
onlineCapable(2)	The AC power cord can be disabled (offline) or enabled (online).
notReadyCapable(4)	The AC power cord's capabilities are not ready.

Table 8-14. AC Power Cord State Settings

Variable Name: DellACPowerCordStateSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(1)	The AC power cord's state is unknown.
online(2)	The AC power cord's state is disabled (offline) 0 or enabled (online) 1.
notReady(4)	The AC power cord's state is not ready.
acPowerCordHasPower	The AC power cord has power.
acPowerCordIsActive Source(16)	The AC power cord is the active source of AC power.

## Table 8-15. Battery Reading

Variable Name: DellBatteryReading

Data Type: Integer

**NOTE:** These values are bit masks, so combination values are possible.

Possible Data Values	Meaning of Data Value	
predictiveFailure(1)	Battery sensor detects predictive failure.	
failed(2)	Battery has failed.	
presenceDetected(4)	Battery presence is detected.	

# Thermal Group

The Thermal Group provides information about cooling units, cooling devices, and temperature probes. Cooling units are sets of fans or other cooling devices in a system chassis. Thermal Group variables include threshold values and types of cooling devices and temperature probes.

## **Thermal Group Tables**

The following management information base (MIB) tables define the objects in the Thermal Group:

- Cooling Unit Table
- Cooling Unit Status
- Temperature Probe Table

## **Cooling Unit Table**

Name coolingUnitTable

 Object ID
 1.3.6.1.4.1.674.10892.1.700.10

 Description
 Defines the Cooling Unit Table.

Syntax TableEntry
Access Not accessible

## **Cooling Unit Table Entry**

Name coolingUnitTableEntry
ObjectID 1.3.6.1.4.1.674.10892.1.700.10.1

**Description** Defines the Cooling Unit Table entry.

Syntax TableEntry
Access Not accessible

Index coolingUnitchassisIndex, coolingUnitIndex

#### **Cooling Unit Chassis Index**

 Name
 coolingUnitchassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.700.10.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax TableEntry
Access Read-only

#### **Cooling Unit Index**

Name coolingUnitIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.700.10.1.2

**Description** Defines the index (one-based) of cooling units.

**Syntax** DellObjectRange

Access Read-only

## **Cooling Unit State Capabilities**

Name coolingUnitStateCapabilties

**Object ID** 1.3.6.1.4.1.674.10892.1.700.10.1.3

**Description** Defines the capabilities of the cooling unit.

**Syntax** DellStateCapabilities

Access Read-only

## **Cooling Unit State Settings**

Name coolingUnitStateSettings
Object ID 1.3.6.1.4.1.674.10892.1.700.10.1.4

**Description** Defines the state and settings of the cooling unit.

Syntax DellStateSettings

Access Read-write

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#### **Cooling Unit Redundancy Status**

Name coolingUnitRedundancyStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.700.10.1.5

**Description** Defines the redundancy status of the cooling unit.

**Syntax** DellStatusRedundancy

Access Read-only

## **Cooling Device Count For Redundancy**

Name coolingDeviceCountForRedundancy

**Object ID** 1.3.6.1.4.1.674.10892.1.700.10.1.6

**Description** Defines the total number of cooling devices required for this

cooling unit to have redundancy.

**Syntax** DellObjectRange

Access Read-only

## **Cooling Unit Name**

Name coolingUnitName

**Object ID** 1.3.6.1.4.1.674.10892.1.700.10.1.7

**Description** Defines the cooling unit name in this chassis.

Syntax DellString
Access Read-only

## **Cooling Unit Status**

Name coolingUnitStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.700.10.1.8

**Description** Defines the status of the cooling unit in this chassis.

Syntax DellStatus
Access Read-only

## **Cooling Device Table**

Name coolingDeviceTable

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12

**Description** Defines the Cooling Device Table.

**Syntax** CoolingDeviceTableEntry

**Access** Not accessible

#### **Cooling Device Table Entry**

Name coolingDeviceTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1

**Description** Defines the Cooling Device Table entry.

**Syntax** CoolingDeviceTableEntry

**Access** Not accessible

Index cooling DevicechassisIndex, coolingDeviceIndex

## **Cooling Device Chassis Index**

Name coolingDevicechassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange

Access Read-only

## **Cooling Device Index**

Name coolingDeviceIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1.2

**Description** Defines the index of cooling devices in this chassis.

Syntax DellObjectRange

Access Read-only

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## **Cooling Device State Capabilities**

Name coolingDeviceStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1.3

**Description** Defines the capabilities of the cooling device.

**Syntax** DellStateCapabilities

Access Read-only

## **Cooling Device State Settings**

Name coolingDeviceStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1.4

**Description** Defines the state and settings of the cooling device.

Syntax DellStateSettings

Access Read-write

## **Cooling Device Status**

Name coolingDeviceStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1.5

**Description** Defines the status of the cooling device.

**Syntax** DellStatusProbe

#### **Cooling Device Reading**

Name coolingDeviceReading

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1.6

**Description** Defines either the cooling device's speed in revolutions

per minute (RPM), or the off/on value of the fan.

When the value for coolingDeviceSubType is other than coolingDeviceSubTypeIsDiscrete, the value returned for this attribute is the speed in RPM or the OFF/ON value of the cooling

device. When the value for coolingDeviceSubType is

coolingDeviceSubTypeIsDiscrete, a value is not returned for

this attribute.

**Syntax** DellSigned32BitRange

Access Read-only

#### **Cooling Device Type**

Name coolingDeviceType

 Object ID
 1.3.6.1.4.1.674.10892.1.700.12.1.7

 Description
 Defines the cooling device type.

**Syntax** DellCoolingDeviceType (See Table 9-1.)

Access Read-only

## **Cooling Device Location Name**

Name coolingDeviceLocationName

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1.8

**Description** Defines the location of the cooling device in this chassis.

Syntax DellString
Access Read-only

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#### **Cooling Device Upper Nonrecoverable Threshold**

Name coolingDeviceUppernonrecoverableThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1.9

**Description** Defines the value of the fan's upper nonrecoverable threshold.

**Syntax** DellSigned32BitRange

Access Read-only

#### **Cooling Device Upper Critical Threshold**

Name coolingDeviceUpperCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1.10

**Description** Defines the value of the fan's upper critical threshold.

**Syntax** DellSigned32BitRange

Access Read-only

#### **Cooling Device Upper Noncritical Threshold**

Name coolingDeviceUpperNonCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1.11

**Description** Defines the user-assigned value of the fan's upper noncritical

threshold.

**Syntax** DellSigned32BitRange

Access Read-write

## **Cooling Device Lower Noncritical Threshold**

Name coolingDeviceLowerNonCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1.12

**Description** Defines the user-assigned value of the fan's lower noncritical

threshold.

**Syntax** DellSigned32BitRange

Access Read-write

#### **Cooling Device Lower Critical Threshold**

Name coolingDeviceLowerCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1.13

**Description** Defines the value of the fan's lower critical threshold.

**Syntax** DellSigned32BitRange

Access Read-only

## **Cooling Device Lower Nonrecoverable Threshold**

Name coolingDeviceLowerNonRecoverableThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1.14

**Description** Defines the value of the fan's lower nonrecoverable threshold.

**Syntax** DellSigned32BitRange

Access Read-only

#### **Cooling Device Cooling Unit Index Reference**

Name coolingDevicecoolingUnitIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1.15

**Description** Defines the index for the associated system cooling unit in this

chassis.

**Syntax** DellObjectRange

Access Read-only

## **Cooling Device Subtype**

Name coolingDeviceSubType

 Object ID
 1.3.6.1.4.1.674.10892.1.700.12.1.16

 Description
 Defines the cooling device subtype.

**Syntax** DellCoolingDeviceSubType (See Table 9-2.)

Access Read-only

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#### **Cooling Device Probe Capabilities**

Name coolingDeviceProbeCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1.17

**Description** Defines the probe capabilities of the cooling device.

**Syntax** DellProbeCapabilities

Access Read-only

#### Cooling Device Discrete Reading

Name coolingDeviceDiscreteReading

**Object ID** 1.3.6.1.4.1.674.10892.1.700.12.1.18

**Description** Defines the reading for a voltage probe of type

coolingDeviceSubTypeIsDiscrete.

When the value for coolingDeviceSubType is other than

coolingDeviceSubTypeIsDiscrete, a value is not returned for this

attribute. When the value for coolingDeviceSubType is coolingDeviceSubTypeIsDiscrete, the value returned for this

attribute is the discrete reading for the cooling device.

Syntax DellCoolingDeviceDiscreteReading (See Table 9-3)

Access Read-only

## **Temperature Probe Table**

Name temperatureProbeTable

**Object ID** 1.3.6.1.4.1.674.10892.1.700.20

**Description** Defines the Temperature Probe Table.

**Syntax** TemperatureProbeTableEntry

**Access** Not accessible

#### **Temperature Probe Table Entry**

Name temperatureProbeTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.700.20.1

**Description** Defines the Temperature Probe Table entry.

**Syntax** TemperatureProbeTableEntry

**Access** Not accessible

**Index** temperatureProbechassisIndex,

temperatureProbeIndex

#### **Temperature Probe Chassis Index**

Name temperatureProbechassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.700.20.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

## **Temperature Probe Index**

Name temperatureProbeIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.700.20.1.2

**Description** Defines the index of temperature probes in this chassis.

**Syntax** DellObjectRange

Access Read-only

## **Temperature Probe State Capabilities**

Name temperatureProbeStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.700.20.1.3

**Description** Defines the capabilities of the temperature probe.

Syntax DellStateCapabilities

#### **Temperature Probe State Settings**

Name temperatureProbeStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.700.20.1.4

**Description** Defines the state and settings of the temperature probe.

**Syntax** DellStateSettings

Access Read-write

#### Temperature Probe Status

 Name
 temperatureProbeStatus

 Object ID
 1.3.6.1.4.1.674.10892.1.700.20.1.5

**Description** Defines the status of the temperature probe in tenths of degrees

Celsius.

**Syntax** DellStatusProbe

Access Read-only

## **Temperature Probe Reading**

Name temperatureProbeReading
Object ID 1.3.6.1.4.1.674.10892.1.700.20.1.6

**Description** Defines the value of the temperature probe.

When the value for temperatureProbeType is other than temperatureProbeTypeIsDiscrete, the value returned for this attribute is the temperature that the probe is reading in tenths

of degrees Centigrade. When the value for

temperatureProbeType is temperatureProbeTypeIsDiscrete,

a value is not returned for this attribute.

**Syntax** DellSigned32BitRange

#### **Temperature Probe Type**

Name temperatureProbeType

**Object ID** 1.3.6.1.4.1.674.10892.1.700.20.1.7

**Description** Defines the temperature probe type.

**Syntax** DellTemperatureProbeType (See Table 9-4.)

Access Read-only

#### **Temperature Probe Location Name**

Name temperatureProbeLocationName

**Object ID** 1.3.6.1.4.1.674.10892.1.700.20.1.8

**Description** Defines the location of the temperature probe in this chassis.

Syntax DellString
Access Read-only

#### **Temperature Probe Upper Nonrecoverable Threshold**

Name temperatureProbeUpperNonRecoverableThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.700.20.1.9

**Description** Defines the value of the temperature probe's upper

nonrecoverable threshold.

**Syntax** DellSigned32BitRange

Access Read-only

## **Temperature Probe Upper Critical Threshold**

Name temperatureProbeUpperCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.700.20.1.10

**Description** Defines the value of the temperature probe's upper critical

threshold.

**Syntax** DellSigned32BitRange

#### **Temperature Probe Upper Noncritical Threshold**

Name temperatureProbeUpperNonCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.700.20.1.11

**Description** Defines the user-assigned value of the temperature probe's

upper noncritical threshold.

**Syntax** DellSigned32BitRange

Access Read-write

#### **Temperature Probe Lower Noncritical Threshold**

Name temperatureProbeLowerNonCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.700.20.1.12

**Description** Defines the user-assigned value of the temperature probe's

lower noncritical threshold.

**Syntax** DellSigned32BitRange

Access Read-write

#### **Temperature Probe Lower Critical Threshold**

Name temperatureProbeLowerCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.700.20.1.13

**Description** Defines the value of the temperature probe's lower critical threshold.

**Syntax** DellSigned32BitRange

Access Read-only

#### **Temperature Probe Lower Nonrecoverable Threshold**

Name temperatureProbeLowerNonRecoverableThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.700.20.1.14

**Description** Defines the value of the temperature probe's lower

nonrecoverable threshold.

**Syntax** DellSigned32BitRange

#### **Temperature Probe Probe Capabilities**

Name temperatureProbeProbeCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.700.20.1.15

**Description** Defines the probe capabilities of the temperature probe.

**Syntax** DellProbeCapabilities

Access Read-only

#### **Temperature Probe Discrete Reading**

Name temperatureProbeDiscreteReading

**Object ID** 1.3.6.1.4.1.674.10892.1.700.20.1.16

**Description** Defines the reading for a temperature probe of type

temperatureProbeTypeIsDiscrete.

When the value for temperatureProbeType is other than

temperatureProbeTypeIsDiscrete, a value is not returned for this

attribute. When the value for temperatureProbeType is temperatureProbeTypeIsDiscrete, the value returned for this

attribute is the discrete reading for the probe.

**Syntax** DellTemperatureDiscreteReading (See Table 9-5)

Access Read-only

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# **Thermal Group Variable Values**

This section includes definitions for server administrator-specific variable values used in this section.

Table 9-1. Cooling Device Type

Variable Name: DellCoolingDeviceType

Possible Data Values	Meaning of Data Value
<pre>coolingDeviceTypeIsOther(1)</pre>	The cooling device type is not one of the following:
coolingDeviceTypeIsUnknown(2)	The cooling device type is unknown (not known or not monitored).
coolingDeviceTypeIsAFan(3)	The cooling device type is a fan.
coolingDeviceTypeIsABlower(4)	The cooling device type is a centrifugal blower.
coolingDeviceTypeIsAChipFan(5)	The cooling device type is a fan on an integrated circuit.
coolingDeviceTypeIsACabinetFan(6)	The cooling device type is a cabinet fan.
coolingDeviceTypeIsAPowerSupplyFan(7)	The cooling device type is a power supply fan.
coolingDeviceTypeIsAHeatPipe(8)	The cooling device type is a heat pipe.
coolingDeviceTypeIsRefrigeration(9)	The cooling device type is an integrated refrigeration unit.
coolingDeviceTypeIsActiveCooling(10)	The cooling device type is an active cooling device.
coolingDeviceTypeIsPassiveCooling(11)	The cooling device type is a passive cooling device.

Table 9-2. Cooling Device Subtype

Variable Name: DellCoolingDeviceSubType

Data Type: Integer

Possible Data Values	Meaning of Data Value
coolingDeviceSubTypeIsOther(1)	The cooling device subtype is not one of the following:
coolingDeviceSubTypeIsUnknown(2)	The cooling device subtype is unknown (not known or not monitored).
coolingDeviceSubTypeIsAFanThatReads InRPM(3)	The cooling device subtype is a fan that reads in RPMs.
coolingDeviceSubTypeIsAFanReadsONor OFF(4)	The cooling device subtype is a fan that reads 0 (off) or 1 (on).
coolingDeviceSubTypeIsAPowerSupply FanThatReadsinRPM(5)	The cooling device subtype is a power supply fan that reads in RPMs.
coolingDeviceSubTypeIsAPowerSupply FanThatReads- ONorOFF(6)	The cooling device subtype is a power supply fan that reads 0 (off) or 1 (on).
coolingDeviceSubTypeIsDiscrete(16)	The cooling device subtype is a cooling device with discrete reading.

Table 9-3. Cooling Device Discrete Reading

Variable Name: DellCoolingDeviceDiscreteReading

Possible Data Values	Meaning of Data Value
coolingDeviceIsGood(1)	The cooling device discrete reading is good.
coolingDeviceIsBad(2)	The cooling device discrete reading is bad.

Table 9-4. Temperature Probe Type

Variable Name: DellTemperatureProbeType

Data Type: Integer

Possible Data Values	Meaning of Data Value
temperatureProbeTypeIsOther(1)	The temperature probe subtype is not one of the following:
temperatureProbeTypeIsUnknown(2)	The temperature probe subtype is unknown (not known or not monitored).
temperatureProbeTypeIsAmbientESM(3)	The temperature probe is for ambient Embedded Systems Management (ESM).
temperatureProbeTypeIsDiscrete(16)	The temperature probe subtype is a temperature probe with discrete reading.

Table 9-5. Temperature Probe Discrete Reading

Variable Name: DellTemperatureDiscreteReading

Possible Data Values	Meaning of Data Value	
temperatureIsGood(1)	The temperature probe discrete reading is good.	
temperatureIsBad(2)	The temperature probe discrete reading is bad.	

# **User Security Group**

The User Security Table defines the objects that allow administrators to create and modify user accounts and to control which users can perform **Set** operations on managed systems.

## **User Security Group Table**

The User Security Group defines objects in the User Security MIB table.

## **User Security Table**

The following object sets up the User Security Table:

Name userSecurityTable

**Object ID** 1.3.6.1.4.1.674.10892.1.800

**Description** Contains the database of users that are authorized to perform

Set operations on a managed system.

**Syntax** UserSecurityTableEntry

Access Not accessible

## **User Security Table Entry**

Name userSecurityTableEntry
ObjectID 1.3.6.1.4.1.674.10892.1.800.1

**Description** Defines a row in the User Security Table.

Syntax UserSecurityTableEntry

Access Not accessible

Index userSecuritychassisIndex, userSecurityIndex

#### **User Security Chassis Index**

Name userSecuritychassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.800.1.1

**Description** Defines the user security index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

## **User Security Index**

Name userSecurityIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.800.1.2

 Description
 Defines the user security index.

**Syntax** DellObjectRange

Access Read-only

## **User Security User Name**

 Name
 userSecurityUserName

 Object ID
 1.3.6.1.4.1.674.10892.1.800.1.3

**Description** Defines the user security user name.

**Syntax** DellSecurityString

Access Read-only

## **User Security Control Name**

Name userSecurityControlName
Object ID 1.3.6.1.4.1.674.10892.1.800.1.4

**Description** Defines a control name used for creating, deleting, and editing

users.

**Syntax** DellSecurityString

Access Read-write

## **User Security Request Name**

 Name
 userSecurityRequestName

 Object ID
 1.3.6.1.4.1.674.10892.1.800.1.5

**Description** Defines a request name used for creating, deleting, and editing

users

Syntax DellSecurityString

**Access** Read-write

# Remote Flash BIOS Group

The Remote Flash Basic Input/Output System (BIOS) Table defines the variables used to remotely update the BIOS in a system. The variables also define the capabilities of BIOS updates on the system.

## Remote Flash BIOS Group Table

The Remote Flash BIOS Group defines objects in the Remote Flash BIOS MIB table.

#### **Remote Flash BIOS Table**

The following object sets up the Remote Flash BIOS Table:

Name remoteFlashBIOSTable

Object ID 1.3.6.1.4.1.674.10892.1.900.10

**Description** Defines the Remote Flash BIOS Table.

**Syntax** RemoteFlashBIOSTableEntry

**Access** Not accessible

## Remote Flash BIOS Table Entry

Name remoteFlashBIOSTableEntry
ObjectID 1.3.6.1.4.1.674.10892.1.900.10.1

**Description** Defines the Remote Flash BIOS Table entry.

**Syntax** RemoteFlashBIOSTableEntry

**Access** Not accessible

Index remoteFlashBIOSchassisIndex, remoteFlashBIOSIndex

#### Remote Flash BIOS Chassis Index

Name remoteFlashBIOSchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.900.10.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

**Access** Read-only

#### Remote Flash BIOS Index

Name remoteFlashBIOSIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.900.10.1.2

**Description** Defines the index to the remote BIOS update hardware on this

system.

**Syntax** DellObjectRange

Access Read-only

#### **Remote Flash BIOS State Capabilities Unique**

Name remoteFlashBIOSStateCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.900.10.1.3

**Description** Defines the capabilities of the remote BIOS update hardware on

this system.

Syntax DellRemoteFlashBIOSStateCapabilitiesUnique (See Table 11-1.)

Access Read-only

#### **Remote Flash BIOS State Settings Unique**

Name remoteFlashBIOSStateSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.900.10.1.4

**Description** Defines the state and settings of the remote BIOS update

hardware on this system.

**Syntax** DellRemoteFlashBIOSStateSettingsUnique (See Table 11-2.)

Access Read-write

ı

#### **Remote Flash BIOS Status**

Name remoteFlashBIOSStatus

ObjectID 1.3.6.1.4.1.674.10892.1.900.10.1.5

**Description** Defines the status of the remote BIOS update hardware on

this system.

**Syntax** DellRemoteFlashBIOSStateStatus

Access Read-only

#### **Remote Flash BIOS Last BIOS Date Name**

Name remoteFlashBIOSLastBIOSDateName

**Object ID** 1.3.6.1.4.1.674.10892.1.900.10.1.6

**Description** Defines the date of the last BIOS update.

**Syntax** DellDateName

Access Read-only

## Remote Flash BIOS Completion Code

Name remoteFlashBIOSCompletionCode

**Object ID** 1.3.6.1.4.1.674.10892.1.900.10.1.7

**Description** Defines the completion code of the last BIOS update.

**Syntax** DellRemoteFlashBIOSCompletionCode (See Table 11-3.)

Access Read-only

## **Remote Flash BIOS Minimum Contiguous Memory**

Name remoteFlashBIOSMinimumContiguousMemory

**Object ID** 1.3.6.1.4.1.674.10892.1.900.10.1.8

**Description** Defines the minimum size of contiguous memory required for

remote BIOS update in kilobytes.

**Syntax** DellUnsigned32BitRange

## **Remote Flash BIOS Variable Values**

This section includes definitions for server administrator-specific variable values used in this section.

Table 11-1. Remote Flash BIOS State Capabilities Unique

Variable Name: DellRemoteFlashBIOSStateCapabilitiesUnique

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(1)	The remote flash BIOS's capabilities are unknown.
enableCapable(2)	The remote flash BIOS can be disabled (offline, a binary 0 value) or enabled (online, a binary 1 value).
notReadyCapable(4)	The remote flash BIOS can be set to indicate not ready.
cancelCapable(8)	Flash of BIOS can be canceled.
enableAndCancelCapable(10)	Flash of BIOS can be enabled or canceled.

Table 11-2. Remote Flash BIOS State Settings

 $\textbf{Variable Name:} \ \texttt{DellRemoteFlashBIOSS} tate \texttt{SettingsUnique}$ 

Possible Data Values	Meaning of Data Value
unknown(1)	The remote flash BIOS's capabilities are unknown.
enabled(2)	The remote flash BIOS update is disabled (offline, a binary 0 value) or enabled (online, a binary 1 value).
notReady(4)	The remote flash BIOS's state is not ready.
canceled(8)	The remote flash BIOS has been canceled.
pending(16)	The remote flash BIOS update is pending.
other(32)	The remote flash BIOS state/setting is not one of the previous values.

Table 11-3. Remote Flash BIOS Completion Code

Variable Name: DellRemoteFlashBIOSCompletionCode

Possible Data Values	Meaning of Data Value
completionCodeIsOther(1)	The completion code status is not one of the following:
completionCodeIsUnknown(2)	The completion code is unknown (not known or not monitored).
completionCodeIsOK(3)	This completion code completed successfully.
completionCodeIsBadImage(4)	This completion code is a bad flash BIOS image.
completionCodeIsNoFileAccess(5)	Flash BIOS could not be accessed.
completionCodeIsNotReady(6)	Flash BIOS memory not ready.
completionCodeIsDisabled(7)	Flash BIOS is currently disabled.
completionCodeIsNoBattery(8)	A battery must be installed.
completionCodeIsNoChargedBattery(9)	A fully charged battery must be installed.
completionCodeIsNoExternalPower(10)	An external power adapter must be connected.
completionCodeIsNo12VoltSet(11)	12 volts (V) could not be set.
completionCodeIsNo12VoltRemoval(12)	12 V could not be removed.
completionCodeIsFlashMemoryFailed (13)	A flash memory failure occurred.
completionCodeIsGeneralFailure(14)	A general failure occurred.
completionCodeIsDataMiscompare(15)	A data miscompare error occurred.
completionCodeIsNoImageFound(16)	The flash BIOS image could not be found in memory.
completionCodeIsNoUpdatePerformed (17)	No update operation has been performed.

# **Port Group**

The Port Group provides information about the different types of ports that may be present in your system. This management information base (MIB) group also provides information about the capabilities, states, and settings that are possible for each port.

# **Port Group Tables**

The following MIB tables define objects in the Port Group:

- Pointing Port Table
- Keyboard Port Table
- Processor Port Table
- Memory Device Port Table
- Monitor Port Table
- Small Computer System Interface (SCSI) Port Table
- Parallel Port Table
- Serial Port Table
- Universal Serial Bus (USB) Port Table

# **Pointing Port Table**

Name pointingPortTable

Object ID1.3.6.1.4.1.674.10892.1.1000.10DescriptionDefines the Pointing Port Table.SyntaxIntegerPointingPortTableEntry

**Access** Not accessible

#### **Pointing Port Table Entry**

 Name
 pointingPortTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.10.1

**Description** Defines the Pointing Port Table entry.

**Syntax** PointingPortTableEntry

**Access** Not accessible

**Index** pointingPortchassisIndex, pointingPortIndex

## **Pointing Port Chassis Index**

 Name
 pointingPortchassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.10.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

## **Pointing Port Index**

Name pointingPortIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.10.1.2

**Description** Defines the index of the pointing ports in this chassis.

**Syntax** DellObjectRange

Access Read-only

# **Pointing Port State Capabilities**

Name pointingPortStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.10.3

**Description** Defines the capabilities of the pointing port.

Syntax DellStateCapabilities

#### **Pointing Port State Settings**

Name pointingPortStateSettings
ObjectID 1.3.6.1.4.1.674.10892.1.1000.10.4

**Description** Defines the state and settings of the pointing port.

**Syntax** DellStateSettings

Access Read-write

#### **Pointing Port Status**

Name pointingPortStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.10.5

**Description** Defines the status of the pointing port.

Syntax DellStatus
Access Read-only

## **Pointing Port Security State**

Name pointingPortSecurityState
ObjectID 1.3.6.1.4.1.674.10892.1.1000.10.6

**Description** Defines the security settings of the pointing port.

Syntax DellPortSecurityState

Access Read-only

# **Pointing Port Connector Type**

 Name
 pointingPortConnectorType

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.10.7

**Description** Defines the connector type of the pointing port. **Syntax** DellPointingPortConnectorType (See Table 12-1.)

#### **Pointing Port Name**

Name pointingPortName

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.10.8

**Description** Defines the name of the pointing port.

Syntax DellString
Access Read-only

## **Pointing Port BIOS Connector Type**

Name pointingPortBIOSConnectorType

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.10.9

**Description** Defines the basic input/output system (BIOS) connector type of

the pointing port.

**Syntax** DellGenericPortConnectorType

Access Read-only

# **Keyboard Port Table**

Name keyboardPortTable

Object ID1.3.6.1.4.1.674.10892.1.1000.20DescriptionDefines the Keyboard Port Table.SyntaxIntegerKeyboardPortTableEntry

Access

Not accessible

## **Keyboard Port Table Entry**

 Name
 keyboardPortTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.20.1

**Description** Defines the Keyboard Port Table entry.

**Syntax** KeyboardPortTableEntry

**Access** Not accessible

Index keyboardPortchassisIndex, keyboardPortIndex

## **Keyboard Port Chassis Index**

 Name
 keyboardPortchassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.20.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

## **Keyboard Port Index**

Name keyboardPortIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.20.1.2

**Description** Defines the index of the keyboard ports in this chassis.

**Syntax** DellObjectRange

Access Read-only

## **Keyboard Port State Capabilities**

Name keyboardPortStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.20.1.3

**Description** Defines the capabilities of the keyboard port.

**Syntax** DellStateCapabilities

Access Read-only

# **Keyboard Port State Settings**

 Name
 keyboardPortStateSettings

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.20.1.4

**Description** Defines the state and settings of the keyboard port.

**Syntax** DellStateSettings

## **Keyboard Port Status**

Name keyboardPortStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.20.1.5

**Description** Defines the status of the keyboard port.

Syntax DellStatus
Access Read-only

#### **Keyboard Port Security State**

Name keyboardPortSecurityState

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.20.1.6

**Description** Defines the security settings of the keyboard port.

Syntax DellPortSecurityState

Access Read-only

## **Keyboard Port Connector Type**

 Name
 keyboardPortConnectorType

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.20.1.7

**Description** Defines the connector type of the keyboard port. **Syntax** DellKeyboardPortConnectorType (See Table 12-2.)

Access Read-only

## **Keyboard Port Name**

Name keyboardPortName

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.20.1.8

**Description** Defines the name of the keyboard port.

Syntax DellString
Access Read-only

## **Keyboard Port BIOS Connector Type**

Name keyboardPortBIOSConnectorType

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.20.1.9

**Description** Defines the BIOS connector type of the keyboard port.

**Syntax** DellGenericPortConnectorType

Access Read-only

#### **Processor Port Table**

Name processorPortTable

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.30

 Description
 Defines the Processor Port Table.

 Syntax
 IntegerProcessorPortTableEntry

Access Not accessible

#### **Processor Port Table Entry**

Name processorPortTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.30.1

**Description** Defines the Processor Port Table entry.

**Syntax** ProcessorPortTableEntry

**Access** Not accessible

Index processorPortchassisIndex, processorPortIndex

#### **Processor Port Chassis Index**

Name processorPortchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.30.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange

#### **Processor Port Index**

Name processorPortIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.30.1.2

**Description** Defines the index of the processor ports in this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **Processor Port State Capabilities**

Name processorPortStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.30.1.3

**Description** Defines the capabilities of the processor port.

**Syntax** DellStateCapabilities

Access Read-only

## **Processor Port State Settings**

Name processorPortStateSettings
Object ID 1.3.6.1.4.1.674.10892.1.1000.30.1.4

**Description** Defines the state and settings of the processor port.

**Syntax** DellStateSettings

Access Read-write

#### **Processor Port Status**

Name processorPortStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.30.1.5

**Description** Defines the status of the processor port.

Syntax DellStatus
Access Read-only

## **Processor Port Security State**

Name processorPortSecurityState

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.30.1.6

**Description** Defines the security settings of the processor port.

**Syntax** DellPortSecurityState

Access Read-only

## **Processor Port Connector Type**

Name processorPortConnectorType

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.30.1.7

**Description** Defines the connector type of the processor port. **Syntax** DellProcessorPortConnectorType (See Table 12-3.)

Access Read-only

#### **Processor Port Name**

Name processorPortName

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.30.1.8

**Description** Defines name of the processor port.

Syntax DellString
Access Read-only

## **Processor Port BIOS Connector Type**

Name processorPortBIOSConnectorType

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.30.1.9

**Description** Defines the BIOS connector type of the processor port.

Syntax DellGenericPortConnectorType

# **Memory Device Port Table**

Name memoryDevicePortTable

Object ID 1.3.6.1.4.1.674.10892.1.1000.40

Description Defines the Memory Device Port Table.

Syntax IntegerMemoryDevicePortTableEntry

**Access** Not accessible

## **Memory Device Port Table Entry**

Name memoryDevicePortTableEntry

 $\textbf{Object ID} \qquad \qquad 1.3.6.1.4.1.674.10892.1.1000.40.1$ 

**Description** Defines the Memory Device Port Table entry.

**Syntax** MemoryDevicePortTableEntry

**Access** Not accessible

Index memoryDevicePortchassisIndex, memoryDevicePortIndex

## **Memory Device Port Chassis Index**

Name memoryDevicePortchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.40.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

## **Memory Device Port Index**

Name memoryDevicePortIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.40.1.2

**Description** Defines the index of the memory device port in this chassis.

Syntax DellObjectRange

## **Memory Device Port State Capabilities**

Name memoryDevicePortStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.40.1.3

**Description** Defines the capabilities of the memory device port.

**Syntax** DellStateCapabilities

Access Read-only

## **Memory Device Port State Settings**

Name memoryDevicePortStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.40.1.4

**Description** Defines the state and settings of the memory device port.

Syntax DellStateSettings

Access Read-write

## **Memory Device Port Status**

Name memoryDevicePortStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.40.1.5

**Description** Defines the status of the memory device port.

Syntax DellStatus
Access Read-only

# **Memory Device Port Security State**

Name memoryDevicePortSecurityState

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.40.1.6

**Description** Defines the security settings of the memory device port.

Syntax DellPortSecurityState

## **Memory Device Port Connector Type**

Name memoryDevicePortConnectorType

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.40.1.7

**Description** Defines the connector type of the memory device port. **Syntax** DellMemoryDevicePortConnectorType (See Table 12-4.)

Access Read-only

#### **Memory Device Port Name**

Name memoryDevicePortName

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.40.1.8

**Description** Defines the name of the memory device port.

Syntax DellString
Access Read-only

#### **Memory Device Port BIOS Connector Type**

Name memoryDevicePortBIOSConnectorType

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.40.1.9

**Description** Defines the BIOS connector type of the memory device port.

**Syntax** DellGenericPortConnectorType

Access Read-only

# Memory Device Port Physical Memory Array Index Reference

Name memoryDevicePortPhysicalMemoryArrayIndexReference

 $\textbf{Object ID} \qquad 1.3.6.1.4.1.674.10892.1.1000.40.1.10$ 

**Description** Defines the index to the associated physical memory array.

**Syntax** DellUnsigned32BitRange

## **Memory Device Port Physical Memory Card Index Reference**

Name memoryDevicePortPhysicalMemoryCardIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.40.1.11

**Description** Defines the index (one-based) of the Physical Memory Card Table

entry for the physical memory card with the same chassis index that

this memory device port is associated with (if any).

**Syntax** DellUnsigned32BitRange

Access Read-only

## **Monitor Port Table**

Name monitorPortTable

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.50

 Description
 Defines the Monitor Port Table.

**Syntax** IntegerMonitorPortTableEntry

Access Not accessible

## **Monitor Port Table Entry**

Name monitorPortTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.50.1

**Description** Defines the Monitor Port Table entry.

Syntax MonitorPortTableEntry

Access Not accessible

Index monitorPortchassisIndex, monitorPortIndex

#### **Monitor Port Chassis Index**

Name monitorPortchassisIndex
ObjectID 1.3.6.1.4.1.674.10892.1.1000.50.1.1

**Description** Defines the index (one-based) of this chassis

Syntax DellObjectRange

#### **Monitor Port Index**

Name monitorPortIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.50.1.2

**Description** Defines the index of the monitor ports in this chassis.

**Syntax** DellObjectRange

Access Read-only

## **Monitor Port State Capabilities**

Name monitorPortStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.50.1.3

**Description** Defines the capabilities of the monitor port.

**Syntax** DellStateCapabilities

Access Read-only

## **Monitor Port State Settings**

Name monitorPortStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.50.1.4

**Description** Defines the state of the monitor port.

**Syntax** DellStateSettings

Access Read-write

#### **Monitor Port Status**

Name monitorPortStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.50.1.5

**Description** Defines the status of the monitor port.

Syntax DellStatus
Access Read-only

#### **Monitor Port Security State**

Name monitorPortSecurityState
ObjectID 1.3.6.1.4.1.674.10892.1.1000.50.1.6

**Description** Defines the security settings of the monitor port.

**Syntax** DellPortSecurityState

Access Read-only

## **Monitor Port Connector Type**

 Name
 monitorPortConnectorType

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.50.1.7

Description Defines the connector type of the monitor port.

Syntax DellMonitorPortConnectorTypes (See Table 12-5.)

Access Read-only

#### **Monitor Port Name**

Name monitorPortName

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.50.1.8

**Description** Defines the name of the monitor port.

Syntax DellString
Access Read-only

# **Monitor Port BIOS Connector Type**

 Name
 monitorPortBIOSConnectorType

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.50.1.9

**Description** Defines the name of the BIOS connector type of the monitor port.

**Syntax** DellGenericPortConnectorType

## **Small Computer System Interface (SCSI) Port Table**

Name scsiPortTable

Object ID1.3.6.1.4.1.674.10892.1.1000.60DescriptionDefines the SCSI Port Table.SyntaxIntegerSCSIPortTableEntry

Access Not accessible

#### **SCSI Port Table Entry**

Name sCSIPortTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.60.1

 Description
 Defines the SCSI Port Table entry.

**Syntax** SCSIPortTableEntry

**Access** Not accessible

Index sCSIPortchassisIndex, sCSIPortIndex

#### **SCSI Port Chassis Index**

Name sCSIPortchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.60.1.1

**Description** Defines the index (one-based) of this chassis

**Syntax** DellObjectRange

Access Read-only

#### **SCSI Port Index**

Name sCSIPortIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.60.1.2

**Description** Defines the index of the SCSI ports in this chassis.

**Syntax** DellObjectRange

Access Read-only

1

## **SCSI Port State Capabilities**

Name sCSIPortStateCapabilities
ObjectID 1.3.6.1.4.1.674.10892.1.1000.60.1.3

**Description** Defines the capabilities of the SCSI port.

**Syntax** DellStateCapabilities

Access Read-only

## **SCSI Port State Settings**

Name DellStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.60.1.4

**Description** Defines the state and settings of the SCSI port.

Syntax DellStatus
Access Read-write

#### **SCSI Port Status**

Name sCSIPortStatus

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.60.1.5

 Description
 Defines the status of the SCSI port.

Syntax DellStatus
Access Read-only

# **SCSI Port Security State**

Name sCSIPortSecurityState

 $\textbf{Object ID} \qquad \qquad 1.3.6.1.4.1.674.10892.1.1000.60.1.6$ 

**Description** Defines the security settings of the SCSI port.

**Syntax** DellPortSecurityState

## **SCSI Port Connector Type**

Name scsiPortConnectorType

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.60.1.7

**Description** Defines the connector type of the SCSI port. **Syntax** DellSCSIPortConnectorType (See Table 12-6.)

Access Read-only

#### **SCSI Port Name**

Name scsiPortName

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.60.1.8

**Description** Defines the name of the SCSI port.

Syntax DellString
Access Read-only

## **SCSI Port BIOS Connector Type**

Name sCSIPortBIOSConnectorType
Object ID 1.3.6.1.4.1.674.10892.1.1000.60.1.9

**Description** Defines the BIOS connector type of the SCSI port.

**Syntax** DellGenericPortConnectorType

Access Read-only

## **Parallel Port Table**

Name parallelPortTable

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.70

 Description
 Defines the Parallel Port Table.

 Syntax
 IntegerParallelPortTableEntry

Access Not accessible

#### **Parallel Port Table Entry**

NameparallelPortTableEntryObject ID1.3.6.1.4.1.674.10892.1.1000.70.1DescriptionDefines the Parallel Port Table entry.

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**Syntax** ParallelPortTableEntry

**Access** Not accessible

Index parallelPortchassisIndex, parallelPortIndex

#### **Parallel Port Chassis Index**

 Name
 parallelPortchassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.70.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **Parallel Port Index**

Name parallelPortIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.70.1.2

**Description** Defines the index of the parallel ports in this chassis.

**Syntax** DellObjectRange

Access Read-only

## **Parallel Port State Capabilities**

Name parallelPortStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.70.1.3

**Description** Defines the capabilities of the parallel port.

**Syntax** DellStateSettings

Access Read-write

## **Parallel Port State Settings**

 Name
 parallelPortStateSettings

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.70.1.4

**Description** Defines the state and settings of the parallel port.

Syntax DellStateSettings

Access Read-write

#### **Parallel Port Status**

Name parallelPortStatus

Object ID 1.3.6.1.4.1.674.10892.1.1000.70.1.5

Description Defines the status of the parallel port.

Syntax DellStatus
Access Read-only

## **Parallel Port Security State**

Name DellPortSecurityState
Object ID 1.3.6.1.4.1.674.10892.1.1000.70.1.6

**Description** Defines the security state of the parallel port.

Syntax DellStatus
Access Read-only

# **Parallel Port Connector Type**

Name parallelPortConnectorType

Object ID 1.3.6.1.4.1.674.10892.1.1000.70.1.7

**Description** Defines the connector type of the parallel port.

**Syntax** DellParallelPortConnectorType

Access Read-only

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#### **Parallel Port Name**

Name parallelPortName

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.70.1.8

 Description
 Defines the name of the parallel port.

Syntax DellString
Access Read-only

#### **Parallel Port Connector Pin Out**

NameparallelPortConnectorPinOutObject ID1.3.6.1.4.1.674.10892.1.1000.70.1.9DescriptionDefines the pinout of the parallel port.SyntaxDellParallelPortConnectorPinout

Access Read-only

## **Parallel Port Capabilities Unique**

Name parallelPortCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.70.1.10

**Description** Defines the capabilities of the parallel port.

Svntax DellParallelPortConnectorPinout

Access Read-only

## Parallel Port Base I/O Address

 Name
 parallelPortBaseIOAddress

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.70.1.11

**Description** Defines the Base Input/Output (I/O) address of the parallel port.

**Syntax** DellUnsigned64BitRange

#### Parallel Port IRQ Level

Name parallelPortIRQLevel

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.70.1.12

**Description** Defines the Interrupt Request Level (IRQ) of the parallel port.

**Syntax** DellUnsigned8BitRange

Access Read-only

#### **Parallel Port DMA Support**

Name parallelPortDMASupport

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.70.1.13

**Description** Defines if direct memory access (DMA) is supported by the

parallel port.

Syntax DellBoolean
Access Read-only

# **Serial Port Table**

Name serialPortTable

Object ID1.3.6.1.4.1.674.10892.1.1000.80DescriptionDefines the Serial Port Table.SyntaxIntegerSerialPortTableEntry

**Access** Not accessible

## **Serial Port Table Entry**

Name serialPortTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.80.1

**Description** Defines the Serial Port Table entry.

**Syntax** SerialPortTableEntry

**Access** Not accessible

Index serialPortchassisIndex, serialPortIndex

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#### **Serial Port Chassis Index**

Name serialPortchassisIndex
ObjectID 1.3.6.1.4.1.674.10892.1.1000.80.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **Serial Port Index**

Name serialPortIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.80.1.2

**Description** Defines the index of the serial ports in this chassis.

**Syntax** DellObjectRange

Access Read-only

## **Serial Port State Capabilities**

Name serialPortStateCapabilities
ObjectID 1.3.6.1.4.1.674.10892.1.1000.80.1.3

**Description** Defines the capabilities of the serial port.

Syntax DellStateCapabilities

Access Read-only

# **Serial Port State Settings**

Name serialPortStateSettings
ObjectID 1.3.6.1.4.1.674.10892.1.1000.80.1.4

**Description** Defines the state and settings of the serial port.

Syntax DellStateSettings

Access Read-write

#### **Serial Port Status**

Name serialPortStatus

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.80.1.5

 Description
 Defines the status of the serial port.

Syntax DellStatus
Access Read-only

#### **Serial Port Security State**

Name serialPortSecurityState

 $\textbf{Object ID} \qquad \qquad 1.3.6.1.4.1.674.10892.1.1000.80.1.6$ 

**Description** Defines the security settings of the serial port.

**Syntax** DellPortSecurityState

Access Read-only

## **Serial Port Connector Type**

Name serialPortConnectorType
Object ID 1.3.6.1.4.1.674.10892.1.1000.80.1.7

**Description** Defines connector type of the serial port.

**Syntax** DellSerialPortConnectorType

Access Read-only

#### **Serial Port Name**

Name serialPortName

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.80.1.8

 Description
 Defines the name of the serial port.

Syntax DellString
Access Read-only

#### **Serial Port Maximum Speed**

Name serialPortMaximumSpeed
ObjectID 1.3.6.1.4.1.674.10892.1.1000.80.1.9

**Description** Defines the maximum speed the serial interface can support in

bits per second (bps).

**Syntax** DellUnsigned32BitRange

Access Read-only

## **Serial Port Capabilities Unique**

Name serialPortCapabilitiesUnique

Obiect ID 1.3.6.1.4.1.674.10892.1.1000.80.1.10

**Description** Defines additional capabilities of the serial port.

**Syntax** DellSerialPortCapabilitiesUnique

Access Read-only

## Serial Port Base I/O Address

 Name
 serialPortBaseIOAddress

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.80.1.11

**Description** Defines the base I/O address of the serial port.

Syntax DellUnsigned64BitRange

Access Read-only

#### Serial Port IRQ Level

Name serialPortIRQLevel

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.80.1.12

 Description
 Defines the IRQ of the serial port.

Syntax DellUnsigned8BitRange

## **Universal Serial Bus (USB) Port Table**

Name uSBPortTable

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.90

 Description
 Defines the USB Port Table.

 Syntax
 IntegerUSBPortTableEntry

Access Not accessible

## **USB Port Table Entry**

Name uSBPortTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.1000.90.1

 Description
 Defines the USB Port Table entry.

**Syntax** USBPortTableEntry

**Access** Not accessible

Index uSBPortchassisIndex, uSBPortIndex

#### **USB Port Chassis Index**

Name uSBPortchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.90.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **USB Port Index**

Name uSBPortIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.90.1.2

**Description** Defines the index of the USB ports in this chassis

**Syntax** DellObjectRange

#### **USB Port State Capabilities**

Name uSBPortStateCapabilities
ObjectID 1.3.6.1.4.1.674.10892.1.1000.90.1.3

**Description** Defines the capabilities of the USB port.

**Syntax** DellStateCapabilities

Access Read-only

## **USB Port State Settings**

Name uSBPortStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.90.1.4

**Description** Defines the state and settings of the USB port.

Syntax DellStateSettings

Access Read-write

#### **USB Port Status**

Name uSBPortStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.90.1.5

**Description** Defines the state of the USB port.

Syntax DellStatus
Access Read-only

# **USB Port Security State**

Name uSBPortSecurityState

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.90.1.6

**Description** Defines the security settings of the USB port.

Syntax DellPortSecurityState

## **USB Port Connector Type**

Name uSBPortConnectorType

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.90.1.7

**Description** Defines the connector type of the USB port.

**Syntax** DellUSBPortConnectorType

Access Read-only

#### **USB Port Name**

Name uSBPortName

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.90.1.8

**Description** Defines the name of the USB port.

Syntax DellString

Access Read-only

## **USB Port BIOS Connector Type**

Name uSBPortBIOSConnectorType

**Object ID** 1.3.6.1.4.1.674.10892.1.1000.90.1.9

 $\label{eq:Description} \textbf{Defines the BIOS connector type of the USB port.}$ 

**Syntax** DellGenericPortConnectorType

# **Port Group Variable Values**

This section includes definitions for server administrator-specific variable values used in this section.

Table 12-1. Pointing Port Connector Type

Variable Name: DellPointingPortConnectorType

Possible Data Values	Meaning of Data Value
<pre>connectorPortTypeIsOther(1)</pre>	The pointing port connector type is not one of the following:
connectorPortTypeIsUnknown(2)	The pointing port connector type is unknown.
connectorPortTypeIsSerial(3)	The pointing port connector type is serial.
connectorPortTypeIsPS2(4)	The pointing port connector type is a Personal System/2 (PS/2).
connectorPortTypeIsInfrared(5)	The pointing port connector type is infrared.
connectorPortTypeIsHPHIL(6)	The pointing port connector type is HP-HIL.
connectorPortTypeIsBusMouse(7)	The pointing port connector type is a bus mouse.
connectorPortTypeIsADB(8)	The pointing port connector type is ADB.
connectorPortTypeIsDB9(9)	The pointing port connector type is nine-pin DB-9.
connectorPortTypeIsMicroDIN(10)	The pointing port connector type is micro Deutsche Industrie Norm (DIN).
connectorPortTypeIsAccessBusUSB (11)	The pointing port connector type is Access Bus USB.
connectorPortTypeIsPC98(12)	The port connector type is a PC-98.

**Table 12-2.** Keyboard Port Connector Types

Variable Name: DellKeyboardPortConnectorType

Possible Data Values	Meaning of Data Value
connectorPortTypeIsOther(1)	The keyboard port connector type is not one of the following:
connectorPortTypeIsUnknown(2)	The keyboard port connector type is unknown.
connectorPortTypeIsMiniDIN(3)	The keyboard port connector type is a mini DIN.
connectorPortTypeIsMicroDIN(4)	The keyboard port connector type is a MicroDIN.
connectorPortTypeIsPS2(5)	The keyboard port connector type is PS/2.
connectorPortTypeIsInfrared(6)	The keyboard port connector type is infrared.
connectorPortTypeIsHPHIL(7)	The keyboard port connector type is HP-HIL.
connectorPortTypeIsDB9(8)	The keyboard port connector type is DB-9.
connectorPortTypeIsAccessBusUSB(9)	The keyboard port connector type is bus USB.
connectorPortTypeIsPC98(10)	The keyboard port connector type is PC-98.

Table 12-3. Processor Port Connector Types

Variable Name: DellProcessorPortConnectorType

Possible Data Values	Meaning of Data Value
connectorPortTypeIsOther(1)	The processor port connector type is not one of the following:
connectorPortTypeIsUnknown(2)	The processor port connector type is unknown.
connectorPortTypeIsDaughterdBoard(3)	The processor port connector type is a daughter board.
connectorPortTypeIsZIFSocket(4)	The processor port connector type is a zero insertion force (ZIF) socket.
connectorPortTypeIsAPiggyBackBoard(5)	The processor port connector type is a replacement piggyback board.
connectorPortTypeIsNone(6)	There is no processor port connector; processor is soldered in place.
connectorPortTypeIsLIFSocket(7)	The processor port connector type is a low insertion force (LIF) socket.
connectorPortTypeIsSlot1(8)	The processor port connector type is a slot one.
connectorPortTypeIsSlot2(9)	The processor port connector type is a slot two.
connectorPortTypeIs370PinSocket(10)	The processor port connector type is a 370 pin socket.

Table 12-4. Memory Device Port Connector Types

Variable Name: DellMemoryDevicePortConnectorType

Possible Data Value	Meaning of Data Value
connectorPortTypeIsOther(1)	The memory device port connector type is not one of the following:
connectorPortTypeIsUnknown(2)	The memory device port connector type is unknown.
connectorPortTypeIsSIMM(3)	The memory device port connector type is a single in-line memory module (SIMM).
connectorPortTypeIsSIP(4)	The memory device port connector type is a SIP.
connectorPortTypeIsAChip(5)	The memory device port connector type is a chip.
connectorPortTypeIsDIP(6)	The memory device port connector type is a dual in-line package (DIP).
connectorPortTypeIsZIP(7)	The memory device port connector type is a ZIP.
connectorPortTypeIsAProprietaryCard(8)	The memory device port connector type is a proprietary card.
connectorPortTypeIsDIMM(9)	The memory device port connector type is a dual in-line memory module (DIMM).
connectorPortTypeIsTSOP(10)	The memory device port connector type is a TSOP.
connectorPortTypeIsARowOfChips(11)	The memory device port connector type is a row of chips.

Table 12-4. Memory Device Port Connector Types (continued)

Variable Name: DellMemoryDevicePortConnectorType

Data Type: Integer

Possible Data Value	Meaning of Data Value
connectorPortTypeIsRIMM(12)	The memory device port connector type is a Rambus Inline Memory Module (RIMM).
connectorPortTypeIsSODIMM(13)	The memory device port connector type is a small outline, dual in-line memory module (SODIMM).
connectorPortTypeIsSRIMM(14)	The memory device port connector type is a SRIMM.

**Table 12-5.** Monitor Port Connector Types

Variable Name: DellMonitorPortConnectorType

Possible Data Values	Meaning of Data Value
connectorPortTypeIsOther(1)	The monitor port connector type is not one of the following:
connectorPortTypeIsUnknown(2)	The monitor port connector type is unknown.
connectorPortTypeIsDB15PinMale(3)	The monitor port connector type is a male DB-15.
connectorPortTypeIsDB15PinFemale(4)	The monitor port connector type is a female DB-15.

Table 12-6. SCSI Port Connector Types

Variable Name: DellSCSIPortConnectorType

Possible Data Values	Meaning of Data Value
<pre>connectorPortTypeIsOther(1)</pre>	The SCSI port connector type is not one of the following:
connectorPortTypeIsUnknown(2)	The SCSI port connector type is unknown.
<pre>connectorPortTypeIsDIN25pin(3)</pre>	The SCSI port connector type is a DIN 25-pin.
connectorPortTypeIsDIN50pin(4)	The SCSI port connector type is a DIN 50-pin.
connectorPortTypeIsDIN68pin(5)	The SCSI port connector type is a DIN 68-pin.

# **Device Group**

The Device Group provides information about different types of pointing, keyboard, processor, cache, memory, and peripheral component interconnect (PCI) devices. Variables in this group cover information about type, settings, configuration, manufacturer, address or location, and if applicable, the speed of the device.

# **Device Tables**

The following management information base (MIB) tables define objects in the Device Group:

- Pointing Device Table
- Keyboard Device Table
- Processor Device Table
- Processor Device Status Table
- Cache Device Table
- Memory Device Table
- Memory Device Mapped Address Table
- Generic Device Table
- PCI Device Table
- PCI Device Configuration Space Table
- Network Device Table
- Managed System Services Device Table

## **Pointing Device Table**

Name pointingDeviceTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.10

**Description** Defines the Pointing Device Table. This group of objects

references the Pointing Port Index (See Section 12).

**Syntax** SEQUENCE OF PointingDeviceTableEntry

**Access** Not accessible

#### Pointing Device Table Entry

Name pointingDeviceTableEntry

Object ID 1.3.6.1.4.1.674.10892.1.1100.10.1

**Description** Defines the Pointing Device Table entry.

**Syntax** PointingDeviceTableEntry

**Access** Not accessible

Index pointingDevicechassisIndex, pointingDeviceIndex

## **Pointing Device Chassis Index**

Name pointingDevicechassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.10.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

# Pointing Device Index

Name pointingDeviceIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.10.1.2

**Description** Defines the index of the pointing device in this chassis.

Syntax DellObjectRange

### **Pointing Device State Capabilities**

Name pointingDeviceStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.10.1.3

**Description** Defines the capabilities of the pointing device.

**Syntax** DellStateCapabilities

Access Read-only

### **Pointing Device State Settings**

Name pointingDeviceStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.10.1.4

**Description** Defines the state of the pointing device.

Syntax DellStateSettings

Access Read-write

# **Pointing Device Status**

Name pointingDeviceStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.10.1.5

**Description** Defines the status of the pointing device.

Syntax DellStatus
Access Read-only

# **Pointing Port Index Reference**

Name pointingPortIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.10.1.6

**Description** Defines the index to the pointing port in this chassis.

Syntax DellObjectRange

### **Pointing Device Type**

Name pointingDeviceType

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.10.1.7

**Description** Defines the type of the pointing device.

**Syntax** DellPointingDeviceType (See Table 13-1.)

Access Read-only

# **Pointing Device Number of Buttons**

Name pointingDeviceNumberofButtons

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.10.1.8

**Description** Defines the number of buttons on the pointing device.

**Syntax** DellUnsigned8BitRange

Access Read-only

# **Keyboard Device Table**

Name keyboardDeviceTableEntry
Object ID 1.3.6.1.4.1.674.10892.1.1100.20

**Description** Defines the Keyboard Device Table. This table references the

Keyboard Port Index (See Section 12).

**Syntax** SEQUENCE OF KeyboardDeviceTableEntry

**Access** Not accessible

# **Keyboard Device Table Entry**

 Name
 keyboardDeviceTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.20.1

**Description** Defines the Keyboard Device Table entry.

**Syntax** KeyboardDeviceTableEntry

**Access** Not accessible

Index keyboardDevicechassisIndex, keyboardDeviceIndex

### **Keyboard Device Chassis Index**

Name keyboardDevicechassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.20.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

# **Keyboard Device Index**

Name keyboardDeviceIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.20.1.2

**Description** Defines the index of the keyboard device for this chassis.

**Syntax** DellObjectRange

Access Read-only

# **Keyboard Device State Capabilities**

Name keyboardDeviceStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.20.1.3

**Description** Defines the capabilities of the keyboard device.

Syntax DellStateCapabilities

**Access** Read-only

# **Keyboard Device State Settings**

Name keyboardDeviceStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.20.1.4

**Description** Defines the state of the keyboard device.

**Syntax** DellStatesSettings

Access Read-write

### **Keyboard Device Status**

Name keyboardDeviceStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.20.1.5

**Description** Defines the status of the keyboard device.

Syntax DellStatus
Access Read-only

#### **Keyboard Port Index Reference**

Name keyboardPortIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.20.1.6

**Description** Defines the index to the associated the keyboard port in

this chassis.

Syntax DellStatus
Access Read-only

# **Keyboard Device Type Name**

Name keyboardDeviceTypeName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.20.1.7

**Description** Defines the name of the keyboard type.

Syntax DellString
Access Read-only

# **Keyboard Device Layout Name**

Name keyboardDeviceLayoutName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.20.1.8

**Description** Defines the name of the keyboard layout.

Syntax DellString
Access Read-only

### **Processor Device Table**

Name processorDeviceTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30

**Description** Defines the Processor Device Table.

**Syntax** SEQUENCE OF Processor Device Table Entry

**Access** Not accessible

### **Processor Device Table Entry**

Name processorDeviceTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1

**Description** Defines the Processor Device Table entry.

**Syntax** ProcessorDeviceTableEntry

**Access** Not accessible

Index processorDevicechassisIndex, processorDeviceIndex

#### **Processor Device Chassis Index**

Name processorDevicechassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange

Access Read-only

#### **Processor Device Index**

Name processorDeviceIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.2

**Description** Defines the index of the processor device in this chassis.

Syntax DellObjectRange

## **Processor Device State Capabilities**

Name processorDeviceStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.3

**Description** Defines the capabilities of the processor device.

**Syntax** DellStateCapabilities

Access Read-only

### **Processor Device State Settings**

Name processorDeviceStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.4

**Description** Defines the state of the processor device.

Syntax DellStateSettings

Access Read-write

### **Processor Device Status**

Name processorDeviceStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.5

**Description** Defines the status of the processor device.

Syntax DellStatus
Access Read-only

#### **Processor Port Index Reference**

Name processorPortIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.6

**Description** Defines the index to the associated processor port in this

chassis.

**Syntax** DellObjectRange

### **Processor Device Type**

Name processorDeviceType

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.30.1.7

 Description
 Defines the type of processor device.

**Syntax** DellProcessorDeviceType (See Table 13-4)

Access Read-only

#### Processor Device Manufacturer Name

Name processorDeviceManufacturerName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.8

**Description** Defines the name of manufacturer of the processor device.

Syntax DellString
Access Read-only

#### **Processor Device Status State**

Name processorDeviceStatusState

Object ID 1.3.6.1.4.1.674.10892.1.1100.30.1.9

**Description** Defines the status state of the processor device. **Syntax** DellProcessorDeviceStatusState (See Table 13-2.)

Access Read-only

# **Processor Device Family**

Name processorDeviceFamily

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.10

**Description** Defines the family of the processor device. **Syntax** DellProcessorDeviceFamily (See Table 13-6.)

## **Processor Device Maximum Speed**

Name processorDeviceMaximumSpeed

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.11

**Description** Defines the maximum speed of the processor device in

megahertz (MHz). A zero (0) indicates that the speed is

unknown.

**Syntax** DellUnsigned32BitRange

**Access** Read-only

## **Processor Device Current Speed**

Name processorDeviceCurrentSpeed

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.12

**Description** Defines the current speed of the processor device in MHz. A

zero (0) indicates that the speed is unknown.

**Syntax** DellUnsigned32BitRange

Access Read-only

# **Processor Device External Clock Speed**

Name processorDeviceExternalClockSpeed

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.13

**Description** Defines the speed of the external clock (the front-side bus

speed) for the processor device in MHz. A zero (0) indicates

that the speed is unknown.

Syntax DellUnsigned32BitRange

### **Processor Device Voltage**

Name processorDeviceVoltage

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.14

**Description** Defines the voltage powering the processor device in millivolts.

A zero (0) indicates the speed is unknown.

**Syntax** DellSigned32BitRange

Access Read-only

# **Processor Device Upgrade Information**

Name processorDeviceUpgradeInformation

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.15

**Description** Defines the processor upgrade information for the processor device.

**Syntax** DellProcessorUpgradeInformation (See Table 13-5.)

Access Read-only

#### **Processor Device Version Name**

Name processorDeviceVersionName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.16

**Description** Defines the version name of the processor device.

Syntax DellString
Access Read-only

#### **Processor Device Core Count**

Name processorDeviceCoreCount

Object ID 1.3.6.1.4.1.674.10892.1.1100.30.1.17

**Description** Defines the number of processor cores detected for the

processor device.

**Syntax** DellUnsigned32BitRange

Access Read-only

### **Processor Device Core Enabled Count**

Name processorDeviceCoreEnabledCount

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.18

**Description** Defines the number of processor cores enabled for the

processor device.

**Syntax** DellUnsigned32BitRange

Access Read-only

#### **Processor Device Thread Count**

Name processorDeviceThreadCount

Object ID 1.3.6.1.4.1.674.10892.1.1100.30.1.19

**Description** Defines the number of processor threads detected for the

processor device.

**Syntax** DellUnsigned32BitRange

#### **Processor Device Characteristics**

Name processorDeviceCharacteristics

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.20

**Description** This attribute defines characteristics of the processor device.

This attribute is a bit field where a bit has the meaning defined

below when set to 1 (one).

**NOTE**: Bits 2-15 need to be examined in the context of bit 1. If bit 1 is set, the processor characteristics are unknown and bits 2-15 cannot be used to determine if the functions associated with the

bits are supported.

Bit Position	Meaning if Set
Bit 0	Reserved
Bit 1	Unknown
Bit 2	64-bit capable
Bit 3-15	Reserved
DellUnsigned16BitRange	

Access Read-only

**Syntax** 

## **Processor Device Extended Capabilities**

Name processorDeviceExtendedCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.21

**Description** This attribute defines extended capabilities of the processor

device. This attribute is a bit field where a bit has the meaning

defined below when set to 1 (one).

**Syntax** DellUnsigned16BitRange

## **Processor Device Extended Settings**

Name processorDeviceExtendedSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.22

**Description** This attribute defines extended settings of the processor device.

This attribute is a bit field where a bit has the meaning defined

below when set to 1 (one).

Bit Position Meaning if Set

-----

Bit 0 Virtualization Technology (VT) enabled Bit 1 Demand Based Switching (DBS) enabled

Bit 2 eXecute Disable (XD) enabled Bit 3 Hyper-Threading (HT) enabled

**Syntax** DellUnsigned16BitRange

Access Read-only

#### **Processor Device Brand Name**

Name processorDeviceBrandName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.23

**Description** Defines the brand of the processor device.

Syntax DellString
Access Read-only

#### **Processor Device Model Name**

Name processorDeviceModelName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.24

**Description** Defines the model of the processor device.

Syntax DellString
Access Read-only

## **Processor Device Stepping Name**

Name processorDeviceSteppingName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.30.1.25

**Description** Defines the stepping of the processor device.

Syntax DellString
Access Read-only

### **Processor Device Status Table**

Name processorDeviceStatusTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.32

**Description** Defines the Processor Device Status Table.

**Syntax** SEQUENCE OF Processor Device Status Table Entry

**Access** Not accessible

### **Processor Device Status Table Entry**

Name processorDeviceStatusTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.32.1

**Description** Defines the Processor Device Status Table Entry.

**Syntax** ProcessorDeviceStatusTableEntry

**Access** Not accessible

**Index** processorDeviceStatusChassisIndex,

processorDeviceStatusIndex

#### Processor Device Status Chassis Index

Name processorDeviceStatusChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.32.1.1

**Description** Defines the index (one-based) of the associated chassis.

**Syntax** DellObjectRange

#### **Processor Device Status Index**

Name processorDeviceStatusIndex
Object ID 1.3.6.1.4.1.674.10892.1.1100.32.1.2

**Description** Defines the index (one-based) of the processor device status

probe.

Syntax DellObjectRange

Access Read-only

# **Processor Device Status State Capabilities**

Name processorDeviceStatusStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.32.1.3

**Description** Defines the state capabilities of the processor device status probe.

**Syntax** DellStateCapabilities

Access Read-only

# **Processor Device Status State Settings**

Name processorDeviceStatusStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.32.1.4

**Description** Defines the state settings of the processor device status probe.

**Syntax** DellStateSettings

Access Read-write

#### **Processor Device Status Status**

Name processorDeviceStatusStatus
ObjectID 1.3.6.1.4.1.674.10892.1.1100.32.1.5

**Description** Defines the status of the processor device status probe. This

status will be joined into the processorDeviceStatus attribute.

Syntax DellStatus
Access Read-only

ı

# **Processor Device Status Reading**

Name processorDeviceStatusReading

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.32.1.6

**Description** Defines the reading of the processor device status probe.

**Syntax** DellProcessorDeviceStatusReading

Access Read-only

### **Processor Device Status Location Name**

Name processorDeviceStatusLocationName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.32.1.7

**Description** Defines the location name of the processor device status probe.

Syntax DellString
Access Read-only

#### Processor Device Status Port Index Reference

Name processorDeviceStatusPortIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.32.1.8

**Description** Defines the index (one-based) of the associated processor port

in the same chassis.

**Syntax** DellObjectRange

Access Read-only

#### **Cache Device Table**

Name cacheDeviceTable

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.40

 Description
 Defines the Cache Device Table.

**Syntax** SEQUENCE OF CacheDeviceTableEntry

Access Not accessible

## **Cache Device Table Entry**

 Name
 cacheDeviceTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.40.1

**Description** Defines the Cache Device Table entry.

**Syntax** CacheDeviceTableEntry

**Access** Not accessible

Index cacheDevicechassisIndex, cacheDeviceIndex

#### Cache Device Chassis Index

 Name
 cacheDevicechassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.40.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **Cache Device Index**

Name cacheDeviceIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.40.1.2

**Description** Defines the index of the cache device in this chassis.

**Syntax** DellObjectRange

Access Read-only

# **Cache Device State Capabilities**

Name cacheDeviceStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.40.1.3

**Description** Defines the capabilities of the cache device.

Syntax DellStateCapabilities

Access Read-only

ı

## **Cache Device State Settings**

Name cacheDeviceStateSettings
Object ID 1.3.6.1.4.1.674.10892.1.1100.40.1.4

Description Defines the state of the cache device.

Syntax DellStateSettings

Access Read-write

### **Cache Device Status**

Name cacheDeviceStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.40.1.5

**Description** Defines the status of the cache device.

Syntax DellStatus
Access Read-only

### **Cache Device Processor Device Index Reference**

Name cacheDeviceprocessorDeviceIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.40.1.6

**Description** Defines the index number of the processor device with which

this cache device is associated.

**Syntax** DellObjectRange

Access Read-only

# **Cache Device Type**

Name cacheDeviceType

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.40.1.7

**Description** Defines the type of cache device.

**Syntax** DellCacheDeviceType (See Table 13-7.)

#### **Cache Device Location**

Name cacheDeviceLocation

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.40.1.8

**Description** Defines the location of the cache device.

**Syntax** DellCacheDeviceLocation (See Table 13-13.)

Access Read-only

#### Cache Device Status State

Name cacheDeviceStatusState

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.40.1.9

**Description** Defines the status state of the cache device.

**Syntax** DellCacheDeviceStatusState (See Table 13-10.)

Access Read-only

#### Cache Device External Socket Name

Name cacheDeviceExternalSocketName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.40.1.10

**Description** Defines the external socket name of the cache device, if the

cache is socketed.

Syntax DellString

Access Read-only

#### **Cache Device Level**

Name cacheDeviceLevel

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.40.1.11

**Description** Defines the level of the cache device.

**Syntax** DellCacheDeviceLevel (See Table 13-8)

Access Read-only

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#### **Cache Device Maximum Size**

Name cacheDeviceMaximumSize

ObjectID 1.3.6.1.4.1.674.10892.1.1100.40.1.12

**Description** Defines the maximum size of the cache device in

kilobytes (KB). A zero (0) indicates that the size is unknown.

**Syntax** DellUnsigned32BitRange

Access Read-only

#### **Cache Device Current Size**

Name cacheDeviceCurrentSize

ObjectID 1.3.6.1.4.1.674.10892.1.1100.40.1.13

**Description** Defines the current size of the cache device in KB. A zero (0)

indicates that the size is unknown.

**Syntax** DellUnsigned32BitRange

Access Read-only

# **Cache Device Speed**

Name cacheDeviceSpeed

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.40.1.14

**Description** Defines the speed of the cache device in nanoseconds. A zero (0)

indicates that the speed is unknown.

**Syntax** DellUnsigned32BitRange

Access Read-only

# **Cache Device Write Policy**

Name cacheDeviceWritePolicy

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.40.1.15

**Description** Defines the write policy of the cache device. **Syntax** DellCacheDeviceWritePolicy (See Table 13-9.)

#### **Cache Device Is Socketed**

Name cacheDeviceIsSocketed

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.40.1.16

**Description** Defines if the cache device is socketed.

Syntax DellBoolean
Access Read-only

## Cache Device Error Checking and Correction (ECC) Type

Name cacheDeviceECCType

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.40.1.17

**Description** Defines the type of error correction in use by the cache device.

**Syntax** DellCacheDeviceECCType (See Table 13-11.)

Access Read-only

## **Cache Device Associativity**

Name cacheDeviceAssociativity
Object ID 1.3.6.1.4.1.674.10892.1.1100.40.1.18

**Description** Defines the type of associativity in use by the cache device.

Syntax DellCacheDeviceAssociativity (See Table 13-12.)

Access Read-only

# Cache Device Supported Type

Name cacheDeviceSupportedType

Object ID 1.3.6.1.4.1.674.10892.1.1100.40.1.19

**Description** Defines the type of static random-access memory (SRAM) that

the cache device can support.

**Syntax** DellCacheDeviceSupportedType

Access Read-only

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## **Cache Device Current Type**

Name cacheDeviceCurrentType

Object ID 1.3.6.1.4.1.674.10892.1.1100.40.1.20

**Description** Defines the current type of SRAM for the cache device.

**Syntax** DellCacheDeviceSRAMType (See Table 13-14.)

Access Read-only

# **Memory Device Table**

Name memoryDeviceTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.50

**Description** Defines the Memory Device Table.

SYNTAX SEQUENCE OF Memory Device Table Entry

**Access** Not accessible

# Memory Device Table Entry

 Name
 memoryDeviceTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.50.1

**Description** Defines the Memory Device Table entry.

**Syntax** MemoryDeviceTableEntry

**Access** Not accessible

Index memoryDevicechassisIndex, memoryDeviceIndex

# **Memory Device Chassis Index**

Name memoryDevicechassisIndex
Object ID 1.3.6.1.4.1.674.10892.1.1100.50.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange

### **Memory Device Index**

Name memoryDeviceIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.50.1.2

**Description** Defines the index of the memory device in this chassis.

**Syntax** DellObjectRange

Access Read-only

# **Memory Device State Capabilities**

Name memoryDeviceStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.50.1.3

**Description** Defines the capabilities of the memory device.

Syntax DellStateCapabilities

Access Read-only

# **Memory Device State Settings**

Name memoryDeviceStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.50.1.4

**Description** Defines the state of the memory device.

**Syntax** DellStateSettings

Access Read-write

# **Memory Device Status**

Name memoryDeviceStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.50.1.5

**Description** Defines the status of the memory device.

Syntax DellStatus
Access Read-only

### **Memory Device Memory Port Index Reference**

Name memoryDeviceMemoryPortIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.50.1.6

**Description** Defines the index of the memory port of which this memory

device is part.

**Syntax** DellObjectRange

Access Read-only

# **Memory Device Type**

Name memoryDeviceType

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.50.1.7

**Description** Defines the type of the memory device.

**Syntax** DellMemoryDeviceType (See Table 13-16.)

Access Read-only

# **Memory Device Location Name**

Name memoryDeviceLocationName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.50.1.8

**Description** Defines the location name of the memory device.

Syntax DellString
Access Read-write

### **Memory Device Error Count**



**NOTE:** Memory Device Failure Modes has now replaced this attribute. Memory Device Error Count should no longer be used. If you use the Memory Device Error Count attribute, the value returned is always zero, and using the attribute will have no effect.

Name memoryDeviceErrorCount

Object ID 1.3.6.1.4.1.674.10892.1.1100.50.1.9

**Description** Defines the total number of Error Checking and Correction (ECC)

errors detected by the memory device. Writing a 0 (zero) to this

variable will reset the devices error counts.

Syntax DellSigned32BitRange

Access Read-write

### **Memory Device Bank Location Name**

Name memoryDeviceBankLocationName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.50.1.10

Description Defines the bank location name of the memory device.

**Syntax** DellString Access Read-only

# **Memory Device Type Details**

Name memoryDeviceTypeDetails

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.50.1.11

Description Defines the detailed type of the memory device.

**Syntax** DellMemoryDeviceTypeDetails (See Table 13-17.)

## **Memory Device Form Factor**

Name memoryDeviceFormFactor

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.50.1.12

**Description** Defines the form factor of the memory device.

**Syntax** DellMemoryDeviceFormFactor (See Table 13-15.)

Access Read-only

## **Memory Device Set**

Name memoryDeviceSet

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.50.1.13

**Description** Defines if the memory device is a part of a set. A zero (0)

indicates that this device is not part of a set.

**Syntax** DellUnsigned32BitRange

Access Read-only

# **Memory Device Size**

Name memoryDeviceSize

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.50.1.14

**Description** Defines the size in KB of the memory device.

**Syntax** DellUnsigned32BitRange

Access Read-only

# **Memory Device Speed**

Name memoryDeviceSpeed

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.50.1.15

**Description** Defines the speed in nanoseconds of the memory device.

A zero (0) indicates that the speed is unknown.

**Syntax** DellUnsigned32BitRange

### **Memory Device Total Bus Width**

Name memoryDeviceTotalBusWidth Object ID 1.3.6.1.4.1.674.10892.1.1100.50.1.16

Description Defines the total number of bits, including ECC, used by the

memory device.

Svntax DellUnsigned32BitRange

Access Read-only

### **Memory Device Total Data Bus Width**

Name memoryDeviceTotalDataBusWidth

Object ID 1.3.6.1.4.1.674.10892.1.1100.50.1.17

Description Defines the total number of data bits used by the memory

device.

**Syntax** DellUnsigned32BitRange

Access Read-only

# Memory Device Correctable Memory Event Count



**NOTE:** Memory Device Failure Modes has now replaced this attribute. Memory Device Correctable Memory Event Count should no longer be used. If you use the Memory Device Correctable Memory Event Count attribute, the value returned is always zero, and using the attribute will have no effect.

Name memoryDeviceSingleBitErrorCount

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.50.1.18

Description Defines the total number of Correctable Memory Events

detected by the memory device.

**Syntax** DellSigned32BitRange

## **Memory Device Uncorrectable Memory Event Count**



**NOTE:** Memory Device Failure Modes has now replaced this attribute. Memory Device Uncorrectable Memory Event Count should no longer be used. If you use the Memory Device Uncorrectable Memory Event Count attribute, the value returned is always zero, and using the attribute will have no effect.

Name memoryDeviceMultiBitErrorCount

Object ID 1.3.6.1.4.1.674.10892.1.1100.50.1.19

**Description** Defines the total number of Uncorrectable Memory Events

detected by the memory device.

**Syntax** DellSigned32BitRange

Access Read-only

### **Memory Device Failure Modes**

Name memorvDeviceFailureModes

1 3 6 1 4 1 674 10892 1 1100 50 1 20 Object ID

Description Defines the failure modes of the memory device when the

> memoryDeviceStatus attribute is not OK. It is a bit field that can be used to report more than one type of failure mode by

using a combination of the defined bit masks.

Syntax DellMemoryDeviceFailureModes

Access Read-only

## **Memory Device Manufacturer Name**

Name memoryDeviceManufacturerName

1.3.6.1.4.1.674.10892.1.1100.50.1.21 Object ID

**Description** Defines the manufacturer of the memory device.

DellString Syntax Access Read-only

## **Memory Device Part Number Name**

Name memoryDevicePartNumberName **Object ID** 1.3.6.1.4.1.674.10892.1.1100.50.1.22

Description Defines the manufacturer's part number for the memory device.

**Syntax** DellString Access Read-only

# **Memory Device Serial Number Name**

Name memoryDeviceSerialNumberName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.50.1.23

Description Defines the serial number of the memory device.

**Syntax** DellString Access Read-only

# **Memory Device Asset Tag Name**

Name memoryDeviceAssetTagName

**Object ID** 1 3 6 1 4 1 674 10892 1 1100 50 1 24 Defines the asset tag of the memory device.

Syntax DellString Access Read-only

**Description** 

# **Memory Device Speed Name**

Name memoryDeviceSpeedName

1.3.6.1.4.1.674.10892.1.1100.50.1.25 **Object ID** 

Description This attribute defines the speed of the memory device in string

format with units specified in string.

**Syntax** DellString Access Read-only

# **Memory Device Mapped Address Table**

Name memoryDeviceMappedAddressTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.60

**Description** Defines the Memory Device Mapped Address Table.

**Syntax** SEQUENCE OF MemoryDeviceMappedAddressTableEntry

**Access** Not accessible

## **Memory Device Mapped Address Table Entry**

Name memoryDeviceMappedAddressTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.60.1

**Description** Defines the Memory Device Mapped Address Table entry.

**Syntax** MemoryDeviceMappedAddressTableEntry

**Access** Not accessible

Index memoryDeviceMappedAddresschassisIndex,

memoryDeviceMappedAddressIndex

# **Memory Device Mapped Address Chassis Index**

Name memoryDeviceMappedAddresschassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.60.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

## **Memory Device Mapped Address Index**

Name memoryDeviceMappedAddressIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.60.1.2

**Description** Defines the index (one-based) of the memory device mapped

address in this chassis.

**Syntax** DellObjectRange

Access Read-only

# **Memory Device Mapped Address State Capabilities**

Name memoryDeviceMappedAddressStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.60.1.3

**Description** Defines the capabilities of the memory device mapped address.

**Syntax** DellStateCapabilities

**Access** Read-only

# **Memory Device Mapped Address State Settings**

Name memoryDeviceMappedAddressStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.60.1.4

**Description** Defines the state of the memory device mapped address.

**Syntax** DellStateSettings

Access Read-write

# **Memory Device Mapped Address Status**

Name memoryDeviceMappedAddressStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.60.1.5

**Description** Defines the status of the memory device mapped address.

Syntax DellStatus
Access Read-only

## **Memory Device Index Reference**

Name memoryDeviceIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.60.1.6

**Description** Defines the index of the memory device(s) associated with this

memory device mapped address.

**Syntax** DellObjectRange

Access Read-only

## Memory Device Mapped Address Row Position

Name memoryDeviceMappedAddressRowPosition

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.60.1.7

**Description** Defines the position of the referenced memory in a row of the

memory device mapped address.

**Syntax** DellUnsigned32BitRange

Access Read-only

# **Memory Device Mapped Address Interleave Position**

Name memoryDeviceMappedAddressInterleavePosition

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.60.1.8

**Description** Defines the position of the referenced memory in an interleave

of the memory device mapped address.

**Syntax** DellUnsigned32BitRange

## **Memory Device Mapped Address Interleave Depth**

Name memoryDeviceMappedAddressInterleaveDepth

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.60.1.9

**Description** Defines the maximum number of consecutive rows from the

referenced memory device that are accessed in a single interleaved transfer in the memory device mapped address.

**Syntax** DellUnsigned32BitRange

Access Read-only

## **Memory Device Mapped Address Starting Address**

Name memoryDeviceMappedAddressStartingAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.60.1.10

**Description** Defines the physical starting address in KB of the memory

device mapped address.

**Syntax** DellUnsigned64BitRange

Access Read-only

# Memory Device Mapped Address Ending Address

Name memoryDeviceMappedAddressEndingAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.60.1.11

**Description** Defines the physical ending address in KB of the memory device

mapped address.

**Syntax** DellUnsigned64BitRange

Access Read-only

### **Generic Device Table**

Name genericDeviceTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.70

**Description** Defines the Generic Device Table.

**Syntax** SEQUENCE OF GenericDeviceTableEntry

Access Not accessible

### **Generic Device Table Entry**

 Name
 genericDeviceTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.70.1

**Description** Defines the Generic Device Table entry.

**Syntax** GenericDeviceTableEntry

**Access** Not accessible

Index genericDevicechassisIndex, genericDeviceIndex

#### **Generic Device Chassis Index**

 Name
 genericDevicechassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.70.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### Generic Device Index

Name genericDeviceIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.70.1.2

**Description** Defines the index of the generic device in this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **Generic Device State Capabilities**

Name genericDeviceStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.70.1.3

**Description** Defines the capabilities of the generic device.

**Syntax** DellStateCapabilities

### **Generic Device State Settings**

Name genericDeviceStateSettings
ObjectID 1.3.6.1.4.1.674.10892.1.1100.70.1.4

**Description** Defines the state of the generic device.

**Syntax** DellStateSettings

Access Read-write

#### **Generic Device Status**

Name genericDeviceStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.70.1.5

**Description** Defines the status of the generic device.

Syntax DellStatus
Access Read-only

### **Generic Device System Slot Index Reference**

Name genericDeviceSystemSlotIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.70.1.6

**Description** Defines the index of the system slot into which this generic

device is plugged.

Syntax DellObjectRange

Access Read-only

# Generic Device Type

Name genericDeviceType

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.70.1.7

**Description** Defines the type of the generic device.

**Syntax** DellGenericDeviceType (See Table 13-18.)

#### **Generic Device Name**

Name genericDeviceName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.70.1.8

**Description** Defines the name of the generic device.

Syntax DellString
Access Read-only

#### **PCI Device Table**

Name pCIDeviceTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.80

Description Defines the PCI Device Detail Table.

Syntax SEQUENCE OF PCIDeviceTableEntry

Access Not accessible

### **PCI Device Table Entry**

Name pCIDeviceTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.80.1

**Description** Defines the PCI Device Table entry.

**Syntax** Not accessible

Access PCIDeviceTableEntry

Index pCIDevicechassisIndex, pCIDeviceIndex

#### **PCI Device Chassis Index**

Name pCIDevicechassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.80.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax Read-only

Access DellObjectRange

#### **PCI Device Index**

Name pCIDeviceIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.80.1.2

**Description** Defines the index (one-based) of the PCI device in this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **PCI Device State Capabilities**

Name pCIDeviceStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.80.1.3

**Description** Defines the capabilities of the PCI device.

Syntax DellStateCapabilities

Access Read-only

### **PCI Device State Settings**

Name pCIDeviceStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.80.1.4

**Description** Defines the state of the PCI device.

**Syntax** DellStateSettings

Access Read-write

#### **PCI Device Status**

Name pCIDeviceStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.80.1.5

**Description** Defines the status of the PCI device.

Syntax DellStatus
Access Read-only

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### **PCI Device System Slot Index Reference**

Name pCIDeviceSystemSlotIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.80.1.6

**Description** Defines the index number of the system slot that this PCI

device is in.

**Syntax** DellObjectRange

Access Read-only

#### **PCI Device Data Bus Width**

Name pCIDeviceDataBusWidth

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.80.1.7

**Description** Defines the bus width of the PCI device in this chassis.

**Syntax** DellUnsigned32BitRange

Access Read-only

#### **PCI Device Manufacturer Name**

Name pCIDeviceManufacturerName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.80.1.8

**Description** Defines the name of the PCI device manufacturer.

Syntax DellString
Access Read-only

## **PCI Device Description Name**

 Name
 pCIDeviceDescriptionName

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.80.1.9

**Description** Defines the descriptive name of the PCI device.

Syntax DellString
Access Read-only

## **PCI Device Speed**

Name pCIDeviceSpeed

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.80.1.10

**Description** Defines the bus speed in MHz of the PCI device in this chassis.

A zero (0) indicates that the speed is unknown.

**Syntax** DellUnsigned32BitRange

Access Read-only

### **PCI Device Adapter Fault**

Name pCIDeviceAdapterFault

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.80.1.11

**Description** Defines whether the PCI device in this chassis has detected a fault.

Syntax DellBoolean

Access Read-only

## **PCI Device Configuration Space Table**

Name pCIDeviceConfigurationSpaceTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.82

**Description** Defines the PCI Device Configuration Table.

**Syntax** SEQUENCE OF PCIDeviceConfigurationSpaceTableEntry

**Access** Not accessible

## **PCI Device Configuration Space Table Entry**

Name pCIDeviceConfigurationSpaceTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.82.1

**Description** Defines the PCI Device Configuration Table entry.

**Syntax** PCIDeviceConfigurationSpaceTableEntry

**Access** Not accessible

**Index** pCIDeviceConfigurationSpacechassisIndex,

pCIDeviceConfigurationSpaceIndex

### **PCI Device Configuration Space Chassis Index**

Name pCIDeviceConfigurationSpacechassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.82.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

### **PCI Device Configuration Space Index**

Name pCIDeviceConfigurationSpaceIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.82.1.2

**Description** Defines the index (one-based) of the PCI device configuration

in this chassis.

**Syntax** DellObjectRange

Access Read-only

## **PCI Device Configuration Space State Capabilities**

Name pCIDeviceConfigurationSpaceStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.82.1.3

**Description** Defines the capabilities of the PCI device configuration.

**Syntax** DellStateCapabilities

Access Read-only

## **PCI Device Configuration Space State Settings**

Name pCIDeviceConfigurationSpaceStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.82.1.4

**Description** Defines the state of the PCI device configuration.

**Syntax** DellStateSettings

Access Read-write

## **PCI Device Configuration Space Status**

Name pCIDeviceConfigurationSpaceStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.82.1.5

**Description** Defines the status of the PCI device configuration.

Syntax DellStatus
Access Read-only

#### **PCI Device Index Reference**

Name pCIDeviceIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.82.1.6

**Description** Defines the index number of PCI device that this configuration

applies to.

**Syntax** DellObjectRange

Access Read-only

## **PCI Device Configuration Space Bus Number**

Name pCIDeviceConfigurationSpaceBusNumber

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.82.1.7

**Description** Defines the bus number of the PCI device configuration in this

chassis.

**Syntax** DellUnsigned32BitRange

Access Read-only

## **PCI Device Configuration Space Device Number**

Name pCIDeviceConfigurationSpaceDeviceNumber

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.82.1.8

**Description** Defines the device number of the PCI device in this chassis.

**Syntax** DellUnsigned32BitRange

Access Read-only

### **PCI Device Configuration Space Function Number**

Name pCIDeviceConfigurationSpaceFunctionNumber

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.82.1.9

**Description** Defines the function number of the PCI device in this chassis.

**Syntax** DellUnsigned32BitRange

Access Read-only

## **PCI Device Configuration Space Header**

Name pCIDeviceConfigurationSpaceHeader

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.82.1.10

**Description** Defines the common configuration space header of the PCI device.

**Syntax** OCTET STRING (SIZE(0..1025))

Access Read-only

## **Network Device Table**

Name networkDeviceTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90

**Description** Defines the Network Device Table.

**Syntax** SEQUENCE OF NetworkDeviceTableEntry

**Access** Not accessible

## **Network Device Table Entry**

 Name
 networkDeviceTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.90.1

**Description** Defines the Network Device Table Entry.

**Syntax** NetworkDeviceTableEntry

**Access** Not accessible

Index networkDeviceChassisIndex, networkDeviceIndex

#### **Network Device Chassis Index**

 Name
 networkDeviceChassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.90.1.1

**Description** Defines the index (one-based) of the chassis that contains the

network device.

**Syntax** DellObjectRange

Access Read-only

#### **Network Device Index**

Name networkDeviceIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.2

**Description** Defines the index (one-based) of the network device.

**Syntax** DellObjectRange

Access Read-only

#### **Network Device Status**

Name networkDeviceStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.3

**Description** Defines the status of the network device.

Syntax DellStatus
Access Read-only

#### **Network Device Connection Status**

Name networkDeviceConnectionStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.4

**Description** Defines the connection status of the network device.

Syntax DellNetworkDeviceConnectionStatus (see Table 13-20)

Access Read-only

## **Network Device Description Name**

Name networkDeviceDescriptionName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.5

**Description** Defines the description of the network device.

Syntax DellString
Access Read-only

#### **Network Device Product Name**

Name networkDeviceProductName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.6

**Description** Defines the product name of the network device.

Syntax DellString
Access Read-only

#### **Network Device Vendor Name**

Name networkDeviceVendorName

Object ID 1.3.6.1.4.1.674.10892.1.1100.90.1.7

**Description** Defines the name of the vendor of the network device.

Syntax DellString
Access Read-only

#### **Network Device Service Name**

Name networkDeviceServiceName
Object ID 1.3.6.1.4.1.674.10892.1.1100.90.1.8

**Description** Defines the service name of the network device.

Syntax DellString
Access Read-only

## **Network Device Driver Image Path Name**

Name networkDeviceDriverImagePathName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.9

**Description** Defines the path to the binary image of the driver for the

network device.

Syntax DellString
Access Read-only

#### Network Device Driver Version Name

Name networkDeviceDriverVersionName

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.10

**Description** Defines the version of the driver for the network device.

Syntax DellString
Access Read-only

#### **Network Device IP Address**

Name networkDeviceIPAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.11

**Description** Defines the IP address of the network device.

Syntax IpAddress
Access Read-only

#### **Network Device IP Subnet Mask**

 Name
 networkDeviceIPSubnetMask

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.90.1.12

**Description** Defines the IP subnet mask for the IP address currently assigned

to the network device.

Syntax IpAddress
Access Read-only

## **Network Device Default Gateway IP Address**

Name networkDeviceDefaultGatewayIPAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.13

**Description** Defines the IP address of the default gateway for the network device.

Syntax IpAddress
Access Read-only

#### Network Device DHCP Server IP Address

Name networkDeviceDHCPServerIPAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.14

**Description** Defines the IP address of the DHCP server that was used to

obtain the IP address of the network device if DHCP was used

to configure the network device.

Syntax IpAddress
Access Read-only

### **Network Device Current MAC Address**

Name networkDeviceCurrentMACAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.15

**Description** Defines the current MAC address of the network device.

Syntax DellMACAddress

Access Read-only

#### **Network Device Permanent MAC Address**

Name networkDevicePermanentMACAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.16

**Description** Defines the permanent MAC address of the network device.

**Syntax** DellMACAddress

Access Read-only

#### **Network Device PCI Bus Number**

 Name
 networkDevicePCIBusNumber

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.90.1.17

**Description** Defines the PCI bus number of the network device.

**Syntax** DellUnsigned8BitRange

Access Read-only

#### **Network Device PCI Device Number**

Name networkDevicePCIDeviceNumber

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.18

**Description** Defines the PCI device number of the network device.

Syntax DellUnsigned8BitRange

Access Read-only

### **Network Device PCI Function Number**

Name networkDevicePCIFunctionNumber

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.19

**Description** Defines the PCI function number of the network device.

**Syntax** DellUnsigned8BitRange

Access Read-only

#### **Network Device IRQ**

Name networkDeviceIRQ

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.20

**Description** Defines the interrupt request number of the network device.

**Syntax** DellUnsigned16BitRange

Access Read-only

#### **Network Device Base IO Port Address**

Name networkDeviceBaseIOPortAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.21

**Description** Defines the base input/outport port address of the network device.

**Syntax** DellUnsigned32BitRange

Access Read-only

### **Network Device Teaming Flags**

Name networkDeviceTeamingFlags
ObjectID 1.3.6.1.4.1.674.10892.1.1100.90.1.22

Description Defines the teaming features of the network device.

Syntax DellNetworkDeviceTeamingFlags (see Table 13-21)

Access Read-only

### **Network Device TOE Capability Flags**

Name networkDeviceTOECapabilityFlags

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.23

**Description** Defines the TCP/IP Offload Engine (TOE) capability flags of

the network device.

**Syntax** DellNetworkDeviceTOECapabilityFlags (see Table 13-22)

Access Read-only

### **Network Device TOE Enabled**

Name networkDeviceTOEEnabled
ObjectID 1.3.6.1.4.1.674.10892.1.1100.90.1.24

**Description** Defines if TOE is enabled for the network device.

Syntax DellBoolean
Access Read-only

## **Network Device RDMA Capability Flags**

Name networkDeviceRDMACapabilityFlags

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.25

**Description** Defines the Remote Direct Memory Access (RDMA) capability

flags of the network device.

**Syntax** DellNetworkDeviceRDMACapabilityFlags (see Table 13-23)

Access Read-only

#### **Network Device RDMA Enabled**

 Name
 networkDeviceRDMAEnabled

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.90.1.26

**Description** Defines if RDMA is enabled for the network device.

Syntax DellBoolean
Access Read-only

## **Network Device iSCSI Capability Flags**

Name networkDeviceiSCSICapabilityFlags

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.90.1.27

**Description** Defines the Internet Small Computer System Interface (iSCSI)

capability flags of the network device.

**Syntax** DellNetworkDeviceiSCSICapabilityFlags (see Table 13-24)

Access Read-only

#### **Network Device iSCSI Enabled**

 Name
 networkDeviceiSCSIEnabled

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.90.1.28

**Description** Defines if iSCSI is enabled for the network device.

Syntax DellBoolean
Access Read-only

## **Managed System Services Device Table**

Name managedSystemServicesDeviceTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.100

**Description** Defines the Managed System Services Device Table.

**Syntax** SEQUENCE OF ManagedSystemServicesDeviceTableEntry

**Access** Not accessible

#### **Managed System Services Device Table Entry**

Name managedSystemServicesDeviceTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.100.1

**Description** Defines the Managed System Services Device Table

Entry.

**Syntax** ManagedSystemServicesDeviceTableEntry

**Access** Not accessible

Index managedSystemServicesDeviceChassisIndex,

managedSystemServicesDeviceIndex

## **Managed System Services Device Chassis Index**

Name managedSystemServicesDeviceChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.100.1.1

**Description** Defines the index (one-based) of the

chassis that contains the managed system services device.

Syntax DellObjectRange

Access Read-only

## **Managed System Services Device Index**

Name managedSystemServicesDeviceIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.100.1.2

**Description** Defines the index (one-based) of the

managed system services device.

**Syntax** DellObjectRange

Access Read-only

## **Managed System Services Device Status**

Name managedSystemServicesDeviceStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.100.1.3

**Description** Defines the status of the

managed system services device.

Syntax DellStatus
Access Read-only

## **Managed System Services Device Type**

Name managedSystemServicesDeviceType

**Object ID** 1.3.6.1.4.1.674.10892.1.1100.100.1.4

**Description** Defines the type of the

managed system services device.

**Syntax** DellManagedSystemServicesDeviceType. See Table 13-25

Access Read-only

## **Managed System Services Device Storage Present**

Name managedSystemServicesDeviceStoragePresent

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.100.1.5

 Description
 Defines whether storage is present

on the managed system services device.

Syntax DellBoolean
Access Read-only

## **Managed System Services Device Storage Size**

Name managedSystemServicesDeviceStorageSize

 Object ID
 1.3.6.1.4.1.674.10892.1.1100.100.1.6

 Description
 Defines the size in Megabytes (MB)

of the storage present on the managed system services device.

**Syntax** DellUnsigned32BitRange

Access Read-only

# **Device Group Variable Values**

This section includes definitions for server administrator-specific variable values used in this section.

Table 13-1. Pointing Device Type

Variable Name: DellPointingDeviceType

Possible Data Values	Meaning of Data Value
deviceTypeIsOther(1)	Device type is not one of the following:
deviceTypeIsUnknown(2)	Device type is unknown.
deviceTypeIsAMouse(3)	Device type is a mouse.
deviceTypeIsATrackBall(4)	Device type is a track ball.
deviceTypeIsATrackPoint(5)	Device type is a track point.

Table 13-1. Pointing Device Type (continued)

Variable Name: DellPointingDeviceType

Data Type: Integer

Possible Data Values	Meaning of Data Value
<pre>deviceTypeIsAGlidePoint(6)</pre>	Device type is a glide point.
deviceTypeIsATouchPad(7)	Device type is a touch pad.

#### Table 13-2. Processor Device Status State

Variable Name: DellProcessorDeviceStatusState

Data Type: Integer

Possible Data Values	Meaning of Data Value
other(1)	Processor device type is not one of the following:
unknown(2)	Device type is unknown.
enabled(3)	Device is enabled.
userDisabled(4)	Device is disabled by the user.
biosDisabled(5)	Device has its BIOS disabled.
idle(6)	Device is idle.

## Table 13-3. Processor Device Status Reading

Variable Name: DellProcessorDeviceStatusReading

Data Type: Integer

**NOTE:** These values are bit masks, so combination values are possible.

Possible Data Values	Meaning of Data Value
internalError(1)	The processor experienced an internal error
thermalTrip(2)	The processor experienced a thermal trip
configurationError(32)	The processor experienced a configuration error

Table 13-3. Processor Device Status Reading (continued)

Variable Name: DellProcessorDeviceStatusReading

Data Type: Integer

**NOTE**: These values are bit masks, so combination values are possible.

Possible Data Values	Meaning of Data Value
processorPresent(128)	The processor is present
processorDisabled(256)	The processor is disabled
terminatorPresent(512)	The terminator is Present
processorThrottled(1024)	The processor is throttled

Table 13-4. Processor Device Type

Variable Name: DellProcessorDeviceType

Possible Data Values	Meaning of Data Value
deviceTypeIsOther(1)	The processor device type is not one of the following values:
deviceTypeIsUnknown(2)	The processor device type is unknown.
deviceTypeIsCPU(3)	The processor device type is a central processing unit.
deviceTypeIsMathProcessor(4)	The processor device type is a math processor.
deviceTypeIsDSP(5)	The processor device type is a digital signal processor.
deviceTypeIsAVideoProcessor(6)	The processor device is a video processor.

Table 13-5. Processor Upgrade Information

Variable Name: DellProcessorUpgradeInformation

Possible Data Values	Meaning of Data Value
processorUpgradeIsOther(1)	The upgrade device type is not one of the following:
processorUpgradeIsUnknown(2)	Upgrade device type is unknown.
processorUpgradeIsByDaughterBoard(3)	Upgrade device is on a daughter board.
processorUpgradeIsByZIFSocket(4)	Upgrade device is in a zero insertion force (ZIF) socket.
processorUpgradeIsByReplacement(5)	Upgrade device is a replacement.
processorUpgradeIsNone(6)	There is no upgrade device.
processorUpgradeIsByLIFSocket(7)	Upgrade device is in a low insertion force (LIF) socket.
processorUpgradeIsBySlot1(8)	Upgrade device is a SLOT 1 processor.
processorUpgradeIsBySlot2(9)	Upgrade device is a SLOT 2 processor.
processorUpgradeIsBy370PinSocket(10)	Upgrade device is a 370 pin socket.
processorUpgradeIsBySlotA(11)	Upgrade is by Slot A.
processorUpgradeIsBySlotM(12)	Upgrade is by Slot M.
processorUpgradeIsByScoket423(13)	Upgrade is by Socket 423.
processorUpgradeIsBySocketA(14)	Upgrade is by Socket A (Socket 462).
processorUpgradeIsBySocket478(15)	Upgrade is by Socket 478.
processorUpgradeIsBySocket754(16)	Upgrade is by Socket 754.
processorUpgradeIsBySocket940(17)	Upgrade is by Socket 940.

Table 13-5. Processor Upgrade Information *(continued)* 

Variable Name: DellProcessorUpgradeInformation

Data Type: Integer

Possible Data Values	Meaning of Data Value
processorUpgradeIsBySocket939(18)	Upgrade is by Socket 939.
processorUpgradeIsBySocketmPGA604(19)	Upgrade is by Socket mPGA604.
processorUpgradeIsBySocketLGA771(20)	Upgrade is by Socket LGA771.
processorUpgradeIsBySocketLGA775(21)	Upgrade is by Socket LGA775.
processorUpgradeIsBySocketS1(22)	Upgrade is by Socket S1.
processorUpgradeIsBySocketAM2(23)	Upgrade is by Socket AM2.
processorUpgradeIsBySocketF(24)	Upgrade is by Socket F (1207).
processorUpgradeIsBySocketLGA1366(25)	Upgrade is by Socket LGA1366.

Table 13-6. Processor Device Family

Variable Name: DellProcessorDeviceFamily

Possible Data Values	Meaning of Data Value
deviceFamilyIsOther(1)	The processor family is not one of the following values:
deviceFamilyIsUnknown(2)	The processor family is unknown.
deviceFamilyIs8086(3)	The processor family is 8086.
deviceFamilyIs80286(4)	The processor family is 80286.
deviceFamilyIs80386(5)	The processor family is 80386.
deviceFamilyIs80486(6)	The processor family is 80486.
deviceFamilyIS8087(7)	The processor family is 8087.

Table 13-6. Processor Device Family (continued)

Possible Data Values	Meaning of Data Value
deviceFamilyIs80287(8)	The processor family is 80287.
deviceFamilyIs80387(9)	The processor family is 80387.
deviceFamilyIs80487(10)	The processor family is 80487.
deviceFamilyIsPentium(11)	The processor family is Intel <sup>®</sup> Pentium <sup>®</sup> .
deviceFamilyIsPentiumPro(12)	The processor family is Pentium Pro.
deviceFamilyIsPentium2(13)	The processor family is Pentium II.
deviceFamilyIsPentiumMMX(14)	The processor family is Pentium MMX™.
deviceFamilyIsCeleron(15)	The processor family is Celeron®.
deviceFamilyIsXeon(16)	The processor family is Xeon™.
deviceFamilyIsPentium3(17)	The processor family is Pentium III.
deviceFamilyIsPentium3Xeon(18)	The processor family is Pentium III Xeon.
deviceFamilyIsPentium3Step(19)	The processor family is Pentium III Speed Step.
deviceFamilyIsPentiumItanium (20)	The processor family is Itanium <sup>®</sup> .
deviceFamilyIsIntelXeon(21)	The processor family is Intel Xeon.
deviceFamilyIsPentium4(22)	The processor family is Pentium 4.
deviceFamilyIsIntelXeonMP(23)	The processor family is Intel Xeon MP.
deviceFamilyIsIntelItanium2(24)	The processor family is Intel Itanium 2.
deviceFamilyIsK5(25)	The processor family is K5.
deviceFamilyIsK6(26)	The processor family is K6.
deviceFamilyIsK6-2(27)	The processor family is K6-2.
deviceFamilyIsK6-3(28)	The processor family is K6-3.

Table 13-6. Processor Device Family (continued)

Possible Data Values	Meaning of Data Value
deviceFamilyIsAMDAthlon(29)	The processor family is AMD™ Athlon™.
deviceFamilyIsAMD2900(30)	The processor family is AMD2900.
deviceFamilyIsK6-2Plus(31)	The processor family is K6-2+.
deviceFamilyIsPowerPC(32)	The processor family is Power PC.
deviceFamilyIsPowerPC601(33)	The processor family is Power PC 601.
deviceFamilyIsPowerPC603(34)	The processor family is Power PC 603.
deviceFamilyIsPowerPC603Plus (35)	The processor family is Power PC 603+.
deviceFamilyIsPowerPC604(36)	The processor family is Power PC 604.
deviceFamilyIsPowerPC620(37)	The processor family is Power PC 620.
deviceFamilyIsPowerPCx704(38)	The processor family is Power PC x704.
deviceFamilyIsPowerPC750(39)	The processor family is Power PC 750.
deviceFamilyIsAlpha(48)	The processor family is Alpha.
deviceFamilyIsAlpha21064(49)	The processor family is Alpha 21064.
deviceFamilyIsAlpha21066(50)	The processor family is Alpha 21066.
deviceFamilyIsAlpha21164(51)	The processor family is Alpha 21164.
deviceFamilyIsAlpha21164PC(52)	The processor family is Alpha 21164PC.
deviceFamilyIsAlpha21164a(53)	The processor family is Alpha 21164a.
deviceFamilyIsAlpha21264(54)	The processor family is Alpha 21264.
deviceFamilyIsAlpha21364(55)	The processor family is Alpha 21364.
deviceFamilyIsMIPS(64)	The processor family is MIPS.
deviceFamilyIsMIPSR4000(65)	The processor family is MIPS R4000.
deviceFamilyIsMIPSR4200(66)	The processor family is MIPS R4200.
deviceFamilyIsMIPSR4400(67)	The processor family is MIPS R4400.

Table 13-6. Processor Device Family (continued)

Possible Data Values	Meaning of Data Value
deviceFamilyIsMIPSR4600(68)	The processor family is MIPS R4600.
deviceFamilyIsMIPSR10000(69)	The processor family is MIPS R10000.
deviceFamilyIsSPARC(80)	The processor family is SPARC.
deviceFamilyIsSuperSPARC(81)	The processor family is SuperSPARC.
deviceFamilyIsmicroSPARCII(82)	The processor family is microSPARC II.
deviceFamilyIsmicroSPARCIIep (83)	The processor family is microSPARC IIep.
deviceFamilyIsUltraSPARC(84)	The processor family is UltraSPARC.
deviceFamilyIsUltraSPARCII(85)	The processor family is UltraSPARC II.
deviceFamilyIsUltraSPARCIIi(86)	The processor family is UltraSPARC IIi.
deviceFamilyIsUltraSPARCIII(87)	The processor family is UltraSPARC III.
deviceFamilyIsUltraSPARCIIIi (88)	The processor family is UltraSPARC IIIi.
deviceFamilyIs68040(96)	The processor family is 68040 Family.
deviceFamilyIs68xxx(97)	The processor family is 68xxx.
deviceFamilyIs68000(98)	The processor family is 68000.
deviceFamilyIs68010(99)	The processor family is 68010.
deviceFamilyIs68020(100)	The processor family is 68020.
deviceFamilyIs68030(101)	The processor family is 68030.
deviceFamilyIsHobbit(112)	The processor family is Hobbit.
deviceFamilyIsCrusoeTM5000(120)	The processor family is Crusoe TM5000.
deviceFamilyIsCrusoeTM3000(121)	The processor family is Crusoe TM3000.
deviceFamilyIsEfficeonTM8000 (122)	The processor family is Efficeon TM8000.
deviceFamilyIsWeitek(128)	The processor family is Weitek.
deviceFamilyIsAMDAthlon64(131)	The processor family is AMD Athlon 64.

Table 13-6. Processor Device Family (continued)

Possible Data Values	Meaning of Data Value
-	
deviceFamilyIsAMDOpteron(132)	The processor family is AMD Opteron™.
deviceFamilyIsAMDSempron(133)	The processor family is AMD Sempron <sup>TM</sup> .
deviceFamilyIsAMDTurion64Mobile (134)	The processor family is AMD Turion™ 64 Mobile Technology.
deviceFamilyIsDualCoreAMDOptero n(135)	The processor family is Dual-Core AMD Opteron.
deviceFamilyIsAMDAthlon64X2DualC ore(136)	The processor family is AMD Athlon 64 X2 Dual-Core.
deviceFamilyIsAMDTurion64X2Mobile(137)	The processor family is AMD Turion 64 X2 Mobile Technology.
<pre>deviceFamilyIsQuadCoreAMDOptero n(138)</pre>	The processor family is Quad-Core AMD Opteron.
deviceFamilyIsThirdGenerationA MDOpteron(139)	The processor family is third-generation AMD Opteron.
deviceFamilyIsPA-RISC(144)	The processor family is PA-RISC.
deviceFamilyIsPA-RISC8500(145)	The processor family is PA-RISC 8500.
deviceFamilyIsPA-RISC8000(146)	The processor family is PA-RISC 8000.
deviceFamilyIsPA- RISC7300LC(147)	The processor family is PA-RISC 7300LC.
deviceFamilyIsPA-RISC7200(148)	The processor family is PA-RISC 7200.
deviceFamilyIsPA- RISC7100LC(149)	The processor family is PA-RISC 7100LC.
deviceFamilyIsPA-RISC7100(150)	The processor family is PA-RISC 7100.
deviceFamilyIsV30(160)	The processor family is V30.
deviceFamilyIsDualCoreIntelXeon 5200(171)	The processor family is Dual-Core Intel Xeon processor 5200 Series.
deviceFamilyIsDualCoreIntelXeon 7200(172)	The processor family is Dual-Core Intel Xeon processor 7200 Series.

Table 13-6. Processor Device Family (continued)

Data typo: Integer	
Possible Data Values	Meaning of Data Value
deviceFamilyIsQuadCoreIntelXeon 7300(173)	The processor family is Quad-Core Intel Xeon processor 7300 Series.
deviceFamilyIsQuadCoreIntelXeon 7400(174)	The processor family is Quad-Core Intel Xeon processor 7400 Series.
deviceFamilyIsMultiCoreIntelXeo n7400(175)	The processor family is Multi-Core Intel Xeon processor 7400 Series.
deviceFamilyIsM1(176)	The processor family is M1.
deviceFamilyIsM2(177)	The processor family is M2.
deviceFamilyIsAS400(180)	The processor family is AS400.
deviceFamilyIsAMDAthlonXP(182)	The processor family is AMD Athlon XP.
deviceFamilyIsAMDAthlonMP(183)	The processor family is AMD Athlon MP.
deviceFamilyIsAMDDuron(184)	The processor family is AMD Duron™.
deviceFamilyIsIntelPentiumM(185)	The processor family is Intel Pentium M.
deviceFamilyIsIntelCeleronD(186)	The processor family is Intel Celeron D.
deviceFamilyIsIntelPentiumD(187)	The processor family is Intel Pentium D.
deviceFamilyIsIntelPentiumExtre me(188)	The processor family is Intel Pentium Processor Extreme Edition.
deviceFamilyIsIntelCoreSolo (189)	The processor family is Intel Core Solo processor.
deviceFamilyIsIntelCore2(190)	The processor family is Intel Core™ 2 processor.
deviceFamilyIsIntelCore2Duo (191)	The processor family is Intel Core 2 Duo processor.
deviceFamilyIsIntelCorei7(198)	The processor family is Intel Core i7 processor.
deviceFamilyIsDualCoreIntelCeleron(199)	The processor family is Dual-Core Intel Celeron Processor.
deviceFamilyIsIBM390(200)	The processor family is IBM390.

Table 13-6. Processor Device Family (continued)

deviceFamilyIsG4(201) deviceFamilyIsG5(202) deviceFamilyIsG5(202) The processor family is G5. deviceFamilyIsESA390G6(203) The processor family is ESA/390 G6. deviceFamilyIsZArchitectur(204) deviceFamilyIsZArchitectur(204) The processor family is VIA C7(TM)-M. deviceFamilyIsVIAC7-M(210) The processor family is VIA C7(TM)-M. deviceFamilyIsVIAC7-D(211) The processor family is family is VIA C7(TM)-D. deviceFamilyIsVIAC7(212) The processor family is VIA C7(TM). deviceFamilyIsVIAEden(213) The processor family is Multi-Core Intel Xcon processor family is Multi-Core Intel Xcon processor family is Dual-Core Intel Xeon processor family is Quad-Core Intel Xeon processor family is Quad-Core Intel Xeon processor family is Dual-Core Intel Xeon processor family is Quad-Core Intel Xeon processor family is Dual-Core Intel Xeon processor family is Quad-Core Intel Xeon processor family is Multi-Core Intel Xeon processor family is Multi-Co	Data type: inceger	
deviceFamilyIsg5(202)  deviceFamilyIsgSA390G6(203)  The processor family is ESA/390 G6.  deviceFamilyIszArchitectur(204)  deviceFamilyIsvIAC7-M(210)  deviceFamilyIsvIAC7-D(211)  deviceFamilyIsvIAC7-D(211)  deviceFamilyIsvIAC7(212)  deviceFamilyIsvIAC7(212)  deviceFamilyIsvIAC7(212)  The processor family is VIA C7(TM).  deviceFamilyIsvIAC6(213)  deviceFamilyIsvIAC6(213)  deviceFamilyIsMultiCoreIntelXeo  n(214)  The processor family is Multi-Core Intel Xeon processor.  deviceFamilyIsDualCoreIntelXeon  The processor family is Dual-Core Intel Xeon processor 3xxx Series.  deviceFamilyIsQuadCoreIntelXeon  The processor family is Quad-Core Intel Xeon processor 5xxx Series.  deviceFamilyIsQuadCoreIntelXeon  The processor family is Quad-Core Intel Xeon processor 5xxx Series.  deviceFamilyIsQuadCoreIntelXeon  The processor family is Quad-Core Intel Xeon processor family is Quad-Core Intel Xeon processor 5xxx Series.  deviceFamilyIsQuadCoreIntelXeon  The processor family is Dual-Core Intel Xeon processor family is Quad-Core Intel Xeon processor family is Multi-Core Intel Xeon proc	Possible Data Values	Meaning of Data Value
deviceFamilyIszArchitectur (204) The processor family is Z/Architectur base.  deviceFamilyIsvIAC7-M(210) The processor family is VIA C7(TM)-M.  deviceFamilyIsvIAC7-D(211) The processor family is VIA C7(TM)-M.  deviceFamilyIsvIAC7(212) The processor family is VIA C7(TM).  deviceFamilyIsvIAEden(213) The processor family is VIA C7(TM).  deviceFamilyIsMultiCoreIntelXeo The processor family is Multi-Core Intel Xcon processor.  deviceFamilyIsDualCoreIntelXeon The processor family is Dual-Core Intel Xcon processor family Is Quad-Core Intel Xcon processor family Is Quad-Core Intel Xcon processor family is Dual-Core Intel Xcon processor family is Quad-Core Intel Xcon processor family is Multi-Core Intel Xcon processor family is Quad-Core Intel Xcon processor family is Multi-Core Intel Xcon processor	deviceFamilyIsG4(201)	The processor family is G4.
deviceFamilyIsvIAC7-M(210) The processor family is z/Architectur base.  deviceFamilyIsvIAC7-M(210) The processor family is VIA C7(TM)-M.  deviceFamilyIsvIAC7-D(211) The processor family is family is VIA C7(TM)-D.  deviceFamilyIsvIAC7(212) The processor family VIA Eden(TM).  deviceFamilyIsvIAEden(213) The processor family VIA Eden(TM).  deviceFamilyIsMultiCoreIntelXeo The processor family is Multi-Core Intel Xeon processor.  deviceFamilyIsDualCoreIntelXeon The processor family is Dual-Core Intel Xxxx(215) Xeon processor family is Quad-Core Intel Xxxx(216) Xeon processor family is Quad-Core Intel Xxxx(218) Xeon processor family is Dual-Core Intel Xxxx(218) Xeon processor family is Quad-Core Intel Xxxx(219) Xeon processor family is Quad-Core Intel Xxxx(219) Xeon processor family is Quad-Core Intel Xxxx(219) Xeon processor family is Dual-Core Intel Xxxx(221) Xeon processor family is Quad-Core Intel Xxxx(221) Xeon processor family is Quad-Core Intel Xxxx(221) Xeon processor family is Quad-Core Intel Xxxx(222) Xeon processor family is Quad-Core Intel Xxxx(222) Xeon processor family is Multi-Core Intel Xxxx(223) The processor family is Multi-Core Intel Xxxx(223) Xeon processor family is Multi-Core Intel Xxxx(223) The processor family is Multi-Core Intel Xxxx(223) T	deviceFamilyIsG5(202)	The processor family is G5.
deviceFamilyIsVIAC7-M(210)  deviceFamilyIsVIAC7-D(211)  deviceFamilyIsVIAC7(212)  deviceFamilyIsVIAC7(212)  deviceFamilyIsVIAEden(213)  deviceFamilyIsMultiCoreIntelXeo n(214)  deviceFamilyIsDualCoreIntelXeon deviceFamilyIsQuadCoreIntelXeon deviceFamilyIsQuadCoreIntelXeon deviceFamilyIsDualCoreIntelXeon deviceFamilyIsDualCoreIntelXeon deviceFamilyIsQuadCoreIntelXeon deviceFamilyIsQuadCoreIntelXeon deviceFamilyIsQuadCoreIntelXeon deviceFamilyIsQuadCoreIntelXeon free processor family is Quad-Core Intel xcon processor 3xxx Series. deviceFamilyIsQuadCoreIntelXeon free processor family is Quad-Core Intel xcon processor 3xxx Series. deviceFamilyIsQuadCoreIntelXeon free processor family is Quad-Core Intel xcon processor 5xxx Series. deviceFamilyIsQuadCoreIntelXeon free processor family is Quad-Core Intel xcon processor family is Quad-Core Intel xcon processor family is Dual-Core Intel xcon processor family is Quad-Core Intel xcon processor family is Multi-Core Intel xcon processor family is Mu	deviceFamilyIsESA390G6(203)	The processor family is ESA/390 G6.
deviceFamilyIsVIAC7-D(211)  deviceFamilyIsVIAC7(212)  deviceFamilyIsVIAC7(212)  deviceFamilyIsVIAEden(213)  deviceFamilyIsMultiCoreIntelXeo n(214)  deviceFamilyIsDualCoreIntelXeo The processor family is Multi-Core Intel Xeon processor.  deviceFamilyIsDualCoreIntelXeon 3xxx(215)  deviceFamilyIsQuadCoreIntelXeon The processor family is Dual-Core Intel Xeon processor 3xxx Series.  deviceFamilyIsQuadCoreIntelXeon The processor family is Quad-Core Intel Xeon processor 5xxx Series.  deviceFamilyIsDualCoreIntelXeon The processor family is Dual-Core Intel Xeon processor 5xxx Series.  deviceFamilyIsQuadCoreIntelXeon The processor family is Quad-Core Intel Xeon processor 5xxx Series.  deviceFamilyIsQuadCoreIntelXeon The processor family is Dual-Core Intel Xeon processor 5xxx Series.  deviceFamilyIsDualCoreIntelXeon The processor family is Dual-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsQuadCoreIntelXeon The processor family is Quad-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsQuadCoreIntelXeon The processor family is Quad-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsMultiCoreIntelXeo The processor family is Multi-Core Intel Xeon processor 7xxx Series.  The processor family is Multi-Core Intel Xeon processor 7xxx Series.  The processor family is Multi-Core Intel Xeon processor 7xxx Series.  The processor family is Multi-Core Intel Xeon processor 7xxx Series.	deviceFamilyIszArchitectur(204)	
deviceFamilyIsVIAC7(212)  deviceFamilyIsVIAEden(213)  deviceFamilyIsMultiCoreIntelXeo n(214)  deviceFamilyIsMultiCoreIntelXeo deviceFamilyIsDualCoreIntelXeon deviceFamilyIsQuadCoreIntelXeon deviceFamilyIsQuadCoreIntelXeon deviceFamilyIsQuadCoreIntelXeon deviceFamilyIsQuadCoreIntelXeon deviceFamilyIsQuadCoreIntelXeon deviceFamilyIsQuadCoreIntelXeon deviceFamilyIsQuadCoreIntelXeon fixxx(216)  deviceFamilyIsQuadCoreIntelXeon fixxx(218)  deviceFamilyIsQuadCoreIntelXeon fixxx(219)  deviceFamilyIsQuadCoreIntelXeon fixxx(219)  deviceFamilyIsQuadCoreIntelXeon fixxx(221)  deviceFamilyIsQuadCoreIntelXeon fixxx(221)  deviceFamilyIsQuadCoreIntelXeon fixxx(222)  deviceFamilyIsQuadCoreIntelXeon fixxx(222)  deviceFamilyIsQuadCoreIntelXeon fixxx(223)  deviceFamilyIsMultiCoreIntelXeon fixxx(223)  The processor family is Quad-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsMultiCoreIntelXeon fixxx(223)  The processor family is Multi-Core Intel Xeon processor 7xxx Series.  The processor family is Multi-Core Intel Xeon processor 7xxx Series.  The processor family is Multi-Core Intel Xeon processor 7xxx Series.  The processor family is Multi-Core Intel Xeon processor 7xxx Series.  The processor family is Multi-Core Intel Xeon processor family is Multi-Core Intel Xeon processor 7xxx Series.	deviceFamilyIsVIAC7-M(210)	The processor family is VIA C7(TM)-M.
deviceFamilyIsVIAEden(213) The processor family VIA Eden(TM).  deviceFamilyIsMultiCoreIntelXeon n(214) The processor family is Multi-Core Intel Xeon processor.  deviceFamilyIsDualCoreIntelXeon The processor family is Dual-Core Intel Xeon processor 3xxx Series.  deviceFamilyIsQuadCoreIntelXeon The processor family is Quad-Core Intel Xeon processor 3xxx Series.  deviceFamilyIsDualCoreIntelXeon The processor family is Dual-Core Intel Xeon processor 5xxx Series.  deviceFamilyIsQuadCoreIntelXeon The processor family is Quad-Core Intel Xeon processor 5xxx Series.  deviceFamilyIsQuadCoreIntelXeon The processor family is Dual-Core Intel Xeon processor 5xxx Series.  deviceFamilyIsDualCoreIntelXeon The processor family is Dual-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsQuadCoreIntelXeon The processor family is Quad-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsQuadCoreIntelXeon The processor family is Multi-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsMultiCoreIntelXeo The processor family is Multi-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsMultiCoreIntelXeon The processor family is Multi-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsMultiCoreIntelXeon The processor family is Multi-Core Intel Xeon processor 7xxx Series.	deviceFamilyIsVIAC7-D(211)	
deviceFamilyIsMultiCoreIntelXeo n(214) The processor family is Multi-Core Intel Xeon processor.  deviceFamilyIsDualCoreIntelXeon 3xxx(215) The processor family is Dual-Core Intel Xeon processor 3xxx Series.  deviceFamilyIsQuadCoreIntelXeon 3xxx(216) The processor family is Quad-Core Intel Xeon processor 3xxx Series.  deviceFamilyIsDualCoreIntelXeon 5xxx(218) The processor family is Dual-Core Intel Xeon processor 5xxx Series.  deviceFamilyIsQuadCoreIntelXeon 5xxx(219) The processor family is Quad-Core Intel Xeon processor 5xxx Series.  deviceFamilyIsDualCoreIntelXeon 7xxx(221) The processor family is Dual-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsQuadCoreIntelXeon 7xxx(222) The processor family is Multi-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsMultiCoreIntelXeo The processor family is Multi-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsMultiCoreIntelXeo The processor family is Multi-Core Intel Xeon processor 7xxx Series.  The processor family is Multi-Core Intel Xeon processor 7xxx Series.  The processor family is Multi-Core Intel Xeon processor 7xxx Series.  The processor family is Multi-Core Intel Xeon processor 7xxx Series.	deviceFamilyIsVIAC7(212)	The processor family is VIA C7(TM).
deviceFamilyIsDualCoreIntelXeon The processor family is Dual-Core Intel Xeon processor 3xxx Series.  deviceFamilyIsQuadCoreIntelXeon The processor family is Quad-Core Intel Xeon processor 3xxx Series.  deviceFamilyIsDualCoreIntelXeon The processor family is Dual-Core Intel Xeon processor 5xxx Series.  deviceFamilyIsQuadCoreIntelXeon The processor family is Quad-Core Intel Xeon processor 5xxx Series.  deviceFamilyIsQuadCoreIntelXeon The processor family is Quad-Core Intel Xeon processor 5xxx Series.  deviceFamilyIsDualCoreIntelXeon The processor family is Dual-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsQuadCoreIntelXeon The processor family is Quad-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsQuadCoreIntelXeon The processor family is Quad-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsMultiCoreIntelXeo The processor family is Multi-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsMultiCoreIntelXeo The processor family is Multi-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsi860(250) The processor family is i860.	deviceFamilyIsVIAEden(213)	The processor family VIA Eden(TM).
3xxx(215)Xeon processor 3xxx Series.deviceFamilyIsQuadCoreIntelXeon 3xxx(216)The processor family is Quad-Core Intel Xeon processor 3xxx Series.deviceFamilyIsDualCoreIntelXeon 5xxx(218)The processor family is Dual-Core Intel Xeon processor 5xxx Series.deviceFamilyIsQuadCoreIntelXeon 5xxx(219)The processor family is Quad-Core Intel Xeon processor 5xxx Series.deviceFamilyIsDualCoreIntelXeon 7xxx(221)The processor family is Dual-Core Intel Xeon processor 7xxx Series.deviceFamilyIsQuadCoreIntelXeon 7xxx(222)The processor family is Quad-Core Intel Xeon processor 7xxx Series.deviceFamilyIsMultiCoreIntelXeo n7xxx(223)The processor family is Multi-Core Intel Xeon processor 7xxx Series.deviceFamilyIsi860(250)The processor family is i860.		*
3xxx(216)Xeon processor 3xxx Series.deviceFamilyIsDualCoreIntelXeon 5xxx(218)The processor family is Dual-Core Intel Xeon processor 5xxx Series.deviceFamilyIsQuadCoreIntelXeon 5xxx(219)The processor family is Quad-Core Intel Xeon processor 5xxx Series.deviceFamilyIsDualCoreIntelXeon 7xxx(221)The processor family is Dual-Core Intel Xeon processor 7xxx Series.deviceFamilyIsQuadCoreIntelXeon 7xxx(222)The processor family is Quad-Core Intel Xeon processor 7xxx Series.deviceFamilyIsMultiCoreIntelXeo 17xxx(223)The processor family is Multi-Core Intel Xeon processor 7xxx Series.deviceFamilyIsi860(250)The processor family is i860.		
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5xxx(219)Xeon processor 5xxx Series.deviceFamilyIsDualCoreIntelXeon 7xxx(221)The processor family is Dual-Core Intel Xeon processor 7xxx Series.deviceFamilyIsQuadCoreIntelXeon 7xxx(222)The processor family is Quad-Core Intel Xeon processor 7xxx Series.deviceFamilyIsMultiCoreIntelXeo n7xxx(223)The processor family is Multi-Core Intel Xeon processor 7xxx Series.deviceFamilyIsi860(250)The processor family is i860.		
7xxx(221) Xeon processor 7xxx Series.  deviceFamilyIsQuadCoreIntelXeon The processor family is Quad-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsMultiCoreIntelXeo The processor family is Multi-Core Intel Xeon processor 7xxx Series.  deviceFamilyIsi860(250) The processor family is i860.		
7xxx(222)Xeon processor 7xxx Series.deviceFamilyIsMultiCoreIntelXeo n7xxx(223)The processor family is Multi-Core Intel Xeon processor 7xxx Series.deviceFamilyIsi860(250)The processor family is i860.		
n7xxx(223) Xeon processor 7xxx Series.  deviceFamilyIsi860(250) The processor family is i860.		
deviceFamilyIsi960(251) The processor family is i960.	deviceFamilyIsi860(250)	The processor family is i860.
	deviceFamilyIsi960(251)	The processor family is i960.

Table 13-7. Cache Device Type

Variable Name: DellCacheDeviceType

Data Type: Integer

Possible Data Values	Meaning of Data Value
deviceTypeIsOther(1)	System cache type is not one of the following:
deviceTypeIsUnknown(2)	System cache type is unknown.
deviceTypeIsInstruction(3)	System cache type is instruction.
deviceTypeIsData(4)	System cache type is data.
deviceTypeIsUnified(5)	System cache type is both instruction and data.

Table 13-8. Cache Device Level

Variable Name: DellCacheDeviceLevel

Possible Data Values	Meaning of Data Value
deviceLevelIsOther(1)	Device level is not one of the following:
deviceLevelIsUnknown(2)	Device level is unknown.
deviceLevelIsPrimary(3)	Device level is primary.
deviceLevelIsSecondary(4)	Device level is secondary.
deviceLevelIsTertiary(5)	Device level is tertiary.

Table 13-9. Cache Device Write Policy

Variable Name: DellCacheDeviceWritePolicy

Data Type: Integer

Possible Data Values	Meaning of Data Value
<pre>deviceWritePolicyIsOther(1)</pre>	Device write policy is not one of the following:
deviceWritePolicyIsUnknown(2)	Device write policy is unknown.
deviceWritePolicyIsWriteBack(3)	Device write policy is write back.
deviceWritePolicyIsWriteThrough(4)	Device write policy is write through.
deviceWritePolicyIsVariesByAddress(5)	Device write policy varies by address.
deviceWritePolicyIsDeterminedByIO(6)	Device write policy is determined by I/O query.

Table 13-10. Cache Device Status State

Variable Name: DellCacheDeviceStatusState

Possible Data Values	Meaning of Data Value
other(1)	Device state is not one of the following:
unknown(2)	Device state is unknown.
enabled(3)	Device is enabled.
userDisabled(4)	Device is disabled by the user.
biosDisabled(5)	Device basic input/output system (BIOS) is disabled.

Table 13-11. Cache Device ECC Type

Variable Name: DellPointingDeviceType

Data Type: Integer

Possible Data Values	Meaning of Data Value
deviceTypeIsOther(1)	Device type is not one of the following:
deviceTypeIsUnknown(2)	Device type is unknown.
deviceTypeIsAMouse(3)	Device type is a mouse.
deviceTypeIsATrackBall(4)	Device type is a track ball.
deviceTypeIsATrackPoint(5)	Device type is a track point.
deviceTypeIsAGlidePoint(6)	Device type is a glide point.
deviceTypeIsATouchPad(7)	Device type is a touch pad.

Table 13-12. Cache Device Associativity

Variable Name: DellCacheDeviceAssociativity

Possible Data Values	Meaning of Data Value
deviceAssociativityIsOther(1)	Device associativity is not one of the following:
deviceAssociativityIsUnknown(2)	Device associativity is unknown.
<pre>deviceAssociativityIsDirectMapped(3)</pre>	Device is direct mapped.
deviceAssociativityIsTwoWaySetAssociative(4)	Device is two-way set associative.
deviceAssociativityIsFourWaySetAssociative(5)	Device is four-way set associative.
<pre>deviceAssociativityIsFullyAssociative (6)</pre>	Device is fully associative.
<pre>deviceAssociativityIsEightWaySetAsso ciative(7)</pre>	Device is eight-way set associative.

Table 13-12. Cache Device Associativity (continued)

Variable Name: DellCacheDeviceAssociativity

Data Type: Integer

Possible Data Values	Meaning of Data Value
<pre>deviceAssociativityIsSixteenWaySet Associative(8)</pre>	Device is sixteen-way set associative.
deviceAssociativityIs12WaySetAssociative(9)	Device is 12-way Set-Associative.
deviceAssociativityIs24WaySetAssociative(10)	Device is 24-way Set-Associative.
deviceAssociativityIs32WaySetAssociative(11)	Device is 32-way Set-Associative.
deviceAssociativityIs48WaySetAssociative(12)	Device is 48-way Set-Associative.
deviceAssociativityIs64WaySetAssociative(13)	Device is 64-way Set-Associative.

Table 13-13. Cache Device Location

Variable Name: DellCacheDeviceLocation

Possible Data Values	Meaning of Data Value
deviceLocationIsOther(1)	Device location is not one of the following:
deviceLocationIsUnknown(2)	Device location is unknown.
<pre>deviceLocationIsInternal(3)</pre>	Device location is internal.
deviceLocationIsExternal(4)	Device location is external.

Table 13-14. Cache Device Static Random-Access Memory (SRAM) Type

Variable Name: DellCacheDeviceSRAMType

Data Type: Integer

Possible Data Values	Meaning of Data Value
deviceSRAMTypeIsOther(1)	Device SRAM type is not one of the following:
deviceSRAMTypeIsUnknown(2)	Device SRAM type is unknown.
deviceSRAMTypeIsNonBurst(3)	Device SRAM type is nonburst.
deviceSRAMTypeIsBurst(4)	Device SRAM type is burst.
deviceSRAMTypeIsPipeBurst(5)	Device SRAM type is pipeburst.
deviceSRAMTypeIsSynchronous(6)	Device SRAM type is synchronous.
<pre>deviceSRAMTypeIsAsynchronous(7)</pre>	Device SRAM type is asynchronous.

Table 13-15. Memory Device Type Form Factor

Variable Name: DellMemoryDeviceFormFactor

Possible Data Values	Meaning of Data Value
deviceFormFactorIsOther(1)	Device form factor is not one of the following:
deviceFormFactorIsUnknown(2)	Device form factor is unknown.
deviceFormFactorIsSIMM(3)	Device form factor is SIMM.
deviceFormFactorIsSIP(4)	Device form factor is SIP.
deviceFormFactorIsAChip(5)	Device form factor is a chip.
deviceFormFactorIsDIP(6)	Device form factor is DIP.
deviceFormFactorIsZIP(7)	Device form factor is ZIP.
<pre>deviceFormFactorIsAProprietaryCard (8)</pre>	Device form factor is a proprietary card.
deviceFormFactorIsDIMM(9)	Device form factor is DIMM.
deviceFormFactorIsTSOP(10)	Device form factor is TSOP.

Table 13-15. Memory Device Type Form Factor *(continued)* 

Variable Name: DellMemoryDeviceFormFactor

Data Type: Integer

Possible Data Values	Meaning of Data Value
deviceFormFactorIsARowOfChips(11)	Device form factor is a row of chips.
deviceFormFactorIsRIMM(12)	Device form factor is RIMM.
deviceFormFactorIsSODIMM(13)	Device form factor is SODIMM.
deviceFormFactorIsSRIMM(14)	Device form factor is SRIMM.
deviceFormFactorIsFBDIMM(15)	Device form factor is FB-DIMM.

Table 13-16. Memory Device Type

Variable Name: DellMemoryDeviceType

Possible Data Values	Meaning of Data Value
deviceTypeIsOther(1)	Device type is not one of the following:
deviceTypeIsUnknown(2)	Device type is unknown.
deviceTypeIsDRAM(3)	Device type is DRAM.
deviceTypeIsEDRAM(4)	Device type is EDRAM.
deviceTypeIsVRAM(5)	Device type is VRAM.
deviceTypeIsSRAM(6)	Device type is SRAM.
deviceTypeIsRAM(7)	Device type is RAM.
<pre>deviceTypeIsROM(8)</pre>	Device type is ROM.
deviceTypeIsFLASH(9)	Device type is FLASH.
deviceTypeIsEEPROM(10)	Device type is EEPROM.
deviceTypeIsFEPROM(11)	Device type is FEPROM.
deviceTypeIsEPROM(12)	Device type is EPROM.
deviceTypeIsCDRAM(13)	Device type is CDRAM.
deviceTypeIs3DRAM(14)	Device type is 3DRAM.

Table 13-16. Memory Device Type (continued)

Variable Name: DellMemoryDeviceType

Data Type: Integer

Possible Data Values	Meaning of Data Value
deviceTypeIsSDRAM(15)	Device type is SDRAM.
deviceTypeIsSGRAM(16)	Device type is SGRAM.
deviceTypeIsRDRAM(17)	Device type is RDRAM.
deviceTypeIsDDR(18)	Device type is DDR.
deviceTypeIsDDR2(19)	Device type is DDR2.
deviceTypeIsDDR2FBDIMM(20)	Device type is DDR2 FB-DIMM.
deviceTypeIsDDR3(24)	Device type is DDR3.

Table 13-17. Memory Device Type Details

Variable Name: DellMemoryDeviceTypeDetails

Possible Data Values	Meaning of Data Value
deviceTypeDeatilIsOther(1)	The detailed device type is not one of the following:
deviceTypeDetailIsUnknown(2)	The detailed device type is unknown.
deviceTypeDetailIsFastPaged(3)	The detailed device type is fast paged.
deviceTypeDetailIsStaticColumn(4)	The detailed device type is static column.
deviceTypeDetailIsPseudoStatic(5)	The detailed device type is pseudo-static.
deviceTypeDetailIsRAMBUS(6)	The detailed device type is RAMBUS.
deviceTypeDetailIsSynchronous(7)	The detailed device type is synchronous.

Table 13-17. Memory Device Type Details (continued)

Variable Name: DellMemoryDeviceTypeDetails

Data Type: Integer

Possible Data Values	Meaning of Data Value
deviceTypeDetailIsCMOS(8)	The detailed device type is CMOS.
deviceTypeDetailIsEDO(9)	The detailed device type is EDO.
deviceTypeDetailIsWindowDRAM(10)	The detailed device type is "Window" DRAM.
deviceTypeDetailIsCacheDRAM(11)	The detailed device type is Cache DRAM.
deviceTypeDetailIsNonVolatile(12)	The detailed device type is Non-volatile.
deviceTypeDetailIsRegistered(13)	The detailed device type is registered.
deviceTypeDetailIsNonRegistered(14)	The detailed device type is non-registered.

Table 13-18. Generic Device Type

Variable Name: DellGenericDeviceType

Possible Data Values	Meaning of Data Value
deviceTypeIsOther(1)	Device type is not one of the following:
deviceTypeIsUnknown(2)	Device type is unknown.
deviceTypeIsAVideoDevice(3)	Device type is a video.
deviceTypeIsASCSIController(4)	Device type is a SCSI controller.
deviceTypeIsAnEthernetDevice(5)	Device type is Ethernet.
deviceTypeIsTokenRingDevice(6)	Device type is token ring.
deviceTypeIsASoundDevice(7)	Device type is sound.

Table 13-19. Memory Device Failure Modes

Variable Name: DellMemoryDeviceFailureModes

Data Type: Integer

**NOTE:** These values are bit masks, so combination values are possible.

Possible Data Values	Meaning of Data Value
(0)	Memory device has no faults.
eccSingleBitCorrectionWarningRate(1)	Memory device has exceeded the Correctable Memory Event warning rate.
eccSingleBitCorrectionFailureRate(2)	Memory device has exceeded the Correctable Memory Event failure rate.
eccMultiBitFault(4)	Memory device has encountered an Uncorrectable Memory Event.
eccSingleBitCorrectionLoggingDisabled(8)	Correctable Memory Event logging for memory device has been disabled.
deviceDisabledBySpareActivation(16)	Memory device is disabled because of spare memory activation.

Table 13-20. Network Device Connection Status

Variable Name: DellNetworkDeviceConnectionStatus

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(0)	Unable to determine connection status.
connected(1)	Media reports that device is connected.
disconnected(2)	Media reports that device is disconnected.
driverBad(3)	Driver cannot be opened to determine status.
driverDisabled(4)	Driver is disabled.
hardwareInitalizing(10)	Hardware is initializing.
hardwareResetting(11)	Hardware is resetting.
hardwareClosing(12)	Hardware is closing down.
hardwareNotReady(13)	Hardware is not ready.

Table 13-21. Network Device Teaming Flags

Variable Name: DellNetworkDeviceTeamingFlags

Data Type: Integer

**NOTE:** These values are bit fields, so combination values are possible.

Possible Data Values	Meaning of Data Value
undefined(0)	Teaming flags are undefined.
noTeam(1)	Device is not part of any team.
teamingEnabled(2)	Teaming is enabled.
adapterFaultToleranceMode(4)	Adapter fault tolerance teaming mode.
loadBalancingMode(8)	Load balancing teaming mode.

Table 13-22. Network Device TOE Capability Flags

Variable Name: DellNetworkDeviceTOECapabilityFlags

Data Type: Integer

**NOTE:** These values are bit fields, so combination values are possible.

Possible Data Values	Meaning of Data Value
none(0)	Querying for TOE capability is not supported.
unknown(1)	Querying for TOE capability is supported but query returned an error.
available(2)	Device has TOE capability.
notAvailable(4)	Device does not have TOE capability.
cannotBeDetermined(8)	Querying for TOE capability is supported but an error prevented querying.
driverNotResponding(16)	Querying for TOE capability is supported but driver did not respond to query.

Table 13-23. Network Device RDMA Capability Flags

Variable Name: DellNetworkDeviceRDMACapabilityFlags

Data Type: Integer

**NOTE:** These values are bit fields, so combination values are possible.

Possible Data Values	Meaning of Data Value
none(0)	Querying for RDMA capability is not supported.
unknown(1)	Querying for RDMA capability is supported but query returned an error.
available(2)	Device has RDMA capability.
notAvailable(4)	Device does not have RDMA capability.
cannotBeDetermined(8)	Querying for RDMA capability is supported but an error prevented querying.
driverNotResponding(16)	Querying for RDMA capability is supported but driver did not respond to query.

Table 13-24. Network Device iSCSI Capability Flags

Variable Name: DellNetworkDeviceiSCSICapabilityFlags

Data Type: Integer

**NOTE:** These values are bit fields, so combination values are possible.

Possible Data Values	Meaning of Data Value
none(0)	Querying for iSCSI capability is not supported.
unknown(1)	Querying for iSCSI capability is supported but query returned an error.
available(2)	Device has iSCSI capability.
notAvailable(4)	Device does not have iSCSI capability.
cannotBeDetermined(8)	Querying for iSCSI capability is supported but an error prevented querying.
driverNotResponding(16)	Querying for iSCSI capability is supported but driver did not respond to query.

## Table 13-25. Managed System Services Device Type

Variable Name: DellManagedSystemServicesDeviceType

Possible Data Values	Meaning of Data Value
baseDevice(0)	Device type is base device.
optionalDevice(1)	Device type is optional device.

# **Slot Group**

The Slot Group provides information about the types of slots that your system supports. This management information base (MIB) group also provides information about the voltages, capabilities, states, and settings that are possible for these slots.

# **System Slot Group Table**

The System Slot Group defines objects in the System Slot MIB table.

## **System Slot Table**

The following object sets up the System Slot Table:

Name systemSlotTable

Object ID1.3.6.1.4.1.674.10892.1.1200.10DescriptionDefines the System Slot Table.SyntaxIntegerSystemStateTableEntry

**Access** Not accessible

## **System Slot Table Entry**

Name systemSlotTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1200.10.1

**Description** Defines the System Slot Table entry.

**Syntax** IntegerSystemSlotTableEntry

**Access** Not accessible

Index systemSlotchassisIndex, systemSlotIndex

#### **System Slot Chassis Index**

 Name
 systemSlotchassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.1200.10.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

### **System Slot Index**

Name systemSlotIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1200.10.1.2

**Description** Defines the index (one-based) of the system slot in this chassis.

**Syntax** DellObjectRange

Access Read-only

#### System Slot State Capabilities Unique

Name systemSlotStateCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1200.10.1.3

**Description** Defines the capabilities of the system slot.

**Syntax** DellSystemSlotStateCapabilities (See Table 14-1.)

Access Read-only

## **System Slot State Settings Unique**

Name systemSlotStateSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1200.10.1.4

**Description** Defines the state of the system slot.

**Syntax** DellSystemSlotStateSettings (See Table 14-2.)

Access Read-only

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#### **System Slot Status**

Name systemSlotStatus

 Object ID
 1.3.6.1.4.1.674.10892.1.1200.10.1.5

 Description
 Defines the status of the system slot.

Syntax DellStatus
Access Read-only

## **System Slot Current Usage**

Name systemSlotCurrentUsage

**Object ID** 1.3.6.1.4.1.674.10892.1.1200.10.1.6

**Description** Defines the current usage of the system slot.

Syntax DellStatus
Access Read-only

## **System Slot Type**

Name systemSlotType

Object ID 1.3.6.1.4.1.674.10892.1.1200.10.1.7

Description Defines the type of the system slot.

Syntax DellSystemSlotType (See Table 14-3.)

Access Read-only

## **System Slot External Slot Name**

Name systemSlotSlotExternalSlotName

 $\textbf{Object ID} \qquad \qquad 1.3.6.1.4.1.674.10892.1.1200.10.1.8$ 

**Description** Defines the external connector name of the system slot.

Syntax DellString
Access Read-only

#### System Slot Length

Name systemSlotLength

 Object ID
 1.3.6.1.4.1.674.10892.1.1200.10.1.9

 Description
 Defines the length of the system slot.

**Syntax** DellSystemSlotLength (See Table 14-5.)

Access Read-only

#### System Slot Slot ID

Name systemSlotSlotID

**Object ID** 1.3.6.1.4.1.674.10892.1.1200.10.1.10

**Description** Defines the slot identification number of the system slot. A zero (0)

indicates that the slot is embedded on the motherboard.

**Syntax** DellUnsigned32BitRange

Access Read-only

### **System Slot Category**

Name systemSlotCategory

**Object ID** 1.3.6.1.4.1.674.10892.1.1200.10.1.11

**Description** Defines the system slot category.

**Syntax** DellUnsigned32BitRange

Access Read-only

## System Slot Hot-Plug Bus Width

 Name
 systemSlotHotPlugBusWidth

 Object ID
 1.3.6.1.4.1.674.10892.1.1200.10.1.12

Description Defines the bus width of the hot-plug system slot.

Syntax DellSystemSlotHotPlugBusWidth (See Table 14-7.)

#### **System Slot Hot-Plug Slot Speed**

 Name
 systemSlotHotPlugSlotSpeed

 Object ID
 1.3.6.1.4.1.674.10892.1.1200.10.1.13

**Description** Defines the slot speed in megahertz of the hot-plug system slot.

A zero (0) indicates that the slot speed is unknown.

**Syntax** DellUnsigned32BitRange

Access Read-only

## **System Slot Hot-Plug Adapter Speed**

Name systemSlotHotPlugAdapterSpeed

**Object ID** 1.3.6.1.4.1.674.10892.1.1200.10.1.14

**Description** Defines the adapter speed in megahertz of the hot-plug system

slot. A zero (0) indicates that the slot speed is unknown.

**Syntax** DellUnsigned32BitRange

Access Read-only

## **System Slot Variable Values**

This section includes definitions for server administrator-specific variable values used in this section.

Table 14-1. System Slot State Capabilities

Variable Name: DellSystemSlotStateCapabilities

"	
Possible Data Values	Meaning of Data Value
<pre>systemSlotHotPlugIsUnknown (1)</pre>	The system slot's capabilities are unknown.
<pre>systemSlotHotPlugIsHotPlug gableCapable(2)</pre>	The system slot supports hot-plug.
<pre>systemSlotHotPlugCanBePower edOn(4)</pre>	The system slot power (and corresponding light-emitting diode [LED]) can be powered on.

Table 14-1. System Slot State Capabilities (continued)

Variable Name: DellSystemSlotStateCapabilities

Data Type. Threeger	
Possible Data Values	Meaning of Data Value
<pre>systemSlotHotPlugCanSignal Attention(8)</pre>	The system slot attention state (and corresponding LED) can be set.
systemSlotHotPlugCanSignal PowerFault(16)	Power on fault (and corresponding LED) can be detected due to a short or overcurrent.
<pre>systemSlotHotPlugCanSignal AdapterPresent(32)</pre>	Adapter (card) present in slot (may not be powered) can be detected.
systemSlotHotPlugCanSignal PowerButtonPressed(64)	The system slot power button can be pressed to signal a toggle of the power state.
canSupportAllHotPlugCapabi lities(126)	The system slot can support all hot-plug capabilities.
<pre>systemSlotHotPlugIsUnknown (1)</pre>	The system slot's capabilities are unknown.
systemSlotCanProvide5Volts (128)	The system slot can provide a 5-volt (V) supply.
<pre>systemSlotCanProvide3Point 3Volts(256)</pre>	The system slot can provide a 3.3-V supply.
systemSlotCanSignalIfShared (512)	The system slot's opening, if shared with another slot, can be detected.
systemSlotCanSupportCard16 (1024)	The system slot can support PC Card-16.
systemSlotCanSupportCardBus (2048)	The system slot can support CardBus.
<pre>systemSlotCanSupportZoomVid eo(4096)</pre>	The system slot can support Zoom Video.
systemSlotCanSupportModem RingResume(8192)	The system slot can support modem ring resume.
systemSlotCanSupportPMESig nal(16384)	The system slot can support Power Management Enable (PME#) signal.
canSupportAllSlotCapabilit ies(32640)	The system slot can support all slot capabilities.
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Table 14-2. System Slot State Settings

Variable Name: DellSystemSlotStateSettings

Possible Data Values	Meaning of Data Value
systemSlotHotPlugIsUnknown(1)	The system slot's capabilities are unknown.
systemSlotHotPlugIsHotPluggable(2)	The system slot supports hot-plug.
systemSlotHotPlugIsPoweredOn(4)	The system slot power (and corresponding LED) can be powered on.
systemSlotHotPlugIsAtAttention(8)	The system slot attention state (and corresponding LED) can be set.
systemSlotHotPlugIsHotPluggable(2)	The system slot supports hot-plug.
systemSlotHotPlugIsPoweredOn(4)	The system slot power (and corresponding LED) is on.
systemSlotHotPlugIsAtAttention(8)	The system slot attention state (and corresponding LED) is on.
systemSlotHotPlugHasPowerFaulted (16)	Power on fault (and corresponding LED) was detected due to a short or overcurrent.
<pre>systemSlotHotPlugAdapterIsPresent (32)</pre>	Adapter (card) present in slot (may not be powered).
systemSlotHotPlugAdapterPresentAnd PoweredOn(36)	Adapter (card) present in slot and powered.
systemSlotHotPlugPowerButtonPressed (64)	The system slot power button pressed to signal a toggle of the power state.
systemSlotProvides5Volts(128)	The system slot provides a 5-V supply.
systemSlotProvides3Point3Volts(256)	The system slot provides a 3.3-V supply.
systemSlotIsShared(512)	The slot's opening is shared with another slot.

Table 14-2. System Slot State Settings (continued)

Variable Name: DellSystemSlotStateSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
systemSlotSupportsCard16(1024)	The system slot supports PC Card-16.
systemSlotSupportsCardBus(2048)	The system slot supports CardBus.
systemSlotSupportsZoomVideo(4096)	The system slot supports zoom video.
<pre>systemSlotSupportsModemRingResume (8192)</pre>	The system slot supports modem ring resume.
systemSlotSupportsPMESignal(16384)	The system slot supports power management enable (PME#) signal.
supportsPMEand3P3Vand5VandHotPlugg able(16770)	The system slot supports power management enable.
supportsPMEand3P3Vand5VhasAdapterOn(16804)	The system slot supports power management event (PME), supplies 3.3 V, and supplies 5 V. The adapter is on.
supportsPMEand3P3Vand5VhasAdapter OnandisHotPluggable(16806)	The system slot supports PME, supplies 3.3 V, and supplies 5 V. The adapter is on and the system slot is hot pluggable.
supportsPMEand3P3VIsSharedand5Vhas AdapterOnandisHotPluggable(17316)	The system slot supports PME, supplies 3.3 V, supplies 5 V, and shares a slot opening. The adapter is on and the system slot is hot pluggable.

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Table 14-3. System Slot Type

Variable Name: DellSystemSlotType

Possible Data Values	Meaning of Data Value
systemSlotIsOther(1)	The system slot type is not one of following:
systemSlotIsUnknown(2)	The system slot type is unknown.
systemSlotIsISA(3)	The system slot is Industry Standard Architecture (ISA).
systemSlotIsMCA(4)	The system slot is Micro Channel Architecture (MCA).
systemSlotIsEISA(5)	The system slot is Extended Industry Standard Architecture (EISA).
systemSlotIsPCI(6)	The system slot is Peripheral Component Interconnect (PCI).
systemSlotIsPCMCIA(7)	The system slot is compliant with the Personal Computer Memory Card International Association (PCMCIA) standards.
systemSlotIsVLVESA(8)	The system slot is Very Low Voltage Enterprise System Architecture (VLVESA).
systemSlotIsProprietary(9)	The system slot is proprietary.
systemSlotIsProcessorCard(10)	The system slot is a processor card.
systemSlotIsProprietaryMemory(11)	The system slot is proprietary memory.
systemSlotIsIORiserCard(12)	The system slot is an I/O riser card.
systemSlotIsNuBUS(13)	The system slot is a NuBus.
systemSlotIsPCI66MHz(14)	The system slot is a PCI66MHz.
systemSlotIsAGP(15)	The system slot is an Advanced Graphics Port (AGP).
systemSlotIsAGP2X(16)	The system slot is an AGP 2x card.
systemSlotIsAGP4X(17)	The system slot is an AGP 4x card.

Table 14-3. System Slot Type (continued)

Variable Name: DellSystemSlotType

Possible Data Values	Meaning of Data Value
systemSlotIsPC98C20(18)	The system slot is a PC-98/C20.
systemSlotIsPC98C24(19)	The system slot is a PC-98/C24.
systemSlotIsPC98E(20)	The system slot type is PC-98/E.
systemSlotIsPC98LocalBus(21)	The system slot type is a PC-98 local bus.
systemSlotIsPC98Card(22)	The system slot type is a PC-98 card.
systemSlotIsPCIX(23)	The system slot type is a PCIX card.
systemSlotIsPCIExpress(24)	The system slot type is a PCI Express card.
systemSlotIsAGP8X(25)	The system slot type is an AGP 8x card.
systemSlotIsPCIExpressX1(166)	The system slot type is a PCI Express x1.
systemSlotIsPCIExpressX2(167)	The system slot type is a PCI Express x2.
systemSlotIsPCIExpressX4(168)	The system slot type is a PCI Express x4.
systemSlotIsPCIExpressX8(169)	The system slot type is a PCI Express x8.
systemSlotIsPCIExpressX16(170)	The system slot type is a PCI Express x16.
systemSlotIsPCIExpressGen2(171)	The system slot type is PCI Express Gen 2.
systemSlotIsPCIExpressGen2X1(172)	The system slot type is PCI Express Gen 2 x1.
systemSlotIsPCIExpressGen2X2(173)	The system slot type is PCI Express Gen 2 x2.

Table 14-3. System Slot Type (continued)

Variable Name: DellSystemSlotType

Data Type: Integer

Possible Data Values	Meaning of Data Value
systemSlotIsPCIExpressGen2X4(174)	The system slot type is PCI Express Gen 2 x4.
systemSlotIsPCIExpressGen2X8(175)	The system slot type is PCI Express Gen 2 x8.
systemSlotIsPCIExpressGen2X16(176)	The system slot type is PCI Express Gen 2 x16.

## Table 14-4. System Slot Usage

Variable Name: DellSystemSlotUsage

Data Type: Integer

Possible Data Values	Meaning of Data Value
systemSlotUsageIsOther(1)	The system slot usage is not one of following:
systemSlotUsageIsUnknown(2)	The system slot usage is unknown.
systemSlotUsageIsAvailable(3)	The system slot is available.
systemSlotUsageIsInUse(4)	The system slot is in use.

## Table 14-5. System Slot Length

 $\textbf{Variable Name:} \verb|DellSystemSlotLength|\\$ 

Possible Data Values	Meaning of Data Value
systemSlotLengthIsOther(1)	The system slot length is not one of following:
systemSlotLengthIsUnknown(2)	The system slot length is unknown.
systemSlotLengthIsShort(3)	The system slot length is short.
systemSlotLengthIsLong(4)	The system slot length is long.

Table 14-6. System Slot Category

Variable Name: DellSystemSlotCategory

Data Type: Integer

Possible Data Values	Meaning of Data Value
systemSlotCategoryIsOther(1)	The system slot category is not one of following:
systemSlotCategoryIsUnknown(2)	The system slot category is unknown.
<pre>systemSlotCategoryIsBusConnector(3)</pre>	The system slot is a bus connector.
systemSlotCategoryIsPCMCIA(4)	The system slot category is PCMCIA.
<pre>systemSlotCategoryIsMotherboard(5)</pre>	The system slot is a motherboard.

Table 14-7. Hot-Plug Bus Width

Variable Name: DellSystemSlotHotPlugBusWidth

Possible Data Values	Meaning of Data Value
busWidthIsOther(1)	The system slot bus width is not one of following:
busWidthIsUnknown(2)	The system slot bus width is unknown.
busWidthIs8bits(3)	The system slot bus width is 8 bits.
busWidthIs16bits(4)	The system slot bus width is 16 bits.
busWidthIs32bits(5)	The system slot bus width is 32 bits.
busWidthIs64bits(6)	The system slot bus width is 64 bits.
busWidthIs128bits(7)	The system slot bus width is 128 bits.
busWidthIs1xOrx1(8)	The system slot bus width is 1x or x1.
busWidthIs2xOrx2(9)	The system slot bus width is 2x or x2.
busWidthIs4xOrx4(10)	The system slot bus width is 4x or x4.
busWidthIs8xOrx8(11)	The system slot bus width is 8x or x8.

Table 14-7. Hot-Plug Bus Width (continued)

Variable Name: DellSystemSlotHotPlugBusWidth

Data Type: Integer

Possible Data Values	Meaning of Data Value
busWidthIs12xOrx12(12)	The system slot bus width is 12x or x12.
busWidthIs16xOrx16(13)	The system slot bus width is 16x or x16.
busWidthIs32xOrx32(14)	The system slot bus width is 32x or x32.



**NOTE:** System slot bus width of type "n bits" are for parallel buses such as PCI.



**NOTE:** System slot bus width of type "nx or xn" are for serial buses such as PCI Express.

# **Memory Group**

The Memory Group provides information about the physical memory in your system. Variables in this group include error correction type, location, and different types of memory use, such as cache, flash, system, video, and nonvolatile memory.

# **Physical Memory Tables**

The following management information base (MIB) tables define the objects in the Memory Group:

- Physical Memory Array Table
- Physical Memory Array Mapped Table
- Physical Memory Configuration Table
- Physical Memory Logging Table
- Redundant Memory Unit Table
- Physical Memory Card Table

## **Physical Memory Array Table**

The physical memory array is the entire physical memory of a system. The example that follows shows variable values for a system that has one 128-megabyte (MB) dual in-line memory module (DIMM):

- physicalMemoryArrayMaximumSize = 2,097,152 kilobytes (KB) or 2 gigabytes (GB)
- physicalMemoryArrayTotalNumberSockets = 4 (the example system has four DIMM slots on the motherboard)
- physicalMemoryArrayInUseNumberSockets = 1 (there is only one DIMM installed)

The following object sets up the Physical Memory Array Table:

 Name
 physicalMemoryArrayTable

 Object ID
 1.3.6.1.4.1.674.10892.1.1300.10

**Description** Defines the Physical Memory Array Table.

**Syntax** PhysicalMemoryArrayTableEntry

**Access** Not accessible

## Physical Memory Array Table Entry

Name physicalMemoryArrayTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.10.1

**Description** Defines the Physical Memory Array Table entry.

**Syntax** PhysicalMemoryArrayTableEntry

**Access** Not accessible

Index physicalMemoryArraychassisIndex, physicalMemoryArrayIndex

## Physical Memory Array Chassis Index

Name physicalMemoryArraychassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.10.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange

Access Read-only

## **Physical Memory Array Index**

Name physicalMemoryArrayIndex
Object ID 1.3.6.1.4.1.674.10892.1.1300.10.1.2

**Description** Defines the index (one-based) of the physical memory array in

this chassis.

Syntax DellObjectRange

#### **Physical Memory Array State Capabilities**

Name physicalMemoryArrayStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.10.1.3

**Description** Defines the capabilities of the physical memory array.

**Syntax** DellStateCapabilities

Access Read-only

## **Physical Memory Array State Settings**

Name physicalMemoryArrayStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.10.1.4

**Description** Defines the state of the physical memory array.

Syntax DellStateSettings

Access read-write

#### **Physical Memory Array Status**

 Name
 physicalMemoryArrayStatus

 Object ID
 1.3.6.1.4.1.674.10892.1.1300.10.1.5

**Description** Defines the status of the physical memory array.

Syntax DellStatus
Access Read-only

## **Physical Memory Array Use**

Name physicalMemoryArrayUse
Object ID 1.3.6.1.4.1.674.10892.1.1300.10.1.6

**Description** Defines the use of the physical memory array. **Syntax** DellPhysicalMemoryArrayUse (See Table 15-2.)

#### Physical Memory Array Error Checking and Correcting (ECC) Type

Name physicalMemoryArrayECCType

Object ID 1.3.6.1.4.1.674.10892.1.1300.10.1.7

**Description**Defines the ECC type used by the physical memory array. **Syntax**DellPhysicalMemoryArrayECCType (See Table 15-2.)

Access Read-only

#### **Physical Memory Array Location**

Name physicalMemoryArrayLocation

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.10.1.8

**Description** Defines the location of the physical memory array. **Syntax** DellPhysicalMemoryArrayLocation (See Table 15-1.)

Access Read-only

#### **Physical Memory Array Maximum Size**

Name physicalMemoryArrayMaximumSize

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.10.1.9

**Description** Defines the size in KB of the physical memory array.

**Syntax** DellUnsigned32BitRange

Access Read-only

## **Physical Memory Array Total Number Sockets**

Name physicalMemoryArrayTotalNumberSockets

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.10.1.10

**Description** Defines the total number of memory sockets available for the

physical memory array.

**Syntax** DellUnsigned32BitRange

#### **Physical Memory Array In Use Number Sockets**

Name physicalMemoryArrayInUseNumberSockets

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.10.1.11

**Description** Defines the total number of memory sockets in use by the

physical memory array.

**Syntax** DellUnsigned32BitRange

Access Read-only

#### Physical Memory Array ECC Error Nonrecoverable Threshold

Name physicalMemoryArrayECCErrorNonRecoverbeThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.10.1.12

**Description** Defines the value of the physical memory array Error Checking and

Correction (ECC) error nonrecoverable threshold.

**Syntax** DellSigned32BitRange

Access Read-only

### **Physical Memory Array ECC Error Critical Threshold**

Name physicalMemoryArrayECCErrorCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.10.1.13

**Description** Defines the value of the physical memory array ECC error critical

threshold.

**Syntax** DellSigned32BitRange

Access Read-only

## **Physical Memory Array ECC Error Noncritical Threshold**

Name physicalMemoryArrayECCErrorNonCriticalThreshold

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.10.1.14

**Description** Defines the value of the physical memory array ECC error

noncritical threshold.

**Syntax** DellSigned32BitRange

Access read-write

#### Physical Memory Array Redundant Memory Unit Index Reference

Name physicalMemoryArrayRedundantMemoryUnitIndex

Reference

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.10.1.15

**Description** Defines the index to the associated Redundant Memory Unit in

this chassis.

**Syntax** DellObjectRange

Access Read-only

## **Physical Memory Array Mapped Table**

The physical memory array is divided into memory array mapped addresses. The following object sets up the Physical Memory Array Mapped Table:

Name physicalMemoryArrayMappedTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.20

**Description** Defines the Physical Memory Array Mapped Table.

**Syntax** PhysicalMemoryArrayMappedTableEntry

**Access** Not accessible

## Physical Memory Array Mapped Table Entry

Name PhysicalMemoryArrayMappedTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.20.1

**Description** Defines the Physical Memory Array Mapped Table entry.

**Syntax** PhysicalMemoryArrayMappedTableEntry

**Access** Not accessible

 ${\bf Index} \qquad \qquad {\bf physical Memory Array Mapped chassis Index},$ 

physicalMemoryArrayMappedIndex

#### **Physical Memory Array Mapped Chassis Index**

Name physicalMemoryArrayMappedchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.20.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **Physical Memory Array Mapped Index**

Name physicalMemoryArrayMappedIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.20.1.2

**Description** Defines the index (one-based) of the memory array mapped

address in this chassis.

**Syntax** DellObjectRange

Access Read-only

## **Physical Memory Array Mapped State Capabilities**

Name physicalMemoryArrayMappedStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.20.1.3

**Description** Defines the capabilities of the memory array mapped address.

**Syntax** DellStateCapabilities

**Access** Read-only

## **Physical Memory Array Mapped State Settings**

Name physicalMemoryArrayMappedStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.20.1.4

**Description** Defines the state of the memory array mapped address.

**Syntax** DellStateSettings

Access Read-write

#### **Physical Memory Array Mapped Status**

Name physicalMemoryArrayMappedStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.20.1.5

**Description** Defines the status of the memory array mapped address.

Syntax DellStatus
Access Read-only

#### **Physical Memory Array Index Reference**

Name physicalMemoryArrayIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.20.1.6

**Description** Defines the index to the associated physical memory array in this

chassis.

**Syntax** DellObjectRange

Access Read-only

## **Physical Memory Array Mapped Starting Address**

Name physicalMemoryArrayMappedStartingAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.20.1.7

**Description** Defines the physical starting address in KB of the memory array

mapped address.

**Syntax** DellUnsigned64BitRange

Access Read-only

## **Physical Memory Array Mapped Ending Address**

Name physicalMemoryArrayMappedEndingAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.20.1.8

**Description** Defines the physical ending address in KB of the memory array

mapped address.

**Syntax** DellUnsigned64BitRange

#### **Physical Memory Array Mapped Partition Width**

Name physicalMemoryArrayMappedPartitionWidth

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.20.1.9

**Description** Defines the number of memory devices that form a single row in

the memory array mapped address. A zero (0) indicates that the

number is unknown.

**Syntax** DellUnsigned32BitRange

Access Read-only

## **Physical Memory Configuration Table**

This table defines how the physical memory of a system chassis is set up, for example, which redundant memory types are supported and whether redundant memory is active.

The following object sets up the Physical Memory Configuration Table:

Name physicalMemoryConfigTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.30

Description Defines the Physical Memory Configuration Table.

Syntax SEQUENCE OF Physical Memory Config Table Entry

**Access** Not accessible

## **Physical Memory Configuration Table Entry**

Name physicalMemoryConfigTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.30.1

**Description** Defines the Physical Memory Configuration Table entry.

**Syntax** PhysicalMemoryConfigTableEntry

**Access** Not accessible

Index physicalMemoryConfigChassisIndex,

physicalMemoryConfigIndex

#### **Physical Memory Configuration Chassis Index**

Name physicalMemoryConfigChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.30.1.1

**Description** Defines the index (one-based) of the chassis associated with the

physical memory configuration.

**Syntax** DellObjectRange

Access Read-only

#### **Physical Memory Configuration Index**

Name physicalMemoryConfigIndex
Object ID 1.3.6.1.4.1.674.10892.1.1300.30.1.2

**Description** Defines the index (one-based) of the physical memory

configuration.

**Syntax** DellObjectRange

**Access** Read-only

## **Physical Memory Configuration State Capabilities**

Name physicalMemoryConfigStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.30.1.3

**Description** Defines the state capabilities of the physical memory configuration.

**Syntax** DellPhysicalMemoryConfigStateCapabilities

Access Read-only

## **Physical Memory Configuration State Settings**

Name physicalMemoryConfigStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.30.1.4

**Description** Defines the state settings of the physical memory configuration.

**Syntax** DellPhysicalMemoryConfigStateSettings

Access Read-write

#### **Physical Memory Configuration Status**

Name physicalMemoryConfigStatus
ObjectID 1.3.6.1.4.1.674.10892.1.1300.30.1.5

**Description** Defines the status of the physical memory configuration.

Syntax DellStatus
Access Read-only

#### Physical Memory Configuration Redundant Capabilities

Name physicalMemoryConfigRedundantCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.30.1.6

**Description** Defines the redundant capabilities of the physical memory.

**Syntax** DellPhysicalMemoryConfigRedundantCapabilities

Access Read-only

#### **Physical Memory Configuration Redundant Settings**

Name physicalMemoryConfigRedundantSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.30.1.7

**Description** Defines the redundant settings of the physical memory.

**Syntax** DellPhysicalMemoryConfigRedundantSettings

Access Read-write

## **Physical Memory Logging Table**

This table defines the conditions for logging system memory events. The following object sets up the Physical Memory Logging Table:

Name physicalMemoryLoggingTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.40

**Description** Defines the Physical Memory Logging Table.

**Syntax** SEQUENCE OF PhysicalMemoryLoggingTableEntry

Access Not accessible

#### **Physical Memory Logging Table Entry**

Name physicalMemoryLoggingTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.40.1

**Description** Defines the Physical Memory Logging Table entry.

**Syntax** PhysicalMemoryLoggingTableEntry

**Access** Not accessible

**Index** physicalMemoryLoggingChassisIndex,

physicalMemoryLoggingIndex

#### **Physical Memory Logging Chassis Index**

Name physicalMemoryLoggingChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.40.1.1

**Description** Defines the index (one-based) of the chassis associated with the

physical memory logging.

**Syntax** DellObjectRange

Access Read-only

## **Physical Memory Logging Index**

Name physicalMemoryLoggingIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.40.1.2

**Description** Defines the index (one-based) of the physical memory logging.

**Syntax** DellObjectRange

Access Read-only

## **Physical Memory Logging Capabilities**

Name physicalMemoryLoggingCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.40.1.3

**Description** Defines the capabilities of the physical memory logging.

**Syntax** DellPhysicalMemoryLoggingCapabilities

#### **Physical Memory Logging Settings**

Name physicalMemoryLoggingSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.40.1.4

**Description** Defines the settings of the physical memory logging.

**Syntax** DellPhysicalMemoryLoggingSettings

Access Read-write

### **Physical Memory Logging Status**

Name physicalMemoryLoggingStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.40.1.5

**Description** Defines the status of the physical memory logging.

Syntax DellStatus
Access Read-only

## **Redundant Memory Unit Table**

This table reports the status of redundant memory within a particular system chassis

The following object sets up the Redundant Memory Unit Table:

 Name
 redundantMemoryUnitTable

 Object ID
 1.3.6.1.4.1.674.10892.1.1300.50

**Description** Defines the Redundant Memory Unit Table.

Syntax SEQUENCE OF RedundantMemoryUnitTableEntry

**Access** Not accessible

#### **Redundant Memory Unit Table Entry**

Name redundantMemoryUnitTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.50.1

**Description** Defines the Redundant Memory Unit Table entry.

**Syntax** RedundantMemoryUnitTableEntry

**Access** Not accessible

Index redundantMemoryUnitChassisIndex,

redundantMemoryUnitIndex

#### **Redundant Memory Unit Chassis Index**

Name redundantMemoryUnitChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.50.1.1

**Description** Defines the index (one-based) of the chassis associated with the

redundant memory unit.

**Syntax** DellObjectRange

Access Read-only

## **Redundant Memory Unit Index**

Name redundantMemoryUnitIndex
Object ID 1.3.6.1.4.1.674.10892.1.1300.50.1.2

**Description** Defines the index (one-based) of the redundant memory unit.

**Syntax** DellObjectRange

Access Read-only

## **Redundant Memory Unit State Capabilities**

Name redundantMemoryUnitStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.50.1.3

**Description** Defines the state capabilities of the redundant memory unit.

**Syntax** DellStateCapabilities

#### **Redundant Memory Unit State Settings**

Name redundantMemoryUnitStatesettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.50.1.4

**Description** Defines the state settings of the redundant memory unit.

**Syntax** DellStateSettings

Access Read-write

#### **Redundant Memory Unit Redundancy Status**

Name redundantMemoryUnitRedundancyStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.50.1.5

**Description** Defines the redundancy status of the redundant memory unit.

**Syntax** DellStatusRedundancy

Access Read-only

## **Redundant Memory Unit Name**

Name redundantMemoryUnitName
ObjectID 1.3.6.1.4.1.674.10892.1.1300.50.1.6

**Description** Defines the name of the redundant memory unit.

Syntax DellString
Access Read-only

## **Redundant Memory Unit Status**

Name redundantMemoryUnitStatus

Object ID 1.3.6.1.4.1.674.10892.1.1300.50.1.7

**Description** Defines the status of the redundant memory unit.

Syntax DellStatus
Access Read-only

## **Physical Memory Card Table**

This table defines the name of the memory card, the total number of device slots present on the memory card, and the number of memory device slots in use on the memory card.

The following objects set up the Physical Memory Card Table:

#### **Physical Memory Card Table**

 Name
 physicalMemoryCardTable

 Object ID
 1.3.6.1.4.1.674.10892.1.1300.60

**Description** Defines the Physical Memory Card Table.

**Syntax** SEQUENCE OF PhysicalMemoryCardTableEntry

**Access** Not accessible

#### **Physical Memory Card Table Entry**

Name physicalMemoryCardTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.60.1

**Description** Defines the Physical Memory Card Table Entry.

**Syntax** PhysicalMemoryCardTableEntry

Access Not accessible

Index physicalMemoryCardChassisIndex, physicalMemoryCardIndex

## **Physical Memory Card Chassis Index**

Name physicalMemoryCardChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.60.1.1

**Description** Defines the index (one-based) of the associated chassis.

Syntax DellObjectRange

Access Read-only

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#### **Physical Memory Card Index**

Name physicalMemoryCardIndex
Object ID 1.3.6.1.4.1.674.10892.1.1300.60.1.2

**Description** Defines the index (one-based) of the Physical Memory Card.

**Syntax** DellObjectRange

Access Read-only

## **Physical Memory Card State Capabilities**

Name physicalMemoryCardStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.60.1.3

**Description** Defines the state capabilities of the Physical Memory Card.

Syntax DellStateCapabilities

Access Read-only

#### **Physical Memory Card State Settings**

Name physicalMemoryCardStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.60.1.4

**Description** Defines the state settings of the Physical Memory Card.

Syntax DellStateSettings

Access Read-write

## **Physical Memory Card Status**

Name physicalMemoryCardStatus
ObjectID 1.3.6.1.4.1.674.10892.1.1300.60.1.5

**Description** Defines the status of the Physical Memory Card.

Syntax DellStatus
Access Read-only

#### **Physical Memory Card Name**

Name physicalMemoryCardName
Object ID 1.3.6.1.4.1.674.10892.1.1300.60.1.6

**Description** Defines the name of the Physical Memory Card.

Syntax DellString
Access Read-only

#### **Physical Memory Card Total Number Sockets**

Name physicalMemoryCardTotalNumberSockets

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.60.1.7

**Description** Defines the total number of memory sockets available on the

Physical Memory Card. 2,147,483,647 indicates an unknown

number of sockets.

**Syntax** DellUnsigned32BitRange

**Access** Read-only

## **Physical Memory Card In Use Number Sockets**

Name physicalMemoryCardInUseNumberSockets

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.60.1.8

**Description** Defines the number of memory sockets in use on the Physical

Memory Card. Zero indicates that the Physical Memory Card is

not installed or has a configuration error.

**Syntax** DellUnsigned32BitRange

#### **Physical Memory Card Physical Memory Array Index Reference**

Name physicalMemoryCardPhyMemArrayIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.1300.60.1.9

**Description** Defines the index (one-based) of the Physical Memory Array

Table entry for the physical memory array with the same chassis

index that this physical memory card is associated with.

**Syntax** DellObjectRange

Access Read-only

# **Memory Group Variable Values**

This section includes definitions for server administrator-specific variable values used in this section.

Table 15-1. Physical Memory Array Location

Variable Name: DellPhysicalMemoryArrayLocation

Possible Data Values	Meaning of Data Value
memoryArrayLocationIsOther(1)	The memory array location is not one of the following:
memoryArrayUseIsUnknown(2)	The memory array use is unknown.
memoryArrayUseIsSystemMemory(3)	The memory array is system memory.
memoryArrayUseIsVideoMemory(4)	The memory array is video memory.
memoryArrayUseIsFLASHMemory(5)	The memory array is FLASH memory.
memoryArrayUseIsNonVolatileRAMMemory(6)	The memory array is nonvolatile RAM.
memoryArrayUseIsCacheMemory(7)	The memory array is cache memory.

Table 15-1. Physical Memory Array Location (continued)

Variable Name: DellPhysicalMemoryArrayLocation

Possible Data Values	Meaning of Data Value
memoryArrayLocationIsPCMCIA(8)	The memory array location is a Personal Computer Memory Card International Association (PCMCIA) option card.
memoryArrayLocationIsProprietary(9)	The memory array location is a proprietary option card.
memoryArrayLocationIsNUBUS(10)	The memory array location is a NuBus bus.
memoryArrayLocationIsPC98C20(11)	The memory array location is a PC-98/C20 option card.
memoryArrayLocationIsPC98C24(12)	The memory array location is a PC-98/C24 option card.
memoryArrayLocationIsPC98E(13)	The memory array location is a PC-98/E option card.
memoryArrayLocationIsPC98LocalBus(14)	The memory array location is a PC-98/Local bus option card.
memoryArrayLocationIsPC98Card(15)	The memory array location is a PC-98/Card slot option card.

Table 15-2. Physical Memory Array ECC Type Definitions

Variable Name: DellPhysicalMemoryArrayECCType

Data Type: Integer

Possible Data Values	Meaning of Data Value
memoryArrayECCTypeIsOther(1)	There is not one of the following:
memoryArrayECCTypeIsUnknown(2)	The memory array ECC type is unknown.
memoryArrayECCTypeIsNone(3)	The memory array ECC type is none.
memoryArrayECCTypeIsParity(4)	The memory array ECC type is parity.
memoryArrayECCTypeIsSingleBitECC(5)	The memory array ECC type is Correctable Memory Event ECC.
memoryArrayECCTypeIsMultiBitECC(6)	The memory array ECC type is Uncorrectable Memory Event ECC.
memoryArrayECCTypeIsCRC(7)	The memory array ECC type is CRC.

**Table 15-3.** Physical Memory Configuration State Capabilities

 $\textbf{Variable Name:} \verb|DellPhysicalMemoryConfigStateCapabilities|$ 

Possible Data Values	Meaning of Data Value
If set to 0 (zero)	There are no state capabilities.
unknownCapabilities(1)	State capabilities are unknown.
enableCapable(2)	Object enable/disable is supported.
notReadyCapable(4)	Object "not ready" is supported.

**Table 15-4.** Physical Memory Configuration State Settings

Variable Name: DellPhysicalMemoryConfigStateSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
If set to 0 (zero)	There are no state settings.
unknown(1)	State settings are unknown.
enabled(2)	Object is disabled (offline) 0, or enabled (online) 1.
notReady(4)	Object "not ready."
redundantMemoryIsActive(8)	Redundant memory is active (in use)
enabledAndRedundantMemoryIsActive(10)	Redundant memory is enabled and in use.

Table 15-5. Physical Memory Configuration Redundant Capabilities

#### Variable Name:

DellPhysicalMemoryConfigRedundantCapabilities

Possible Data Values	Meaning of Data Value
If set to 0 (zero)	There are no redundant memory capabilities.
unknownCapabilities(1)	Redundant capabilities are unknown.
The redundant capabilities are:	
spareCapable(2)	Spare redundant memory feature is supported.
mirrorCapable(4)	Mirror redundant memory feature is supported.
spareAndMirrorCapable(6)	Spare and mirror redundant memory features are supported.
raidCapable(8)	Redundant Array of Independent disks (RAID) redundant memory feature is supported.

Table 15-6. Physical Memory Configuration Redundant Settings

#### Variable Name:

DellPhysicalMemoryConfigRedundantSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value	
If set to 0 (zero)	There are no redundant memory settings enabled.	
unknown(1)	Redundant settings are unknown.	
The following redundant settings are mutually exclusive:		
spareEnabled(2) Spare redundant memory feature is enabled.		
mirrorEnabled(4)	Mirror redundant memory feature is enabled.	
raidEnabled(8)	RAID redundant memory feature is enabled.	

Table 15-7. Physical Memory Logging Capabilities

Variable Name: DellPhysicalMemoryLoggingCapabilities

Possible Data Values	Meaning of Data Value
If set to 0 (zero)	There are no logging capabilities.
unknown Capabilities(1)	Logging capabilities are unknown.
The logging capabilities are:	
enableCapable(2)	Logging enable/disable using Simple Network Management Protocol (SNMP) is supported.

Table 15-8. Physical Memory Logging Settings

Variable Name: DellPhysicalMemoryLoggingSettings

Possible Data Values	Meaning of Data Value
If set to 0 (zero)	There are no logging settings enabled.
unknown Capabilities(1)	Logging capabilities are unknown.
The logging settings are:	
enabled(2)	Logging is disabled (0), or enabled (1).

# **BIOS Setup Control Group**

Basic Input/Output System (BIOS) Setup Control Group variables provide information about the functions that the BIOS performs in your system. This management information base (MIB) group includes variables for the boot sequence, speakers, diskettes, ports, network interface controllers (NICs), and the Wakeup on local area network (LAN) feature.

# **BIOS Group Tables**

The objects in this group define the BIOS control of devices and controller cards that are typically present in a system. The following MIB tables define the BIOS Setup Control Group:

- BIOS Setup Control Table
- SCSI Control Table
- Parallel Port Control Table
- Serial Port Control Table
- USB Control Table
- IDE Control Table
- Diskette Control Table
- Network Interface Control Table

# **BIOS Setup Control Table**

Name biosSetUpControlTable
ObjectID 1.3.6.1.4.1.674.10892.1.1400.10

**Description** Defines the set of single devices in a chassis controlled by the

BIOS.

Syntax BiosSetUpControlTableEntry

**Access** Not accessible

### **BIOS Setup Control Table Entry**

Name biosSetUpControlTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1

**Description** Defines the BIOS Control Device Table entry.

**Syntax** BiosSetUpControlTableEntry

**Access** Not accessible

Index biosSetUpControlchassisIndex

#### **BIOS Setup Control Chassis Index**

Name biosSetUpControlchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

# **BIOS Setup Control (BSUC) Pointing Device Control Capabilities**

Name bSUCpointingDeviceControlCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.2

**Description** Defines the capabilities of the pointing device.

Syntax DellStateCapabilities

Access Read-only

# **BIOS Setup Control Pointing Device Control Settings**

Name bSUCpointingDeviceControlSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.3

**Description** Defines the state of the pointing device.

Syntax DellStateSettings

Access Read-write

### **BIOS Setup Control Pointing Device Control Status**

Name bSUCpointingDeviceControlStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.4

**Description** Defines the status of the pointing device.

Syntax DellStatus
Access Read-only

#### **BIOS Setup Control Pointing Device Control Name**

Name bSUCpointingDeviceControlName

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.5

**Description** Defines the setup BIOS name of the pointing device.

Syntax DellString
Access Read-only

#### **BIOS Setup Control Numeric Lock Control Capabilities**

Name bSUCnumLockControlCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.6

**Description** Defines the capabilities of the numeric lock.

**Syntax** DellStateCapabilities

Access Read-only

# **BIOS Setup Control Numeric Lock Control Settings**

Name bSUCnumLockControlSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.7

**Description** Defines the state of the numeric lock.

Syntax DellStateSettings

### **BIOS Setup Control Numeric Lock Control Status**

 Name
 bSUCnumLockControlStatus

 Object ID
 1.3.6.1.4.1.674.10892.1.1400.10.1.8

**Description** Defines the status of the numeric lock.

Syntax DellStatus
Access Read-only

# **BIOS Setup Control Numeric Lock Control Name**

Name bSUCnumLockControlName

Object ID 1.3.6.1.4.1.674.10892.1.1400.10.1.9

**Description** Defines the setup BIOS name of the numeric lock.

Syntax DellString
Access Read-only

### **BIOS Setup Control Processor Serial Number Control Capabilities**

Name bSUCprocessorSerialNumberControlCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.10

**Description** Defines if the processor serial number can be returned.

**Syntax** DellStateCapabilities

Access Read-only

# **BIOS Setup Control Processor Serial Number Control Settings**

Name bSUCprocessorSerialNumberControlSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.11

**Description** Defines the state of the processor serial number.

Syntax DellStateSettings

### **BIOS Setup Control Processor Serial Number Control Status**

Name bSUCprocessorSerialNumberControlStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.12

**Description** Defines the status of the processor serial number.

Syntax DellStatus
Access Read-only

# **BIOS Setup Control Processor Serial Number Control Name**

Name bSUCprocessorSerialNumberControlName

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.13

**Description** Defines the setup BIOS name of the processor serial number.

Syntax DellString
Access Read-write

### **BIOS Setup Control Speaker Control Capabilities Unique**

Name bSUCspeakerControlCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.14

**Description** Defines the capabilities of the speaker control.

**Syntax** DellSpeakerControlCapabilitiesUnique (See Table 16-1.)

Access Read-only

# **BIOS Setup Control Speaker Control Settings Unique**

Name bSUCspeakerControlSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.15

Description Defines the settings available for speaker control.

Syntax Dell'Speaker Control Settings Unique (See Table 16.7)

Syntax DellSpeakerControlSettingsUnique (See Table 16-2.)

# **BIOS Setup Control Speaker Control Status**

NamebSUCspeakerControlStatusObject ID1.3.6.1.4.1.674.10892.1.1400.10.1.16DescriptionDefines the status of speaker control.

Syntax DellStatus
Access Read-only

#### **BIOS Setup Control Speaker Control Name**

Name bSUCspeakerControlName

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.17

**Description** Defines the setup BIOS name of the speaker control.

Syntax DellString
Access Read-only

### **BIOS Setup Control NIF Wakeup on LAN Control Capabilities Unique**

Name bSUCnIFwakeonLanControlCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.18

**Description** Defines the defines the capabilities of the network interface

function (NIF) Wakeup on LAN.

**Syntax** DellNIFwakeonLanControlCapabilitiesUnique (SeeTable 16-4.)

**Access** Read-only

# **BIOS Setup Control NIF Wakeup on LAN Control Settings Unique**

Name bSUCnIFwakeonLanControlSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.19

**Description** Defines the state of the NIF Wakeup on LAN.

**Syntax** DellNIFwakeonLanControlSettingsUnique (See Table 16-4.)

### **BIOS Setup Control NIF Wakeup on LAN Control Status**

Name bSUCnIFwakeonLanControlStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.20

**Description** Defines the status of the NIF Wakeup on LAN.

Syntax DellStatus
Access Read-only

#### **BIOS Setup Control NIF Wakeup on LAN Control Name**

Name bSUCnIFwakeonLanControlName

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.21

**Description** Defines the setup BIOS name of the NIF Wakeup on LAN.

Syntax DellString
Access Read-only

### **BIOS Setup Control Boot Sequence Control Capabilities Unique**

Name bSUCbootSequenceControlCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.22

**Description** Defines the capabilities of the boot sequence.

**Syntax** DellBootSequenceControlCapabilitiesUnique (SeeTable 16-5.)

Access Read-only

# **BIOS Setup Control Boot Sequence Control Settings Unique**

Name DellBootSequenceControlSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.23

**Description** Defines the state of the boot sequence.

**Syntax** DellBootSequenceControlSettingsUnique (SeeTable 16-6.)

### **BIOS Setup Control Boot Sequence Control Status**

Name bSUCbootSequenceControlStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.24

**Description** Defines the status of the boot sequence.

Syntax DellStatus
Access Read-only

#### **BIOS Setup Control Boot Sequence Control Name**

Name bSUCbootSequenceControlName

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.25

**Description** Defines the control name of the boot sequence.

Syntax DellString
Access Read-only

### **BIOS Setup Control Administrator Password Control Capabilities Unique**

Name bSUCadministratorPasswordControlCapabilities

Unique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.26

**Description** Defines the capabilities of the administrator password control.

**Syntax** DellBIOSPasswordControlCapabilitiesUnique

Access Read-only

# **BIOS Setup Control Administrator Password Control Settings Unique**

Name bSUCadministratorPasswordControlSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.27

**Description** Defines the settings for administrator password control.

**Syntax** DellBIOSPasswordControlSettingsUnique (See Table 16-9.)

Access Read-write

### **BIOS Setup Control Administrator Password Control Status**

Name bSUCadministratorPasswordControlStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.28

**Description** Defines the status for administrator password control.

Syntax DellStatus
Access Read-only

#### **BIOS Setup Control Administrator Password Verify Name**

Name bSUCadministratorPasswordVerifyName

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.29

**Description** Defines the setup BIOS name for the current administrator password.

Syntax DellString
Access Read-write

### **BIOS Setup Control Administrator Password New Password Name**

Name bSUCadministratorPasswordNewPasswordName

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.30

**Description** Defines the setup BIOS name of the new administrator

password. To set a new administrator password, you must have successfully set the current administrator password immediately

preceding this password change.

Syntax DellString
Access Read-write

# **BIOS Setup Control User Password Control Capabilities Unique**

Name bSUCuserPasswordControlCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.31

Description Defines the capabilities of user password control.

Syntax DellBIOSPasswordControlCapabilitiesUnique

### **BIOS Setup Control User Password Control Settings Unique**

Name bSUCuserPasswordControlSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.32

**Description** Defines the control settings for user password control.

**Syntax** DellBIOSPasswordControlSettingsUnique (See Table 16-9.)

Access Read-write

# **BIOS Setup Control User Password Control Status**

Name bSUCuserPasswordControlStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.33

**Description** Defines the status of the user password control.

Syntax DellStatus
Access Read-only

# **BIOS Setup Control User Password Verify Name**

Name bSUCuserPasswordVerifyName
Object ID 1.3.6.1.4.1.674.10892.1.1400.10.1.34

**Description** Defines the setup BIOS name of the current user password.

Syntax DellString
Access Read-write

# **BIOS Setup Control User Password New Password Name**

Name bSUCuserPasswordNewPasswordName

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.35

**Description** Defines the setup BIOS name of the new user password. To set a

new user password, a you must have successfully set the current user password immediately preceding this password change.

Syntax DellString
Access Read-write

### **BIOS Setup Control TPM Security Control Capabilities**

Name bSUCtpmSecurityControlCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.36

**Description** Defines the BIOS setup control capabilities of Trusted Platform

Module (TPM) security.

**Syntax** DellTPMSecurityControlCapabilities

Access Read-only

### **BIOS Setup Control TPM Security Control Setting**

Name bSUCtpmSecurityControlSetting

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.37

**Description** Defines the BIOS setup control setting of Trusted Platform

Module (TPM) security.

**Syntax** DellTPMSecurityControlSetting

Access Read-only

### **BIOS Setup Control TPM Security Control Status**

Name bSUCtpmSecurityControlStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.38

**Description** Defines the BIOS setup control status of Trusted Platform

Module (TPM) security.

Syntax DellStatus
Access Read-only

# **BIOS Setup Control TPM Security Control Name**

Name bSUCtpmSecurityControlName

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.10.1.39

**Description** Defines the BIOS setup control name of Trusted Platform

Module (TPM) security.

Syntax DellString
Access Read-only

#### **SCSI Control Table**

Name scsicontrolTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.20

**Description** Defines the Small Computer System Interface (SCSI) Control Table.

**Syntax** SCSIControlTableEntry

**Access** Not accessible

### **SCSI Control Table Entry**

Name scsicontrolTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.20.1

**Description** Defines the SCSI Control Table entry.

**Syntax** SCSIControlTableEntry

**Access** Not accessible

Index sCSIControlchassisIndex, sCSIControlIndex

#### **SCSI Control Chassis Index**

Name scsicontrolchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.20.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange

Access Read-only

#### **SCSI Control Index**

Name sCSIControlIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.20.1.2

**Description** Defines the index (one-based) of the SCSI controller in this chassis.

**Syntax** DellObjectRange

Access Read-only

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# **SCSI Control Capabilities**

Name sCSIControlCapabilities
ObjectID 1.3.6.1.4.1.674.10892.1.1400.20.1.3

**Description** Defines the capabilities of the SCSI controller.

**Syntax** DellStateCapabilities

Access Read-only

# **SCSI Control Settings**

Name scsicontrolsettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.20.1.4

**Description** Defines the state of the SCSI controller.

Syntax DellStateSettings

Access Read-only

#### **SCSI Control Status**

Name scsicontrolstatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.20.1.5

**Description** Defines the status of the SCSI controller.

Syntax DellStatus
Access Read-only

#### **SCSI Control Name**

Name scsicontrolName

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.20.1.6

**Description** Defines the setup BIOS name of the SCSI controller.

Syntax DellString
Access Read-only

#### **Parallel Port Control Table**

Name parallelPortControlTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.30

**Description** Defines the Parallel Port Control Table.

**Syntax** ParallelPortControlTableEntry

**Access** Not accessible

### **Parallel Port Control Table Entry**

Name parallelPortControlTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.30.1

**Description** Defines the Parallel Port Control Table entry.

**Syntax** ParallelPortControlTableEntry

**Access** Not accessible

Index parallelPortControlchassisIndex, parallelPortControlIndex

#### **Parallel Port Control Chassis Index**

Name parallelPortControlchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.30.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **Parallel Port Control Index**

Name parallelPortControlIndex
Object ID 1.3.6.1.4.1.674.10892.1.1400.30.1.2

**Description** Defines the index (one-based) of the parallel port in this chassis.

**Syntax** DellObjectRange

Access Read-only

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### **Parallel Port Control Capabilities Unique**

Name parallelPortControlCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.30.1.3

**Description** Defines the capabilities of the parallel port.

**Syntax** DellParallelPortControlCapabilitiesUnique (See Table 16-12.)

Access Read-only

# **Parallel Port Control Settings Unique**

Name parallelPortControlSettingsUnique

Object ID 1.3.6.1.4.1.674.10892.1.1400.30.1.4

Description Defines the state of the parallel port.

**Syntax** DellParallelPortControlSettingsUnique (See Table 16-13.)

Access Read-only

#### **Parallel Port Control Status**

Name parallelPortControlStatus

Object ID 1.3.6.1.4.1.674.10892.1.1400.30.1.5

Description Defines the status of the parallel port.

Syntax DellStatus
Access Read-only

#### **Parallel Port Control Name**

Name parallelPortControlName

Object ID 1.3.6.1.4.1.674.10892.1.1400.30.1.6

**Description** Defines the setup BIOS name of the parallel port.

Syntax DellString
Access Read-only

### **Parallel Port Control Mode Capabilities Unique**

Name parallelPortControlModeCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.30.1.7

**Description** Defines the mode capabilities of the parallel port.

**Syntax** DellParallelPortControlModeCapabilitiesUnique (See Table 16-14.)

Access Read-only

# **Parallel Port Control Mode Settings Unique**

Name parallelPortControlModeSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.30.1.8

**Description** Defines the mode settings of the parallel port.

**Syntax** DellParallelPortControlModeSettingsUnique (See Table 16-14.)

Access Read-write

# **Serial Port Control Table**

 Name
 serialPortControlTable

 Object ID
 1.3.6.1.4.1.674.10892.1.1400.40

**Description** Defines the Serial Port Control Table.

**Syntax** SerialPortControlTableEntry

**Access** Not accessible

# **Serial Port Control Table Entry**

Name serialPortControlTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.40.1

**Description** Defines the Serial Port Control Table entry.

**Syntax** SerialPortControlTableEntry

Access Not accessible

 $\textbf{Index} \hspace{1cm} \textbf{serialPortControlchassisIndex}, \textbf{serialPortControlIndex}$ 

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#### **Serial Port Control Chassis Index**

Name serialPortControlchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.40.1.1

**Description** Defines index (one-based) of this chassis.

**Syntax** DellObjectRange

Access read-only

#### **Serial Port Control Index**

Name serialPortControlIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.40.1.2

**Description** Defines the index (one-based) of the serial port in this chassis.

**Syntax** DellObjectRange

Access read-only

#### **Serial Port Control Capabilities Unique**

Name serialPortControlCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.40.1.3

**Description** Defines the capabilities of the serial port.

**Syntax** DellSerialPortControlCapabilitiesUnique (See Table 16-15.)

Access Read-only

# **Serial Port Control Settings Unique**

Name serialPortControlSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.40.1.4

**Description** Defines the settings of the serial port.

**Syntax** DellSerialPortControlSettingsUnique (See Table 16-16.)

#### **Serial Port Control Status**

Name serialPortControlStatus

Object ID 1.3.6.1.4.1.674.10892.1.1400.40.1.5

Description Defines the status of the serial port.

Syntax DellStatus
Access Read-only

#### **Serial Port Control Name**

Name serialPortControlName

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.40.1.6

**Description** Defines the setup BIOS name of the serial port.

Syntax DellString
Access Read-only

### **USB Control Table**

These objects enable you to track the attributes of your Universal Serial Bus (USB).

Name usbControlTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.50

DescriptionDefines the USB Table.SyntaxUsbControlTableEntry

**Access** Not accessible

### **USB Control Table Entry**

Name usbControlTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.50.1

**Description** Defines the USB Table entry.

**Syntax** UsbControlTableEntry

Access Not accessible

Index usbControlchassisIndex, usbControlIndex

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#### **USB Control Chassis Index**

Name usbControlchassisIndex
ObjectID 1.3.6.1.4.1.674.10892.1.1400.50.1.1

**Description** Defines index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **USB Control Index**

Name usbControlIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.50.1.2

**Description** Defines the index (one-based) of the USB in this chassis.

**Syntax** DellObjectRange

Access Read-only

# **USB Control Capabilities**

Name usbControlCapabilities

Object ID 1.3.6.1.4.1.674.10892.1.1400.50.1.3

Description Defines the capabilities of the USB.

Syntax DellStateCapabilities

Access Read-only

# **USB Control Settings**

Name usbControlSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.50.1.4

**Description** Defines the control settings for the USB.

Syntax DellStateSettings

#### **USB Control Status**

Name usbControlStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.50.1.5

**Description** Defines the status of the USB.

Syntax DellStatus
Access Read-only

#### **USB Control Name**

Name usbControlName

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.50.1.6

**Description** Defines the setup BIOS name of the USB.

Syntax DellString
Access Read-only

#### **IDE Control Table**

These objects enable you to track the attributes of Integrated Device Electronics (IDE) controller cards in your system.

Name ideControlTable

 Object ID
 1.3.6.1.4.1.674.10892.1.1400.60

 Description
 Defines the IDE Control Table.

**Syntax** IdeControlTableEntry

**Access** Not accessible

# **IDE Control Table Entry**

Name ideControlTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.60.1

**Description** Defines the IDE Control Table entry.

**Syntax** IdeControlTableEntry

Access Not accessible

 $\textbf{Index} \hspace{1cm} ide Control chassis Index, ide Control Index \\$ 

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#### **IDE Control Chassis Index**

Name ideControlchassisIndex
ObjectID 1.3.6.1.4.1.674.10892.1.1400.60.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **IDE Control Index**

Name ideControlIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.60.1.2

**Description** Defines the index (one-based) of the IDE controller in this chassis.

**Syntax** DellObjectRange

Access Read-only

# **IDE Control Capabilities Unique**

 Name
 ideControlCapabilitiesUnique

 Object ID
 1.3.6.1.4.1.674.10892.1.1400.60.1.3

**Description** Defines the capabilities of the IDE controller.

Syntax DellideControlCapabilitiesUnique (See Table 16-17.)

Access Read-only

# **IDE Control Settings Unique**

Name ideControlSettingsUnique
ObjectID 1.3.6.1.4.1.674.10892.1.1400.60.1.4

**Description** Defines the settings for the IDE controller.

**Syntax** DellideControlCapabilitiesUnique (See Table 16-17.)

#### **IDE Control Status**

Name ideControlStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.60.1.5

**Description** Defines the status for the IDE controller.

Syntax DellStatus
Access Read-only

#### **IDE Control Name**

Name ideControlName

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.60.1.6

**Description** Defines the setup BIOS name for the IDE controller.

Syntax DellStatus
Access Read-only

# **Diskette Control Table**

Name disketteControlTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.70

**Description** Defines the Diskette Control Table.

**Syntax** DisketteControlTableEntry

**Access** Not accessible

# **Diskette Control Table Entry**

Name disketteControlTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.70.1

**Description** Defines the Diskette Control Table entry.

Syntax DellStatus

Access Not accessible

Index disketteControlchassisIndex, disketteControlIndex

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#### **Diskette Control Chassis Index**

Name disketteControlchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.70.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **Diskette Control Index**

Name disketteControlIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.70.1.2

**Description** Defines the index of the diskette controllers in this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **Diskette Control Capabilities Unique**

Name disketteControlCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.70.1.3

**Description** Defines the capabilities of the diskette controller.

**Syntax** DellDisketteControlCapabilitiesUnique (See Table 16-18.)

Access Read-only

# **Diskette Control Settings Unique**

Name disketteControlSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.70.1.4

**Description** Defines the control settings for the diskette controller.

**Syntax** DellDisketteControlSettingsUnique

#### **Diskette Control Status**

Name disketteControlStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.70.1.5

**Description** Defines the status of the diskette controller.

Syntax DellStatus
Access Read-only

#### **Diskette Control Name**

Name disketteControlName

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.70.1.6

**Description** Defines the setup BIOS name of the diskette controller.

Syntax DellString
Access Read-only

#### **Network Interface Control Table**

These MIB objects enable you to track the attributes of the NIC card for your system.

Name networkInterfaceControlTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.80

**Description** Defines the Network Interface Control Table.

**Syntax** NetworkInterfaceControlTableEntry

**Access** Not accessible

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#### **Network Interface Control Table Entry**

Name networkInterfaceControlTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.80.1

**Description** Defines the Network Interface Control Table entry.

**Syntax** NetworkInterfaceControlTableEntry

**Access** Not accessible

**Index** networkInterfaceControlchassisIndex,

networkInterfaceControlIndex

#### Network Interface Control Chassis Index

Name networkInterfaceControlchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.80.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **Network Interface Control Index**

Name networkInterfaceControlIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.80.1.2

**Description** Defines the index (one-based) of the network interface

controller in this chassis.

Syntax DellObjectRange

### **Network Interface Control Capabilities Unique**

Name networkInterfaceControlCapabilitiesUnique

 Object ID
 1.3.6.1.4.1.674.10892.1.1400.80.1.3

 Description
 Defines the capabilities of the NIC.

**Syntax** DellNetworkInterfaceControlCapabilitiesUnique (See Table 16-19.)

Access Read-only

#### **Network Interface Control Settings Unique**

Name networkInterfaceControlSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.80.1.4

**Description** Defines the control settings for the NIC.

**Syntax** DellNetworkInterfaceControlSettingsUnique (See Table 16-20.)

Access Read-write

#### **Network Interface Control Status**

Name networkInterfaceControlStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.80.1.5

**Description** Defines the status of the NIC.

Syntax DellStatus
Access Read-only

#### **Network Interface Control Name**

Name networkInterfaceControlName

**Object ID** 1.3.6.1.4.1.674.10892.1.1400.80.1.6

**Description** Defines the setup BIOS name of the NIC.

Syntax DellString
Access Read-only

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# **BIOS Group Variable Values**

This section includes definitions for server administrator-specific variable values used in this section.

Table 16-1. Speaker Control Capabilities Unique

Variable Name: DellSpeakerControlCapabilitiesUnique

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(1)	Speaker control capabilities are unknown.
enableCapable(2)	Setup BIOS can enable speaker control.
lowCapable(4)	Setup BIOS can set the speaker volume to low.
mediumCapable(8)	Setup BIOS can set the speaker volume to medium.
highCapable(16)	Setup BIOS can set the speaker volume to high.
allVolumeCapable(30)	Setup BIOS can set the speaker volume to any of the three settings.

Table 16-2. Speaker Control Settings Unique

Variable Name: DellSpeakerControlSettingsUnique

Possible Data Values	Meaning of Data Value
unknown(1)	Speaker control state is unknown.
enabled(2)	Speaker control is enabled.
low(4)	Speaker control volume is low.
medium(8)	Speaker control volume is medium.
high(16)	Speaker control volume is high.

Table 16-3. Network Interface (NIF) Wakeup on LAN Capabilities Unique

 $\textbf{Variable Name:} \verb|DellNIF| wake on \verb|LanControlCapabilitiesUnique|$ 

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(1)	Setup BIOS Wakeup on LAN capabilities are unknown.
enableCapable(2)	Setup BIOS is capable of enabling the NIF Wakeup on LAN.
addInCardCapable(4)	Setup BIOS is capable of enabling Wakeup on LAN by option card.
onBoardCapable(8)	Setup BIOS is capable of enabling Wakeup on LAN by integrated NIF.
bothCapable(14)	Setup BIOS is capable of enabling Wakeup on LAN by either option card or integrated NIF.

Table 16-4. NIF Wakeup on LAN Control Settings Unique

Variable Name: DellNIFwakeonLanControlSettingsUnique

Possible Data Values	Meaning of Data Value
unknown(1)	NIF Wakeup on LAN state is unknown.
enabled(2)	NIF Wakeup on LAN is enabled.
addInCard(4)	NIF Wakeup on LAN is by option card.
onBoard(8)	NIF Wakeup on LAN is by integrated NIF.
addInCardOrOnBoard(12)	NIF Wakeup on LAN is by option card or integrated NIF.

Table 16-5. Boot Sequence Control Capabilities Unique

Variable Name: DellBootSequenceControlCapabilitiesUnique

**Possible Data Values Meaning of Data Value** bootSequenceUnknown(1) Boot sequence capabilities are unknown. bootFromDisketteFirstCapable Setup BIOS can boot from a diskette first. (2)bootFromhardDriveFirstCapable Setup BIOS can boot from an IDE hard (4)drive first Setup BIOS can boot from a diskette or bootFromDisketteORHardDrive an IDE hard drive first. FirstCapable(6) bootFromDeviceListCapable(8) Setup BIOS can boot from a device list. bootFromCDROMFirstCapable(16) Setup BIOS can boot from a CD first. Setup BIOS can boot by any of the allFirstCapable(30) preceding methods first.

Table 16-6. Boot Sequence Control Settings Unique

Variable Name: DellBootSequenceControlSettingsUnique

Data Type: Integer

Possible Data Values	Meaning of Data Value
bootSequenceUnknown(1)	Boot sequence state is unknown.
bootFromDisketteFirst(2)	Setup BIOS is set to boot by diskette first.
bootFromHardDriveFirst(4)	Setup BIOS is set to boot by IDE hard drive first.
bootFromDeviceList(8)	Setup BIOS is set to boot by a device list.
bootFromCDROMFirst(16)	Setup BIOS is set to boot by CD first.

Table 16-7. BIOS Password Control Capabilities

Variable Name: DellBIOSPasswordControlCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
<pre>passwordControlCapabilitiesUn known(1)</pre>	BIOS password capabilities are unknown.
passwordControlEnableCapable (2)	Setup BIOS is capable of enabling password changes.
passwordControlJumperDisable Capable(4)	Setup BIOS is capable of determining if password control can be jumper disabled.
passwordControlEnableANDJumper DisableCapable(6)	Setup BIOS is capable of enabling password changes and of determining if password control can be jumper disabled.

Table 16-8. BIOS Password Control Settings Unique

Variable Name: DellBIOSPasswordControlSettingsUnique

Possible Data Values	Meaning of Data Value
passwordControlSettingsUnknown(1)	Setup BIOS password state is unknown.
passwordControlEnabled(2)	Setup BIOS has password changes enabled.
passwordControlJumperDisabled(4)	Setup BIOS has determined that password control has been disabled by a jumper.

Table 16-9. BIOS Password Control Settings

Variable Name: DellBIOSPasswordControlSettingsUnique

Data Type: Integer

Possible Data Values	Meaning of Data Value
passwordControlSettingsUnknown(1)	Setup BIOS password state is unknown.
passwordControlEnabled(2)	Setup BIOS has password changes enabled.
passwordControlJumperDisabled(4)	Setup BIOS has determined that password control has been disabled by a jumper.

Table 16-10. TPM Security Control Capabilities

Variable Name: DellTPMSecurityControlCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
offCapable(1)	TPM security can be Off.
<pre>onWithPrebootMeasurementsCap able(2)</pre>	TPM security can be <b>On with Pre-boot Measurements</b> .
onWithoutPrebootMeasurements Capable(4)	TPM security can be <b>On without Pre-boot Measurements</b> .

Table 16-11. TPM Security Control Setting

Variable Name: DellTPMSecurityControlSetting

Possible Data Values	Meaning of Data Value
off(0)	TPM security is Off.
onWithPrebootMeasurements(1)	TPM security is On with Pre-boot Measurements.
<pre>onWithoutPrebootMeasurements (2)</pre>	TPM security is On without Pre-boot Measurements.

Table 16-12. Parallel Port Control Capabilities

 $\textbf{Variable Name:} \verb|DellParallelPortControlCapabilitiesUnique|\\$ 

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(1)	Setup BIOS parallel port capabilities are unknown.
enableCapable(2)	Setup BIOS can enable the parallel port.
lpt1Capable(4)	Setup BIOS can support parallel port 1.
lpt1andEnableCapable(6)	Setup BIOS has enabled parallel port 1.
lpt2Capable(8)	Setup BIOS can support parallel port 2.
lpt2andEnableCapable(10)	Setup BIOS has enabled parallel port 2.
lpt3Capable(16)	Setup BIOS can support parallel port 3.
lpt3andEnableCapable(18)	Setup BIOS has enabled parallel port 3.
allParallelPortCapable(30)	Setup BIOS can support any of the three parallel ports.

Table 16-13. Parallel Port Control Settings

Variable Name: DellParallelPortControlSettingsUnique

 $\textbf{Data Type:} \, \texttt{Integer}$ 

Possible Data Values	Meaning of Data Value
unknown(1)	Parallel port state is unknown.
enabled(2)	Setup BIOS has enabled the parallel port.
lpt1(4)	Setup BIOS supports parallel port 1.
lpt1Enabled(6)	Setup BIOS has enabled parallel port 1.
lpt2(8)	Setup BIOS supports parallel port 2.
lpt2Enabled(10)	Setup BIOS has enabled parallel port 2.
lpt3(16)	Setup BIOS supports parallel port 3.

Table 16-14. Parallel Port Control Mode Settings

Variable Name: DellParallelPortControlModeSettingsUnique

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(1)	Parallel port mode is unknown.
atModeEnabled(2)	Setup BIOS has set the parallel port to AT mode.
ps2ModeEnabled(4)	Setup BIOS has set the parallel port to Personal Systems/2 (PS/2) mode.
ecpModeEnabled(8)	Setup BIOS has set the parallel port to Extended Capabilities Port (ECP) mode.
eppModeEnabled(16)	Setup BIOS has set the parallel port to Enhanced Parallel Port (EPP) mode.

Table 16-15. Serial Port Control Capabilities

Variable Name: DellSerialPortControlCapabilitiesUnique

Data Type: Integer

Possible Data Values **Meaning of Data Value** Setup BIOS serial port capabilities are unknown(1) unknown. enableCapable(2) Setup BIOS can enable the serial port. com1Capable(4) Setup BIOS can support serial port 1. Setup BIOS can enable serial port 1. enableAndCom1Capable(6) Setup BIOS can support serial port 2. com2Capable(8) Setup BIOS is capable of enabling serial port 2. enableAndCom2Capable(10) Setup BIOS can support serial port 3. com3Capable(16) enableAndCom3Capable(18) Setup BIOS is capable of enabling serial port 3. Setup BIOS can support serial port 4. com4Capable(32) enableAndCom4Capable(34) Setup BIOS is capable of enabling serial port 4. autoConfigCapable(64) Setup BIOS is capable of autoconfiguring all serial ports.

Table 16-15. Serial Port Control Capabilities (continued)

Variable Name: DellSerialPortControlCapabilitiesUnique

Data Type: Integer

Possible Data Values	Meaning of Data Value
com10rCom3CapableAndAuto ConfigCapable(86)	Setup BIOS has enabled autoconfiguration of COM1 and COM3 serial ports.
com2OrCom4CapableAndAuto ConfigCapable(106)	Setup BIOS has enabled autoconfiguration of COM2 and COM4 serial ports.
allcomCapable(126)	Setup BIOS is capable of enabling or autoconfiguring all serial ports.

Table 16-16. Serial Port Control Settings

Variable Name: DellSerialPortControlSettingsUnique

Possible Data Values	Meaning of Data Value
unknown(1)	Serial port state is unknown.
enabled(2)	Setup BIOS has enabled the serial port.
com1(4)	Setup BIOS has selected serial port 1.
com1Enabled(6)	Setup BIOS has enabled serial port 1.
com2(8)	Setup BIOS has selected serial port 2.
com2Enabled(10)	Setup BIOS has enabled serial port 2.
com3(16)	Setup BIOS has selected serial port 3.
com3Enabled(18)	Setup BIOS has enabled serial port 3.
com4(32)	Setup BIOS has selected serial port 4.
com4Enabled(34)	Setup BIOS has enabled serial port 4.
comPortsAutoConfig(64)	Setup BIOS has selected autoconfiguration of serial ports.
enabledAndAutoConfig(66)	Setup BIOS has enabled autoconfiguration of serial ports.

Table 16-17. IDE Control Capabilities

Variable Name: DellideControlCapabilitiesUnique

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(1)	IDE control capabilities are unknown.
ideControlAutoConfigOrEnable Capable(2)	IDE controller is autoconfigurable or enable capable.

### Table 16-18. Diskette Control Settings

Variable Name: DellDisketteControlSettingsUnique

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(1)	Diskette control state is unknown.
disketteControlAutoConfigEnabled OrEnabled(2)	Diskette control is set as autoconfigurable or enabled.

### Table 16-19. Network Interface Control Capabilities

#### Variable Name:

DellNetworkInterfaceControlCapabilitiesUnique

Possible Data Values	Meaning of Data Value
unknown(1)	Unknown setup BIOS network interface capabilities.
enableCapable(2)	Setup BIOS is capable of enabling the network interface.
enableWithoutPXECapable(4)	Setup BIOS is capable of enabling the NIF without Pre-boot eXecution Environment (PXE).

Table 16-20. Network Interface Control Settings

Variable Name: DellNetworkInterfaceControlSettingsUnique

Possible Data Values	Meaning of Data Value
unknown(1)	Network interface state is unknown.
enabled(2)	Network interface is enabled.
enabledWithoutPXE(4)	Network interface is enabled without PXE.

# **Local Response Agent Group**

The Local Response Agent Group provides information about various attributes of your system's local response agent (LRA). The LRA allows systems managers to predetermine how a system running the server administrator will respond to a particular event type, such as the loss of redundancy in a specific component or the elevation of temperature in a chassis. Systems managers can configure the LRA to respond to an event type with a specific action. When the condition of the critical component worsens, the systems manager can escalate the response to make it more obvious to the operator.

For example, when a voltage probe on a monitored machine reaches a warning condition, the systems manager may want to notify the operator by causing the machine to beep. When the voltage probe reaches failure, the systems manager might want to have the system that has a failing component send a broadcast message to the management system and power off the troubled system.

## **LRA Group Tables**

The following management information base (MIB) tables define LRA variable attributes:

- LRA Global Settings Table
- LRA Action Table

### **LRA Global Settings**

The global settings table allows the systems manager to determine what LRA capabilities exist for a specific system that is running Server Administrator. Some machines may support all or some of the capabilities described in DellLocalResponseAgentCapabilitiesUnique. The LRA Global Settings Table also defines thermal shutdown capabilities and settings. In the event that a temperature probe determines the temperature is at or over the failure limit, the systems manager can set an action to be taken automatically.

### **LRA Global Settings Table**

**Description** Defines the LRA Global Settings Table.

**Syntax** SEQUENCE OF LRAGlobalSettingsTableEntry

**Access** Not accessible

#### **LRA Global Settings Table Entry**

Name lRAGlobalSettingsTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1500.10.1

**Description** Defines the LRA Global Settings Table entry.

**Syntax** LRAGlobalSettingsTableEntry

**Access** Not accessible

Index lRAGlobalchassisIndex

#### **LRA Global Chassis Index**

Name lRAGlobalchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1500.10.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange

Access Read-only

#### **LRA Global State**

Name lRAGlobalState

**Object ID** 1.3.6.1.4.1.674.10892.1.1500.10.1.2

**Description** Defines the state of the LRA global settings.

Syntax DellStateSettings

#### **LRA Global Settings Disable Time-out Value**

Name | lRAGlobalSettingsDisableTimeoutValue

**Object ID** 1.3.6.1.4.1.674.10892.1.1500.10.1.3

**Description** Defines the time-out duration countdown, in seconds, that the

LRA global settings will be disabled after a system shutdown and reboot.

**Syntax** DellUnsigned32BitRange

Access Read-only

### LRA Global Settings Capabilities Unique

Name lRAGlobalSettingsCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1500.10.1.4

**Description** Defines the set of global capabilities that all local response

agents may or may not allow to be set or reset.

**Syntax** DellLocalResponseAgentCapabilitiesUnique (See Table 17-1.)

Access Read-only

### LRA Global Thermal Shutdown Capabilities Unique

Name lRAGlobalThermalShutdownCapabilitiesUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1500.10.1.5

**Description** Defines the set of thermal shutdown capabilities that are

supported by the LRA.

**Syntax** DellLRAThermalShutdownCapabilitiesUnique

Access Read-only

### LRA Global Thermal Shutdown State Settings Unique

Name lRAGlobalThermalShutdownStateSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1500.10.1.6

**Description** Defines the set of thermal shutdown state and settings that the

local response agent supports.

**Syntax** DellLRAThermalShutdownStateSettingsUnique

#### **LRA Action Table**

The DellLocalResponseAgentCapabilitiesUnique variable in the global action table defines the capabilities that are allowed for a particular system. The LRA Action Table that follows selects which of the system's capabilities (global actions) are to be enabled.

Name lRAActionTableTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1500.20

**Description** Defines the LRA Action Table.

SYNTAX SEQUENCE OF LRAActionTableTableEntry

**Access** Not accessible

### **LRA Action Table Entry**

Name | RAActionTableTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1500.20.1

**Description** Defines the LRA Action Table entry.

**Syntax** LRAActionTableTableEntry

**Access** Not accessible

Index IRAActionTablechassisIndex,

IRAAction Table Action Number Index

### **LRA Action Table Chassis Index**

Name lRAActionTablechassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1500.20.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange

#### **LRA Action Table Action Number Index**

Name lRAActionTableActionNumberIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1500.20.1.2

**Description** Defines the LRA action number index. The action number indexes

are as follows:

160 — temperature failure action definition

168 — cooling device failure action definition

172 — voltage failure action definition

200 — temperature warning action definition

202 — voltage warning action definition

204 — cooling device warning action definition

206 — amperage failure action definition

208 — amperage warning action definition

210 — a power or cooling unit redundancy lost action definition

212 — a power or cooling unit redundancy degraded action definition

214 — power supply failed action definition

220 — chassis intrusion action definition

228 — memory device warning action definition

474 — memory device failure action definition

1006 — automatic system recovery (ASR) action definition

1353 — power supply warning action definition

1553 — log near full action definition

1554 — log full action definition

1603 — processor warning action definition

1604 — processor failure action definition

1703 — battery warning action definition

1704 — battery failure action definition

Syntax DellUnsigned16BitRange

### **LRA Action Table User Application Name**

Name | lRAActionTableUserApplicationName

**Object ID** 1.3.6.1.4.1.674.10892.1.1500.20.1.3

**Description** When the "execute application value" is set, provides the

following user-assignable LRA information:

• Name of the user application executable path

File name to execute

**Syntax** DisplayString (SIZE (0..256))

Access Read-write

#### **LRA Action Table Settings Unique**

Name lRAActionTableSettingsUnique

**Object ID** 1.3.6.1.4.1.674.10892.1.1500.20.1.4

**Description** Defines the LRA settings.

**Syntax** DellLocalResponseAgentSettingsUnique (See Table 17-3.)

**Access** Read-write

## **Local Response Agent Variable Values**

This section includes definitions for server administrator-specific variable values used in this section.

### Table 17-1. LRA Capabilities Definitions

Variable Name: DellLocalResponseAgentCapabilitiesUnique

Possible Data Values	Meaning of Data Value
speakerControlCapable(1)	The LRA can issue a speaker beep.
consoleAlertCapable(2)	The LRA can alert the console.
broadcastMessageCapable(4)	The LRA can broadcast a message.
osShutDownCapable(8)	The LRA can shut down the operating system.

Table 17-1. LRA Capabilities Definitions (continued)

Variable Name: DellLocalResponseAgentCapabilitiesUnique

Data Type: Integer

Possible Data Values	Meaning of Data Value
rebootCapable(16)	The LRA can reboot the system.
powerCycleCapable(32)	The LRA is capable of a system power cycle.
powerOFFCapable(64)	The LRA can shut the system power off.
executeApplicationCapable(256)	The LRA can execute a user mode application.
lraFullyCapable(383)	The LRA has all of the preceding capabilities.

Table 17-2. LRA Thermal Shutdown Capabilities Unique

 $\textbf{Variable Name:} \verb|DellLRAThermalShutdownCapabilitiesUnique|\\$ 

 $\textbf{Data Type:} \, \texttt{Integer}$ 

Possible Data Values	Meaning of Data Value
none(0)	The LRA has no thermal shutdown capabilities.
Unknown capabilities(1)	The LRA's thermal shutdown capabilities are unknown.
enableCapable(2)	The LRA can be disabled (offline, a binary 0 value) or enabled (online, a binary 1 value).
warningCapable(4)	The LRA can carry out chassis-determined action(s) when a warning condition is detected.
enableOnWarningCapable(6)	The LRA enables activation of chassis- determined action(s) when a warning condition is detected.
failureCapable(8)	The LRA can carry out chassis-determined action(s) when a failure condition is detected.

Table 17-2. LRA Thermal Shutdown Capabilities Unique (continued)

Variable Name: DellLRAThermalShutdownCapabilitiesUnique

Data Type: Integer

Possible Data Values	Meaning of Data Value
enableOnFailureCapable(10)	The LRA enables activation of chassis- determined action(s) when a failure condition is detected.
enableOnWarningOrFailure Capable(14)	The LRA enables activation of chassis- determined action(s) when either a failure or a warning condition is detected.

Table 17-3. Local Response Agent Settings Unique

Variable Name: DellLocalResponseAgentSettingsUnique

Possible Data Values	Meaning of Data Value
speakerControl(1)	LRA is set to issue a speaker beep.
consoleAlert(2)	LRA is set to issue a console alert.
broadcastMessage(4)	LRA is set to issue a broadcast message.
osShutDown(8)	LRA is set to issue an operating system shutdown.
reboot(16)	LRA is set to issue a system reboot.
powerCycle(32)	LRA is set to issue a system power cycle.
powerOFF(64)	LRA is set to issue a system power off.
executeApplication(256)	LRA is set to start a user mode application.
allLRASettingsUnique(383)	LRA is set to all LRA settings combinations.

# **Cost of Ownership Group**

The Cost of Ownership (COO) Group provides a full set of cost-tracking objects, including fields for the computer's manufacturer, insurer, lessor, warranty, user, trouble tickets, and many others. You can use these management information base (MIB) objects to obtain accurate and complete measurements of the cost of each computer asset in your organization.

# **Cost of Ownership Group Tables**

The Cost of Ownership Group defines objects in the following MIB tables:

- Cost of Ownership Table
- COO Service Contract Table
- COO Cost Event Log Table
- COO Warranty Table
- COO Lease Information Table
- COO Schedule Number Table
- COO Options Table
- COO Maintenance Table
- COO Repair Table
- COO Support Information Table
- COO Trouble Ticket Table

### **Cost of Ownership Table**

The following MIB object sets up the Cost of Ownership Table.

Name cooTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10

**Description** Defines the Cost of Ownership Table.

**Syntax** SEQUENCE OF CooTableEntry

**Access** Not accessible

### **Cost of Ownership Table Entry**

Name cooTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1

**Description** Defines the Cost of Ownership Table entry.

Syntax CooTableEntry
Access Not accessible
Index coochassisIndex

#### **COO Chassis Index**

Name coochassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** CooTableEntry

Access Read-only

#### COO State

Name cooState

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.2

**Description** Defines the acquisition state of the system.

**Syntax** DellStateSettings

Access Read-only

### **COO Acquisition Purchase Cost**

Name cooAquisitionPurchaseCost

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.3

**Description** Defines the purchase cost of the system.

**Syntax** DellUnsigned32BitRange

### **COO Acquisition Waybill Number**

Name cooAquisitionWayBillNumber
ObjectID 1.3.6.1.4.1.674.10892.1.1600.10.1.4

**Description** Defines the waybill number of the system.

**Syntax** DellUnsigned32BitRange

Access Read-write

### **COO Acquisition Install Date Name**

Name cooAquisitionInstallDateName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.5

**Description** Defines the installation date and time for the system.

**Syntax** DellDateName

Access Read-write

### **COO Acquisition Purchase Order**

Name cooAquisitionPurchaseOrder
Object ID 1.3.6.1.4.1.674.10892.1.1600.10.1.6

**Description** Defines the purchase order number of the system.

**Syntax** DellUnsigned32BitRange

Access Read-write

### **COO Acquisition Purchase Date Name**

Name cooAquisitionPurchaseDateName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.7

**Description** Defines the purchase date and time of the system.

Syntax DellDateName

### **COO Acquisition Signing Authority Name**

Name cooAquisitionSigningAuthorityName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.8

**Description** Defines the name of the authorized person who signs for the

system.

**Syntax** DellCostofOwnershipString

Access Read-write

### **COO Original Machine Configuration Expensed**

Name cooOriginalMachineConfigurationExpensed

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.9

**Description** Specifies whether the purchase of this system was expensed.

Syntax DellBoolean
Access Read-write

### COO Original Machine Configuration Vendor Name

Name cooOriginalMachineConfigurationVendorName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.10

**Description** Defines the vendor name of the system.

**Syntax** DellCostofOwnershipString

Access Read-only

### **COO Cost Center Information Vendor Name**

Name cooCostCenterInformationVendorName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.11

**Description** Defines the cost center name of the system.

**Syntax** DellCostofOwnershipString

#### **COO User Information User Name**

 Name
 cooUserInformationUserName

 Object ID
 1.3.6.1.4.1.674.10892.1.1600.10.1.12

**Description** Defines the name of the user for this system.

**Syntax** DellCostofOwnershipString

Access Read-write

### **COO Extended Warranty Start Date Name**

Name cooExtendedWarrantyStartDateName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.13

**Description** Defines the extended warranty start date for this system.

**Syntax** DellDateName

Access Read-write

#### **COO Extended Warranty End Date Name**

Name cooExtendedWarrantyEndDateName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.14

**Description** Defines the extended warranty end date for this system.

**Syntax** DellDateName

Access Read-write

### **COO Extended Warranty Cost**

Name cooExtendedWarrantyCost

Object ID 1.3.6.1.4.1.674.10892.1.1600.10.1.15

**Description** Defines the extended warranty cost date for this system.

**Syntax** DellUnsigned32BitRange

### **COO Extended Warranty Provider Name**

Name cooExtendedWarrantyProviderName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.16

**Description** Defines the name of the extended warranty provider for this

system.

**Syntax** DellCostofOwnershipString

**Access** Read-write

### COO Ownership Code

Name cooOwnershipCode

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.17

**Description** Defines the ownership code for this system.

**Syntax** DellCooOwnershipCodes (See Table 18-1.)

Access Read-write

### **COO Corporate Owner Name**

Name cooCorporateOwnerName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.18

**Description** Defines the name of the corporation that owns this system.

**Syntax** DellCostofOwnershipString

Access Read-write

#### **COO Hazardous Waste Code Name**

 Name
 cooHazardousWasteCodeName

 Object ID
 1.3.6.1.4.1.674.10892.1.1600.10.1.19

**Description** Defines the hazardous waste code for this system.

**Syntax** DellCostofOwnershipString

### **COO Deployment Date Length**

Name cooDeploymentDateLength
ObjectID 1.3.6.1.4.1.674.10892.1.1600.10.1.20

**Description** Defines the deployment time for this system.

**Syntax** DellUnsigned32BitRange

Access Read-write

### **COO Deployment Duration Type**

Name cooDeploymentDurationType
ObjectID 1.3.6.1.4.1.674.10892.1.1600.10.1.21

**Description** Defines the deployment time units for this system. **Syntax** DellCooHourDayDurationType (See Table 18-2.)

Access Read-write

### **COO Training Name**

Name cooTrainingName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.22

**Description** Defines the training that the user has for this system.

**Syntax** DellCostofOwnershipString

Access Read-write

### **COO Outsourcing Problem Description Name**

Name cooOutsourcingProblemDescriptionName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.23

**Description** Defines a problem encountered with the outsourcing service

provider.

Syntax DellCostofOwnershipString

### **COO Outsourcing Service Fee Name**

Name cooOutsourcingServiceFeeName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.24

**Description** Defines amount that the outsourcing vendor charges for service.

**Syntax** DellCostofOwnershipString

Access Read-write

#### **COO Outsourcing Signing Authority Name**

Name cooOutsourcingSigningAuthorityName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.25

**Description** Defines the name of the person who can sign the authorization for

service.

**Syntax** DellCostofOwnershipString

**Access** Read-write

#### **COO Outsourcing Provider Fee Name**

Name cooOutsourcingProviderFeeName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.26

**Description** Defines any additional outsourcing charge for service.

**Syntax** DellCostofOwnershipString

Access Read-write

### **COO Outsourcing Provider Service Level Name**

Name cooOutsourcingProviderServiceLevelName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.27

**Description** Defines the service level agreement for the system.

**Syntax** DellCostofOwnershipString

### **COO Insurance Company Name**

Name cooInsuranceCompanyName
ObjectID 1.3.6.1.4.1.674.10892.1.1600.10.1.28

**Description** Defines the name of the company that insures this system.

**Syntax** DellCostofOwnershipString

Access Read-write

### **COO Box Asset Tag Name**

Name cooBoxAssetTagName

 Object ID
 1.3.6.1.4.1.674.10892.1.1600.10.1.29

 Description
 Defines the name of the asset tag.

**Syntax** DellCostofOwnershipString

Access Read-write

### **COO Box System Name**

Name cooBoxSystemName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.30

**Description** Defines the name of the system.

**Syntax** DellCostofOwnershipString

**Access** Read-write

### COO Box Central Processing Unit (CPU) Serial Number Name

 Name
 cooBoxCPUSerialNumberName

 Object ID
 1.3.6.1.4.1.674.10892.1.1600.10.1.31

**Description** Defines the name of the CPU serial number for the system.

Syntax DellCostofOwnershipString

### **COO Operating System Upgrade Type Name**

Name cooOperatingSystemUpgradeTypeName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.32

**Description** Defines the name of the operating system on this system.

**Syntax** DellCostofOwnershipString

Access Read-write

### COO Operating System Upgrade Patch Level Name

Name cooOperatingSystemUpgradePatchLevelName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.33

**Description** Defines the name of the operating system patch level for this

system.

**Syntax** DellCostofOwnershipString

Access Read-write

### COO Operating System Upgrade Date

Name cooOperatingSystemUpgradeDate

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.34

**Description** Defines the upgrade file date for this operating system.

**Syntax** DellCostofOwnershipString

Access Read-write

### **COO Depreciation Duration**

Name cooDepreciationDuration

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.10.1.35

**Description** Defines the length of depreciation for this system.

**Syntax** DellUnsigned32BitRange

### **COO Depreciation Duration Type**

Name cooDepreciationDurationType
Object ID 1.3.6.1.4.1.674.10892.1.1600.10.1.36

**Description** Defines the unit of time for the depreciation of this system.

**Syntax** DellCooMonthYearDurationType

Access Read-write

### **COO Depreciation Percentage**

 Name
 cooDepreciationPercentage

 Object ID
 1.3.6.1.4.1.674.10892.1.1600.10.1.37

**Description** Defines the percentage of depreciation for this system.

**Syntax** DellUnsigned32BitRange

Access Read-write

### **COO Depreciation Method Name**

 Name
 cooDepreciationMethodName

 Object ID
 1.3.6.1.4.1.674.10892.1.1600.10.1.38

**Description** Defines the name of the depreciation method for this system.

**Syntax** DellCostofOwnershipString

**Access** Read-write

### **COO** Registration Is Registered

Name cooRegistrationIsRegistered

Object ID 1.3.6.1.4.1.674.10892.1.1600.10.1.39

**Description** Specifies whether this system is registered or not.

Syntax DellBoolean
Access Read-write

### **COO Service Contract Table**

The service contract table provides MIB objects that help you track the name, vendor, and type of service contract you have for your system.

Name cooServiceContractTable
Object ID 1.3.6.1.4.1.674.10892.1.1600.20

**Description** Defines the COO Service Contract Table.

SYNTAX SEQUENCE OF CooServiceContractTableEntry

**Access** Not accessible

### **COO Service Contract Table Entry**

Name cooServiceContractTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.20.1

**Description** Defines the COO Service Contract Table entry.

**Syntax** CooServiceContractTableEntry

**Access** Not accessible

Index cooServiceContractChassisIndex, cooServiceContractIndex

### **COO Service Contract Chassis Index**

Name cooServiceContractchassisIndex

 $\textbf{Object ID} \qquad \qquad 1.3.6.1.4.1.674.10892.1.1600.20.1.1$ 

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange

Access Read-only

#### **COO Service Contract Index**

Name cooServiceContractIndex
Object ID 1.3.6.1.4.1.674.10892.1.1600.20.1.2

**Description** Defines the index (one-based) of this service contract.

Syntax DellObjectRange

#### **COO Service Contract State**

Name cooServiceContractState
ObjectID 1.3.6.1.4.1.674.10892.1.1600.20.1.3

**Description** Defines the status of the service contract for this system.

**Syntax** DellStateSettings

Access Read-only

#### **COO Service Contract Was Renewed**

Name cooServiceContractWasRenewed

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.20.1.4

**Description** Specifies whether the service contract for this system was

renewed.

Syntax DellBoolean
Access Read-write

### **COO Service Contract Type Name**

Name cooServiceContractTypeName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.20.1.5

**Description** Defines the name of the service contract type for this system.

Syntax DellCostofOwnershipString

Access Read-write

#### **COO Service Contract Vendor Name**

Name cooServiceContractVendorName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.20.1.6

**Description** Defines the name of the service contract provider for this

system.

**Syntax** DellCostofOwnershipString

### **COO Cost Event Log Table**

The COO Cost Event Log Table provides MIB objects that allow you to track the duration and type of events that are logged for a particular system.

Name cooCostEventLogTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.30

**Description** Defines the COO Cost Event Log Table.

SYNTAX SEQUENCE OF COO CostEventLogTableEntry

**Access** Not accessible

#### COO Cost Event Log Table Entry

Name cooCostEventLogTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.30.1

**Description** Defines the COO Cost Event Log Table entry.

**Syntax** cooCostEventLogTableEntry

**Access** Not accessible

 ${\bf Index} \hspace{1cm} {\bf cooCostEventLog ChassisIndex}, {\bf cooCostEventLogIndex} \\$ 

### **COO Cost Event Log Chassis Index**

Name cooCostEventLogchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.30.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange

Access Read-only

### COO Cost Event Log Index

Name cooCostEventLogIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.30.1.2

**Description** Defines the index (one-based) of the cost event log.

Syntax DellObjectRange

### **COO Cost Event Log State**

Name cooCostEventLogState

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.30.1.3

**Description** Defines the cost event log state of this system.

**Syntax** DellStateSettings

Access Read-only

#### **COO Cost Event Log Duration**

Name cooCostEventLogDuration
ObjectID 1.3.6.1.4.1.674.10892.1.1600.30.1.4

**Description** Defines the duration of the event for this system.

**Syntax** DellUnsigned32BitRange

Access Read-write

#### **COO Cost Event Log Duration Type**

Name cooCostEventLogDurationType

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.30.1.5

**Description** Defines the duration type of the event for this system. **Syntax** DellCOOHourDayDurationType (See Table 18-2.)

Access Read-write

### **COO Cost Event Log Description Name**

Name cooCostEventLogDescriptionName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.30.1.6

**Description** Defines the name of the event description.

**Syntax** DellCostofOwnershipString

### **COO Warranty Table**

The COO Warranty Table objects enable you to track facts about the type and duration of the warranty for a particular system.

Name cooWarrantyTable

 $\textbf{Object ID} \qquad \qquad 1.3.6.1.4.1.674.10892.1.1600.40$ 

**Description** Defines the COO Warranty Table.

SYNTAX SEQUENCE OF CooWarrantyTableEntry

**Access** Not accessible

### **COO Warranty Table Entry**

Name cooWarrantyTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.40.1

**Description** Defines the COO Warranty Table entry.

**Syntax** CooWarrantyTableEntry

**Access** Not accessible

Index cooWarrantychassisIndex, cooWarrantyIndex

### **COO Warranty Chassis Index**

Name cooWarrantychassisIndex

 $\textbf{Object ID} \qquad \qquad 1.3.6.1.4.1.674.10892.1.1600.40.1.1$ 

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange

Access Read-write

### **COO Warranty Index**

Name cooWarrantyIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.40.1.2

**Description** Defines the index of the warranty for this system.

Syntax DellObjectRange

### **COO Warranty State**

Name cooWarrantyState

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.40.1.3

**Description** Defines the state of the warranty for this system.

**Syntax** DellStateSettings

Access Read-only

### **COO Warranty Duration**

Name cooWarrantyDuration

 Object ID
 1.3.6.1.4.1.674.10892.1.1600.40.1.4

 Description
 Defines the duration of the warranty.

**Syntax** DellUnsigned32BitRange

Access Read-write

### **COO Warranty Duration Type**

Name cooWarrantyDurationType
Object ID 1.3.6.1.4.1.674.10892.1.1600.40.1.5

**Description** Defines the warranty duration type for the system.

**Syntax** DellCOODayMonthDurationType

Access Read-write

### **COO Warranty End Date Name**

Name cooWarrantyEndDateName
ObjectID 1.3.6.1.4.1.674.10892.1.1600.40.1.6

**Description** Defines the warranty end date for this system.

Syntax DellDateName

### **COO Warranty Cost**

Name cooWarrantyCost

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.40.1.7

**Description** Defines the cost of the warranty for this system.

**Syntax** DellUnsigned32BitRange

Access Read-write

### **COO Lease Information Table**

The COO lease information MIB objects enable you to track information about your lessor, lease duration, and lease type for each system.

Name cooleaseInformationTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.50

**Description** Defines the COO Lease Information Table.

**Syntax** SEQUENCE OF CooLeaseInformationTableEntry

**Access** Not accessible

### **COO Lease Information Table Entry**

Name cooLeaseInformationTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.50.1

**Description** Defines the COO Lease Information Table entry.

**Syntax** CooLeaseInformationTableEntry

**Access** Not accessible

**Index** cooLeaseInformationchassisIndex, cooLeaseInformationIndex

### **COO Lease Information Chassis Index**

Name cooLeaseInformationchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.50.1.1

**Description** Defines the index (one-based) of this chassis.

Syntax DellObjectRange

#### **COO Lease Information Index**

Name cooleaseInformationIndex
ObjectID 1.3.6.1.4.1.674.10892.1.1600.50.1.2

**Description** Defines the index of the lease information for this system.

**Syntax** DellObjectRange

Access Read-only

#### **COO Lease Information State**

 Name
 cooleaseInformationState

 Object ID
 1.3.6.1.4.1.674.10892.1.1600.50.1.3

**Description** Defines the lease information state for this system.

Syntax DellStateSettings

Access Read-write

#### **COO Lease Information Multiple Schedules**

Name cooLeaseInformationMultipleSchedules

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.50.1.4

**Description** Defines whether there are multiple schedules for this lease.

Syntax DellBoolean
Access Read-only

### **COO Lease Information Buyout Amount**

Name cooLeaseInformationBuyOutAmount

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.50.1.5

**Description** Defines the balance purchase price for this system.

**Syntax** DellUnsigned32BitRange

#### **COO Lease Information Lease Rate Factor**

Name cooleaseInformationLeaseRateFactor

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.50.1.6

**Description** Defines the rate factor for the lease on this system.

**Syntax** DellUnsigned32BitRange

Access Read-write

#### **COO Lease Information End Date Name**

Name cooleaseInformationEndDateName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.50.1.7

**Description** Defines the end date for the lease on this system.

**Syntax** DellDateName

Access Read-write

#### **COO Lease Information Fair Market Value**

Name cooleaseInformationFairMarketValue

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.50.1.8

**Description** Defines the fair market value of this system.

**Syntax** DellUnsigned32BitRange

Access Read-write

#### **COO Lease Information Lessor Name**

Name cooleaseInformationLessorName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.50.1.9

**Description** Defines the name of the lessor of this system.

**Syntax** DellCostofOwnershipString

#### **COO Schedule Number Table**

Name cooScheduleNumberTable
Object ID 1.3.6.1.4.1.674.10892.1.1600.60

**Description** Defines the COO Schedule Number Information Table.

SYNTAX SEQUENCE OF CooScheduleNumberTableEntry

**Access** Not accessible

#### **COO Schedule Number Table Entry**

Name cooScheduleNumberTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.60.1

**Description** Defines the COO Schedule Number Information Table entry.

**Syntax** CooScheduleNumberTableEntry

**Access** Not accessible

Index cooScheduleNumberchassisIndex. cooScheduleNumberIndex

### **COO Schedule Number Chassis Index**

Name cooScheduleNumberchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.60.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **COO Schedule Number Index**

Name cooScheduleNumberIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.60.1.2

**Description** Defines the index of the schedule number information.

**Syntax** DellObjectRange

#### **COO Schedule Number State**

Name cooScheduleNumberState
Object ID 1.3.6.1.4.1.674.10892.1.1600.60.1.3

**Description** Defines the schedule number information state of this system.

**Syntax** DellStateSettings

Access Read-only

#### **COO Schedule Number Lease Information Index Reference**

Name cooScheduleNumberLeaseInformationIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.60.1.4

**Description** Defines the lease information index number to reference the

schedule number.

**Syntax** DellUnsigned32BitRange

Access Read-write

### COO Schedule Number Description Name

Name cooScheduleNumberDescriptionName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.60.1.5

**Description** Describes the schedule number information.

**Syntax** DellCostofOwnershipString

Access Read-write

### **COO Options Table**

Name cooOptionsTable

 Object ID
 1.3.6.1.4.1.674.10892.1.1600.70

 Description
 Defines the COO Options Table.

**Syntax** SEQUENCE OF CooOptionsTableEntry

**Access** Not accessible

### **COO Options Table Entry**

Name cooOptionsTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.70.1

**Description** Defines the COO Options Table entry.

**Syntax** CooOptionsTableEntry

**Access** Not accessible

Index cooOptionschassisIndex, cooOptionsIndex

### **COO Options Chassis Index**

Name cooOptionschassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.70.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

### **COO Options Index**

Name cooOptionsIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.70.1.2

**Description** Defines the index (one-based) of the option information for this

system.

Syntax DellObjectRange

Access Read-only

### **COO Options State**

Name cooOptionsState

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.70.1.3

**Description** Defines the option information state for this system.

**Syntax** DellStateSettings

#### **COO Options Lease Information Index Reference**

Name cooOptionsLeaseInformationIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.70.1.4

**Description** Defines the lease information index of the option information for

this system.

**Syntax** DellUnsigned32BitRange

**Access** Read-write

### **COO Options Description Name**

Name cooOptionsDescriptionName
Object ID 1.3.6.1.4.1.674.10892.1.1600.70.1.5

**Description** Defines the option information description name.

**Syntax** DellCostofOwnershipString

Access Read-write

#### **COO Maintenance Table**

Name cooMaintenanceTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.80

**Description** Defines the COO Maintenance Table.

**Syntax** SEQUENCE OF CooMaintenanceTableEntry

**Access** Not accessible

### **COO Maintenance Table Entry**

 Name
 cooMaintenanceTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.1600.80.1

**Description** Defines the COO Maintenance Table entry.

**Syntax** CooMaintenanceTableEntry

**Access** Not accessible

**Index** cooMaintenancechassisIndex, cooMaintenanceIndex

#### **COO Maintenance Chassis Index**

Name cooMaintenancechassisIndex
ObjectID 1.3.6.1.4.1.674.10892.1.1600.80.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **COO Maintenance Index**

Name cooMaintenanceIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.80.1.2

**Description** Defines the index of this system's maintenance information.

**Syntax** DellObjectRange

Access Read-only

#### **COO Maintenance State**

Name cooMaintenanceState

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.80.1.3

**Description** Defines the state of this system's maintenance information.

Syntax DellStateSettings

Access Read-only

#### **COO Maintenance Start Date Name**

Name cooMaintenanceStartDateName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.80.1.4

**Description** Defines the start date for maintenance on this system.

**Syntax** DellDateName

#### **COO Maintenance End Date Name**

 Name
 cooMaintenanceEndDateName

 Object ID
 1.3.6.1.4.1.674.10892.1.1600.80.1.5

**Description** Defines the end date for maintenance on this system.

Syntax DellDateName
Access Read-write

#### **COO Maintenance Provider Name**

Name cooMaintenanceProviderName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.80.1.6

**Description** Defines the maintenance provider's name.

Syntax DellStateSettings

Access Read-write

#### **COO Maintenance Restrictions Name**

Name cooMaintenanceRestrictionsName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.80.1.7

**Description** Defines the maintenance agreement restrictions.

**Syntax** DellCostofOwnershipString

Access Read-write

# **COO Repair Table**

Name cooRepairTable

 Object ID
 1.3.6.1.4.1.674.10892.1.1600.90

 Description
 Defines the COO Repair Table.

SYNTAX SEQUENCE OF CooRepairTableEntry

**Access** Not accessible

#### **COO Repair Table Entry**

Name cooRepairTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.90.1

**Description** Defines the COO Repair Table entry.

**Syntax** CooRepairTableEntry

**Access** Not accessible

Index cooRepairchassisIndex, cooRepairIndex

#### **COO Repair Chassis Index**

Name cooRepairchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.90.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

# COO Repair Index

Name cooRepairIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.90.1.2

**Description** Defines the index (one-based) of the repair information for this

system.

**Syntax** DellObjectRange

Access Read-only

# **COO Repair State**

Name cooRepairState

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.90.1.3

**Description** Defines the state of the repair information for this system.

**Syntax** DellStateSettings

Access Read-only

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#### **COO Repair Counter**

Name cooRepairCounter

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.90.1.4

**Description** Defines the number of repairs that this system has undergone.

**Syntax** DellCostofOwnershipString

Access Read-write

## **COO Repair Vendor Name**

Name cooRepairVendorName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.90.1.5

**Description** Defines the name of the vendor that repairs this system.

Syntax DellStateSettings

Access Read-only

# **COO Support Information Table**

Name cooSupportInformationTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.100

**Description** Defines the COO Support Information Table.

**Syntax** SEQUENCE OF cooSupportInformationTableEntry

**Access** Not accessible

# **COO Support Information Table Entry**

Name cooSupportInformationTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.100.1

**Description** Defines the COO Support Information Table entry.

**Syntax** cooSupportInformationTableEntry

**Access** Not accessible

Index cooSupportInformationchassisIndex

cooSupportInformationIndex

## **COO Support Information Chassis Index**

Name cooSupportInformationchassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.100.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

## **COO Support Information Index**

Name cooSupportInformationIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.100.1.2

**Description** Defines the index (one-based) for this system's support

information.

**Syntax** DellObjectRange

Access Read-only

# **COO Support Information State**

Name cooSupportInformationState

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.100.1.3

**Description** Defines the support information state for this system.

Syntax DellStateSettings

Access Read-only

# **COO Support Information Is Outsourced**

Name cooSupportInformationIsOutsourced

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.100.1.4

**Description** Specifies whether the support for this system is outsourced or not.

Syntax DellBoolean
Access Read-write

## **COO Support Information Type**

Name cooSupportInformationType
Object ID 1.3.6.1.4.1.674.10892.1.1600.100.1.5

**Description** Defines the type of component, system, or network problem that

occurred.

**Syntax** DellUnsigned32BitRange

Access Read-write

## **COO Support Information Help Desk Name**

Name cooSupportInformationHelpDeskName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.100.1.6

**Description** Defines the help desk information provided.

**Syntax** DellCostofOwnershipString

Access Read-write

## **COO Support Information Fix Type Name**

Name cooSupportInformationFixTypeName

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.100.1.7

**Description** Defines the method used to fix the problem.

**Syntax** DellCostofOwnershipString

Access Read-write

#### **COO Trouble Ticket Table**

The MIB objects in the Trouble Ticket Table enable you to track details of any trouble tickets that you open for your system.

Name cooTroubleTicketTable

Object ID 1.3.6.1.4.1.674.10892.1.1600.110

**Description** Defines the COO Trouble Ticket Table.

Syntax SEQUENCE OF cooTroubleTicketTableEntry

Access Not accessible

#### **COO Trouble Ticket Table Entry**

 Name
 cooTroubleTicketTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.1600.110.1

**Description** Defines the COO Trouble Ticket Table entry.

**Syntax** cooTroubleTicketTableEntry

**Access** Not accessible

Index cooTroubleTicketchassisIndex, cooTroubleTicketIndex

#### **COO Trouble Ticket Chassis Index**

 Name
 cooTroubleTicketchassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.1600.110.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **COO Trouble Ticket Index**

Name cooTroubleTicketIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.110.1.2

**Description** Defines the index (one-based) of the system's trouble ticket

information.

**Syntax** DellObjectRange

Access Read-only

#### **COO Trouble Ticket State**

Name cooTroubleTicketState

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.110.1.3

**Description** Defines the trouble ticket information state for this system.

**Syntax** DellStateSettings

#### **COO Trouble Ticket Support Information Index Reference**

Name cooTroubleTicketSupportInformationIndexReference

**Object ID** 1.3.6.1.4.1.674.10892.1.1600.110.1.4

**Description** Defines the support information index that references the trouble ticket.

**Syntax** DellUnsigned32BitRange

Access Read-write

#### **COO Trouble Ticket Number Name**

Name cooTroubleTicketNumberName
Object ID 1.3.6.1.4.1.674.10892.1.1600.110.1.5

**Description** Defines the trouble ticket number for this system.

**Syntax** DellCostofOwnershipString

Access Read-write

# Cost of Ownership Variable Values

This section includes definitions for server administrator-specific variable values used in this section.

Table 18-1. COO Ownership Codes

Variable Name: DellCooOwnershipCodes

Data Type: Integer

Possible Data Values	Meaning of Data Value
other(1)	The ownership code is not one of following:
unknown(2)	The ownership code is unknown.
owned(3)	The ownership code is owned.
leased(4)	The ownership code is leased.
rented(5)	The ownership code is rented.
offOfLease(6)	The ownership code is off of lease.
transfer(7)	The ownership code is transfer.

Table 18-2. COO Hour Day Duration Type

Variable Name: DellCooHourDayDurationType

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(1)	Duration time type is unknown.
hours(2)	Duration time type is in hours.
days(3)	Duration time type is in days.

## Table 18-3. COO Day Month Duration Type

Variable Name: DellCooDayMonthDurationType

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(1)	Duration time type is unknown.
days(3)	Duration time type is in days.
months(4)	Duration time type is in months.

# Table 18-4. COO Month Year Duration Type

Variable Name: DellCooMonthYearDurationType

Data Type: Integer

Possible Data Values	Meaning of Data Value
unknown(1)	Duration time type is unknown.
months(4)	Duration time type is in months.
years(5)	Duration time type is in years.

# **Remote Access Group**

The Remote Access Group provides information about the remote access hardware that may be present in your system. In addition to providing general information about the capabilities and settings of the remote access hardware, this group provides information about administrative users, SNMP trap destinations, modem configuration for dial-up networking, dial-in configuration, and dial-out destinations.

# DRAC 4 and DRAC 5

On systems with Dell™ Remote Access Controller (DRAC) 4 or DRAC 5, the Remote Access Group includes only the Remote Access Table.

#### **Remote Access Table**

The following MIB object sets up the Remote Access Table.

Name remoteAccessTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10

**Description** Defines the Remote Access Table.

SYNTAX SEQUENCE OF RemoteAccessTableEntry

**Access** Not accessible

# Remote Access Table Entry

Name remoteAccessTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1

**Description** Defines the Remote Access Table entry.

Syntax RemoteAccessTableEntry

Access Not accessible

Index remoteAccessChassisIndex, remoteAccessAdapterIndex

#### **Remote Access Chassis Index**

Name remoteAccessChassisIndex
ObjectID 1.3.6.1.4.1.674.10892.1.1700.10.1.1

**Description** Defines the index (one-based) of the chassis containing the

remote access hardware.

**Syntax** DellObjectRange

Access Read-only

## **Remote Access Adapter Index**

Name remoteAccessAdapterIndex
ObjectID 1.3.6.1.4.1.674.10892.1.1700.10.1.2

**Description** Defines the index (one-based) of the remote access hardware.

**Syntax** DellObjectRange

Access Read-only

## **Remote Access Type**

Name remoteAccessType

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.3

**Description** Defines the type of remote access hardware.

**Syntax** DellRemoteAccessType (See Table 19-1.)

Access Read-only

# **Remote Access State Capabilities**

Name remoteAccessStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.4

**Description** Defines the state capabilities of the remote access hardware.

Syntax DellStateCapabilities

## **Remote Access State Settings**

Name remoteAccessStateSettings
ObjectID 1.3.6.1.4.1.674.10892.1.1700.10.1.5

**Description** Defines the state setting of the remote access hardware.

**Syntax** DellStateSettings

Access Read-write

#### **Remote Access Status**

Name remoteAccessStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.6

**Description** Defines the status of the remote access hardware.

Syntax DellStatus
Access Read-only

#### **Remote Access Product Info Name**

 Name
 remoteAccessProductInfoName

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.10.1.7

**Description** Defines the name of the product providing the remote access

functionality.

**Syntax** DellDisplayString (SIZE (0..63))

Access Read-only

# **Remote Access Description Info Name**

Name remoteAccessDescriptionInfoName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.8

**Description** Defines the description of the product providing the remote

access functionality.

**Syntax** DellDisplayString (SIZE (0..255))

#### **Remote Access Version Info Name**

 Name
 remoteAccessVersionInfoName

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.10.1.9

**Description** Defines the version of the product providing the remote access

functionality.

Syntax DellDisplayString (SIZE (0..63))

**Access** Read-only

## Remote Access Local Area Network (LAN) Capabilities

 Name
 remoteAccessLANCapabilities

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.10.1.14

**Description** Defines the LAN capabilities of the remote access hardware.

**Syntax** DellRemoteAccessLANCapabilities (See Table 19-6.)

Access Read-only

## **Remote Access LAN Settings**

Name remoteAccessLANSettings
ObjectID 1.3.6.1.4.1.674.10892.1.1700.10.1.15

**Description** Defines the LAN settings of the remote access hardware.

**Syntax** DellRemoteAccessLANSettings (See Table 19-7.)

Access Read-write

# Remote Access Network Interface Controller (NIC) Static IP Address

Name remoteAccessNICStaticIPAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.25

**Description** Defines the static IP address to be used by the integrated NIC

provided by the remote access hardware.

Syntax IpAddress
Access Read-write

#### **Remote Access NIC Static Netmask Address**

Name remoteAccessNICStaticNetmaskAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.26

**Description** Defines the netmask for the static IP address to be used by the

integrated NIC provided by the remote access hardware.

Syntax IpAddress
Access Read-write

#### **Remote Access NIC Static Gateway Address**

Name remoteAccessNICStaticGatewayAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.27

**Description** Defines the IP address for the gateway associated with the static

IP address to be used by the integrated NIC provided by the

remote access hardware.

Syntax IpAddress
Access Read-write

# Remote Access Personal Computer Memory Card International Association (PCMCIA) Info Name

 Name
 remoteAccessPCMCIAInfoName

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.10.1.28

**Description** Defines the information for the PCMCIA device used by the

remote access hardware.

**Syntax** DisplayString (SIZE (0..63))

#### **Remote Access Miscellaneous Information Name**

 Name
 remoteAccessMiscInfoName

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.10.1.29

**Description** Defines the miscellaneous information for the remote access hardware.

**Syntax** DisplayString (SIZE (0..63))

Access Read-write

#### Remote Access NIC Current IP Address

Name remoteAccessNICCurrentIPAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.30

**Description** Defines the IP address currently being used by the integrated

NIC provided by the remote access hardware.

Syntax IpAddress
Access Read-only

#### Remote Access NIC Current Netmask Address

Name remoteAccessNICCurrentNetmaskAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.31

**Description** Defines the netmask currently being used by the integrated NIC

provided by the remote access hardware.

Syntax IpAddress
Access Read-only

## **Remote Access NIC Current Gateway Address**

Name remoteAccessNICCurrentGatewayAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.32

**Description** Defines the IP address for the gateway currently being used by

the integrated NIC provided by the remote access hardware.

Syntax IpAddress
Access Read-only

# Remote Access NIC Current Information From Dynamic Host Configuration Protocol (DHCP)

Name remoteAccessNICCurrentInfoFromDHCP

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.33

**Description** Defines whether DHCP was used to obtain the NIC

information currently being used by the integrated NIC

provided by the remote access hardware.

Syntax DellBoolean

Access Read-only

#### Remote Access Remote Connect URL

Name remoteAccessRemoteConnectURL

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.34

**Description** Defines the URL for launching the Remote Access Remote

Connect Interface.

**Syntax** DisplayString (SIZE (0..63))

Access Mandatory

# DRAC III

On systems with DRAC III, the Remote Access Group includes the following MIB tables:

- Remote Access Table
- Remote User Administration Table
- Remote SNMP Trap Table
- Remote Dial-Up Table
- Remote User Dial-In Configuration Table
- Remote Dial-Out Table

## **Remote Access Table**

The following MIB object sets up the Remote Access Table.

Name remoteAccessTable

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.10

 Description
 Defines the Remote Access Table.

**Syntax** SEQUENCE OF RemoteAccessTableEntry

Access Not accessible

## **Remote Access Table Entry**

 Name
 remoteAccessTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.10.1

**Description** Defines the Remote Access Table entry.

**Syntax** RemoteAccessTableEntry

**Access** Not accessible

Index remoteAccessChassisIndex, remoteAccessAdapterIndex

#### **Remote Access Chassis Index**

 Name
 remoteAccessChassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.10.1.1

**Description** Defines the index (one-based) of the chassis containing the

remote access hardware.

**Syntax** DellObjectRange

Access Read-only

# **Remote Access Adapter Index**

Name remoteAccessAdapterIndex
ObjectID 1.3.6.1.4.1.674.10892.1.1700.10.1.2

**Description** Defines the index (one-based) of the remote access hardware.

Syntax DellObjectRange

#### **Remote Access Type**

Name remoteAccessType

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.3

Description Defines the type of remote access hardware.

Syntax DellRemoteAccessType (See Table 19-1.)

Delinemote recessiye (see Table 17

Access Read-only

## **Remote Access State Capabilities**

Name remoteAccessStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.4

**Description** Defines the state capabilities of the remote access hardware.

Syntax DellStateCapabilities

Access Read-only

## **Remote Access State Settings**

Name remoteAccessStateSettings
ObjectID 1.3.6.1.4.1.674.10892.1.1700.10.1.5

**Description** Defines the state setting of the remote access hardware.

**Syntax** DellStateSettings

Access Read-write

#### **Remote Access Status**

Name remoteAccessStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.6

**Description** Defines the status of the remote access hardware.

Syntax DellStatus
Access Read-only

#### **Remote Access Product Info Name**

Name remoteAccessProductInfoName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.7

**Description** Defines the name of the product providing the remote access

functionality.

**Syntax** DellDisplayString (SIZE (0..63))

Access Read-only

## **Remote Access Description Info Name**

Name remoteAccessDescriptionInfoName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.8

**Description** Defines the description of the product providing the remote access

functionality.

**Syntax** DellDisplayString (SIZE (0..255))

Access Read-only

#### **Remote Access Version Info Name**

Name remoteAccessVersionInfoName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.9

**Description** Defines the version of the product providing the remote access

functionality.

**Syntax** DellDisplayString (SIZE (0..63))

**Access** Read-only

# **Remote Access Control Capabilities**

Name remoteAccessControlCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.10

**Description** Defines the control capabilities of the remote access hardware.

**Syntax** DellRemoteAccessControlCapabilities (See Table 19-2.)

#### **Remote Access Control Settings**

Name remoteAccessControlSettings
ObjectID 1.3.6.1.4.1.674.10892.1.1700.10.1.11

**Description** Defines the control settings of the remote access hardware.

**Syntax** DellRemoteAccessControlSettings (See Table 19-3.)

Access Read-write

#### Remote Access Monitor Capabilities

Name remoteAccessMonitorCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.12

**Description** Defines the monitor capabilities of the remote access hardware.

**Syntax** DellRemoteAccessMonitorCapabilities (See Table 19-4.)

Access Read-only

#### **Remote Access Monitor Settings**

 Name
 remoteAccessMonitorSettings

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.10.1.13

**Description** Defines the monitor settings of the remote access hardware.

Syntax DellRemoteAccessMonitorSettings (See Table 19-5)

Access Read-write

# Remote Access Local Area Network (LAN) Capabilities

 Name
 remoteAccessLANCapabilities

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.10.1.14

**Description** Defines the LAN capabilities of the remote access hardware.

**Syntax** DellRemoteAccessLANCapabilities (See Table 19-6.)

#### **Remote Access LAN Settings**

Name remoteAccessLANSettings
ObjectID 1.3.6.1.4.1.674.10892.1.1700.10.1.15

**Description** Defines the LAN settings of the remote access hardware.

**Syntax** DellRemoteAccessLANSettings (See Table 19-7.)

Access Read-write

## **Remote Access Host Capabilities**

Name remoteAccessHostCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.16

**Description** Defines the host capabilities of the remote access hardware.

**Syntax** DellRemoteAccessHostCapabilities (See Table 19-8.)

Access Read-only

#### Remote Access Host Settings

Name remoteAccessHostSettings
ObjectID 1.3.6.1.4.1.674.10892.1.1700.10.1.17

**Description** Defines the host settings of the remote access hardware.

**Syntax** DellRemoteAccessHostSettings (See Table 19-9.)

Access Read-write

# Remote Access Out-of-Band Simple Network Management Protocol (SNMP) Capabilities

Name remoteAccessOutOfBandSNMPCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.18

**Description** Defines the out-of-band SNMP capabilities of the remote access

hardware.

Syntax DellRemoteAccessOutOfBandSNMPCapabilities (See

Table 19-10.)

## **Remote Access Out-of-Band SNMP Settings**

Name remoteAccessOutOfBandSNMPSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.19

**Description** Defines the out-of-band SNMP settings of the remote access hardware.

**Syntax** DellRemoteAccessOutOfBandSNMPSettings (See Table 19-11.)

**Access** Read-write

# Remote Access Simple Mail Transfer Protocol (SMTP) Server Internet Protocol (IP) Address

Name remoteAccessSMTPServerIPAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.20

**Description** Defines the IP address for the SMTP server used by the remote

access hardware.

Syntax IpAddress
Access Read-write

## Remote Access Floppy Trivial File Transfer Protocol (TFTP) IP Address

Name remoteAccessFloppyTFTPIPAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.21

**Description** Defines the IP address of the TFTP server providing the

operating system image used by the remote access hardware.

Syntax IpAddress
Access Read-write

# **Remote Access Floppy TFTP Path Name**

Name remoteAccessFloppyTFTPPathName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.22

**Description** Defines the file name of the operating system image obtained

from the TFTP server used by the remote access hardware.

**Syntax** DisplayString (SIZE (0..255))

## **Remote Access Firmware Update IP Address**

Name remoteAccessFirmwareUpdateIPAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.23

**Description** Defines the IP address of the update server providing the

firmware image used by the remote access hardware.

Syntax IpAddress
Access Read-write

### **Remote Access Firmware Update Path Name**

Name remoteAccessFirmwareUpdatePathName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.24

**Description** Defines the file name of the firmware image obtained from the

update server used by the remote access hardware.

**Syntax** DisplayString (SIZE (0..255))

Access Read-write

#### Remote Access Network Interface Controller (NIC) Static IP Address

Name remoteAccessNICStaticIPAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.25

**Description** Defines the static IP address to be used by the integrated NIC

provided by the remote access hardware.

Syntax IpAddress
Access Read-write

#### Remote Access NIC Static Netmask Address

Name remoteAccessNICStaticNetmaskAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.26

**Description** Defines the netmask for the static IP address to be used by the

integrated NIC provided by the remote access hardware.

Syntax IpAddress
Access Read-write

#### **Remote Access NIC Static Gateway Address**

Name remoteAccessNICStaticGatewayAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.27

**Description** Defines the IP address for the gateway associated with the static

IP address to be used by the integrated NIC provided by the

remote access hardware.

Syntax IpAddress
Access Read-write

# Remote Access Personal Computer Memory Card International Association (PCMCIA) Info Name

Name remoteAccessPCMCIAInfoName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.28

**Description** Defines the information for the PCMCIA device used by the

remote access hardware.

**Syntax** DisplayString (SIZE (0..63))

Access Read-only

#### Remote Access Miscellaneous Information Name

Name remoteAccessMiscInfoName
ObjectID 1.3.6.1.4.1.674.10892.1.1700.10.1.29

**Description** Defines the miscellaneous information for the remote

access hardware.

**Syntax** DisplayString (SIZE (0..63))

#### **Remote Access NIC Current IP Address**

Name remoteAccessNICCurrentIPAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.30

**Description** Defines the IP address currently being used by the integrated

NIC provided by the remote access hardware.

Syntax IpAddress
Access Read-only

#### **Remote Access NIC Current Netmask Address**

Name remoteAccessNICCurrentNetmaskAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.31

**Description** Defines the netmask currently being used by the integrated NIC

provided by the remote access hardware.

Syntax IpAddress
Access Read-only

## **Remote Access NIC Current Gateway Address**

Name remoteAccessNICCurrentGatewayAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.32

**Description** Defines the IP address for the gateway currently being used by

the integrated NIC provided by the remote access hardware.

Syntax IpAddress
Access Read-only

# Remote Access NIC Current Information From Dynamic Host Configuration Protocol (DHCP)

Name remoteAccessNICCurrentInfoFromDHCP

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.10.1.33

**Description** Defines whether DHCP was used to obtain the NIC

information currently being used by the integrated NIC

provided by the remote access hardware.

Syntax DellBoolean

Access Read-only

## **Remote User Administration Table**

Name remoteUserAdminTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20

**Description** Defines the Remote Access User Administration Table.

**Syntax** SEQUENCE OF RemoteUserAdminTableEntry

**Access** Not accessible

# **Remote User Admin Table Entry**

Name remoteUserAdminTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1

**Description** Defines the Remote Access User Administration Table entry.

**Syntax** RemoteUserAdminTableEntry

Access Not accessible

Index remoteUserAdminChassisIndex,

remote User Admin Adapter Index, remote User Admin User Index

#### Remote User Admin Chassis Index

Name remoteUserAdminChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.1

**Description** Defines the index (one-based) of the chassis containing the

remote access hardware.

Syntax DellObjectRange

Access Read-only

#### **Remote User Admin Adapter Index**

Name remoteUserAdminAdapterIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.2

**Description** Defines the index (one-based) of the remote access hardware

used by this remote access user.

**Syntax** DellObjectRange

Access Read-only

#### Remote User Admin User Index

Name remoteUserAdminUserIndex
Object ID 1.3.6.1.4.1.674.10892.1.1700.20.1.3

**Description** Defines the index (one-based) of this remote access user.

**Syntax** DellObjectRange

Access Read-only

## **Remote User Admin State Capabilities**

Name remoteUserAdminStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.4

**Description** Defines the state capabilities for this remote access user.

**Syntax** DellRemoteUserAdminStateCapabilities (See Table 19-12.)

#### **Remote User Admin State Settings**

Name remoteUserAdminStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.5

**Description** Defines the state settings for this remote access user.

**Syntax** DellRemoteUserAdminStateSettings (See Table 19-13.)

Access Read-write

#### **Remote User Admin Status**

Name remoteUserAdminStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.6

**Description** Defines the status for this remote access user.

Syntax DellStatus
Access Read-only

#### **Remote User Admin User Name**

Name remoteUserAdminUserName
ObjectID 1.3.6.1.4.1.674.10892.1.1700.20.1.7

**Description** Defines the user name for this remote access user.

**Syntax** DisplayString (SIZE (0..19))

Access Read-write

#### Remote User Admin User Password Name

Name remoteUserAdminUserPasswordName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.8

**Description** Defines the password for this remote access user.

**Syntax** DisplayString (SIZE (0..255))

#### **Remote User Admin User Privilege**

Name remoteUserAdminUserPrivilege

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.9

**Description** Defines the privileges for this remote access user.

**Syntax** DisplayString (SIZE (0..31))

Access Read-write

## Remote User Admin User Privilege Capabilities

Name remoteUserAdminUserPrivilegeCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.10

**Description** Defines the privilege capabilities for this remote access user.

**Syntax** DisplayString (SIZE (0..31))

Access Read-only

#### **Remote User Admin Alert Filter DRS Events Mask**

Name remoteUserAdminAlertFilterDrsEventsMask

 $\textbf{Object ID} \qquad \qquad 1.3.6.1.4.1.674.10892.1.1700.20.1.11$ 

**Description** Defines the DRS events filter mask for this remote access user.

**Syntax** DellUnsigned32BitRange

Access Read-write

# Remote User Admin Alert Filter System Events Mask

Name remoteUserAdminAlertFilterSysEventsMask

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.12

**Description** Defines the system events filter mask for this remote access user.

**Syntax** DellUnsigned32BitRange

## **Remote User Admin Alert Filter DRS Capabilities**

Name remoteUserAdminAlertFilterDrsCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.13

**Description** Defines the DRS events filter capabilities for this remote access user.

**Syntax** DellUnsigned32BitRange

Access Read-only

## Remote User Admin Alert Filter System Capabilities

Name remoteUserAdminAlertFilterSysCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.14

**Description** Defines the system events filter capabilities for this remote

access user.

**Syntax** DellUnsigned32BitRange

Access Read-only

## **Remote User Admin Pager Numeric Number Name**

Name remoteUserAdminPagerNumericNumberName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.15

**Description** Defines the numeric pager number for this remote access user.

**Syntax** DisplayString (SIZE (0..95))

Access Read-write

## Remote User Admin Pager Numeric Message Name

Name remoteUserAdminPagerNumericMessageName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.16

**Description** Defines the message to send to the numeric pager for this remote

access user.

**Syntax** DisplayString (SIZE (0..31))

## Remote User Admin Pager Numeric Hang-up Delay

Name remoteUserAdminPagerNumericHangupDelay

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.17

**Description** Defines the numeric pager hang-up delay for this remote access user.

**Syntax** DellUnsigned32BitRange

Access Read-write

#### Remote User Admin Pager Alpha Phone Number Name

Name remoteUserAdminPagerAlphaPhoneNumberName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.18

**Description** Defines the alphanumeric pager phone number for this remote

access user.

**Syntax** DisplayString (SIZE (0..95))

Access Read-write

# Remote User Admin Pager Alpha Protocol

Name remoteUserAdminPagerAlphaProtocol

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.19

**Description** Defines the protocol used by the alphanumeric pager provider

for this remote access user.

**Syntax** DellRemoteUserAdminAlphaProtocolType (See Table 19-16.)

Access Read-write

## Remote User Admin Pager Alpha Baud Rate

Name remoteUserAdminPagerAlphaBaudRate

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.20

**Description** Defines the baud rate used by the alphanumeric pager provider

for this remote access user.

**Syntax** DellRemoteUserAdminAlphaBaudType (See Table 19-17.)

## Remote User Admin Pager Alpha Custom Message Name

Name remoteUserAdminPagerAlphaCustomMessageName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.21

**Description** Defines the message to be sent to the alphanumeric pager to

inform the user of a call by this remote access user.

**Syntax** DisplayString (SIZE (0..31))

Access Read-write

#### Remote User Admin Pager Alpha Modem Connect Time-out

Name remoteUserAdminPagerAlphaModemConnectTimeout

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.22

**Description** Defines the modem connection time-out for the alphanumeric

pager for this remote access user.

**Syntax** DellUnsigned32BitRange

Access Read-write

## Remote User Admin Pager Alpha Pager ID Name

Name remoteUserAdminPagerAlphaPagerIdName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.23

**Description** Defines the ID to be sent to the alphanumeric pager to inform

the user of a call by this remote access user.

**Syntax** DisplayString (SIZE (0..31))

Access Read-write

# Remote User Admin Pager Alpha Password Name

Name remoteUserAdminPagerAlphaPasswordName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.24

**Description** Defines the password for the alphanumeric pager for this remote

access user.

**Syntax** DisplayString (SIZE (0..31))

## **Remote User Admin Pager Modem Init String Name**

Name remoteUserAdminPagerModemInitStringName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.25

**Description** Defines the initialization string to be sent to the pager modem

for this remote access user.

**Syntax** DisplayString (SIZE (0..31))

**Access** Read-write

## Remote User Admin Pager Modem Port

Name remoteUserAdminPagerModemPort

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.26

**Description** Defines the port for the pager modem for this remote access

user.

**Syntax** DellUnsigned32BitRange

Access Read-write

#### Remote User Admin E-Mail Address Name

Name remoteUserAdminEmailAddressName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.27

**Description** Defines the e-mail address for this remote access user.

**Syntax** DisplayString (SIZE (0..63))

Access Read-write

#### Remote User Admin E-Mail Custom Message Name

Name remoteUserAdminEmailCustomMessageName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.28

**Description** Defines the e-mail message to send to this remote access user.

**Syntax** DisplayString (SIZE (0..31))

## **Remote User Admin Control Capabilities**

Name remoteUserAdminControlCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.29

**Description** Defines the control capabilities for this remote access user.

**Syntax** DellRemoteUserAdminControlCapabilities (See Table 19-14.)

Access Read-only

#### Remote User Admin Control Settings

Name remoteUserAdminControlSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.20.1.30

Description Defines the control settings for this remote access user.

Syntax DellRemoteUserAdminControlSettings (See Table 19-15.)

Access Read-write

## Remote User Admin User Type

Name remoteUserAdminUserType

ObjectID 1.3.6.1.4.1.674.10892.1.1700.20.1.31

**Description** Defines the type of user for this remote access user.

**Syntax** DellUnsigned8BitRange

Access Read-write

# **Remote SNMP Trap Table**

Name remoteSNMPTrapTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.30

**Description** Defines the Remote Access SNMP Trap Destination Table.

**Syntax** SEQUENCE OF RemoteSNMPTrapTableEntry

Access Not accessible

## **Remote SNMP Trap Table Entry**

 Name
 remoteSNMPTrapTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.30.1

**Description** Defines the Remote Access SNMP Trap Destination Table entry.

**Syntax** RemoteSNMPTrapTableEntry

**Access** Not accessible

Index remoteSNMPTrapChassisIndex,

remoteSNMPTrapAdapterIndex, remoteSNMPTrapIndex

# **Remote SNMP Trap Chassis Index**

 Name
 remoteSNMPTrapChassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.30.1.1

**Description** Defines the index (one-based) of the chassis containing the

remote access hardware.

**Syntax** DellObjectRange

Access Read-only

## **Remote SNMP Trap Adapter Index**

 Name
 remoteSNMPTrapAdapterIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.30.1.2

**Description** Defines the index (one-based) of the remote access hardware

that uses this SNMP trap destination.

Syntax DellObjectRange

#### **Remote SNMP Trap Index**

Name remoteSNMPTrapIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.30.1.3

**Description** Defines the index (one-based) of this remote access SNMP trap

destination.

**Syntax** DellObjectRange

Access Read-only

# **Remote SNMP Trap State Capabilities**

Name remoteSNMPTrapStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.30.1.4

**Description** Defines the state capabilities of this remote access SNMP trap

destination.

**Syntax** DellRemoteSNMPTrapStateCapabilities (See Table 19-18.)

Access Read-only

#### **Remote SNMP Trap State Settings**

Name remoteSNMPTrapStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.30.1.5

**Description** Defines the state settings of this remote access SNMP trap

destination.

**Syntax** DellRemoteSNMPTrapStateSettings (See Table 19-19.)

Access Read-write

#### **Remote SNMP Trap Status**

Name remoteSNMPTrapStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.30.1.6

**Description** Defines the status of this remote access SNMP trap destination.

Syntax DellStatus
Access Read-only

#### **Remote SNMP Trap Destination IP Address**

Name remoteSNMPTrapDestinationIPAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.30.1.7

**Description** Defines the IP address of this remote access SNMP trap destination.

Syntax IpAddress
Access Read-write

#### **Remote SNMP Trap SNMP Community Name**

Name remoteSNMPTrapSNMPCommunityName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.30.1.8

**Description** Defines the community for traps sent to this remote access

SNMP trap destination.

**Syntax** DisplayString (SIZE (0..31))

Access Read-write

# Remote SNMP Trap Filter DRS Events Mask

Name remoteSNMPTrapFilterDrsEventsMask

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.30.1.9

**Description** Defines the DRS events filter mask for this remote access

SNMP trap destination.

**Syntax** DellUnsigned32BitRange

Access Read-write

#### **Remote SNMP Trap Filter System Events Mask**

Name remoteSNMPTrapFilterSysEventsMask

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.30.1.10

**Description** Defines the system events filter mask for this remote access

SNMP trap destination.

**Syntax** DellUnsigned32BitRange

#### Remote SNMP Trap Filter DRS Capabilities

Name remoteSNMPTrapFilterDrsCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.30.1.11

**Description** Defines the DRS events filter capabilities for this remote access

SNMP trap destination.

**Syntax** DellUnsigned32BitRange

Access Read-only

#### Remote SNMP Trap Filter System Capabilities

Name remoteSNMPTrapFilterSysCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.30.1.12

**Description** Defines the system events filter capabilities of this remote

access SNMP trap destination.

**Syntax** DellUnsigned32BitRange

Access Read-only

# Remote SNMP Trap Control Capabilities

Name remoteSNMPTrapControlCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.30.1.13

**Description** Defines the control capabilities of this remote access

SNMP trap destination.

**Syntax** DellRemoteSNMPTrapControlCapabilities (See Table 19-20.)

Access Read-only

# Remote SNMP Trap Control Settings

Name remoteSNMPTrapControlSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.30.1.14

**Description** Defines the control settings of this remote access SNMP

trap destination.

**Syntax** DellRemoteSNMPTrapControlSettings (See Table 19-21.)

# **Remote Dial-Up Table**

Name remoteDialUpTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.40

Description Defines the Remote Access Dial-Up Table.

Syntax SEQUENCE OF RemoteDialUpTableEntry

**Access** Not accessible

# **Remote Dial-Up Table Entry**

Name remoteDialUpTableEntry

Object ID 1.3.6.1.4.1.674.10892.1.1700.40.1

**Description** Defines the Remote Access Dial-Up Table entry.

Syntax RemoteDialUpTableEntry

Access Not accessible

Index remoteDialUpChassisIndex, remoteDialUpAdapterIndex,

remoteDialUpIndex

# **Remote Dial-Up Chassis Index**

 Name
 remoteDialUpChassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.40.1.1

**Description** Defines the index (one-based) of the chassis containing the

remote access hardware.

**Syntax** DellObjectRange

Access Read-only

#### Remote Dial-Up Adapter Index

 Name
 remoteDialUpAdapterIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.40.1.2

**Description** Defines the index (one-based) of the remote access hardware

that supports this remote access dial-up functionality.

**Syntax** DellObjectRange

Access Read-only

#### **Remote Dial-Up Index**

Name remoteDialUpIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.40.1.3

**Description** Defines the index (one-based) of this remote access dial-up

functionality.

**Syntax** DellObjectRange

Access Read-only

# **Remote Dial-Up State Capabilities**

Name remoteDialUpStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.40.1.4

**Description** Defines the state capabilities of this remote access dial-up

functionality.

**Syntax** DellRemoteDialUpStateCapabilities (See Table 19-22.)

Access Read-only

# Remote Dial-Up State Settings

Name remoteDialUpStateSettings
ObjectID 1.3.6.1.4.1.674.10892.1.1700.40.1.5

**Description** Defines the state settings of this remote access dial-up

functionality.

**Syntax** DellRemoteDialUpStateSettings (See Table 19-23.)

#### **Remote Dial-Up Status**

Name remoteDialUpStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.40.1.6

**Description** Defines the status of this remote access dial-up functionality.

Syntax DellStatus
Access Read-only

#### Remote Dial-Up PPP Dial-In Base IP Address

Name remoteDialUpPPPDialInBaseIPAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.40.1.7

**Description** Defines the base IP address of the PPP server for this remote

access dial-up functionality.

Syntax IpAddress
Access Read-write

# Remote Dial-Up PPP Dial-In Idle Time-out

Name remoteDialUpPPPDialInIdleTimeout

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.40.1.8

**Description** Defines the PPP idle time-out value in seconds for this remote

access dial-up functionality.

**Syntax** DellUnsigned32BitRange

Access Read-write

# Remote Dial-Up PPP Dial-In Maximum Connection Time-out

Name remoteDialUpPPPDialInMaxConnectTimeout

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.40.1.9

**Description** Defines the PPP connect time-out value in seconds for this

remote access dial-up functionality.

**Syntax** DellUnsigned32BitRange

#### Remote Dial-Up Dial-Out Modem Connect Time-out

Name remoteDialUpDialOutModemConnectTimeout

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.40.1.10

**Description** Defines the modem dial-out time-out value in seconds for this

remote access dial-up functionality.

**Syntax** DellUnsigned32BitRange

Access Read-write

#### Remote Dial-Up Modem Dial Type

 Name
 remoteDialUpModemDialType

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.40.1.11

**Description** Defines the dial type for the modem used by this remote access

dial-up functionality.

**Syntax** DellRemoteDialUpModemDialType (SeeTable 19-24.)

Access Read-write

# Remote Dial-Up Modem Init String Name

Name remoteDialUpModemInitStringName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.40.1.12

**Description** Defines the initialization string to be sent to the modem for this

remote access dial-up functionality.

**Syntax** DisplayString (SIZE (0..63))

Access Read-write

# Remote Dial-Up Modem Baud Rate

 Name
 remoteDialUpModemBaudRate

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.40.1.13

**Description** Defines the baud rate for the modem used by this remote access

dial-up functionality.

**Syntax** DellUnsigned32BitRange

#### Remote Dial-Up Modem Port

Name remoteDialUpModemPort

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.40.1.14

**Description** Defines the port for the modem used by this remote access dial-

up functionality.

**Syntax** DellUnsigned32BitRange

**Access** Read-write

# **Remote User Dial-In Configuration Table**

Name remoteUserDialInCfgTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.50

**Description** Defines the Remote Access User Dial-In Configuration Table.

**Syntax** SEQUENCE OF RemoteUserDialInCfgTableEntry

**Access** Not accessible

# **Remote User Dial-In Configuration Table Entry**

Name remoteUserDialInCfgTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.50.1

**Description** Defines the Remote Access User Dial-In Configuration Table

entry.

**Syntax** RemoteUserDialInCfgTableEntry

**Access** Not accessible

Index remoteUserDialInCfgChassisIndex,

remoteUserDialInCfgAdapterIndex, remoteUserDialInCfgUserIndex

#### **Remote User Dial-In Configuration Chassis Index**

Name remoteUserDialInCfgChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.50.1.1

**Description** Defines the index (one-based) of the chassis containing the

remote access hardware.

**Syntax** DellObjectRange

Access Read-only

# **Remote User Dial-In Configuration Adapter Index**

Name remoteUserDialInCfgAdapterIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.50.1.2

**Description** Defines the index (one-based) of the remote access hardware

that supports this remote access dial-in user.

**Syntax** DellObjectRange

Access Read-only

#### **Remote User Dial-In Configuration User Index**

Name remoteUserDialInCfgUserIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.50.1.3

**Description** Defines the index (one-based) of this remote access dial-in user.

**Syntax** DellObjectRange

Access Read-only

#### **Remote User Dial-In Configuration State Capabilities**

Name remoteUserDialInCfqStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.50.1.4

Description Defines the state capabilities of this remote access dial-in user.

Syntax DellRemoteUserDialInStateCapabilities (See Table 19-25.)

Access Read-only

#### **Remote User Dial-In Configuration State Settings**

Name remoteUserDialInCfgStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.50.1.5

**Description** Defines the state settings of this remote access dial-in user. **Syntax** DellRemoteUserDialInStateSettings (See Table 19-26.)

Access Read-write

# **Remote User Dial-In Configuration Status**

Name remoteUserDialInCfgStatus

ObjectID 1.3.6.1.4.1.674.10892.1.1700.50.1.6

**Description** Defines the status of this remote access dial-in user.

Syntax DellStatus
Access Read-only

# **Remote User Dial-In Configuration PPP Username**

Name remoteUserDialInCfgPPPUserName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.50.1.7

**Description** Defines the PPP user name of this remote access dial-in user.

 $\textbf{Syntax} \qquad \qquad DisplayString} \ (SIZE \ (0..15))$ 

Access Read-write

# Remote User Dial-In Configuration PPP User Password Name

Name remoteUserDialInCfgPPPUserPasswordName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.50.1.8

**Description** Defines the PPP password of this remote access dial-in user.

Syntax DisplayString (SIZE (0..15))

#### Remote User Dial-In Configuration Callback Phone Number Name

Name remoteUserDialInCfgCallbackPhoneNumberName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.50.1.9

**Description** Defines the callback phone number for this remote access dial-in user.

**Syntax** DisplayString (SIZE (0..95))

Access Read-write

#### **Remote Dial-Out Table**

Name remoteDialOutTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.60

Description Defines the Remote Access Dial-Out Table.

Syntax SEQUENCE of RemoteDialOutTableEntry

**Access** Not accessible

#### **Remote Dial-Out Table Entry**

Name remoteDialOutTableEntry
ObjectID 1.3.6.1.4.1.674.10892.1.1700.60.1

**Description** Defines the Remote Access Dial-Out Table entry.

**Syntax** RemoteDialOutTableEntry

**Access** Not accessible

Index remoteDialOutChassisIndex, remoteDialOutAdapterIndex,

remoteDialOutDialOutIndex

#### Remote Dial-Out Chassis Index

 Name
 remoteDialOutChassisIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.1700.60.1.1

**Description** Defines the index (one-based) of the chassis containing the

remote access hardware.

**Syntax** DellObjectRange

Access Read-only

#### **Remote Dial-Out Adapter Index**

Name remoteDialOutAdapterIndex
Object ID 1.3.6.1.4.1.674.10892.1.1700.60.1.2

**Description** Defines the index (one-based) of the remote access hardware

that supports this remote access dial-out functionality.

**Syntax** DellObjectRange

Access Read-only

#### Remote Dial-Out Dial-Out Index

Name remoteDialOutDialOutIndex
Object ID 1.3.6.1.4.1.674.10892.1.1700.60.1.3

**Description** Defines the index (one-based) of this remote access dial-out

functionality.

**Syntax** DellObjectRange

Access Read-only

# **Remote Dial-Out State Capabilities**

Name remoteDialOutStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.60.1.4

**Description** Defines the state capabilities of this remote access dial-out

functionality.

**Syntax** DellRemoteDialOutStateCapabilities (See Table 19-27.)

**Access** Read-only

# Remote Dial-Out State Settings

Name remoteDialOutStateSettings
ObjectID 1.3.6.1.4.1.674.10892.1.1700.60.1.5

**Description** Defines the state settings of this remote access dial-out functionality.

**Syntax** DellRemoteDialOutStateSettings (See Table 19-28.)

#### **Remote Dial-Out Status**

Name remoteDialOutStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.60.1.6

**Description** Defines the status of this remote access dial-out functionality.

Syntax DellStatus
Access Read-only

#### **Remote Dial-Out IP Address**

Name remoteDialOutIPAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.60.1.7

**Description** Defines the IP address for this remote access dial-out

destination.

Syntax IpAddress
Access Read-write

#### **Remote Dial-Out Phone Number Name**

Name remoteDialOutPhoneNumberName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.60.1.8

**Description** Defines the phone number for this remote access dial-out

destination.

**Syntax** DisplayString (SIZE (0..95))

Access Read-write

#### **Remote Dial-Out PPP Username**

Name remoteDialOutPPPUserName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.60.1.9

**Description** Defines the PPP username for this remote access dial-out

destination.

**Syntax** DisplayString (SIZE (0..31))

#### **Remote Dial-Out PPP Password Name**

Name remoteDialOutPPPPasswordName

**Object ID** 1.3.6.1.4.1.674.10892.1.1700.60.1.10

**Description** Defines the PPP password for this remote access dial-out destination.

**Syntax** DisplayString (SIZE (0..31))

Access Read-write

# **Remote Access Variable Values**

This section includes definitions for server administrator-specific variable values used in this section.

Table 19-1. Remote Access Type

Variable Name: DellRemoteAccessType

Data Type: Integer

Possible Data Values	Meaning of Data Value
remoteAccessTypeIsOther(1)	The remote access type is not one of the following:
remoteAccessTypeIsUnknown(2)	The remote access type is unknown.
remoteAccessTypeIsDRACIII(3)	The remote access type is DRAC III.
remoteAccessTypeIsERA(4)	The remote access type is ERA.

#### **Table 19-2. Remote Access Control Capabilities**

Variable Name: DellRemoteAccessControlCapabilities

Possible Data Values	Meaning of Data Value
none(0)	The remote access hardware has no control capabilities.
unknownCapabilities(1)	The remote access hardware control capabilities are unknown.

Table 19-2. Remote Access Control Capabilities (continued)

Variable Name: DellRemoteAccessControlCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
logResetCapable(2)	The remote access hardware can reset its integrated logs.
hardResetCapable(4)	The remote access hardware can perform a hard reset.
softResetCapable(8)	The remote access hardware can perform a soft reset.
gracefulResetCapable(16)	The remote access hardware can gracefully shut down and perform a soft reset.
defaultConfigResetCapable(32)	The remote access hardware can reset to its default settings.
shutdownCapable(64)	The remote access hardware can shut down.

Table 19-3. Remote Access Control Settings

Variable Name: DellRemoteAccessControlSettings

Possible Data Values	Meaning of Data Value
none(0)	The remote access hardware has no control settings.
unknown(1)	The remote access hardware control settings are unknown.
logReset(2)	The remote access hardware will reset its integrated logs.
hardReset(4)	The remote access hardware will perform a hard reset.
softReset(8)	The remote access hardware will perform a soft reset.

Table 19-3. Remote Access Control Settings (continued)

Variable Name: DellRemoteAccessControlSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
gracefulReset(16)	The remote access hardware will gracefully shut down and perform a soft reset.
defaultConfigReset(32)	The remote access hardware will reset to its default settings.
shutdown(64)	The remote access hardware will shut down.

Table 19-4. Remote Access Monitor Capabilities

Variable Name: DellRemoteAccessMonitorCapabilities

Possible Data Values	Meaning of Data Value
none(0)	The remote access hardware has no monitor capabilities.
unknownCapabilities(1)	The remote access hardware monitor capabilities are unknown.
extPwrSupplyMonitorIfConn ectedCapable(2)	The remote access hardware can be set to monitor the external power supply, if connected.
extPwrSupplyMonitorAlways EnabledCapable(4)	The remote access hardware can be set to always monitor the external power supply.

Table 19-5. Remote Access Monitor Settings

Variable Name: DellRemoteAccessMonitorSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The remote access hardware has no monitor settings.
unknown(1)	The remote access hardware monitor settings are unknown.
extPwrSupplyMonitorIfConn ectedEnabled(2)	The remote access hardware will monitor the external power supply, if connected.
extPwrSupplyMonitorAlways EnabledEnabled(4)	The remote access hardware will always monitor the external power supply.

Table 19-6. Remote Access Local Area Network (LAN) Capabilities

Variable Name: DellRemoteAccessLANCapabilities

Possible Data Values	Meaning of Data Value
none(0)	The remote access hardware has no LAN capabilities.
unknownCapabilities(1)	The remote access hardware LAN capabilities are unknown.
nicCapable(2)	The remote access hardware has a network interface controller (NIC).
nicDHCPCapable(4)	The remote access hardware NIC can use DHCP to obtain an IP address.

Table 19-7. Remote Access LAN Settings

Variable Name: DellRemoteAccessLANSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The remote access hardware has no LAN settings.
unknown(1)	The remote access hardware LAN settings are unknown.
nicEnabled(2)	The remote access hardware NIC is enabled.
nicDHCPEnabled(4)	The remote access hardware NIC will use DHCP to obtain an IP address.

Table 19-8. Remote Access Host Capabilities

Variable Name: DellRemoteAccessHostCapabilities

Possible Data Values	Meaning of Data Value
none(0)	The remote access hardware has no host capabilities.
unknownCapabilities(1)	The remote access hardware host capabilities are unknown.
smtpEmailCapable(2)	The remote access hardware supports sending e-mail using SMTP.
tftpRemoteFloppyCapable(4)	The remote access hardware supports remote floppy boot using a TFTP server.
tftpRemoteFwUpdateCapable(8)	The remote access hardware supports remote firmware update using a TFTP server.

Table 19-9. Remote Access Host Settings

Variable Name: DellRemoteAccessHostSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The remote access hardware has no host settings.
unknown(1)	The remote access hardware host settings are unknown.
smtpEmailEnabled(2)	The remote access hardware SMTP client is enabled for sending e-mail.
tftpRemoteFloppyEnabled(4)	The remote access hardware TFTP client is enabled for remote floppy boot.
tftpRemoteFwUpdateEnabled(8)	The remote access hardware TFTP client is enabled for remote firmware update.

Table 19-10. Remote Access Out-Of-Band Simple Network Management Protocol (SNMP) Capabilities

Variable Name: DellRemoteAccessOutOfBandSNMPCapabilities

Possible Data Values	Meaning of Data Value
none(0)	The remote access hardware has no out-of-band SNMP capabilities.
unknownCapabilities(1)	The remote access hardware out-of-band SNMP capabilities are unknown.
oobSNMPAgentCapable(2)	The remote access hardware has an out-of-band SNMP agent.
oobSNMPTrapsCapable(4)	The remote access hardware can send out-of-band SNMP traps.

Table 19-11. Remote Access Out-Of-Band Simple Network Management Protocol (SNMP) Settings

Variable Name: DellRemoteAccessOutOfBandSNMPSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The remote access hardware has no out-of-band SNMP settings.
unknown(1)	The remote access hardware out-of-band SNMP settings are unknown.
oobSNMPAgentEnabled(2)	The remote access hardware out-of-band SNMP agent is enabled.
oobSNMPTrapsEnabled(4)	The remote access hardware will send out-of-band SNMP traps.

Table 19-12. Remote User Admin State Capabilities

 $\textbf{Variable Name:} \ \texttt{DellRemoteUserAdminStateCapabilities}$ 

Possible Data Values	Meaning of Data Value
none(0)	The admin user has no state capabilities.
unknownCapabilities(1)	The admin user state capabilities are unknown.
enableCapable(2)	The admin user can be disabled or enabled.
notReadyCapable(4)	The admin user can be in the "not ready" state.
numericPagerCapable(8)	The admin user supports numeric paging.
alphaPagerCapable(16)	The admin user supports alphanumeric paging.
emailCapable(32)	The admin user supports e-mail.
privilegeCapable(64)	The admin user supports user privileges configuration.

Table 19-13. Remote User Admin State Settings

Variable Name: DellRemoteUserAdminStateSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The admin user has no state settings.
unknown(1)	The admin user state settings are unknown.
enabled(2)	The admin user is enabled.
notReady(4)	The admin user is in the "not ready" state.
numericPagerEnabled(8)	Numeric paging is enabled for the admin user.
alphaPagerEnabled(16)	Alphanumeric paging is enabled for the admin user.
emailEnabled(32)	E-mail is enabled for the admin user.

Table 19-14. Remote User Admin Control Capabilities

 $\textbf{Variable Name:} \verb|DellRemoteUserAdminControlCapabilities|$ 

Possible Data Values	Meaning of Data Value
none(0)	The admin user has no control capabilities.
unknownCapabilities(1)	The admin user control capabilities are unknown.
numericPagerTestCapable(2)	The admin user can support sending a test numeric page.
alphaPagerTestCapable(4)	The admin user can support sending a test alphanumeric page.
emailTestCapable(8)	The admin user can support sending a test e-mail.

Table 19-15. Remote User Admin Control Settings

Variable Name: DellRemoteUserAdminControlSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The admin user has no control settings.
unknown(1)	The admin user control settings are unknown.
numericPagerTest(2)	A numeric pager test will be performed for the admin user.
alphaPagerTest(4)	An alphanumeric pager test will be performed for the admin user.
emailTest(8)	An e-mail test will be performed for the admin user.

Table 19-16. Remote User Admin Alpha Protocol Type

Variable Name: DellRemoteUserAdminAlphaProtocolType

Possible Data Values	Meaning of Data Value
other(1)	The remote user admin alpha protocol type is not one of the following:
unknown(2)	The remote user admin alpha protocol type is unknown.
alpha7E0(3)	The remote user admin alpha protocol type is 7E0.
alpha8N1(4)	The remote user admin alpha protocol type is 8N1.

Table 19-17. Remote User Admin Alpha Baud Type

Variable Name: DellRemoteUserAdminAlphaBaudType

Data Type: Integer

Possible Data Values	Meaning of Data Value
other(1)	The remote user alphanumeric baud rate is not one of the following:
unknown(2)	The remote user alphanumeric baud rate is unknown.
alphaBaud300(3)	The remote user alphanumeric baud rate is 300.
alphaBaud1200(4)	The remote user alphanumeric baud rate is 1200.

Table 19-18. Remote SNMP Trap State Capabilities

Variable Name: DellRemoteSNMPTrapStateCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The SNMP trap destination has no state capabilities.
unknownCapabilities (1)	The SNMP trap destination state capabilities are unknown.
enableCapable(2)	The SNMP trap destination can be disabled or enabled.
notReadyCapable(4)	The SNMP trap destination can be in the "not ready" state.

Table 19-19. Remote SNMP Trap State Settings

Variable Name: DellRemoteSNMPTrapStateSettings

Possible Data Values	Meaning of Data Value	
none(0)	The SNMP trap destination has no state settings.	
unknown(1)	The SNMP trap destination state settings are unknown.	
enabled(2)	The SNMP trap destination is enabled.	
notReady(4)	The SNMP trap destination is in the "not ready" state.	

**Table 19-20. Remote SNMP Trap Control Capabilities** 

Variable Name: DellRemoteSNMPTrapControlCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The SNMP trap destination has no control capabilities.
unknownCapabilities (1)	The SNMP trap destination control capabilities are unknown.
trapTestCapable(2)	A SNMP trap test can be performed for the SNMP trap destination.

**Table 19-21. Remote SNMP Trap Control Settings** 

Variable Name: DellRemoteSNMPTrapControlSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The SNMP trap destination has no control settings.
unknown(1)	The SNMP trap destination control settings are unknown.
trapTestCapable(2)	A SNMP trap test will be performed for the SNMP trap destination.

Table 19-22. Remote Dial-Up State Capabilities

Variable Name: DellRemoteDialUpStateCapabilities

Possible Data Values	Meaning of Data Value
none(0)	The dial-up functionality has no state capabilities.
unknownCapabilities(1)	The dial-up functionality state capabilities are unknown.
enableCapable(2)	The dial-up functionality can be disabled or enabled.

Table 19-22. Remote Dial-Up State Capabilities (continued)

Variable Name: DellRemoteDialUpStateCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
notReadyCapable(4)	The dial-up functionality can be in the "not ready" state.
dialInCapable(8)	The dial-up functionality can support the dial-in feature.
dialOutCapable(16)	The dial-up functionality can support the dial-out feature.
dialInDHCPCapable(32)	The dial-up functionality can support using DHCP to obtain an IP address for the dial-in feature.
dialInAuthAnyCapable(64)	The dial-up functionality can support any authentication type (including clear text) for the dial-in feature.
dialInAuthEncryptedCapable(128)	The dial-up functionality can support encrypted passwords (CHAP) authentication for the dial-in feature.
dialInAuthMschapCapable(256)	The dial-up functionality can support MSCHAP authentication type for the dial-in feature.

Table 19-23. Remote Dial-Up State Settings

 $\textbf{Variable Name:} \ \texttt{DellRemoteDialUpStateSettings}$ 

Possible Data Values	Meaning of Data Value
none(0)	The dial-up functionality has no state settings.
unknown(1)	The dial-up functionality state settings are unknown.
enabled(2)	The dial-up functionality is enabled.
notReadyCapable(4)	The dial-up functionality is in the "not ready" state.
dialInEnabled(8)	The dial-up functionality dial-in feature is enabled.
dialOutEnabled(16)	The dial-up functionality dial-out feature is enabled.

Table 19-23. Remote Dial-Up State Settings (continued)

Variable Name: DellRemoteDialUpStateSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
dialInDHCPEnabled(32)	The dial-up functionality uses DHCP to obtain an IP address for the dial-in feature.
dialInAuthAnyEnabled (64)	The dial-up functionality accepts any authentication type (including clear text) for the dial-in feature.
dialInAuthEncrypted Enabled(128)	The dial-up functionality uses only encrypted passwords (CHAP) authentication type for the dial-in feature.
dialInAuthMschapEnab led(256)	The dial-up functionality uses only MSCHAP authentication type for the dial-in feature.

Table 19-24. Remote Dial-Up Modem Dial Type

Variable Name: DellRemoteDialUpModemDialType

Possible Data Values	Meaning of Data Value
remoteDialUpIsOther(1)	The remote dial type is not one of the following:
remoteDialUpIsUnknown(2)	The remote dial type is unknown.
remoteDialUpIsTone(3)	The remote dial type is tone.
remoteDialUpIsPulse(4)	The remote dial type is pulse.

**Table 19-25.** Remote User Dial-In State Capabilities

Variable Name: DellRemoteUserDialInStateCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	The dial-in user has no state capabilities.
unknownCapabilities(1)	The dial-in user state capabilities are unknown.
enableCapable(2)	The dial-in user can be disabled or enabled.
notReadyCapable(4)	The dial-in user can be in the "not ready" state.
dialInCallbackPresetNumber Capable(8)	The dial-in user can support callback using a preset number.
dialInCallbackUserSpecified Capable(16)	The dial-in user can support callback using a user-specified number.

Table 19-26. Remote User Dial-In State Settings

Variable Name: DellRemoteUserDialInStateSettings

Possible Data Values	Meaning of Data Value
none(0)	The dial-in user has no state settings.
unknown(1)	The dial-in user state settings are unknown.
enabled(2)	The dial-in user is enabled.
notReady(4)	The dial-in user is in the "not ready" state.
dialInCallbackPresetNumber Enabled(8)	Callback using a preset number is enabled for the dial-in user.
dialInCallbackUserSpecified Enabled(16)	Callback using a user-specified number is enabled for the dial-in user.

Table 19-27. Remote Dial-Out State Capabilities

Variable Name: DellRemoteDialOutStateCapabilities

Possible Data Values	Meaning of Data Value
none(0)	The dial-out destination has no state capabilities.
unknownCapabilities(1)	The dial-out destination state capabilities are unknown.
enableCapable(2)	The dial-out destination can be disabled or enabled.
notReadyCapable(4)	The dial-out destination can be in the "not ready" state.
dialOutPPPAuthAnyCapable(8)	The dial-out destination can support any authentication type (including clear text) for PPP.
dialOutPPPAuthEncryptedCapable(16)	The dial-out destination can support encrypted passwords authentication type for PPP.
dialOutPPPAuthMschapCapable(32)	The dial-out destination can support MSCHAP authentication type for PPP.

Table 19-28. Remote Dial-Out State Settings

Variable Name: DellRemoteDialOutStateSettings

Possible Data Values	Meaning of Data Value
none(0)	The dial-out destination has no state settings.
unknown(1)	The dial-out destination state settings are unknown.
enabled(2)	The dial-out destination is disabled or enabled.
notReady(4)	The dial-out destination is in the "not ready" state.
dialOutPPPAuthAnyEnabled(8)	The dial-out destination accepts any authentication type (including clear text) for PPP.
dialOutPPPAuthEncryptedEnabled(16)	The dial-out destination uses only encrypted passwords authentication type for PPP.
dialOutPPPAuthMschapEnabled(32)	The dial-out destination uses only MSCHAP authentication type for PPP.

# **Cluster Group**

Clustering combines multiple systems in such a way that they provide services a single system cannot. Clustering enhances higher availability, scalability, and management. Higher availability is achieved by using "failover" clusters, in which resources can automatically move between two or more systems in the event of a failure. Scalability is achieved by balancing the load of an application across several computer systems. Simpler management is achieved by using virtual servers, as opposed to managing each individual computer system.

# **Cluster Group**

The Cluster Group defines attributes such as the number of systems in the cluster, capabilities of the cluster, type of cluster, and name of the cluster.

#### **Cluster Table**

The following table defines the attributes of the cluster.

Name clusterTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1800.10

**Description** Defines the Cluster Table.

**Syntax** SEQUENCE OF ClusterTableEntry

Access Not accessible

# **Cluster Table Entry**

Name clusterTableEntry

 Object ID
 1.3.6.1.4.1.674.10892.1.1800.10.1

 Description
 Defines the Cluster Table entry.

**Syntax** ClusterTableEntry

Access Not accessible

Index clusterChassisIndex, clusterIndex

#### **Cluster Chassis Index**

Name clusterChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1800.10.1.1

**Description** Defines the index (one-based) of this chassis.

**Syntax** DellObjectRange

Access Read-only

#### **Cluster Index**

Name clusterIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1800.10.1.2

**Description** Defines the index (one-based) of the cluster.

**Syntax** DellObjectRange

Access Read-only

# **Cluster State Capabilities**

Name clusterStateCapabilities
Object ID 1.3.6.1.4.1.674.10892.1.1800.10.1.3

**Description** Defines the state capabilities of the cluster.

Syntax DellStateCapabilities

Access Read-only

# **Cluster State Settings**

Name clusterStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1800.10.1.4

**Description** Defines the state settings of the cluster.

**Syntax** DellStateSettings

Access Read-write

ı

#### **Cluster Status**

Name clusterStatus

 Object ID
 1.3.6.1.4.1.674.10892.1.1800.10.1.5

 Description
 Defines the status of the cluster.

Syntax DellStatus
Access Read-only

#### **Cluster Type**

Name clusterType

**Object ID** 1.3.6.1.4.1.674.10892.1.1800.10.1.6

**Description** Defines the type of the cluster. **Syntax** DellClusterType

Access Read-only

# **Cluster Type Description Name**

Name clusterTypeDescriptionName
ObjectID 1.3.6.1.4.1.674.10892.1.1800.10.1.7

**Description** Defines the description name for the type of the cluster.

Syntax DellString
Access Read-only

#### **Cluster Name**

Name clusterName

 Object ID
 1.3.6.1.4.1.674.10892.1.1800.10.1.8

 Description
 Defines the name of the cluster.

Syntax DellString
Access Read-only

# **Cluster Group Variable Values**

This section includes definitions for Server Administrator-specific variable values used in this section.

# Table 20-1. Cluster Type

Variable Name: DellClusterType

Possible Data Values	Meaning of Data Value
unknown(1)	The cluster type is unknown.
highAvailabilityCluster(2)	The cluster type is a high-availability cluster.

# **Baseboard Management Controller Group**

The Baseboard Management Controller (BMC) monitors the system for critical events by communicating with various sensors on the system board and sends alerts and log events when certain parameters exceed their preset thresholds. The BMC Group provides information about the BMC that may be present in your system. In addition to providing general information about the BMC, this group provides information about the serial and local area network (LAN) interfaces of the BMC.

# **Baseboard Management Controller Group Tables**

The objects in the BMC group define information about the BMC and the serial and LAN interfaces that can be used to access the BMC remotely to perform management activities. Objects for the serial interface define the serial connection mode, flow control type and bit rate. Objects for the LAN interface define the media access control (MAC) address, internet protocol (IP) address, subnet mask and default gateway.

The following MIB tables define the BMC group:

- Baseboard Management Controller Table
- Baseboard Management Controller Serial Interface Table
- Baseboard Management Controller LAN Interface Table

# **Baseboard Management Controller Table**

Name bmcTable

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.10

**Description** Defines the Baseboard Management Controller Table.

**Syntax** SEQUENCE OF BmcTableEntry

**Access** Not accessible

#### **BMC Table Entry**

Name bmcTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.10.1

**Description** Defines the Baseboard Management Controller (BMC) Table Entry.

Syntax BmcTableEntry
Access Not accessible

Index bmcChassisIndex, bmcIndex

#### **BMC Chassis Index**

Name bmcChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.10.1.1

**Description** Defines the index (one-based) of the associated chassis.

**Syntax** DellObjectRange

Access Read-only

#### **BMC Index**

Name bmcIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.10.1.2

**Description** Defines the index (one-based) of the BMC.

**Syntax** DellObjectRange

Access Read-only

# **BMC State Capabilities**

Name bmcStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.10.1.3

**Description** Defines the state capabilities of the BMC.

**Syntax** DellStateCapabilities

Access Read-only

1

# **BMC State Settings**

Name bmcStateSettings

Object ID 1.3.6.1.4.1.674.10892.1.1900.10.1.4

Description Defines the state settings of the BMC.

**Syntax** DellStateSettings

Access Read-write

### **BMC Status**

Name bmcStatus

 Object ID
 1.3.6.1.4.1.674.10892.1.1900.10.1.5

 Description
 Defines the status of the BMC.

Syntax DellStatus
Access Read-only

# **BMC Display Name**

Name bmcDisplayName

 Object ID
 1.3.6.1.4.1.674.10892.1.1900.10.1.6

 Description
 Defines the display name of the BMC.

Syntax DellString
Access Read-only

# **BMC Description Name**

Name bmcDescriptionName

 Object ID
 1.3.6.1.4.1.674.10892.1.1900.10.1.7

 Description
 Defines the description of the BMC.

**Syntax** DisplayString (SIZE (0..255))

### **BMC IPMI Version Name**

Name bmcIPMIVersionName

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.10.1.8

**Description** Defines the version of the Intelligent Platform Management

Interface (IPMI) specification that the BMC supports.

Syntax DellString

Access Read-only

#### **BMC GUID**

Name bmcGUID

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.10.1.9

**Description** Defines the Globally Unique ID (GUID) of the BMC.

**Syntax** OCTET STRING (SIZE(16))

Access Read-only

# **BMC** Type

Name bmcType

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.10.1.10

**Description** Defines the type of the BMC.

Syntax DellManagementControllerType

Access Read-only

### **BMC Module Name**

Name bmcModuleName

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.10.1.11

**Description** Defines the module name for the BMC. The module name is

present only on certain systems, such as modular systems.

Syntax DellString

### **BMC IPv4 URL Name**

Name bmcIPv4URLName

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.10.1.12

**Description** Defines the IPv4 URL for the BMC. The URL is not present on

all systems.

**Syntax** DisplayString (SIZE (0..1024))

Access Read-only

### **BMC IPv6 URL Name**

Name bmcIPv6URLName

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.10.1.13

**Description** Defines the IPv6 URL for the BMC. The URL is not present on

all systems.

Syntax DisplayString (SIZE (0..1024))

Access Read-only

# **Baseboard Management Controller Serial Interface Table**

 Name
 bmcSerialInterfaceTable

 Object ID
 1.3.6.1.4.1.674.10892.1.1900.20

**Description** Defines the BMC Serial Interface Table.

**Syntax** SEQUENCE OF BmcSerialInterfaceTableEntry

**Access** Not accessible

# **BMC Serial Interface Table Entry**

Name bmcSerialInterfaceTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.20.1

**Description** Defines the BMC Serial Interface Table Entry.

**Syntax** BmcSerialInterfaceTableEntry

**Access** Not accessible

Index bmcSerialInterfaceChassisIndex.

bmcSerialInterfaceBMCIndex, bmcSerialInterfaceIndex

### **BMC Serial Interface Chassis Index**

Name bmcSerialInterfaceChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.20.1.1

**Description** Defines the index (one-based) of the associated chassis.

**Syntax** DellObjectRange

Access Read-only

### **BMC Serial Interface BMC Index**

 Name
 bmcSerialInterfaceBMCIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.1900.20.1.2

**Description** Defines the index (one-based) of the associated BMC.

**Syntax** DellObjectRange

Access Read-only

### **BMC Serial Interface Index**

Name bmcSerialInterfaceIndex
Object ID 1.3.6.1.4.1.674.10892.1.1900.20.1.3

**Description** Defines the index (one-based) of the BMC serial interface.

Syntax DellObjectRange

Access Read-only

1

# **BMC Serial Interface State Capabilities**

Name bmcSerialInterfaceStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.20.1.4

**Description** Defines the state capabilities of the BMC serial interface.

**Syntax** DellStateCapabilities

Access Read-only

# **BMC Serial Interface State Settings**

Name bmcSerialInterfaceStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.20.1.5

**Description** Defines the state settings of the BMC serial interface.

Syntax DellStateSettings

Access Read-write

### **BMC Serial Interface Status**

**Name** bmcSerialInterfaceStatus **ObjectID** 1.3.6.1.4.1.674.10892.1.1900.20.1.6

**Description** Defines the status of the BMC serial interface.

Syntax DellStatus
Access Read-only

### **BMC Serial Interface Channel Number**

Name bmcSerialInterfaceChannelNumber

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.20.1.7

**Description** Defines the BMC channel number of the BMC serial interface.

**Syntax** DellUnsigned8BitRange

# **BMC Serial Interface Connection Mode Capabilities**

Name bmcSerialInterfaceConnectionModeCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.20.1.8

**Description** Defines the connection mode capabilities of the BMC serial

interface.

**Syntax** DellBMCSerialConnectionModeCapabilities

Access Read-only

# **BMC Serial Interface Connection Mode Settings**

Name bmcSerialInterfaceConnectionModeSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.20.1.9

**Description** Defines the connection mode settings of the BMC serial

interface.

**Syntax** DellBMCSerialConnectionModeSettings

**Access** Read-only

#### **BMC Serial Interface Flow Control**

Name bmcSerialInterfaceFlowControl

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.20.1.10

**Description** Defines the flow control type of the BMC serial interface.

Syntax DellBMCSerialFlowControlType

Access Read-only

### **BMC Serial Interface Bit Rate**

Name bmcSerialInterfaceBitRate
ObjectID 1.3.6.1.4.1.674.10892.1.1900.20.1.11

**Description** Defines the bit rate of the BMC serial interface.

**Syntax** DellBMCSerialBitRateType

Access Read-only

1

# **Baseboard Management Controller LAN Interface Table**

Name bmcLANInterfaceTable

Object ID 1.3.6.1.4.1.674.10892.1.1900.30

**Description** Defines the Baseboard Management Controller (BMC) LAN

Interface Table.

**Syntax** SEQUENCE OF BmcLANInterfaceTableEntry

**Access** Not accessible

# **BMC LAN Interface Table Entry**

Name bmcLANInterfaceTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.30.1

**Description** Defines the Baseboard Management Controller (BMC) LAN

Interface Table Entry.

**Syntax** BmcLANInterfaceTableEntry

**Access** Not accessible

Index bmcLANInterfaceChassisIndex, bmcLANInterfaceBMCIndex,

bmcLANInterfaceIndex

### **BMC LAN Interface Chassis Index**

Name bmcLANInterfaceChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.30.1.1

**Description** Defines the index (one-based) of the associated chassis.

**Syntax** DellObjectRange

### **BMC LAN Interface BMC Index**

 Name
 bmcLANInterfaceBMCIndex

 Object ID
 1.3.6.1.4.1.674.10892.1.1900.30.1.2

**Description** Defines the index (one-based) of the associated BMC.

**Syntax** DellObjectRange

Access Read-only

#### **BMC LAN Interface Index**

Name bmcLANInterfaceIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.30.1.3

**Description** Defines the index (one-based) of the BMC LAN interface.

**Syntax** DellObjectRange

Access Read-only

# **BMC LAN Interface State Capabilities**

Name bmcLANInterfaceStateCapabilities

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.30.1.4

**Description** Defines the state capabilities of the BMC LAN interface.

**Syntax** DellStateCapabilities

Access Read-only

# **BMC LAN Interface State Settings**

Name bmcLANInterfaceStateSettings

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.30.1.5

**Description** Defines the state settings of the BMC LAN interface.

Syntax DellStateSettings

Access Read-write

### **BMC LAN Interface Status**

Name bmcLANInterfaceStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.30.1.6

**Description** Defines the status of the BMC LAN interface.

Syntax DellStatus
Access Read-only

### **BMC LAN Interface Channel Number**

Name bmcLANInterfaceChannelNumber

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.30.1.7

**Description** Defines the BMC channel number of the BMC LAN interface.

**Syntax** DellUnsigned8BitRange

Access Read-only

### **BMC LAN Interface IP Address Source**

Name bmcLANInterfaceIPAddressSource

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.30.1.8

**Description** Defines the source type of the IP address of the BMC LAN

interface.

**Syntax** DellBMCLANIPAddressSourceType

Access Read-only

### **BMC LAN Interface IP Address**

 Name
 bmcLANInterfaceIPAddress

 Object ID
 1.3.6.1.4.1.674.10892.1.1900.30.1.9

**Description** Defines the IP address of the BMC LAN interface.

Syntax IpAddress
Access Read-only

### **BMC LAN Interface Subnet Mask Address**

Name bmcLANInterfaceSubnetMaskAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.30.1.10

**Description** Defines the subnet mask of the BMC LAN interface.

Syntax IpAddress
Access Read-only

### **BMC LAN Interface Default Gateway Address**

Name bmcLANInterfaceDefaultGatewayAddress

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.30.1.11

**Description** Defines the IP address of the default gateway for the BMC LAN

interface.

Syntax IpAddress
Access Read-only

### **BMC LAN Interface MAC Address**

 Name
 bmcLANInterfaceMACAddress

 Object ID
 1.3.6.1.4.1.674.10892.1.1900.30.1.12

**Description** Defines the MAC address of the BMC LAN interface.

Syntax DellMACAddress

Access Read-only

# **BMC LAN Interface Alert Community Name**

Name bmcLANInterfaceAlertCommunityName

**Object ID** 1.3.6.1.4.1.674.10892.1.1900.30.1.13

**Description** Defines the SNMP community used for BMC LAN alerts

(traps) sent on the BMC LAN interface.

**Syntax** DisplayString (SIZE (0..32))

# Baseboard Management Controller Group Variable Values

This section includes definitions for server administrator-specific variable values used in this section

Table 21-1. BMC Serial Connection Mode Capabilities

Variable Name: DellBMCSerialConnectionModeCapabilities

Data Type: Integer

These values are bit masks; therefore, combination values are possible.

Possible Data Values	Meaning of Data Value
none(0)	No mode capabilities.
modemBasic(1)	BMC serial interface supports Modem Basic mode.
modemPPP(2)	BMC serial interface supports Modem Point to Point Protocol (PPP) mode.
modemTerminal(4)	BMC serial interface supports Modem Terminal mode.
directBasic(8)	BMC serial interface supports Direct Basic mode.
directPPP(16)	BMC serial interface supports Direct PPP mode.
directTerminal(32)	BMC serial interface supports Direct Terminal mode.

Table 21-2. BMC Serial Connection Mode Settings

Variable Name: DellBMCSerialConnectionModeSettings

Data Type: Integer

These values are bit masks; therefore, combination values are possible.

none(0) No modes enabled.  modemBasic(1) Modem Basic mode is enabled.  modemPPP(2) Modem PPP mode is enabled.	
modemPPP(2) Modem PPP mode is enabled.	
1 2/42 M.l. III : 11 1	
modemTerminal(4) Modem Terminal mode is enabled.	
directBasic(8) Direct Basic mode is enabled.	
directPPP(16) Direct PPP mode is enabled.	
directTerminal(32) Direct Terminal mode is enabled.	

Table 21-3. BMC Serial Flow Control Type

Variable Name: DellBMCSerialFlowControlType

Data Type: Integer

Possible Data Values	Meaning of Data Value
none(0)	No flow control used.
rtscts(1)	RTS/CTS (hardware) flow control used.
xonXoff(2)	XON/XOFF flow control used.

# Table 21-4. BMC Serial Bit Rate Type

Variable Name: DellBMCSerialBitRateType

Data Type: Integer

Possible Data Values	Meaning of Data Value
bps9600(6)	Bit rate is 9600 bps (bits per second)
bps19200(7)	Bit rate is 19200 bps
bps38400(8)	Bit rate is 38400 bps
bps57600(9)	Bit rate is 57600 bps
bps115200(10)	Bit rate is 115200 bps

# Table 21-5. BMC LAN IP Address Source Type

Variable Name: DellBMCLANIPAddressSourceType

Data Type: Integer

Possible Data Values	Meaning of Data Value
unspecified(0)	Source is unspecified.
static(1)	IP address is static.
dhcp(2)	Dynamic Host Configuration Protocol (DHCP) used to obtain IP address.
biosOrSystemSoftware(3)	BIOS or system software provided IP Address.
other(4)	Other protocol used to obtain IP address.

Table 21-6. BMC Management Controller Type

Variable Name: DellManagementControllerType

Data Type: Integer

Possible Data Values	Meaning of Data Value
legacyBMC(0)	Controller type is legacy Baseboard Management Controller.
iDRAC(8)	Controller type is iDRAC.
iDRAC6(10)	Controller type is Integrated Dell Remote Access Controller 6
iDRAC6Modular(11)	Controller type is Integrated Dell Remote Access Controller 6 (Modular)
iDRAC6BMC(13)	Controller type is Integrated Dell Remote Access Controller 6 (BMC mode)

# Field Replaceable Unit Group

A field replaceable unit (FRU) is a part that can be removed and replaced without having to send the system to a repair facility. The Field Replaceable Unit Group provides information about the field replaceable units that may be present in your system.

# Field Replaceable Unit Group Tables

The objects in the FRU group define information such as manufacturer, serial number, part number and revision for field replaceable units. The following MIB tables define the FRU group.

# Field Replaceable Unit Table

Name fruTable

**Object ID** 1.3.6.1.4.1.674.10892.1.2000.10

**Description** Defines the Field Replaceable Unit table.

**Syntax** SEQUENCE OF FruTableEntry

Access Not accessible

# FRU Table Entry

Name fruTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.1.2000.10.1

**Description** Defines the FRU Table Entry.

Syntax FruTableEntry
Access Not accessible

Index fruChassisIndex, fruIndex

### **FRU Chassis Index**

Name fruChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.2000.10.1.1

**Description** Defines the index (one-based) of the chassis containing the

FRU.

**Syntax** DellObjectRange

Access Read-only

### **FRU Index**

Name fruIndex

**Object ID** 1.3.6.1.4.1.674.10892.1.2000.10.1.2

**Description** Defines the index (one-based) of the FRU.

**Syntax** DellObjectRange

Access Read-only

### **FRU Information Status**

Name fruInformationStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.2000.10.1.3

**Description** Defines the status of the FRU table entry.

Syntax DellStatus
Access Read-only

### **FRU Information State**

Name fruInformationState

**Object ID** 1.3.6.1.4.1.674.10892.1.2000.10.1.4

**Description** Defines the state of the FRU information. Some information for

the FRU may not be available if the state is other than ok (1).

**Syntax** DellFRUInformationState

Access Read-only

1

### **FRU Device Name**

Name fruDeviceName

 Object ID
 1.3.6.1.4.1.674.10892.1.2000.10.1.5

 Description
 Defines the device name of the FRU.

**Syntax** DisplayString (SIZE (0..64))

Access Read-only

# **FRU Manufacturer Name**

Name fruManufacturerName

**Object ID** 1.3.6.1.4.1.674.10892.1.2000.10.1.6

**Description** Defines the manufacturer of the FRU.

**Syntax** DisplayString (SIZE (0..64))

Access Read-only

### **FRU Serial Number Name**

Name fruSerialNumberName

**Object ID** 1.3.6.1.4.1.674.10892.1.2000.10.1.7

**Description** Defines the serial number of the FRU.

**Syntax** DisplayString (SIZE (0..64))

Access Read-only

### **FRU Part Number Name**

Name fruPartNumberName

**Object ID** 1.3.6.1.4.1.674.10892.1.2000.10.1.8

**Description** Defines the part number of the FRU

**Syntax** DisplayString (SIZE (0..64))

### **FRU Revision Name**

Name fruRevisionName

 Object ID
 1.3.6.1.4.1.674.10892.1.2000.10.1.9

 Description
 Defines the revision of the FRU.

**Syntax** DisplayString (SIZE (0..64))

Access Read-only

# **FRU Manufacturing Date Name**

Name fruManufacturingDateName

**Object ID** 1.3.6.1.4.1.674.10892.1.2000.10.1.10

**Description** Defines the manufacturing date of the FRU.

**Syntax** DellDateName

Access Read-only

# **FRU Asset Tag Name**

Name fruAssetTagName

**Object ID** 1.3.6.1.4.1.674.10892.1.2000.10.1.11

 $\begin{tabular}{ll} \textbf{Description} & Defines the asset tag of the FRU. \\ \end{tabular}$ 

**Syntax** DisplayString (SIZE (0..64))

Access Read-only

1

# **FRU Group Variable Values**

This section includes definitions for server administrator-specific variable values.

Table 22-1. FRU Information State

Variable Name: DellFRUInformationState

Data Type: Integer

Possible Data Values	Meaning of Data Value
ok(1)	FRU information is okay.
notSupported(2)	FRU information is not supported.
notAvailable(3)	FRU information is not available.
checksumInvalid(4)	FRU information checksum is invalid.
corrupted(5)	FRU information is corrupted.

# **Storage Management Group**

The Storage Management Group is composed of the following:

- Storage Management Group—information about the software product and system status.
- Storage Management Information Group—properties about the Simple Network Management Protocol (SNMP) agent.
- Global Data Group—system status.
- Physical Devices Group—physical devices managed by the software.
- Logical Devices Group—logical devices managed by the software.
- Storage Management Event Group—SNMP traps.

# **Storage Management Group**

The Storage Management Information Base (MIB) Group defines the properties that identify information about the Storage Management software product and the current status of the system it manages.

#### Software Version

Name softwareVersion

**Object ID** 1.3.6.1.4.1.674.10893.1.20.1

**Description** Identifies the version number of the storage management

component of the systems management software.

**Syntax** DisplayString

#### **Global Status**

Name globalStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.2

**Description** Identifies global health for the subsystem managed by the Storage

Management software. This global status is customized for HP

OpenView. Other applications should refer to the

agentSystemGlobalStatus entry in the globalData object group.

Possible values:

Critical
 Warning

3: Normal

4: Unknown

Syntax Integer

Access Read-only

# **Software Manufacturer**

Name softwareManufacturer

**Object ID** 1.3.6.1.4.1.674.10893.1.20.3

**Description** Identifies the manufacturer of the Storage Management software.

Syntax DisplayString
Access Read-only

### **Software Product**

Name softwareProduct

**Object ID** 1.3.6.1.4.1.674.10893.1.20.4

**Description** Identifies product information for the Storage Management

software.

**Syntax** DisplayString

# **Software Description**

Name softwareDescription

ObjectID 1.3.6.1.4.1.674.10893.1.20.5

**Description** Identifies the product description for the Storage Management

software.

Syntax DisplayString
Access Read-only

# Storage Management Information Group

The Storage Management Information MIB Group defines the properties that identify the Storage Management software SNMP agent.

# **Display Name**

Name displayName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.100.1

**Description** Identifies the name of this management software for display

purposes.

Syntax DisplayString
Access Read-only

# **Description**

Name description

**Object ID** 1.3.6.1.4.1.674.10893.1.20.100.2

**Description** Provides a short description of this management software.

**Syntax** DisplayString

# **Agent Vendor**

Name agentVendor

**Object ID** 1.3.6.1.4.1.674.10893.1.20.100.3

**Description** Identifies the name of the management software manufacturer.

**Syntax** DisplayString

Access Read-only

# **Agent Version**

Name agentVersion

**Object ID** 1.3.6.1.4.1.674.10893.1.20.100.4

**Description** This entry is obsolete. Refer to software Version.

**Syntax** DisplayString

Access Read-only

# **Global Data Group**

The Global Data Management Information Base (MIB) Group defines the properties that identify status information about the system that the Storage Management software is managing and about the Storage Management SNMP agent.

# **Agent System Global Status**

Name agentSystemGlobalStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.110.1

**Description** This entry is obsolete. Use the value agentGlobalSystemStatus.

**Syntax** Integer

# **Agent Last Global Status**

Name agentLastGlobalStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.110.2

**Description** This entry is obsolete. Use the value

agentLastGlobalSystemStatus.

Syntax Integer

Access Read-only

# **Agent Time Stamp**

Name agentTimeStamp

**Object ID** 1.3.6.1.4.1.674.10893.1.20.110.3

**Description** Identifies the last time that the agent values have been updated.

Universal time in sec since UTC 1/1/70.

Syntax Integer

Access Read-only

# **Agent Get Timeout**

Name agentGetTimeout

**Object ID** 1.3.6.1.4.1.674.10893.1.20.110.4

**Description** Indicates the suggested timeout value in milliseconds for how long

the SNMP getter should wait while attempting to poll the SNMP

agent.

Syntax Integer

# **Agent Modifiers**

Name agentModifiers

**Object ID** 1.3.6.1.4.1.674.10893.1.20.110.5

**Description** Identifies the agent functional modifiers. When set, the modifier

is active. Bit definitions:

Bit 3: agent in debug mode.

All other bits are product specific.

Syntax Integer

Access Read-only

# **Agent Refresh Rate**

Name agentRefreshRate

**Object ID** 1.3.6.1.4.1.674.10893.1.20.110.6

**Description** Identifies the rate, given in seconds, at which the cached data for

SNMP is refreshed. The default value is 300 seconds, or 5 minutes.

**Syntax** Integer

**Access** Read-only

# **Agent Hostname**

Name agentHostname

**Object ID** 1.3.6.1.4.1.674.10893.1.20.110.7

**Description** This entry is obsolete for Storage Management.

**Syntax** DisplayString

# **Agent IP Address**

Name agentIPAddress

**Object ID** 1.3.6.1.4.1.674.10893.1.20.110.8

**Description** This entry is obsolete for Storage Management.

Syntax DisplayString
Access Read-only

# **Agent Software Status**

Name agentSoftwareStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.110.9

**Description** This entry is obsolete for Storage Management.

**Syntax** DisplayString

Access Read-only

# **Agent SNMP Version**

Name agentSnmpVersion

**Object ID** 1.3.6.1.4.1.674.10893.1.20.110.10

**Description** This entry is obsolete. Refer to 0001 softwareVersion.

**Syntax** DisplayString

Access Read-only

# **Agent MIB Version**

Name agentMibVersion

**Object ID** 1.3.6.1.4.1.674.10893.1.20.110.11

**Description** Identifies the version of the Storage Management MIB.

**Syntax** DisplayString

# **Agent Management Software URL Name**

Name agentManagementSoftwareURLName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.110.12

**Description** Identifies the Universal Resource Locator (URL) of the systems

management software.

Syntax DisplayString

Access Read-only

# **Agent Global System Status**

Name agentGlobalSystemStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.110.13

**Description** Global health information for the subsystem managed by the

Storage Management software. This global status should be used by applications other than HP OpenView. HP OpenView should refer to the globalStatus in the root level object group. This is a rollup for the entire agent including any monitored devices. The status is intended to give initiative to an SNMP monitor to get further data when this status is abnormal. Possible values:

1: Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

Syntax DellStatus

Access Read-only

# **Agent Last Global System Status**

Name agentLastGlobalSystemStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.110.14

**Description** The previous global status of the system managed by the Storage

Management software. Possible values:

1: Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

**Syntax** DellStatus

Access Read-only

# **Agent Smart Thermal Shutdown**

Name agentSmartThermalShutdown

**Object ID** 1.3.6.1.4.1.674.10893.1.20.110.15

**Description** Indicates the status of smart thermal shutdown for PowerVault

220S and PowerVault 221S enclosures.

Possible values:

1: Enabled

2: Disabled

3: Not applicable

Syntax Integer

# **Physical Devices Group**

The Physical Devices MIB group provides information about the devices managed by the Storage Management software and their relationships to each other. The following MIB tables define objects and relationships (connections) among the objects.

- Controller Table—describes available properties for each controller on the managed system.
- Channel Table—describes available properties for each channel on the managed system.
- Enclosure Table—describes available properties for each enclosure on the managed system.
- Array Disk Table—describes available properties for each physical array disk on the managed system.
- Array Disk Enclosure Connection Table—describes the connections
  between Fibre Channel array disks, their enclosure, and their associated
  controller. For each object in the table, its object "number" corresponds to
  an instance number in the appropriate MIB table for that object where all
  of the object properties can be found.
- Array Disk Channel Connection Table—describes the connections
  between SCSI array disks, their channel, and their associated controller.
  For each object in the table, its object "number" corresponds to an
  instance number in the appropriate MIB table for that object where all of
  the object properties can be found.
- Fan Table—describes available properties for each fan on the managed system.
- Fan Connection Table—describes the connection between each fan on the managed system and its enclosure. Each enclosure "number" in the table corresponds to that enclosure instance in the Enclosure Table.
- Power Supply Table—describes available properties for each power supply on the managed system.
- Power Supply Connection Table—describes the connection between each power supply on the managed system and its enclosure. Each enclosure "number" in the table corresponds to that enclosure instance in the Enclosure Table.

- Temperature Probe Table—describes available properties for each temperature probe on the managed system.
- Temperature Probe Connection Table—describes the connection between each temperature probe on the managed system and its enclosure. Each enclosure "number" in the table corresponds to that enclosure instance in the Enclosure Table.
- EMM Table—describes available properties for each Enclosure Management Module (EMM) on the managed system.
- EMM Connection Table—describes the connection between each EMM on the managed system and its enclosure. Each enclosure "number" in the table corresponds to that enclosure instance in the Enclosure Table.
- Battery Table—describes available properties for each controller battery on the managed system.
- Battery Connection Table—describes the connection between each battery on the managed system and its controller. Each controller "number" in the table corresponds to that controller instance in the Controller Table.

### **Controller Table**

This table describes available properties for each controller on the managed system.

The following object sets up the Controller Table.

Name controllerTable

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1

**Description** Defines the controller table, which is a table of managed

Redundant Array of Independent disks (RAID) controllers. The number of entries is related to the number of RAID controllers

discovered in the system.

**Syntax** SEQUENCE OF ControllerEntry

Access Not accessible

# **Controller Entry**

Name controllerEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1

**Description** Defines the controller table entry, which is an entry in the table of

RAID controllers. A row in this table cannot be created or deleted

by SNMP operations on columns of the table.

**Syntax** ControllerEntry

**Access** Not accessible

Index controllerNumber

# **Controller Number**

Name controllerNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.1

**Description** Identifies the instance number of the controller entry.

Syntax Integer

Access Read-only

### **Controller Name**

Name controllerName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.2

**Description** Identifies the name of the controller in this subsystem as

represented in Storage Management. Includes the controller type

and instance. For example: PERC 3/QC 1.

**Syntax** DisplayString

### **Controller Vendor**

Name controllerVendor

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.3

**Description** Identifies the controller's (re)seller's name.

Syntax DisplayString
Access Read-only

# **Controller Type**

Name controllerType

Object ID 1.3.6.1.4.1.674.10893.1.20.130.1.1.4

Description Identifies the type of this controller:

1. SCSI

2: PowerVault 660F3: Power Vault 662F

4: Integrated/Intelligent Drive Electronics (IDE)5: Serial Advanced Technology Architecture (SATA)

6: Serial Attached SCSI (SAS)

Syntax Integer

Access Read-only

### **Controller State**

Name controllerState

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.5

**Description** Identifies the status of the controller's subsystem (which includes

any devices connected to it). Possible states:

0: Unknown

1: Ready

2: Failed

3: Online

4: Offline

6: Degraded

Syntax Integer

Access Read-only

# **Controller Severity**

Name controllerSeverity

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.6

**Description** This entry is obsolete for Storage Management. It was replaced

with RollUpStatus and ComponentStatus for each device.

**Syntax** Integer

Access Read-only

### **Controller Rebuild Rate in Percent**

Name controllerRebuildRateInPercent

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.7

**Description** Identifies the percent of the compute cycles dedicated to

rebuilding failed array disks.

Syntax Integer

### **Controller Firmware Version**

Name controllerFWVersion

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.8

**Description** Identifies the controller's current firmware version.

Syntax DisplayString
Access Read-only

# **Controller Cache Size in Megabytes**

Name controllerCacheSizeInMB

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.9

**Description** Identifies the controller's current amount of cache memory in

megabytes. If this size is 0, it is less than a megabyte.

Syntax Integer

Access Read-only

# **Controller Cache Size in Bytes**

Name controllerCacheSizeInBytes

ObjectID 1.3.6.1.4.1.674.10893.1.20.130.1.1.10

**Description** Identifies the controller's current amount of cache memory that is

less than a megabyte. This combined with the

controllerCacheSizeInMB will be the total amount of memory.

Syntax Integer

Access Read-only

# **Controller Physical Device Count**

Name controllerPhysicalDeviceCount

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.11

**Description** Identifies the number of physical devices on the controller

channel including both disks and the controller.

Syntax Integer

Access Read-only

# **Controller Logical Device Count**

Name controllerLogicalDeviceCount

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.12

**Description** Identifies the number of virtual disks on the controller.

Syntax Integer

Access Read-only

#### Controller Partner Status

Name controllerPartnerStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.13

**Description** This entry is obsolete for Storage Management.

**Syntax** DisplayString

Access Read-only

### **Controller Host Port Count**

Name controllerHostPortCount

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.14

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

Syntax Integer

Access Read-only

# Controller Memory Size in Megabytes

Name controllerMemorySizeInMB

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.15

**Description** Identifies the size of memory in megabytes on the controller. If

this size is 0, it is less than a megabyte. This attribute is only

supported on Adaptec controllers.

Syntax Integer

# **Controller Memory Size in Bytes**

Name controllerMemorySizeInBytes
ObjectID 1.3.6.1.4.1.674.10893.1.20.130.1.1.16

**Description** Identifies the size of memory on the controller that is less than a

 $megabyte. \ This \ combined \ with \ the \ controller Memory Size In MB$ 

will be the total size of the memory. This attribute is only

supported on Adaptec controllers.

Syntax Integer

Access Read-only

#### **Controller Drive Channel Count**

Name controllerDriveChannelCount

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.17

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

Syntax Integer
Access Read-only

## **Controller Fault Tolerant**

Name controllerFaultTolerant

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.18

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

### **Controller CO Port 0 World Wide Name**

Name controllerC0Port0WWN

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.19

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

**Syntax** DisplayString

Access Read-only

### **Controller CO Port 0 Name**

Name controllerC0Port0Name

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.20

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

**Syntax** DisplayString

Access Read-only

### **Controller CO Port 0 ID**

Name controllerC0Port0ID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.21

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

Syntax Integer

Access Read-only

# Controller CO Target

Name controllerC0Target

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.22

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

Syntax Integer

### **Controller CO Channel**

Name controllerCOChannel

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.23

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

Syntax Integer

Access Read-only

## Controller CO Operating System Controller

Name controllerC0OSController

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.24

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

Syntax DisplayString
Access Read-only

# **Controller CO Battery State**

Name controllerCOBatteryState

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.25

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

Syntax Integer

Access Read-only

#### Controller C1 Port 0 World Wide Name

Name controllerC1Port0WWN

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.26

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

**Syntax** DisplayString

## **Controller C1 Port 0 Name**

Name controllerC1Port0Name

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.27

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

**Syntax** DisplayString

Access Read-only

### **Controller C1 Port 0 ID**

Name controllerC1Port0ID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.28

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

Syntax Integer

Access Read-only

# **Controller C1 Target**

Name controllerC1Target

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.29

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

**Syntax** Integer

Access Read-only

#### **Controller C1 Channel**

Name controllerC1Channel

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.30

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

Syntax Integer

# **Controller C1 Operating System Controller**

Name controllerC1OSController
Object ID 1.3.6.1.4.1.674.10893.1.20.130.1.1.31

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

Syntax DisplayString
Access Read-only

# Controller Battery State C1

Name controllerC1BatteryState
ObjectID 1.3.6.1.4.1.674.10893.1.20.130.1.1.32

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

Syntax Integer

Access Read-only

### **Controller Node World Wide Name**

Name controllerNodeWWN

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.33

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

Syntax DisplayString
Access Read-only

#### Controller CO Port 1 World Wide Name

Name controllerC0Port1WWN

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.34

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

Syntax DisplayString
Access Read-only

### **Controller C1 Port 1 World Wide Name**

Name controllerC1Port1WWN

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.35

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

**Syntax** DisplayString

Access Read-only

# **Controller Battery Charge Count**

Name controllerBatteryChargeCount

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.36

**Description** This entry is obsolete. Fibre channel is not supported in Storage

Management.

Syntax Integer

Access Read-only

# **Controller Roll-Up Status**

Name controllerRollUpStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.37

**Description** Indicates severity of the controller state. This is the combined

status of the controller and its components. Possible values:

1: Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

Syntax DellStatus
Access Read-only

### **Controller Component Status**

Name controllerComponentStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.38

**Description** Indicates the status of the controller itself without the propagation

of any contained component status. Possible values:

1: Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

Syntax DellStatus

Access Read-only

# **Controller Nexus ID**

Name controllerNexusID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.39

**Description** Durable unique ID for this controller.

**Syntax** DisplayString

Access Read-only

#### **Controller Alarm State**

Name controllerAlarmState

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.40

**Description** Indicates state, or setting for the controller's alarm. Possible

values:

1: Enabled
2: Disabled

3: Not Applicable

### **Controller Driver Version**

Name controllerDriverVersion

Object ID 1.3.6.1.4.1.674.10893.1.20.130.1.1.41

**Description** Indicates currently installed driver version of the controller

Syntax DisplayString
Access Read-only

#### **Controller PCI Slot**

Name controllerPCISlot

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.42

**Description** Indicates the PCI slot number or embedded number for

controllers on the motherboard

Syntax DisplayString

Access Read-only

### **Controller Cluster Mode**

Name controllerClusterMode

 $\textbf{Object ID} \qquad 1.3.6.1.4.1.674.10893.1.20.130.1.1.43$ 

**Description** Identifies if the controller is in cluster mode.

Possible values:

1: Enabled 2: Disabled

3: Active (enabled and active)

99: Not Applicable

Syntax Integer

Access Read-only

ı

### **Controller Minimum Firmware Version**

Name controllerMinFWVersion

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.44

**Description** The minimum firmware version for Storage Management to

support the controller.

**Syntax** DisplayString

Access Read-only

### **Controller Minimum Driver Version**

Name controllerMinDriverVersion

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.45

**Description** The minimum driver version for Storage Management to support

the controller.

**Syntax** DisplayString

Access Read-write

#### **Controller SCSI Initiator ID**

Name controllerSCSIInitiatorID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.46

**Description** The SCSI ID of the initiator.

Syntax Integer

Access Read-only

## **Controller Channel Count**

Name controllerChannelCount

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.47

**Description** The number of channels on the controller.

#### **Controller Reconstruct Rate**

 Name
 controllerReconstructRate

 Object ID
 1.3.6.1.4.1.674.10893.1.20.130.1.1.48

**Description** The rate for reconstruct on the controller.

Syntax Integer
Access Read-write

#### Controller Patrol Read Rate

Name controllerPatrolReadRate

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.49

**Description** The rate for patrol read on the controller.

Syntax Integer
Access Read-only

#### Controller BGI Rate

Name controllerBGIRate

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.50

**Description** The rate for background initialization on the controller.

Syntax Integer

Access Read-only

# **Controller Check Consistency Rate**

Name controllerCheckConsistencyRate

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.51

**Description** The rate for check consistency on the controller.

Syntax Integer
Access Read-only

ı

#### **Controller Patrol Read Mode**

Name controllerPatrolReadMode
Object ID 1.3.6.1.4.1.674.10893.1.20.130.1.1.52

**Description** Identifies the patrol read mode.

Possible values:

1: Automatic (enabled)
2: Manual (enabled)

3: Disabled

Syntax Integer

Access Read-only

#### **Controller Patrol Read State**

Name controllerPatrolReadState

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.53

**Description** The state of the patrol read.

Possible values:

Stopped - not running
 Ready - ready to start
 Active - is running
 Aborted - has aborted

Syntax Integer

Access Read-only

### **Controller Patrol Read Iterations**

Name controllerPatrolReadIterations

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.1.1.54

**Description** The number of times Patrol Read has been run on this controller.

### **Channel Table**

This table describes available properties for each channel on the managed system.

The following object sets up the Channel Table.

Name channelTable

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.2

**Description** Defines the channel table.

**Syntax** SEQUENCE OF ChannelEntry

**Access** Not accessible

# **Channel Entry**

Name channelEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.2.1

**Description** Defines the channel table entry.

Syntax ChannelEntry
Access Not accessible
Index: channelNumber

**Channel Number** 

Name channel Number

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.2.1.1

**Description** Identifies the instance number of the channel entry.

Syntax Integer

Access Read-only

1

#### **Channel Name**

Name channelName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.2.1.2

**Description** Identifies the name of the channel as represented in Storage

Management. The name will include the word channel and the

instance. For example: Channel 1.

**Syntax** DisplayString

Access Read-only

### **Channel State**

Name channelState

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.2.1.3

**Description** Identifies the current state of this channel. Possible states:

0: Unknown

1: Ready - The I/O has resumed.

2: Failed3: Online

4: Offline - The I/O has paused.

6: Degraded

Syntax Integer

Access Read-only

# **Channel Severity**

Name channelSeverity

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.2.1.4

**Description** This entry is obsolete for Storage Management. It was replaced

with RollUpStatus and ComponentStatus for each device.

Syntax Integer

## **Channel Termination**

Name channelTermination

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.2.1.5

**Description** Identifies the type of SCSI termination on this channel.

Termination is required for proper operation of this channel.

Possible values:

Wide Termination (16 bit)
 Narrow Termination (8 bit)

3: Not Terminated

Syntax Integer

Access Read-only

#### **Channel SCSI ID**

Name channelSCSIID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.2.1.6

**Description** Identifies the SCSI ID of the controller to which the channel

belongs.

Syntax Integer

Access Read-only

1

# **Channel Roll-Up Status**

Name channelRollUpStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.2.1.7

**Description** Identifies the severity of the channel state. This is the combined

status of the channel and its components. Possible values:

1: Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

Syntax DellStatus

Access Read-only

# **Channel Component Status**

Name channelComponentStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.2.1.8

**Description** The status of the channel itself without the propagation of any

contained component status. Possible values:

1: Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

Syntax DellStatus

#### **Channel Nexus ID**

Name channelNexusID

 Object ID
 1.3.6.1.4.1.674.10893.1.20.130.2.1.9

 Description
 Durable unique ID for this channel.

**Syntax** DisplayString

Access Read-only

#### **Channel Data Rate**

Name channelDataRate

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.2.1.10

**Description** Identifies the data rate of this channel.

Syntax DisplayString

Access Read-only

# **Channel Bus Type**

Name channelBusType

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.2.1.11

**Description** The bus type of the channel. Possible values:

1: SCSI

2: IDE

3: Fibre Channel

4: Serial Storage Architecture (SSA)

6: Universal Serial Bus (USB)

7: SATA

8: SAS

Syntax Integer

Access Read-only

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### **Enclosure Table**

This table describes available properties for each enclosure on the managed system.

The following object sets up the Enclosure Table.

Name enclosureTable

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3

**Description** Defines the enclosure table.

**Syntax** SEQUENCE OF EnclosureEntry

**Access** Not accessible

# **Enclosure Entry**

Name enclosureEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1

**Description** Defines the enclosure table entry.

Syntax EnclosureEntry
Access Not accessible

Index enclosureNumber

### **Enclosure Number**

Name enclosureNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.1

**Description** Identifies the instance number of the enclosure entry.

#### **Enclosure Name**

Name enclosureName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.2

**Description** Identifies the enclosure's name as represented in Storage

Management.

**Syntax** DisplayString

Access Read-only

#### **Enclosure Vendor**

Name enclosureVendor

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.3

**Description** Identifies the enclosure's (re)seller's name.

**Syntax** DisplayString

Access Read-only

#### **Enclosure State**

Name enclosureState

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.4

**Description** The current condition of the enclosure (which includes any devices

connected to it.) Possible values:

0: Unknown

1: Ready

2: Failed

3: Online

4: Offline

6: Degraded

**Syntax** Integer

Access Read-only

ı

### **Enclosure Severity**

Name enclosureSeverity

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.5

**Description** This entry is obsolete for Storage Management. It was replaced

with RollUpStatus and ComponentStatus for each device.

**Syntax** Integer

Access Read-only

#### **Enclosure ID**

Name enclosureID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.6

**Description** Identifies the SCSI address of the processor.

Syntax Integer

Access Read-only

#### **Enclosure Processor Version**

Name enclosureProcessorVersion

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.7

**Description** This entry is obsolete for Storage Management.

Syntax DisplayString

Access Read-only

# **Enclosure Service Tag**

Name enclosureServiceTag

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.8

**Description** The enclosure identification used when consulting customer

support.

**Syntax** DisplayString

### **Enclosure Asset Tag**

Name enclosureAssetTag

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.9

**Description** Customer definable asset tag for the enclosure.

**Syntax** DisplayString

Access Read-only

#### **Enclosure Asset Name**

Name enclosureAssetName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.10

**Description** Customer definable asset name of the enclosure.

**Syntax** DisplayString

Access Read-only

# **Enclosure Split Bus Part Number**

Name enclosureSplitBusPartNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.11

**Description** Identifies the enclosure's split bus part number.

**Syntax** DisplayString

Access Read-only

#### **Enclosure Product ID**

Name enclosureProductID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.12

**Description** Identifies the enclosure's product identification. This also

corresponds to the enclosure type.

**Syntax** DisplayString

Access Read-only

1

### **Enclosure Kernel Version**

Name enclosureKernelVersion

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.13

**Description** This entry is obsolete for Storage Management.

Syntax DisplayString
Access Read-only

### **Enclosure ESM1 Part Number**

Name enclosureESM1PartNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.14

**Description** This entry is obsolete for Storage Management.

**Syntax** DisplayString

Access Read-only

### **Enclosure ESM2 Part Number**

Name enclosureESM2PartNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.15

**Description** This entry is obsolete for Storage Management.

Syntax DisplayString

# **Enclosure Type**

Name enclosureType

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.16

**Description** Indicates the type of the enclosure. Possible values:

1: Internal

2: Dell™ PowerVault™ 200S (PowerVault 201S)
3: Dell PowerVault 210S (PowerVault 211S)
4: Dell PowerVault 220S (PowerVault 221S)

5: Dell PowerVault 660F6: Dell PowerVault 224F

7: Dell PowerVault 660F/PowerVault 224F

8: Dell MD1000 9: Dell MD1120

Syntax DisplayString
Access Read-only

### **Enclosure Processor2 Version**

Name enclosureProcessor2Version
Object ID 1.3.6.1.4.1.674.10893.1.20.130.3.1.17

**Description** This entry is obsolete for Storage Management.

Syntax DisplayString
Access Read-only

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### **Enclosure Configuration**

Name enclosureConfig

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.18

**Description** Identifies the current configuration of the enclosure's backplane.

Possible values:

Joined
 Split Bus
 Clustered
 Unified

Syntax Integer

Access Read-only

### **Enclosure Channel Number**

Name enclosureChannelNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.19

**Description** Identifies the channel number, or bus, to which the enclosure is

connected.

Syntax Integer
Access Read-only

### **Enclosure Alarm**

Name enclosureAlarm

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.20

**Description** Identifies the current status of the enclosure's alarm (PowerVault

220S and PowerVault 221S only.) Possible values:

Disabled
 Enabled

Integer

Access Read-only

**Syntax** 

### **Enclosure Backplane Part Number**

Name enclosureBackplanePartNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.21

**Description** Identifies the part number of the enclosure's backplane.

Syntax Integer
Access Read-only

#### **Enclosure SCSI ID**

Name enclosureSCSIID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.22

**Description** Identifies the SCSI ID of the controller to which this enclosure is

attached.

Syntax Integer
Access Read-only

# **Enclosure Roll-Up Status**

Name enclosureRollUpStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.23

**Description** Identifies the severity of the enclosure state. This is the combined

status of the enclosure and its components. Possible values:

1. Other

2: Unknown

3. OK

4: Non-critical

5: Critical

6: Non-recoverable

Syntax DellStatus
Access Read-only

1

### **Enclosure Component Status**

Name enclosureComponentStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.24

**Description** The status of the enclosure itself without the propagation of any

contained component status. Possible values:

1: Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

**Syntax** DellStatus

Access Read-only

### **Enclosure Nexus ID**

Name enclosureNexusID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.25

**Description** Durable unique ID for this enclosure.

Syntax Integer
Access Read-only

### **Enclosure FirmWare Version**

Name enclosureFirmwareVersion

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.26

**Description** The firmware version of the enclosure.

**Syntax** DisplayString

### **Enclosure SCSI Rate**

Name enclosureSCSIRate

 Object ID
 1.3.6.1.4.1.674.10893.1.20.130.3.1.27

 Description
 Actual SCSI rate in the enclosure.

Syntax DisplayString

Access Read-only

#### **Enclosure Part Number**

Name enclosurePartNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.28

**Description** The part number of the enclosure.

Syntax DisplayString

Access Read-only

### **Enclosure Serial Number**

Name enclosureSerialNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.29

**Description** Serial number of the enclosure.

**Syntax** DisplayString

Access Read-only

#### **Enclosure SAS Address**

Name enclosureSASAddress

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.3.1.30

**Description** The specified SAS address if this is a SAS enclosure.

Syntax DisplayString

Access Read-only

1

# **Array Disk Table**

This table describes available properties for each physical array disk on the managed system.

The following object sets up the Array Disk Table.

Name arrayDiskTable

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4

**Description** Defines the array disk table.

**Syntax** SEQUENCE OF ArrayDiskEntry

**Access** Not accessible

# **Array Disk Entry**

Name arrayDiskEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1

**Description** Defines the array disk table entry.

Syntax ArrayDiskEntry
Access Not accessible

**Index** arrayDiskNumber

# **Array Disk Number**

Name arrayDiskNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.1

**Description** Identifies the instance number of the array disk entry.

# **Array Disk Name**

Name arrayDiskName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.2

**Description** Identifies the name of the array disk as represented in Storage

Management.

**Syntax** DisplayString

**Access** Read-only

# **Array Disk Vendor**

Name arrayDiskVendor

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.3

**Description** The array disk's manufacturer's name.

Syntax DisplayString

Access Read-only

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### **Array Disk State**

Name arrayDiskState

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.4

**Description** Identifies the current state of the array disk. Possible states:

0: Unknown

1: Ready - Available for use, but no RAID configuration has been assigned.

2: Failed - Not operational.

3: Online - Operational. RAID configuration has been assigned.

4: Offline - The drive is not available to the RAID controller.

Degraded - Refers to a fault-tolerant array/virtual disk that has a failed disk.

7: Recovering - Refers to state of recovering from bad blocks on disks.

11: Removed - Indicates that array disk has been removed.

15: Resynching - Indicates one of the following types of disk operations: Transform Type, Reconfiguration, and Check Consistency.

24: Rebuild

25: No Media - CD-ROM or removable disk has no media.

26: Formatting - In the process of formatting.

28: Diagnostics - Diagnostics are running.

34: Predictive Failure

35: Initializing: Applies only to virtual disks on PERC, PERC

2/SC, and PERC 2/DC controllers.

39: Foreign

40: Clear

41: Unsupported

53: Incompatible

**Syntax** Integer

# **Array Disk Severity**

Name arrayDiskSeverity

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.5

**Description** This entry is obsolete for Storage Management. It was replaced

with RollUpStatus and ComponentStatus for each device.

Syntax Integer

Access Read-only

### **Array Disk Product ID**

Name arrayDiskProductID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.6

**Description** Identifies the model number of the array disk.

Syntax DisplayString

**Access** Read-only

# Array Disk Serial Number

Name arrayDiskSerialNo

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.7

**Description** Identifies the array disk's unique identification number from the

manufacturer.

**Syntax** DisplayString

Access Read-only

# **Array Disk Revision**

Name arrayDiskRevision

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.8

**Description** Identifies the firmware version of the array disk.

Syntax DisplayString

# **Array Disk Enclosure ID**

Name arrayDiskEnclosureID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.9

**Description** Identifies the SCSI ID of the enclosure processor to which this

array disk belongs.

**Syntax** DisplayString

Access Read-only

## **Array Disk Channel**

Name arrayDiskChannel

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.10

**Description** Identifies the bus to which this array disk is connected.

Syntax Integer

Access Read-only

# **Array Disk Length in Megabytes**

Name arrayDiskLengthInMB

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.11

**Description** Identifies the size in megabytes of the array disk. If this size is 0, it

is smaller than a megabyte.

Syntax Integer

Access Read-only

# **Array Disk Length in Bytes**

Name arrayDiskLengthInBytes

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.12

**Description** Identifies the size of the array disk in bytes that is less than a

megabyte. This size plus the arrayDiskLengthInMB is the total

size of the array disk.

# **Array Disk Largest Contiguous Free Space in Megabytes**

Name arrayDiskLargestContiguousFreeSpaceInMB

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.13

**Description** The size in megabytes of the largest contiguous free space on the

array disk. If this size is 0, it is less than a megabyte.

Syntax Integer
Access Read-only

## **Array Disk Largest Contiguous Free Space in Bytes**

Name arrayDiskLargestContiguousFreeSpaceInBytes

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.14

**Description** The size of the largest contiguous free space on this array disk in

bytes that is less than a megabyte. This size plus the

arrayDiskLargestContiguousFreeSpaceInMB is the total size of

the largest contiguous free space on the array disk.

**Syntax** Integer

**Access** Read-only

# **Array Disk Target ID**

Name arrayDiskTargetID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.15

**Description** Identifies the SCSI target ID which this array disk is assigned.

Syntax Integer

Access Read-only

### Array Disk LUN ID

Name arrayDiskLunID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.16

**Description** Identifies the array disk's logical unit number.

# **Array Disk Used Space in Megabytes**

Name arrayDiskUsedSpaceInMB

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.17

**Description** Identifies the amount in megabytes of the used space on the array

disk. If this size is 0, it is smaller than a megabyte.

Syntax Integer

Access Read-only

### **Array Disk Used Space in Bytes**

Name arrayDiskUsedSpaceInBytes

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.18

**Description** Identifies the size in bytes of the used space on the array disk that

is smaller than a megabyte. This size plus the

arrayDiskUsedSpaceInMB is the total amount of used space on

the array disk.

Syntax Integer
Access Read-only

# Array Disk Free Space in Megabytes

Name arrayDiskFreeSpaceInMB

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.19

**Description** Identifies the amount in megabytes of the free space on the array

disk. If this size is 0, it is smaller than a megabyte.

# **Array Disk Free Space in Bytes**

Name arrayDiskFreeSpaceInBytes
ObjectID 1.3.6.1.4.1.674.10893.1.20.130.4.1.20

**Description** Identifies the size in bytes of the free space on the array disk that is

smaller than a megabyte. This size plus the

arrayDiskFreeSpaceInMB is the total amount of free space on the

array disk.

Syntax Integer
Access Read-only

# **Array Disk Bus Type**

Name arrayDiskBusType

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.21

**Description** Identifies the bus type of the array disk. Possible values:

1: SCSI 2· IDE

3: Fibre Channel

4: SSA 6: USB 7: SATA 8: SAS

Syntax Integer

Access Read-only

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# **Array Disk Spare State**

Name arrayDiskSpareState

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.22

**Description** Identifies the status of the array disk as a spare. Possible states:

Disk is a member of a virtual disk
 Disk is a member of a disk group

3: Disk is a global hot spare4: Disk is a dedicated hot spare

5: Not a spare

99: Not applicable

Syntax Integer
Access Read-only

# **Array Disk Roll-Up Status**

Name arrayDiskRollUpStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.23

**Description** Severity of the array disk state. This is the combined status of the

array disk and its components. Possible values:

1: Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

Syntax DellStatus

### **Array Disk Component Status**

Name arrayDiskComponentStatus

Object ID 1.3.6.1.4.1.674.10893.1.20.130.4.1.24

**Description** The status of the array disk itself without the propagation of any

contained component status. Possible values:

1: Other 2: Unknown 3: OK

4: Non-critical5: Critical

6: Non-recoverable

Syntax DellStatus
Access Read-only

# **Array Disk Device Name**

Name arrayDiskDeviceName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.25

**Description** Identifies the operating system device name for this disk.

Syntax DisplayString
Access Read-only

# **Array Disk Nexus ID**

Name arrayDiskNexusID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.26

**Description** Indicates the durable unique ID for this array disk.

Syntax DisplayString
Access Read-only

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### **Array Disk Part Number**

Name arrayDiskPartNumber

 Object ID
 1.3.6.1.4.1.674.10893.1.20.130.4.1.27

 Description
 Indicates the part number of the disk.

Syntax DisplayString
Access Read-only

### **Array Disk SAS Address**

Name arrayDiskSASAddress

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.28

**Description** Indicates the specified SAS address if this is a SAS disk.

Syntax DisplayString
Access Read-only

### **Array Disk Negotiated Speed**

Name arrayDiskNegotiatedSpeed
ObjectID 1.3.6.1.4.1.674.10893.1.20.130.4.1.29

**Description** Indicates the speed at which the drive is actually running in MPS

(megabytes per second).

Syntax Integer
Access Read-only

# **Array Disk Capable Speed**

Name arrayDiskCapableSpeed

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.30

**Description** Indicates the maximum speed at which the drive is capable of

negotiating in MPS (megabytes per second).

### **Array Disk Smart Alert Indication**

Name arrayDiskSmartAlertIndication

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.31

**Description** Indicates whether the disk has received a predictive failure.

Possible values:

1: No - disk has not received a predictive failure alert

2: Yes - disk has received a predictive failure alert

Syntax Integer

Access Read-only

### **Array Disk Manufacture Day**

Name arrayDiskManufactureDay

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.32

**Description** Indicates the day of the week (1=Sunday through 7=Saturday) on

which this disk was manufactured.

**Syntax** DisplayString

Access Read-only

# Array Disk Manufacture Week

Name arrayDiskManufactureWeek

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.4.1.33

**Description** Indicates the week (1 through 53) in which this disk was

manufactured.

**Syntax** DisplayString

### **Array Disk Manufacture Year**

Name arrayDiskManufactureYear Object ID 1.3.6.1.4.1.674.10893.1.20.130.4.1.34

**Description** Indicates the four digit year in which this disk was manufactured.

Syntax DisplayString Access Read-only

#### Array Disk Media Type

Name arrayDiskMediaType

Object ID 1.3.6.1.4.1.674.10893.1.20.130.4.1.35

**Description** Indicates the media type of the array disk.

**Syntax** INTEGER Access Read-only

# Array Disk Enclosure Connection Table

This table describes the connections among array disks, their enclosure, and their associated controller. For each object in the table, its object "number" corresponds to an instance number in the appropriate MIB table for that object where all of the object properties can be found.



**NOTE:** Only array disks that are part of an enclosure will be listed in this table. Backplanes are considered enclosures by Storage Management.

The following object sets up the Array Disk Enclosure Connection Table.

Name arrayDiskEnclosureConnectionTable

Object ID 1.3.6.1.4.1.674.10893.1.20.130.5

**Description** Defines the array disk enclosure connection table.

Syntax SEQUENCE OF ArrayDiskEnclosureConnectionEntry

Access Not accessible

### **Array Disk Enclosure Connection Entry**

Name arrayDiskEnclosureConnectionEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.5.1

**Description** Defines the array disk enclosure connection table entry.

**Syntax** ArrayDiskEnclosureConnectionEntry

**Access** Not accessible

Index arrayDiskEnclosureConnectionNumber

#### **Array Disk Enclosure Connection Number**

Name arrayDiskEnclosureConnectionNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.5.1.1

**Description** Identifies the instance number of the array disk enclosure

connection entry.

Syntax Integer

Access Read-only

# **Array Disk Enclosure Connection Array Disk Name**

Name arrayDiskEnclosureConnectionArrayDiskName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.5.1.2

**Description** Identifies the name of the array disk in this connection as

represented in Storage Management.

Syntax DisplayString
Access Read-only

### **Array Disk Enclosure Connection Array Disk Number**

Name arrayDiskEnclosureConnectionArrayDiskNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.5.1.3

**Description** Identifies the instance number of the array disk in the

arrayDiskTable in this connection.

Syntax Integer

Access Read-only

### **Array Disk Enclosure Connection Enclosure Name**

Name arrayDiskEnclosureConnectionEnclosureName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.5.1.4

**Description** Identifies the name of the enclosure as represented in Storage

Management to which this array disk belongs.

Syntax DisplayString
Access Read-only

## **Array Disk Enclosure Connection Enclosure Number**

Name arrayDiskEnclosureConnectionEnclosureNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.5.1.5

**Description** Identifies the instance number in the enclosure Table of the

enclosure to which this array disk belongs.

#### **Array Disk Enclosure Connection Controller Name**

Name arrayDiskEnclosureConnectionControllerName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.5.1.6

Description Identifies the name of the controller as represented in Storage

Management to which this array disk is connected.

Svntax DisplayString

Access Read-only

## **Array Disk Enclosure Connection Controller Number**

Name arrayDiskEnclosureConnectionControllerNumber

Object ID 1.3.6.1.4.1.674.10893.1.20.130.5.1.7

Description Identifies the instance number in the controller Table of the

controller to which this array disk is connected.

**Syntax** Integer Access Read-only

# **Array Disk Channel Connection Table**

This table describes the connections between array disks, their channel, and their associated controller. For each object in the table, its object "number" corresponds to an instance number in the appropriate MIB table for that object where all of the object properties can be found.



**NOTE:** Only array disks that are NOT part of an enclosure will be listed in this table. Backplanes are considered enclosures by Storage Management.

The following object sets up the Array Disk Channel Connection Table.

Name arrayDiskChannelConnectionTable

Object ID 1.3.6.1.4.1.674.10893.1.20.130.6

Description Defines the array disk channel connection table.

**Syntax** SEQUENCE OF ArrayDiskChannelConnectionEntry

Access Not accessible

### **Array Disk Channel Connection Entry**

Name arrayDiskChannelConnectionEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.6.1

**Description** Defines the array disk channel connection table entry.

**Syntax** ArrayDiskChannelConnectionEntry

**Access** Not accessible

Index arrayDiskEnclosureConnectionNumber

### **Array Disk Channel Connection Number**

Name arrayDiskChannelConnectionNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.6.1.1

**Description** Identifies the instance number of the array disk channel

connection entry.

Syntax Integer

Access Read-only

# **Array Disk Channel Connection Array Disk Name**

Name arrayDiskChannelConnectionArrayDiskName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.6.1.2

**Description** Identifies the name of the array disk in this connection as

represented in Storage Management.

Syntax DisplayString
Access Read-only

# **Array Disk Channel Connection Array Disk Number**

Name arrayDiskChannelConnectionArrayDiskNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.6.1.3

**Description** Identifies the instance number of the array disk in the

arrayDiskTable in this connection.

### **Array Disk Channel Connection Channel Name**

Name arrayDiskChannelConnectionChannelName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.6.1.4

**Description** Identifies the name of the channel as represented in Storage

Management to which is array disk is connected.

Syntax DisplayString

Access Read-only

### **Array Disk Channel Connection Channel Number**

Name arrayDiskChannelConnectionChannelNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.6.1.5

**Description** Identifies the instance number of the channel in the channel Table

to which this array disk is connected.

Syntax Integer
Access Read-only

### **Array Disk Channel Connection Controller Name**

Name arrayDiskChannelConnectionControllerName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.6.1.6

**Description** Identifies the name of the controller as represented in Storage

Management to which this array disk is connected.

**Syntax** DisplayString

Access Read-only

# **Array Disk Channel Connection Controller Number**

Name arrayDiskChannelConnectionControllerNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.6.1.7

**Description** Identifies the instance number in the controller Table of the

controller to which this array disk is connected.

#### **Fan Table**

This table describes available properties for each fan on the managed system. The following object sets up the Fan Table.

Name fanTable

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7

**Description** Defines the fan table.

**Syntax** SEQUENCE OF FanEntry

**Access** Not accessible

# **Fan Entry**

Name fanEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1

**Description** Defines the fan table entry.

**Syntax** FanEntry

Access Not accessible Index fanNumber

#### **Fan Number**

Name fanNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1.1

**Description** Identifies the instance number of the fan entry.

#### **Fan Name**

Name Fan Name

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1.2

**Description** Identifies the fan's name as represented in Storage Management.

Syntax DisplayString

Access Read-only

#### Fan Vendor

Name fanVendor

 $\textbf{Object ID} \qquad 1.3.6.1.4.1.674.10893.1.20.130.7.1.3$ 

**Description** Identifies the fan's (re)seller's name.

Syntax DisplayString

Access Read-only

#### **Fan State**

Name fanState

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1.4

**Description** Identifies the current state of the fan. Possible states:

0: Unknown

1: Ready

2: Failed

3: Online

4: Offline

6: Degraded

21: Missing

Syntax Integer

Access Read-only

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### **Fan Severity**

Name fanSeverity

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1.5

**Description** This entry is obsolete for Storage Management. It was replaced

with RollUpStatus and ComponentStatus for each device.

Syntax Integer

Access Read-only

#### **Fan Probe Unit**

Name fanProbeUnit

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1.6

**Description** This entry is obsolete for Storage Services.

**Syntax** DisplayString

Access Read-only

# Fan Probe Minimum Warning

Name fanProbeMinimumWarning

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1.7

**Description** This entry is obsolete. This setting is not supported by fans

managed under Storage Management.

**Syntax** DisplayString

Access Read-only

#### **Fan Probe Minimum Critical**

Name fanProbeMinimumCritical

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1.8

**Description** This entry is obsolete. This setting is not supported by fans

managed under Storage Management.

Syntax DisplayString

### **Fan Probe Maximum Warning**

Name fanProbeMaximumWarning

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1.9

**Description** This entry is obsolete. This setting is not supported by fans

managed under Storage Management.

**Syntax** DisplayString

Access Read-only

#### **Fan Probe Maximum Critical**

Name fanProbeMaximumCritical

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1.10

**Description** This entry is obsolete. This setting is not supported by fans

managed under Storage Management.

**Syntax** DisplayString

Access Read-only

#### **Fan Probe Current Value**

Name fanProbeCurrValue

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1.11

**Description** Identifies the current speed of the fan.

**Syntax** DisplayString

Access Read-only

#### **Fan1 Part Number**

Name fan1PartNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1.12

**Description** Identifies the part number of the fan in the enclosure.

**Syntax** DisplayString

#### **Fan 2 Part Number**

Name fan2PartNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1.13

**Description** This entry is obsolete. This setting is not supported by fans

managed under Storage Management.

Syntax DisplayString

Access Read-only

## **Fan Roll-Up Status**

Name fanRollUpStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1.14

**Description** Severity of the fan state. This is the combined status of the fan

and its components. Possible values:

1: Other

2: Unknown

3. OK

4: Non-critical

5: Critical

6: Non-recoverable

**Syntax** DellStatus

#### **Fan Component Status**

Name fanComponentStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1.15

**Description** The status of the fan itself without the propagation of any

contained component status. Possible values:

1: Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

**Syntax** DellStatus

**Access** Read-only

#### **Fan Nexus ID**

Name fanNexusID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1.16

**Description** Durable unique ID for this fan.

**Syntax** DisplayString

**Access** Read-only

#### **Fan Revision**

Name fanRevision

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.7.1.17

**Description** Indicates the revision number of the fan in the enclosure.

**Syntax** DisplayString

Access Read-only

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#### **Fan Connection Table**

This table describes the connection between each fan on the managed system and its enclosure. Each enclosure "number" in the table corresponds to that enclosure instance in the enclosure Table.

The following object sets up the Fan Connection Table.

Name fanConnectionTable

Object ID fanConnectionTable

**Description** Defines the fan connection table.

**Syntax** SEQUENCE OF FanConnectionEntry

**Access** Not accessible

### **Fan Connection Entry**

Name fanConnectionEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.8.1

**Description** Defines the fan connection table entry.

**Syntax** FanConnectionEntry

**Access** Not accessible

Index fanConnectionNumber

#### **Fan Connection Number**

Name fanConnectionNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.8.1.1

**Description** Identifies the instance number of the fan connection entry.

Syntax Integer

#### **Fan Connection Fan Name**

Name fanConnectionFanName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.8.1.2

**Description** Identifies the name of the fan in this connection as represented in

Storage Management.

**Syntax** DisplayString

Access Read-only

#### **Fan Connection Fan Number**

Name fanConnectionFanNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.8.1.3

**Description** Identifies the instance number of the fan in the fanTable in the

connection.

Syntax Integer

Access Read-only

### **Fan Connection Enclosure Name**

Name fanConnectionEnclosureName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.8.1.4

**Description** Identifies the name of the enclosure as represented in Storage

Management to which this fan belongs.

**Syntax** DisplayString

Access Read-only

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#### **Fan Connection Enclosure Number**

Name fanConnectionEnclosureNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.8.1.5

**Description** Identifies the instance number of the enclosure in the

enclosure Table to which this fan belongs.

Syntax Integer

Access Read-only

# **Power Supply Table**

This table describes available properties for each power supply on the managed system.

The following object sets up the Power Supply Table.

Name powerSupplyTable

 Object ID
 1.3.6.1.4.1.674.10893.1.20.130.9

 Description
 Defines the power supply table.

**Syntax** SEQUENCE OF PowerSupplyEntry

**Access** Not accessible

# **Power Supply Entry**

Name powerSupplyEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.9.1

**Description** Defines the power supply table entry.

**Syntax** PowerSupplyEntry

**Access** Not accessible

Index powerSupplyNumber

### **Power Supply Number**

Name powerSupplyNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.9.1.1

**Description** Identifies the instance number of the power supply entry.

Syntax Integer

Access Read-only

### **Power Supply Name**

Name powerSupplyName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.9.1.2

**Description** Identifies the power supply's name as represented in Storage

Management.

**Syntax** DisplayString

Access Read-only

## **Power Supply Vendor**

Name powerSupplyVendor

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.9.1.3

**Description** Identifies the power supply's (re)seller's name.

Syntax DisplayString

### **Power Supply State**

Name powerSupplyState

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.9.1.4

**Description** Identifies the current state of the power supply. Possible states:

0: Unknown 1: Ready 2: Failed

5: Not Installed6: Degraded11: Removed

Syntax Integer
Access Read-only

### **Power Supply Severity**

Name powerSupplySeverity

**Object ID** 1,3.6.1.4.1.674.10893.1.20.130.9.1.5

**Description** This entry is obsolete for Storage Management. It was replaced

with RollUpStatus and ComponentStatus for each device.

Syntax Integer
Access Read-only

# **Power Supply 1 Part Number**

Name powerSupply1PartNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.9.1.6

**Description** Identifies the part number of the power supply of the enclosure.

Syntax DisplayString

### **Power Supply 2 Part Number**

Name powerSupply2PartNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.9.1.7

**Description** This entry is obsolete. This setting is not supported by power

supplies managed under Storage Management

**Syntax** DisplayString

Access Read-only

### **Power Supply Roll-Up Status**

Name powerSupplyRollUpStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.9.1.8

**Description** Severity of the power supply state. This is the combined status of

the power supply and its components. Possible values:

1: Other

2: Unknown

3. OK

4: Non-critical

5: Critical

6: Non-recoverable

Syntax DellStatus

### **Power Supply Component Status**

Name powerSupplyComponentStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.9.1.9

**Description** Severity of the power supply state. This is the combined status of

the power supply and its components. Possible values:

1: Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

**Syntax** DellStatus

Access Read-only

## **Power Supply NexusID**

Name powerSupplyNexusID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.9.1.10

**Description** Durable unique ID for this power supply.

Syntax DisplayString
Access Read-only

# **Power Supply Revision**

Name powerSupplyRevision

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.9.1.11

**Description** Indicates the revision number of the power supply in the

enclosure.

Syntax DisplayString

# **Power Supply Connection Table**

This table describes the connection between each power supply on the managed system and its enclosure. Each enclosure "number" in the table corresponds to that enclosure instance in the enclosure Table.

The following object sets up the Power Supply Connection Table.

Name powerSupplyConnectionTable

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.10

**Description** Defines the power supply connection table.

**Syntax** SEQUENCE OF PowerSupplyConnectionEntry

**Access** Not accessible

### **Power Supply Connection Entry**

Name powerSupplyConnectionEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.10.1

**Description** Defines the power supply connection table entry.

**Syntax** PowerSupplyConnectionEntry

**Access** Not accessible

Index powerSupplyConnectionNumber

# **Power Supply Connection Number**

Name powerSupplyConnectionNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.10.1.1

**Description** Identifies the instance number of the power supply connection

entry.

### **Power Supply Connection Power Supply Name**

Name powerSupplyConnectionPowerSupplyName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.10.1.2

**Description** Identifies the name of the power supply in this connection as

represented in Storage Management.

**Syntax** DisplayString

Access Read-only

### **Power Supply Connection Power Supply Number**

Name powerSupplyConnectionPowerSupplyNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.10.1.3

**Description** Identifies the instance number of the power supply in the

powerSupplyTable in the connection.

Syntax Integer

Access Read-only

# **Power Supply Connection Enclosure Name**

Name powerSupplyConnectionEnclosureName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.10.1.4

**Description** Identifies the name of the enclosure as represented in Storage

Management to which this power supply belongs.

Syntax DisplayString

Access Read-only

# **Power Supply Connection Enclosure Number**

Name powerSupplyConnectionEnclosureNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.10.1.5

**Description** Identifies the instance number of the enclosure in the

enclosureTable to which this power supply belongs.

Syntax Integer

### **Temperature Probe Table**

This table describes available properties for each temperature probe on the managed system.

The following object sets up the Temperature Probe Table.

Name temperatureProbeTable
Object ID 1.3.6.1.4.1.674.10893.1.20.130.11

**Description** A table of managed temperature probes. The number of entries is

related to the number of temperature probes discovered in the system. The maximum number of entries is implementation

dependent.

**NOTE:** The properties in this table may not be applicable to all entries.

**Syntax** SEQUENCE OF TemperatureProbeEntry

**Access** Not accessible

#### **Temperature Probe Entry**

Name temperatureProbeEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.11.1

**Description** An entry in the Temperature Probe Table. A row in this table

cannot be created or deleted by SNMP operations on columns of

the table.

**Syntax** TemperatureProbeEntry

**Access** Not accessible

Index TemperatureProbeNumber

# **Temperature Probe Number**

Name temperatureProbeNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.11.1.1

**Description** Identifies the instance number of the temperature probe entry.

#### **Temperature Probe Name**

Name temperatureProbeName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.11.1.2

**Description** Identifies the temperature probe's name as represented in Storage

Management.

**Syntax** DisplayString

Access Read-only

#### **Temperature Probe Vendor**

Name temperatureProbeVendor

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.11.1.3

**Description** Identifies the temperature probe's (re)seller's name.

**Syntax** DisplayString

Access Read-only

## **Temperature Probe State**

Name temperatureProbeState

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.11.1.4

**Description** Identifies the current state of the temperature probe. Possible states:

0: Unknown

1: Ready

2: Failed (Minimum Failure Threshold Exceeded, Maximum Failure

Threshold Exceeded)

4: Offline

6: Degraded (Minimum Warning Threshold Exceeded, Maximum

Warning Threshold Exceeded)

9: Inactive

21: Missing

### **Temperature Probe Severity**

Name temperatureProbeSeverity
Object ID 1.3.6.1.4.1.674.10893.1.20.130.11.1.5

**Description** This entry is obsolete for Storage Management. It was replaced

with RollUpStatus and ComponentStatus for each device.

Syntax Integer

Access Read-only

### **Temperature Probe Unit**

Name temperatureProbeUnit

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.11.1.6

**Description** The units that will be used to display temperatures for the

temperature probe.

Syntax DisplayString
Access Read-only

## **Temperature Probe Minimum Warning**

Name temperatureProbeMinWarning
Object ID 1.3.6.1.4.1.674.10893.1.20.130.111.1.7

**Description** Identifies the minimum temperature that will force the probe into

a warning state.

Syntax Integer

Access Read-only

# **Temperature Probe Minimum Critical**

Name temperatureProbeMinCritical
Object ID 1.3.6.1.4.1.674.10893.1.20.130.11.1.8

**Description** Identifies the minimum temperature that will force the probe into

an error state.

#### **Temperature Probe Maximum Warning**

Name temperatureProbeMaxWarning
Object ID 1.3.6.1.4.1.674.10893.1.20.130.11.1.9

**Description** Identifies the maximum temperature that will force the probe into

a warning state.

Syntax Integer

Access Read-only

#### **Temperature Probe Maximum Critical**

Name temperatureProbeMaxCritical
ObjectID 1.3.6.1.4.1.674.10893.1.20.130.11.1.10

**Description** Identifies the maximum temperature that will force the probe into

an error state.

Syntax Integer
Access Read-only

# **Temperature Probe Current Value**

Name temperatureProbeCurValue
ObjectID 1.3.6.1.4.1.674.10893.1.20.130.11.1.11

**Description** Identifies the current temperature of this probe.

### **Temperature Probe Roll-Up Status**

Name temperatureProbeRollUpStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.11.1.12

**Description** Severity of the temperature probe state. This is the combined

status of the temperature probe and its components. Possible

values:

1: Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

Syntax DellStatus
Access Read-only

#### **Temperature Probe Component Status**

Name temperatureProbeComponentStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.11.1.13

**Description** The status of the temperature probe itself without the

propagation of any contained component status. Possible values:

1: Other

2: Unknown

3: OK

4: Non-critical

5. Critical

6: Non-recoverable

Syntax DellStatus
Access Read-only

### **Temperature Probe Nexus ID**

Name temperatureProbeNexusID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.11.1.14

**Description** Durable unique ID for this temperature probe.

Syntax DisplayString

Access Read-only

# **Temperature Probe Connection Table**

This table describes the connection between each temperature probe on the managed system and its enclosure. Each enclosure "number" in the table corresponds to that enclosure instance in the enclosure Table.

The following object sets up the Temperature Probe Connection Table.

Name temperatureConnectionTable

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.12

**Description** Defines the temperature probe connection table. **Syntax** SEQUENCE OF TemperatureConnectionEntry

Access Not accessible

# **Temperature Probe Connection Entry**

Name temperatureConnectionEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.12.1

**Description** Defines the temperature probe connection table entry.

**Syntax** TemperatureConnectionEntry

**Access** Not accessible

Index temperatureConnectionNumber

### **Temperature Probe Connection Number**

Name temperatureConnectionNumber
Object ID 1.3.6.1.4.1.674.10893.1.20.130.12.1.1

**Description** Identifies the instance number of the temperature probe

connection entry.

Syntax Integer

Access Read-only

### **Temperature Probe Connection Temperature Probe Name**

Name temperatureConnectionTemperatureName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.12.1.2

**Description** Identifies the name of the temperature probe in this connection as

represented in Storage Management.

Syntax DisplayString
Access Read-only

## Temperature Probe Connection Temperature Probe Number

Name temperatureConnectionTemperatureNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.12.1.3

**Description** Identifies the instance number in the temperature Table of the

temperature probe in this connection.

Syntax Integer

Access Read-only

# **Temperature Probe Connection Enclosure Name**

Name temperatureConnectionEnclosureName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.12.1.4

**Description** Identifies the name of the enclosure as represented in Storage

Management to which this temperature probe belongs.

Syntax DisplayString
Access Read-only

#### **Temperature Probe Connection Enclosure Number**

Name temperatureConnectionEnclosureNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.12.1.5

**Description** Identifies the instance number of the enclosure in the

enclosure Table to which this temperature probe belongs.

Syntax Integer

Access Read-only

## **Enclosure Management Module Table**

This table describes available properties for each enclosure management module on the managed system.

The following object sets up the Enclosure Management Module Table.

Name enclosureManagementModuleTable

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.13

**Description** Defines the enclosure management module table.

SYNTAX SEQUENCE OF EnclosureManagementModuleEntry

**Access** Not accessible

# **Enclosure Management Module Entry**

Name EnclosureManagementModuleEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.13.1

**Description** Defines the enclosure management module table entry.

**Syntax** EnclosureManagementModuleEntry

**Access** Not accessible

Index enclosureManagementModuleNumber

#### **Enclosure Management Module Number**

Name enclosureManagementModuleNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.13.1.1

**Description** Identifies the instance number of the enclosure management

module entry.

Syntax Integer

Access Read-only

#### **Enclosure Management Module Name**

Name enclosureManagementModuleName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.13.1.2

**Description** Identifies the enclosure management module's name as

represented in Storage Management.

Syntax DisplayString

Access Read-only

# **Enclosure Management Module Vendor**

Name enclosureManagementModuleVendor

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.13.1.3

**Description** Identifies the enclosure management module's (re)seller's name.

**Syntax** DisplayString

#### **Enclosure Management Module State**

Name enclosureManagementModuleState

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.13.1.4

**Description** Identifies the current state of the enclosure management module.

Possible states:

Unknown
 Ready
 Failed
 Online
 Offline

5: Not Installed6: Degraded

21: Missing

Syntax Integer

Access Read-only

# **Enclosure Management Module Severity**

Name enclosureManagementModuleSeverity

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.13.1.5

**Description** This entry is obsolete for Storage Management. It was replaced

with RollUpStatus and ComponentStatus for each device.

Syntax Integer
Access Read-only

# **Enclosure Management Module Part Number**

Name enclosureManagementModulePartNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.13.1.6

**Description** Identifies the part number of the enclosure memory module.

**Syntax** Display String

### **Enclosure Management Module Type**

Name enclosureManagementModuleType

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.13.1.7

**Description** Identifies the type of the enclosure management module. Possible

values:

0: Unknown 1: EMM

2: Termination Card

Syntax Integer

Access Read-only

### **Enclosure Management Module Firmware Version**

Name enclosureManagementModuleFWVersion

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.13.1.8

**Description** Identifies the firmware version of the enclosure memory module.

Syntax DisplayString
Access Read-only

# **Enclosure Management Module Maximum Speed**

Name enclosureManagementModuleMaxSpeed

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.13.1.9

**Description** Identifies the maximum bus speed of the enclosure management

module.

Syntax DisplayString
Access Read-only

### **Enclosure Management Module Roll-Up Status**

Name enclosureManagementModuleRollUpStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.13.1.10

**Description** Severity of the enclosure management module state. This is the

combined status of the EMM and its components. Possible values:

1: Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

**Syntax** DellStatus

Access Read-only

### **Enclosure Management Module Component Status**

Name enclosureManagementModuleComponentStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.13.1.11

**Description** The status of the enclosure management module itself without

the propagation of any contained component status. Possible

values:

1. Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

Syntax DellStatus

#### **Enclosure Management Module Nexus ID**

Name enclosureManagementModuleNexusID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.13.1.12

**Description** Durable unique ID for this EMM.

Syntax DisplayString
Access Read-only

### **Enclosure Management Module Revision**

Name enclosureManagementModuleRevision

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.13.1.13

**Description** Identifies the revision number of the enclosure management

module.

Syntax DisplayString
Access Read-only

# **Enclosure Management Module Connection Table**

This table describes the connection between each enclosure management module on the managed system and its enclosure. Each enclosure "number" in the table corresponds to that enclosure instance in the enclosure Table.

The following object sets up the Enclosure Management Module Connection Table

Name enclosureManagementModuleConnectionTable

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.14

**Description** Defines the enclosure memory module connection table.

**Syntax** SEQUENCE OF EnclosureManagementModuleConnectionEntry

**Access** Not accessible

## **Enclosure Management Module Connection Entry**

Name enclosureManagementModuleConnectionEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.14.1

**Description** Defines the enclosure memory module connection table entry.

**Syntax** EnclosureManagementModuleConnectionEntry

**Access** Not accessible

Index enclosureManagementModuleConnectionNumber

## **Enclosure Management Module Connection Number**

Name enclosureManagementModuleConnectionNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.14.1.1

**Description** Identifies the instance number of the enclosure memory module

connection entry.

Syntax Integer

Access Read-only

# **Enclosure Management Module Connection EMM Name**

Name enclosureManagementModuleConnectionEMMName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.14.1.2

**Description** Identifies the name of the enclosure memory module in this

connection as represented in Storage Management.

Syntax DisplayString

## **Enclosure Management Module Connection EMM Number**

Name enclosureManagementModuleConnectionEMMNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.14.1.3

**Description** Identifies the instance number in the

enclosureManagementModuleTable of the enclosure memory

module in this connection.

Syntax Integer

Access Read-only

## **Enclosure Management Module Connection Enclosure Name**

Name enclosureManagementModuleConnectionEnclosureName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.14.1.4

**Description** Identifies the name of the enclosure as represented in Storage

Management to which this enclosure memory module belongs.

Syntax DisplayString
Access Read-only

#### **Enclosure Management Module Connection Enclosure Number**

Name enclosureManagementModuleConnectionEnclosure

Number

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.14.1.5

**Description** Identifies the instance number of the enclosure in the

enclosure Table to which this enclosure memory module belongs.

Syntax Integer
Access Read-only

# **Battery Table**

This table describes available properties for each controller battery on the managed system.

The following object sets up the Battery Table.

Name batteryTable

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.15

**Description** Defines the battery table.

**Syntax** SEQUENCE OF BatteryEntry

**Access** Not accessible

## **Battery Entry**

Name batteryEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.15.1

**Description** Defines the battery table entry.

Syntax BatteryEntry
Access Not accessible
Index batteryNumber

#### **Battery Number**

Name batteryNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.15.1.1

**Description** Identifies the instance number of the battery entry.

Syntax Integer
Access Read-only

#### **Battery Name**

Name batteryName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.15.1.2

**Description** Identifies the battery's name as represented in Storage

Management.

**Syntax** DisplayString

Access Read-only

#### **Battery Vendor**

Name batteryVendor

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.15.1.3

**Description** Identifies the battery's (re)seller's name.

**Syntax** DisplayString

Access Read-only

# **Battery State**

Name batteryState

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.15.1.4

**Description** Identifies the current state of battery. Possible values:

0: Unknown

1: OK

2: Failed

6: Degraded

7: Reconditioning

9: High

10: Low

12: Charging

21: Missing

36: Learning

**Syntax** Integer

Access Read-only

1

#### **Battery Roll-Up Status**

Name batteryRollUpStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.15.1.5

**Description** Severity of the battery state. This is the combined status of the

battery and its components. Possible values:

1: Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

**Syntax** DellStatus

Access Read-only

# **Battery Component Status**

Name batteryComponentStatus

Object ID 1.3.6.1.4.1.674.10893.1.20.130.15.1.6

**Description** The status of the battery itself without the propagation of any

contained component status. Possible values:

1. Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

**Syntax** DellStatus Access

Read-only

#### **Battery Charge Count**

Name batteryChargeCount

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.15.1.7

**Description** The number of charges that have been applied to the battery.

Syntax Integer

Access Read-only

# **Battery Max Charge Count**

Name batteryMaxChargeCount

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.15.1.8

**Description** The maximum number of charges that can be applied to the

battery.

Syntax Integer

Access Read-only

# **Battery Nexus ID**

Name batteryNexusID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.15.1.9

 $\label{eq:Description} \textbf{Description} \qquad \text{Durable unique ID for this EMM.}$ 

Syntax DisplayString
Access Read-only

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# **Battery Predicted Capacity**

Name batteryPredictedCapacity

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.15.1.10

**Description** Displays the battery's ability to be charged.

Possible values:

1: Failed - The battery cannot be charged and needs to be

replaced.

2: Ready - The battery can be charged to full capacity.

4: Unknown - The battery is completing a Learn cycle. The charge capacity of the battery cannot be determined until the Learn cycle

is complete.

Syntax Integer
Access Read-only

## **Battery Next Learn Time**

Name batteryNextLearnTime

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.15.1.11

**Description** Indicates the time (in hours) the next learn cycle must be

executed

Syntax Integer
Access Read-only

# **Battery Learn State**

Name batteryLearnState

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.15.1.12

**Description** Specifies the learn state activity of the battery.

Possible values:

1: Failed 2: Active

4: Timed out 8: Requested

16: Idle

Syntax Integer

Access Read-only

# **Battery Maximum Learn Delay**

Name batteryMaxLearnDelay

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.15.1.14

**Description** The maximum amount of time (in hours) that the battery learn

cycle can be delayed.

Syntax Integer
Access Read-only

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# **Battery Connection Table**

This table describes the connection between each controller battery on the managed system and its controller. Each controller "number" in the table corresponds to that controller instance in the controller Table.

The following object sets up the Battery Connection Table.

Name batteryConnectionTable
ObjectID 1.3.6.1.4.1.674.10893.1.20.130.16

**Description** Defines the battery connection table.

**Syntax** SEQUENCE OF BatteryConnectionEntry

**Access** Not accessible

## **Battery Connection Entry**

Name batteryConnectionEntry
ObjectID 1.3.6.1.4.1.674.10893.1.20.130.16.1

**Description** Defines the battery connection table entry.

Syntax BatteryConnectionEntry
Access BatteryConnectionEntry
Index BatteryConnectionNumber

# **Battery Connection Number**

Name batteryConnectionNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.16.1.1

**Description** Identifies the instance number of the battery connection entry.

Syntax Integer
Access Read-only

#### **Battery Connection Battery Name**

Name batteryConnectionBatteryName
Object ID 1.3.6.1.4.1.674.10893.1.20.130.16.1.2

**Description** Identifies the name of the battery in this connection as

represented in Storage Management.

Syntax DisplayString
Access Read-only

#### **Battery Connection Battery Number**

Name batteryConnectionBatteryNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.16.1.3

**Description** Identifies the instance number in the battery Table of the battery

in this connection.

Syntax Integer
Access Read-only

## **Battery Connection Controller Name**

Name batteryConnectionControllerName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.16.1.4

**Description** Identifies the name of the controller as represented in Storage

Management to which this battery belongs.

Syntax DisplayString
Access Read-only

# **Battery Connection Controller Number**

Name batteryConnectionControllerNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.130.16.1.5

**Description** Identifies instance number of the controller in the controller Table

to which this battery belongs.

Syntax Integer

Access Read-only

# **Logical Devices Group**

The Logical Devices Management Information Base (MIB) group provides information about the logical devices managed by the Dell Storage Management Software and their relationships to each other.

This group and all of its associated tables and objects are not supported on Microsoft<sup>®</sup> Windows<sup>®</sup> Advanced Server Limited Edition 64-bit operating system (Windows.Net-64) on a Dell PowerEdge<sup>™</sup> 7150. The following MIB tables define objects and relationships, or connections among the objects, in the Logical Devices Group:

- Virtual Disk Table—describes available properties for each virtual disk on the managed system.
- Array Disk Logical Connection Table—describes the connections between array disks, the virtual disk to which they belong, and their associated logical disk. For each object in the table, its object "number" corresponds to an instance number in the appropriate MIB table for that object where all of the object properties can be found.

#### **Virtual Disk Table**

This table describes available properties for each virtual disk on the managed system.

The following object sets up the Virtual Disk Table.

Name virtualDiskTable

 Object ID
 1.3.6.1.4.1.674.10893.1.20.140.1

 Description
 Defines the virtual disk table.

**Syntax** SEQUENCE OF VirtualDiskEntry

**Access** Not accessible

#### **Virtual Disk Entry**

Name virtualDiskEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1

**Description** Defines the virtual disk table entry.

**Syntax** VirtualDiskEntry

**Access** Not accessible

Index virtualDiskNumber

#### **Virtual Disk Number**

Name virtualDiskNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.1

**Description** Identifies the instance number of the virtual disk entry.

Syntax Integer

Access Read-only

#### **Virtual Disk Name**

Name virtualDiskName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.2

**Description** Identifies the virtual disk's label generated by Storage

Management or entered by the user.

**Syntax** DisplayString

Access Read-only

#### Virtual Device Disk Name

Name virtualDiskDeviceName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.3

**Description** Identifies the device name used by this virtual disk's member

disks.

**Syntax** DisplayString

#### **Virtual Disk State**

Name virtualDiskState

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.4

**Description** Identifies the current state of this virtual disk. Possible states:

0: Unknown

1: Ready - The disk is accessible and has no known problems.

2: Failed - The data on the virtual disk is no longer fault tolerant

because one of the underlying disks is not online.

3: Online

4: Offline - The disk is not accessible. The disk may be corrupted

or intermittently unavailable.

6: Degraded - The data on the virtual disk is no longer fault tolerant because one of the underlying disks is not online.

15: Resynching

16: Regenerating

24: Rebuilding

26: Formatting

32: Reconstructing

35: Initializing

36: Background Initialization

38: Resynching Paused

52: Permanently Degraded

54: Degraded Redundancy

Syntax Integer

#### **Virtual Disk Severity**

Name virtualDiskSeverity

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.5

**Description** This entry is obsolete for Storage Management. It was replaced

with RollUpStatus and ComponentStatus for each device.

Syntax Integer

Access Read-only

#### **Virtual Disk Length in Megabytes**

Name virtualDiskLengthInMB

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.6

**Description** Identifies the size of this virtual disk in megabytes. If this size is 0,

it is smaller than a megabyte.

Syntax Integer

Access Read-only

# Virtual Disk Length in Bytes

Name virtualDiskLengthBytes

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.7

**Description** Identifies the portion of the virtual disk in bytes that is smaller

than a megabyte. This size plus the virtualDiskLengthInMB is the

total size of the virtual disk.

Syntax Integer

Access Read-only

1

#### **Virtual Disk Free Space in Megabytes**

Name virtualDiskFreeSpaceInMB
ObjectID 1.3.6.1.4.1.674.10893.1.20.140.1.1.8

**Description** This entry is obsolete. This property is not supported by virtual

disks managed under Storage Management.

Syntax Integer

Access Read-only

#### Virtual Disk Free Space in Bytes

Name virtualDiskFreeSpaceInBytes
ObjectID 1.3.6.1.4.1.674.10893.1.20.140.1.1.9

**Description** This entry is obsolete. This property is not supported by virtual

disks managed under Storage Management.

Syntax Integer

Access Read-only

# **Virtual Disk Write Policy**

Name virtualDiskWritePolicy

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.10

**Description** Indicates whether the controller's write cache will be used when

writing to a virtual disk. Possible values:

1: Enabled - Adaptec Write Cache Enabled Protected

2: Disabled - Adaptec Write Cache Disabled

3: LSI Write Back

4: LSI Write Through

5: Enabled Always - (Adaptec only)6: Enabled Always - (SAS only)

Syntax Integer
Access Read-only

## **Virtual Disk Read Policy**

Name virtualDiskReadPolicy

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.11

**Description** Indicates whether the controller's read cache will be used when

reading from a virtual disk. Possible values:

1: Enabled - Adaptec Read Cache Enabled

2: Disabled - Adaptec Read Cache Disabled

3: LSI Read Ahead

4: LSI Adaptive Read Ahead

5: LSI No Read Ahead

Syntax Integer

Access Read-only

# **Virtual Disk Cache Policy**

Name virtualDiskCachePolicy

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.12

**Description** Indicates whether the controller's cache is used when reading from

or writing to a virtual disk. Possible values:

1: Direct I/O (LSI)

2: Cached I/O (LSI)

99: Not Applicable

**Syntax** Integer

Access Read-only

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# **Virtual Disk Layout**

Name virtualDiskLayout

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.13

**Description** Indicates the virtual disk's RAID type. Possible values:

1: Concatenated

2: RAID-0 3: RAID-1 7: RAID-5 8: RAID-6 10: RAID-10 12: RAID-50

19: Concatenated RAID 1

24: RAID-60

Syntax Integer
Access Read-only

# **Virtual Disk Current Stripe Size in Megabytes**

Name virtualDiskCurStripeSizeInMB

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.14

**Description** Identifies the stripe size of this virtual disk in megabytes. If this

size is 0, it is smaller than a megabyte.

Syntax Integer

Access Read-only

## **Virtual Disk Current Stripe Size in Bytes**

Name virtualDiskCurStripeSizeInBytes

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.15

**Description** Identifies the portion of the stripe size in bytes that is smaller than

a megabyte. This size plus the virtualDiskCurStripeSizeInMB is

the total stripe size on the virtual disk.

Syntax Integer
Access Read-only

#### **Virtual Disk Channel**

Name virtualDiskChannel

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.16

**Description** This entry is obsolete. This property is not supported by virtual

disks managed under Storage Management.

**Syntax** Integer

Access Read-only

## **Virtual Disk Target ID**

Name virtualDiskTargetID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.17

**Description** Unique ID for the virtual disk.

Syntax Integer

**Access** Read-only

#### **Virtual Disk LUN ID**

Name virtualDiskLunID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.18

**Description** This entry is obsolete. This property is not supported by virtual

disks managed under Storage Management.

Syntax Integer

#### **Virtual Disk Roll-Up Status**

Name virtualDiskRollUpStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.19

**Description** Severity of the virtual disk state. This is the combined status of the

virtual disk and its components. Possible values:

1: Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

**Syntax** DellStatus

Access Read-only

#### **Virtual Disk Component Status**

Name virtualDiskComponentStatus

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.20

**Description** The status of the virtual disk itself without the propagation of any

contained component status. Possible values:

1: Other

2: Unknown

3: OK

4: Non-critical

5: Critical

6: Non-recoverable

Syntax DellStatus

#### **Virtual Disk Nexus ID**

Name virtualDiskNexusID

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.21

**Description** Durable unique ID for this virtual disk.

**Syntax** DisplayString

Access Read-only

#### Virtual Disk Array Disk Type

Name virtualDiskArrayDiskType

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.1.1.22

**Description** Identifies the type of array (physical) disks used to create the

virtual disk. Possible values:

1: SAS

2: SATA 3: SCSI

4: IDE

99: Unknown

**Syntax** Integer

Access Read-only

# **Array Disk Logical Connection Table**

This table describes the connections between array disks, the virtual disk to which they belong, and their associated logical disk. For each object in the table, its object "number" corresponds to an instance number in the appropriate MIB table for that object where all of the object properties can be found

The following object sets up the Array Disk Logical Connection Table.

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Name arrayDiskLogicalConnectionTable

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.3

**Description** Defines the array disk logical connection table.

**Syntax** SEQUENCE OF arrayDiskLogicalConnectionEntry

**Access** Not accessible

## **Array Disk Logical Connection Entry**

Name arrayDiskLogicalConnectionEntry

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.3.1

**Description** Defines the array disk logical connection table entry.

**Syntax** ArrayDiskLogicalConnectionEntry

**Access** Not accessible

Index arrayDiskLogicalConnectionNumber

## Array Disk Logical Connection Number

Name arrayDiskLogicalConnectionNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.3.1.1

**Description** Identifies the instance number of the disk entry.

Syntax Integer
Access Read-only

# **Array Disk Logical Connection Array Disk Name**

Name arrayDiskLogicalConnectionArrayDiskName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.3.1.2

**Description** Identifies the name of the array disk in this logical connection.

Syntax DisplayString
Access Read-only

## **Array Disk Logical Connection Array Disk Number**

Name arrayDiskLogicalConnectionArrayDiskNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.3.1.3

**Description** Identifies the instance number of the array disk in this logical

connection.

Syntax Integer

Access Read-only

#### **Array Disk Logical Connection Virtual Disk Name**

Name arrayDiskLogicalConnectionVirtualDiskName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.3.1.4

**Description** Identifies the name of the virtual disk to which this array disk

belongs.

**Syntax** DisplayString

Access Read-only

# **Array Disk Logical Connection Virtual Disk Number**

Name arrayDiskLogicalConnectionVirtualDiskNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.3.1.5

**Description** Identifies the instance number of the virtual disk to which this

array disk belongs.

Syntax Integer

Access Read-only

# **Array Disk Logical Connection Disk Name**

Name arrayDiskLogicalConnectionDiskName

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.3.1.6

**Description** Identifies the name of the disk group to which this array disk

belongs. This property is currently not supported.

**Syntax** DisplayString

## **Array Disk Logical Connection Disk Number**

Name arrayDiskLogicalConnectionDiskNumber

**Object ID** 1.3.6.1.4.1.674.10893.1.20.140.3.1.7

**Description** Identifies the instance number of the disk group to which this

array disk belongs. This property is currently not supported.

Syntax Integer

Access Read-only

# Storage Management Event Group

The Storage Management Event Group defines the properties that will be sent with SNMP traps.

# **Message ID Event**

Name messageIDEvent

**Object ID** 1.3.6.1.4.1.674.10893.1.20.200.1

**Description** Storage Management event message number.

Syntax Integer
Access Read-only

# **Description Event**

Name descriptionEvent

**Object ID** 1.3.6.1.4.1.674.10893.1.20.200.2

**Description** Storage Management event message text describing the alert.

**Syntax** DisplayString

#### **Location Event**

Name locationEvent

**Object ID** 1.3.6.1.4.1.674.10893.1.20.200.3

**Description** Additional information identifying the location of the object

causing the alert.

**Syntax** DisplayString

Access Read-only

# **Object Name Event**

Name objectNameEvent

**Object ID** 1.3.6.1.4.1.674.10893.1.20.200.4

**Description** Name of the object as represented in Storage Management

causing the alert.

**Syntax** DisplayString

Access Read-only

# **Object OID Event**

Name objectOIDEvent

**Object ID** 1.3.6.1.4.1.674.10893.1.20.200.5

**Description** MIB OID of the object causing the alert.

**Syntax** DisplayString

Access Read-only

# Object Nexus Event

Name objectNexusEvent

**Object ID** 1.3.6.1.4.1.674.10893.1.20.200.6

**Description** Durable, unique ID of the object causing the alert.

**Syntax** DisplayString

#### **Current Status Event**

Name currentStatusEvent

**Object ID** 1.3.6.1.4.1.674.10893.1.20.200.7

**Description** Current status of object causing the alert, if applicable.

Syntax DellStatus
Access Read-only

#### **Previous Status Event**

Name previousStatusEvent

**Object ID** 1.3.6.1.4.1.674.10893.1.20.200.8

**Description** Previous status of object causing the alert if applicable.

Syntax DellStatus
Access Read-only

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# **Change Management Group**

The Change Management Group lets you monitor information about the Dell™ devices and software that are present on a particular managed computer chassis. This information is collected during an inventory scan.

# **Inventory Group**

The following objects describe the fields for inventory information.

#### **Inventory Locale**

Name inventoryLocale

**Object ID** 1.3.6.1.4.1.674.10899.1.1

**Description** Defines the locale of the system.

Syntax DisplayString

Access Read-only

# **Inventory Schema Version**

Name inventorySchemaVersion

**Object ID** 1.3.6.1.4.1.674.10899.1.2

**Description** Defines the inventory schema implemented by this system.

Syntax DisplayString
Access Read-only

# **Inventory System ID**

Name inventorySystemID Object ID 1.3.6.1.4.1.674.10899.1.3

**Description** Defines the System ID for the system.

Syntax SystemID

Access Read-only

# **Device Group**

The Device Group defines information about the devices discovered on the system during an inventory scan. Identifying information includes the Component ID, the Device ID, and the Vendor ID.

# **Device Group Table**

The following object sets up the Device Group Table.

Name deviceTable

**Object ID** 1.3.6.1.4.1.674.10899.1.5

**Description** Defines the Device Table.

**Syntax** SEQUENCE OF DeviceEntry

Access Not accessible

## **Device Entry**

Name deviceEntry

**Object ID** 1.3.6.1.4.1.674.10899.1.5.1

**Description** Defines a device entry.

Syntax DeviceEntry
Access Not accessible

#### **Device Index**

Name deviceIndex

**Object ID** 1.3.6.1.4.1.674.10899.1.5.1.1

**Description** Defines the unique index for this device.

**Syntax** Unsigned16BitRange

## **Device Component ID**

Name deviceComponentID

**Object ID** 1.3.6.1.4.1.674.10899.1.5.1.2

**Description** Defines an optional component ID field for the device.

Syntax Integer
Access Read-only

# **Device Display String**

**Name** deviceDisplayString **ObjectID** 1.3.6.1.4.1.674.10899.1.5.1.3

**Description** Provides a displayable string that describes the device.

Syntax DisplayString

Access Read-only

#### **Device Vendor ID**

Name deviceVendorID

**Object ID** 1.3.6.1.4.1.674.10899.1.5.1.4

**Description** Defines the ID for the vendor supplying the device.

Syntax Octet String
Access Read-only

#### **Device ID**

Name deviceDeviceID

 Object ID
 1.3.6.1.4.1.674.10899.1.5.1.5

 Description
 Defines the ID for the device.

Syntax Octet String
Access Read-only

#### Device Sub ID

Name deviceSubID

**Object ID** 1.3.6.1.4.1.674.10899.1.5.1.6

Provides additional device identification Description

**Syntax** Octet String Access Read-only

#### Device Sub Vendor ID

Name deviceSubVendorID

**Object ID** 1.3.6.1.4.1.674.10899.1.5.1.7

Description Provides additional vendor identification.

**Syntax** Octet String Access Read-only

# **Application Group**



**NOTE:** Dell updateable components such as Basic input/output system (BIOS) and FirmWare (FW) are considered applications. For example, the following would be returned for system BIOS:

Application/DisplayString = BIOS Application/Version = A10

The Application Group defines information about the applications discovered on the system during an inventory scan. Identifying information includes the application type, the application version, and the application description.

# **Application Group Table**

The following object sets up the Application Group Table.

Name applicationTable

**Object ID** 1.3.6.1.4.1.674.10899.1.6

**Description** Defines a table of application information for the system.

**Syntax** SEQUENCE OF ApplicationEntry

**Access** Not accessible

# **Application Entry**

Name applicationEntry

**Object ID** 1.3.6.1.4.1.674.10899.1.6.1

**Description** Defines an application entry.

**Syntax** ApplicationEntry

Access Read-only

# **Application Index**

Name applicationIndex

**Object ID** 1.3.6.1.4.1.674.10899.1.6.1.1

**Description** Defines the unique index for this application.

**Syntax** Unsigned16BitRange

Access Read-only

# **Application Device Index**

Name applicationDeviceIndex
ObjectID 1.3.6.1.4.1.674.10899.1.6.1.2

**Description** Defines a cross-index to the device table for the application.

**Syntax** Unsigned16BitRange

## **Application Component Type**

Name applicationComponentType

**Object ID** 1.3.6.1.4.1.674.10899.1.6.1.3

**Description** Identifies the type of application reported.

**Syntax** DisplayString

Access Read-only

# **Application Version**

Name applicationVersion

**Object ID** 1.3.6.1.4.1.674.10899.1.6.1.4

**Description** Identifies the version of the application.

Syntax DisplayString

Access Read-only

# **Application Display String**

Name applicationDisplayString

**Object ID** 1.3.6.1.4.1.674.10899.1.6.1.5

**Description** A user visible display string that describes the application.

Syntax DisplayString
Access Read-only

# **Application Sub-Component ID**

Name applicationSubComponentID

**Object ID** 1.3.6.1.4.1.674.10899.1.6.1.6

**Description** The sub-component ID for the application. This is usually valid

on ESM device reporting.

Syntax DisplayString

# **Operating System Group**

The Operating System Group provides status and identifying information about a system's operating system. Identifying information includes the name, version, and service pack of the installed operating system.

The following objects describe the fields for Operating System Group.

#### Operating System Vendor

Name operatingSystemVendor

**Object ID** 1.3.6.1.4.1.674.10899.2.1

**Description** Defines the vendor of the Operating System.

Syntax DisplayString
Access Read-only

#### Operating System Major Version

Name operatingSystemMajorVersion

**Object ID** 1.3.6.1.4.1.674.10899.2.2

**Description** Defines the major version of the Operating System.

Syntax DisplayString
Access Read-only

# Operating System Minor Version

Name operatingSystemMinorVersion

**Object ID** 1.3.6.1.4.1.674.10899.2.3

**Description** Defines the minor version of the Operating System.

Syntax DisplayString
Access Read-only

#### Operating System Service Pack Major Version

Name operatingSystemSPMajorVersion

**Object ID** 1.3.6.1.4.1.674.10899.2.5

**Description** Defines the Operating System's Service Pack major version.

Syntax DisplayString
Access Read-only

## **Operating System Service Pack Minor Version**

Name operatingSystemSPMinorVersion

**Object ID** 1.3.6.1.4.1.674.10899.2.6

**Description** Defines the Operating System's Service Pack minor version.

Syntax DisplayString

Access Read-only

# **Operating System Architecture**

Name operatingSystemArchitecture

**Object ID** 1.3.6.1.4.1.674.10899.2.7

**Description** Defines the Operating System's architecture.

Syntax DisplayString
Access Read-only

# **Inventory Collector Product Information**

The following objects describe the fields for the Inventory Collector. The Inventory Collector product variables are scalar objects, meaning that they are not related to other Inventory Collector base (MIB) objects and are thus not placed in a table.

# **Product ID Display Name**

Name productIDDisplayName
ObjectID 1.3.6.1.4.1.674.10899.100.1

**Description** Defines the display name of the product.

Syntax DisplayString
Access Read-only

#### **Product ID Description**

 Name
 productIDDescription

 Object ID
 1.3.6.1.4.1.674.10899.100.2

**Description** Provides a description of the product.

Syntax DisplayString
Access Read-only

#### **Product ID Vendor**

Name productIDVendor

**Object ID** 1.3.6.1.4.1.674.10899.100.3

**Description** Provides name of the manufacturer of the product.

Syntax DisplayString
Access Read-only

#### **Product ID Version**

Name productIDVersion

**Object ID** 1.3.6.1.4.1.674.10899.100.4

**Description** Describes the version of the product.

Syntax DisplayString
Access Read-only

# **Product ID Build Number**

 Name
 productIDBuildNumber

 Object ID
 1.3.6.1.4.1.674.10899.100.5

**Description** Describes the software build number of the product.

Syntax DisplayString
Access Read-only

# **Dell RAC Out-of-Band Group**

The Dell RAC Out-of-Band MIB contains information for both Chassis Management Controller (CMC) and Remote Access Controller (RAC) Legacy Alerting. This MIB consists of information for the following groups:

# **Product Information**

The following MIB tables define the Dell RAC Out-of-Band group:

#### **DRsProductName**

Name DRsProductName

**Object ID** 1.3.6.1.4.1.674.10892.2.1.1.1

**Description** Defines the product name of a chassis management controller.

Syntax DellString
Access Read-only

# **DRsProductShortName**

Name DRsProductShortName
Object ID 1.3.6.1.4.1.674.10892.2.1.1.2

**Description** Defines the short product name of a chassis management controller.

Syntax DellString
Access Read-only

# **DRsProductDescription**

Name DRsProductDescription
Object ID 1.3.6.1.4.1.674.10892.2.1.1.3

**Description** Defines the product description of a chassis management controller.

Syntax DellString
Access Read-only

#### **DRsProductManufacturer**

Name DRsProductManufacturer
Object ID 1.3.6.1.4.1.674.10892.2.1.1.4

**Description** Defines the product manufacturer of a chassis management

controller.

Syntax DellString

Access Read-only

# **DRsProductVersion**

Name DRsProductVersion

**Object ID** 1.3.6.1.4.1.674.10892.2.1.1.5

**Description** Defines the product version of a chassis management controller.

Syntax DellString
Access Read-only

# **DRsChassisServiceTag**

Name DRsChassisServiceTag
Object ID 1.3.6.1.4.1.674.10892.2.1.1.6

Description Defines the Coming Translate should

**Description** Defines the Service Tag of the chassis.

Syntax DellString
Access Read-only

#### **DRsProductURL**

Name DrsProductURL

**Object ID** 1.3.6.1.4.1.674.10892.2.1.1.7

**Description** Defines the out-of-band UI URL of a chassis management

controller.

Syntax DellString

Access Read-only

# DRs Product Chassis Asset Tag

Name DRsProductChassisAssetTag

**Object ID** 1.3.6.1.4.1.674.10892.2.1.1.8

**Description** Defines the Asset Tag of the chassis.

Syntax DellString
Access Read-only

#### **DRsProductChassisLocation**

Name DRsProductChassisLocation

**Object ID** 1.3.6.1.4.1.674.10892.2.1.1.9

**Description** Defines the location of the chassis.

Syntax DellString
Access Read-only

# **DRsProductChassisName**

Name DrsProductChassisName

**Object ID** 1.3.6.1.4.1.674.10892.2.1.1.10

**Description** Defines the name of the chassis.

Syntax DellString
Access Read-only

# **DRsSystemServiceTag**

Name DRsSystemServiceTag

**Object ID** 1.3.6.1.4.1.674.10892.2.1.1.11

**Description** Defines the service tag of a system.

Syntax DellString

Access Read-only

# **DRsProductSystemAssetTag**

Name DRsProductSystemAssetTag

**Object ID** 1.3.6.1.4.1.674.10892.2.1.1.12

**Description** Defines the asset tag of a system.

Syntax DellString

Access Read-only

# DRsProductSystemSlot

Name DRsProductSystemSlot

**Object ID** 1.3.6.1.4.1.674.10892.2.1.1.13

**Description** Defines the slot number of a CMC.

Syntax DellString

Access Read-only

# DRsProductType

Name DRsProductType

**Object ID** 1.3.6.1.4.1.674.10892.2.1.1.14

**Description** Defines type of a remote access card.

**Syntax** DellRacType

#### **DRsFirmwareVersion**

Name DRsFirmwareVersion

**Object ID** 1.3.6.1.4.1.674.10892.2.1.2.1

**Description** Defines the firmware version of a chassis management controller.

Syntax DellString
Access Read-only

# **Chassis Status**

The following MIB tables provide information on Chassis being monitored by the chassis management card.

# **DRsGlobalSystemStatus**

Name DRsGlobalSystemStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.2.1

**Description** Defines the overall chassis status being monitored by the chassis

management card.

Syntax DellStatus
Access Read-only

# **DRsGlobalCurrStatus**

Name DRsGlobalCurrStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.3.1.1

**Description** Defines the overall chassis status being monitored by the chassis

management card.

Syntax DellStatus
Access Read-only

#### **DRsIOMCurrStatus**

Name DRsIOMCurrStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.3.1.2

**Description** Defines the IOM subsystem status being monitored by the chassis

management card.

**Syntax** DellStatus

Access Read-only

#### **DRsKVMCurrStatus**

Name DRsKVMCurrStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.3.1.3

**Description** Defines the iKVM subsystem health status being monitored by the

chassis management card.

**Syntax** DellStatus

Access Read-only

#### **DRsRedCurrStatus**

Name DRsRedCurrtatus

**Object ID** 1.3.6.1.4.1.674.10892.2.3.1.4

**Description** Defines the redundancy status being monitored by the chassis

management card.

**Syntax** DellStatus

Access Read-only

#### **DRsPowerCurrStatus**

Name DRsPowerCurrStatus

Object ID 1.3.6.1.4.1.674.10892.2.3.1.5

**Description** Defines the power subsystem health status being monitored by the

chassis management card.

Syntax DellStatus
Access Read-only

#### **DRsFanCurrStatus**

Name DRsFanCurrStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.3.1.6

**Description** Defines the fan subsystem health status being monitored by the

chassis management card.

Syntax DellStatus
Access Read-only

# **DRsBladeCurrStatus**

Name DRsBladeCurrStatus
Object ID 1.3.6.1.4.1.674.10892.2.3.1.7

**Description** Defines the blade subsystem health status being monitored by the

chassis management card.

Syntax DellStatus
Access Read-only

### **DRsTempCurrStatus**

Name DRsTempCurrStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.3.1.8

**Description** Defines the temperature sensor subsystem health status being

monitored by the chassis management card.

**Syntax** DellStatus

Access Read-only

#### **DRsCMCCurrStatus**

Name DRsCMCCurrStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.3.1.9

**Description** Defines the CMC health status being monitored by the chassis

management card.

**Syntax** DellStatus

**Access** Read-only

## **DRsGlobalPrevStatus**

Name DRsGlobalPrevStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.3.2.1

**Description** Defines the previous chassis status recorded by the chassis

management card.

**Syntax** DellStatus

Access Read-only

#### **DRsIOMPrevStatus**

Name DRsIOMPrevStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.3.2.2

**Description** Defines the previous IOM subsystem status recorded by the chassis

management card.

**Syntax** DellStatus

Access Read-only

#### **DRsKVMPrevStatus**

Name DRsKVMPrevStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.3.2.3

**Description** Defines the previous iKVM subsystem health status recorded by the

chassis management card.

**Syntax** DellStatus

Access Read-only

#### **DRsRedPrevStatus**

Name DRsRedPrevStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.3.2.4

**Description** Defines the previous redundancy status recorded by the chassis

management card.

**Syntax** DellStatus

#### **DRsPowerPrevStatus**

Name DRsPowerPrevStatus

Object ID 1.3.6.1.4.1.674.10892.2.3.2.5

**Description** Defines the previous power subsystem health status recorded by the

chassis management card.

Syntax DellStatus
Access Read-only

#### **DRsFanPrevStatus**

Name DrsFanPrevStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.3.2.6

**Description** Defines the previous fan health status being monitored by the

chassis management card.

**Syntax** DellStatus

Access Read-only

# **DRsBladePrevStatus**

Name DRsBladePrevStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.3.2.7

**Description** Defines the previous blade subsystem health status recorded by the

chassis management card.

Syntax DellStatus

Access Read-only

# **DRsTempPrevStatus**

Name DRsTempPrevStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.3.2.8

**Description** Defines the temperature sensor health status being monitored by

the chassis management card.

**Syntax** DellStatus

Access Read-only

#### **DRsCMCPrevStatus**

Name DRsCMCPrevStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.3.2.9

**Description** Defines the CMC health status being monitored by the chassis

management card.

**Syntax** DellStatus

Access Read-only

# DRsGlobalChangeTime

Name DRsGlobalChangeTime

**Object ID** 1.3.6.1.4.1.674.10892.2.3.3.1

**Description** Defines the timestamp of the most recent global status change.

Syntax TimeTicks

Access Read-only

# DRsIOMChangeTime

Name DRsIOMChangeTime

**Object ID** 1.3.6.1.4.1.674.10892.2.3.3.2

**Description** Defines the timestamp of the most recent IOM status change.

Syntax TimeTicks

# **DRsKVMChangeTime**

Name DRsKVMChangeTime

**Object ID** 1.3.6.1.4.1.674.10892.2.3.3.3

**Description** Defines the timestamp of the most recent iKVM status change.

Syntax TimeTicks
Access Read-only

# **DRsRedChangeTime**

Name DRsRedChangeTime

**Object ID** 1.3.6.1.4.1.674.10892.2.3.3.4

**Description** Defines the timestamp of the most recent Redundancy status

change.

Syntax TimeTicks
Access Read-only

# **DRsPowerChangeTime**

Name DRsPowerChangeTime

**Object ID** 1.3.6.1.4.1.674.10892.2.3.3.5

**Description** Defines the timestamp of the most recent power health status

change.

Syntax TimeTicks

Access Read-only

# DRsFanChangeTime

Name DRsFanChangeTime

**Object ID** 1.3.6.1.4.1.674.10892.2.3.3.6

**Description** Defines the timestamp of the most recent fan health status change.

Syntax TimeTicks

Access Read-only

1

# **DRsBladeChangeTime**

**Name** DRsBladeChangeTime **Object ID** 1.3.6.1.4.1.674.10892.2.3.3.7

**Description** Defines the timestamp of the most recent blade health status

change.

Syntax TimeTicks
Access Read-only

# **DRsTempChangeTime**

Name DRsTempChangeTime

**Object ID** 1.3.6.1.4.1.674.10892.2.3.3.8

**Description** Defines the timestamp of the most recent temperature sensor

health status change.

Syntax TimeTicks

Access Read-only

# **DRsCMCChangeTime**

Name DRsCMCChangeTime

**Object ID** 1.3.6.1.4.1.674.10892.2.3.3.9

**Description** Defines the timestamp of the most recent CMC health status

change.

Syntax TimeTicks

# **Chassis Power**

The following MIB tables provide information on the chassis management controller table entry.

#### **DRsCMC Power Table**

Name DRsCMCPowerTable

**Object ID** 1.3.6.1.4.1.674.10892.2.4.1

**Description** Defines the CMC power table.

**Syntax** SEQUENCE OF DrsCMCPowerTableEntry

Access Not-accessible

# **DRsCMC Power Table Entry**

Name DRsCMCPowerTableEntry

**Object ID** 1.3.6.1.4.1.674.10892.2.4.1.1

**Description** Defines the CMC power table entry.

**Syntax** DrsCMCPowerTableEntry

**Access** Not-accessible

# **DRsCMC PSUTable**

Name DrsCMCPSUTable

**Object ID** 1.3.6.1.4.1.674.10892.2.4.2

 $\begin{tabular}{ll} \textbf{Description} & Defines the CMC PSU table. \end{tabular}$ 

**Syntax** SEQUENCE OF DrsCMCPSUTableEntry

Access Not-accessible

# **DRsCMC PSUTableEntry**

Name DrsCMCPSUTableEntry
Object ID 1.3.6.1.4.1.674.10892.2.4.2.1

**Description** Defines the CMC PSU table entry.

**Syntax** DrsCMCPSUTableEntry

Access Not-accessible

# **CMC Power Information**

The following MIB tables provide information on the chassis power.

#### **DRsChassisIndex**

Name DrsChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.2.4.1.1.1

**Description** Defines the index (one-based) of the associated chassis.

**Syntax** DellCMCPowerIndexRange

Access Read-only

### **DRsPotentialPower**

Name DRsPotentialPower

**Object ID** 1.3.6.1.4.1.674.10892.2.4.1.1.2

**Description** Defines the power (in Watts) required by the chassis infrastructure,

plus the sum of the maximum power requirements for all systems

currently turned on.

**Syntax** DellPowerReading

#### **DRsIdlePower**

Name DRsIdlePower

**Object ID** 1.3.6.1.4.1.674.10892.2.4.1.1.3

**Description** Defines the power (in Watts) required by the chassisinfrastructure,

plus the sum of the minimum power requirements for all systems

currently turned on.

**Syntax** DellPowerReading

Access Read-only

# DRsMaxPowerSpecification

Name DRsMaxPowerSpecification

**Object ID** 1.3.6.1.4.1.674.10892.2.4.1.1.4

**Description** Defines the power limit (in Watts) at which server throttling will

take place.

**Syntax** DellPowerReading

Access Read-only

# **DRsPowerSurplus**

Name DRsPowerSurplus

**Object ID** 1.3.6.1.4.1.674.10892.2.4.1.1.5

**Description** Defines the power surplus (in Watts) remaining above the

drsPotentialPower reading.

**Syntax** DellPowerReading

Access Read-only

#### **DRsKWhCumulative**

Name DRsKWhCumulative

**Object ID** 1.3.6.1.4.1.674.10892.2.4.1.1.6

**Description** Defines the cumulative chassis power usage (in KWh) since last

reset.

**Syntax** DellPowerReading

Access Read-only

#### **DRsKWhCumulativeTime**

Name DRsKWhCumulativeTime

**Object ID** 1.3.6.1.4.1.674.10892.2.4.1.1.7

**Description** Defines the timestamp of the most recent chassis power

accumulator reset.

**Syntax** DellTimestamp

### **DRsWattsPeakUsage**

Name DRsWattsPeakUsage

**Object ID** 1.3.6.1.4.1.674.10892.2.4.1.1.8

**Description** Defines the chassis peak power usage (in Watts) since last reset.

**Syntax** DellPowerReading

Access Read-only

#### **DRsWattsPeakTime**

Name DRsWattsPeakTime

**Object ID** 1.3.6.1.4.1.674.10892.2.4.1.1.9

**Description** Defines the timestamp of the most recent chassis peak power usage.

**Syntax** DellTimestamp

Access Read-only

### **DRsWattsMinUsage**

Name DRsWattsMinUsage

**Object ID** 1.3.6.1.4.1.674.10892.2.4.1.1.10

**Description** Defines the chassis minimum power usage (in Watts) since last

reset.

**Syntax** DellPowerReading

Access Read-only

#### **DRsWattsMinTime**

Name DRsWattsMinTime

**Object ID** 1.3.6.1.4.1.674.10892.2.4.1.1.11

**Description** Defines the timestamp of the most recent chassis minimum power

usage.

**Syntax** DellPowerReading

Access Read-only

1

#### **DRsWattsResetTime**

Name DRsWattsResetTime

**Object ID** 1.3.6.1.4.1.674.10892.2.4.1.1.12

**Description** Defines the timestamp of the most recent reset of the chassis

minimum/maximum Watts readings.

**Syntax** DellTimestamp

Access Read-only

# **DRsWattsReading**

Name DRsWattsReading

**Object ID** 1.3.6.1.4.1.674.10892.2.4.1.1.13

**Description** Defines the instantaneous chassis power usage (in Watts)

**Syntax** DellPowerReading

Access Read-only

# **DRsAmpsReading**

Name DRsAmpsReading

**Object ID** 1.3.6.1.4.1.674.10892.2.4.1.1.14

**Description** Defines the instantaneous chassis current usage (in Watts).

**Syntax** DellPowerReading

# **CMC PSU Information**

The following MIB tables provide information on the chassis power supply unit.

# **DRsPSUChassisIndex**

Name DRsPSUChassisIndex

**Object ID** 1.3.6.1.4.1.674.10892.2.4.2.1.1

**Description** Defines the index (one-based) of the associated chassis.

Syntax DellCMCPowerIndexRange

Access Read-only

1

#### **DRsPSUIndex**

Name DRsPSUIndex

**Object ID** 1.3.6.1.4.1.674.10892.2.4.2.1.2

**Description** Defines the index (one-based) of the associated CMC PSU.

**Syntax** DellCMCPSUIndexRange

Access Read-only

#### **DRsPSULocation**

Name DRsPSULocation

**Object ID** 1.3.6.1.4.1.674.10892.2.4.2.1.3

**Description** Defines the location of the CMC PSU.

Syntax DellString
Access Read-only

# **DRsPSUMonitoringCapable**

Name DRsPSUMonitoringCapable

**Object ID** 1.3.6.1.4.1.674.10892.2.4.2.1.4

**Description** Defines the PSU Monitoring capabilities, or the absence of a PSU in

this location.

**Syntax** DellCMCPSUCapable

Access Read-only

# DRsPSUVoltsReading

Name DRsPSUVoltsReading

**Object ID** 1.3.6.1.4.1.674.10892.2.4.2.1.5

**Description** Defines the instantaneous PSU Voltage reading.

**Syntax** DellPowerReading

# **DRsPSUAmpsReading**

Name DRsPSUAmpsReading

**Object ID** 1.3.6.1.4.1.674.10892.2.4.2.1.6

**Description** Defines the instantaneous PSU Current reading.

**Syntax** DellPowerReading

Access Read-only

# **DRsPSUWattsReading**

Name DrsPSUWattsReading

**Object ID** 1.3.6.1.4.1.674.10892.2.4.2.1.7

**Description** Defines the instantaneous PSU Wattage reading.

**Syntax** DellPowerReading

Access Read-only

# **Chassis Alerts**

The following MIB tables provide information on the chassis management controller alerts.

# **DRsCASubSystem**

Name DrsCASubSystem

**Object ID** 1.3.6.1.4.1.674.10892.2.20.10.1

**Description** Defines the Sub-System Name of the CMC Alert.

Syntax DellString
Access Read-only

#### **DrsCASSCurrStatus**

Name DrsCASSCurrStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.20.10.2

**Description** Defines the Current Status of the Alerting Sub-System.

Syntax DellStatus
Access Read-only

#### **DrsCASSPrevStatus**

Name DrsCASSPrevStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.20.10.3

**Description** Defines the Previous Status of the Alerting Sub-System.

Syntax DellStatus
Access Read-only

# **DrsCASSChangeTime**

Name DrsCASSChangeTime

**Object ID** 1.3.6.1.4.1.674.10892.2.20.10.4

**Description** Defines the timestamp of Most Recent Change of the Alerting Sub-

System.

Syntax TimeTicks
Access Read-only

# DrsCAMessage

Name DrsCAMessage

**Object ID** 1.3.6.1.4.1.674.10892.2.20.10.5

**Description** Defines the CSSD message of the CMC Alert.

Syntax DellString
Access Read-only

# **Legacy Alerting**

The following MIB tables provide information on the RAC legacy alerting.

# **DRsAlertSystem**

Name DRsAlertSystem

**Object ID** 1.3.6.1.4.1.674.10892.2.5000.10.1

**Description** Name of the system generating the alert.

**Syntax** OCTET STRING (SIZE (0..255))

Access Read-only

#### DRsAlertTableIndexOID

Name DRsAlertTableIndexOID

**Object ID** 1.3.6.1.4.1.674.10892.2.5000.10.2

**Description** Alert Index Object Identifier.

**Syntax** OBJECT IDENTIFIER

Access Read Only

# **DRsAlertMessage**

Name DRsAlertMessage

**Object ID** 1.3.6.1.4.1.674.10892.2.5000.10.3

**Description** Message describing the alert.

Syntax OCTET STRING (SIZE (0..1024))

#### **DRsAlertCurrentStatus**

Name DRsAlertCurrentStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.5000.10.4

**Description** Current status of object causing the alert.

Syntax DellStatus
Access Read-only

#### **DRsAlertPreviousStatus**

Name DRsAlertPreviousStatus

**Object ID** 1.3.6.1.4.1.674.10892.2.5000.10.5

**Description** Previous status of object causing the alert.

Syntax DellStatus
Access Read-only

#### **DRsAlertData**

Name DRsAlertData

**Object ID** 1.3.6.1.4.1.674.10892.2.5000.10.6

**Description** Alert data

Syntax OCTET STRING (SIZE (0..1024))

# **Traps**

The Server Administrator generates events that result in Simple Network Management Protocol (SNMP) traps or operating system event logs. Remote Access Controller (RAC) and Baseboard Management Controller (BMC) also can generate SNMP traps in response to hardware events. This section describes the traps, also known as alerts, generated by the Server Administrator, RAC, and BMC.

The Server Administrator generates events in response to changes in the status of sensors and other monitored parameters. When an event with predefined characteristics occurs on your system, the SNMP subagent sends information about the event, along with trap variables, to the management console.

Each status change event generates a unique identifier called the trap ID and a trap description that describes the event. The trap ID and message uniquely describe the severity and cause of the event, and provide other relevant information such as the location of the event and the monitored item's previous state.

"Instrumentation Traps" lists all Server Administrator Instrumentation trap IDs in numerical order and includes each trap ID's corresponding description, severity level, and cause. Description text in brackets (for example, <State>) describes the event-specific information provided by Server Administrator.

"RAC Traps" lists RAC trap IDs in numerical order and includes each trap ID's corresponding description, severity level, and cause.

"BMC Traps" lists BMC trap IDs and includes each trap ID's corresponding description and severity level.

# **Trap Variables**

This section describes the variables that are sent to the management console to provide additional information about a trap or alert generated by some event on your system. The trap variables presented here apply to all Instrumentation and RAC traps. Trap variables are sent in the order listed and are reserved for use only in traps. When a varbind is created for a trap variable, a zero is appended to the object ID (OID) to create the OID for the varbind.

# System

Variable Name alertSystem

**Object ID** 1.3.6.1.4.1.674.10892.1.5000.10.1

**Description** Identifies the system generating the alert.

**Syntax** DisplayString (SIZE (0..255))

#### Table Index OID

Variable Name alertTableIndexOID

**Object ID** 1.3.6.1.4.1.674.10892.1.5000.10.2

**Description** Gives the object identifier for the index attribute in the table

that contains the object causing the alert. Uniquely identifies the object causing the alert and can be used to correlate different alerts caused by the same object.

Syntax OBJECT IDENTIFIER

# Message

Variable Name alertMessage

**Object ID** 1.3.6.1.4.1.674.10892.1.5000.10.3

**Description** Describes the alert.

Syntax DisplayString (SIZE (0..1024))

#### **Current Status**

Variable Name alertCurrentStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.5000.10.4

**Description** Gives the current status of the object causing the alert.

Syntax DellStatus

#### **Previous Status**

Variable Name alertPreviousStatus

**Object ID** 1.3.6.1.4.1.674.10892.1.5000.10.5

**Description** Gives the previous status of the object causing the alert.

Syntax DellStatus

#### Data

Variable Name alertData

**Object ID** 1.3.6.1.4.1.674.10892.1.5000.10.6

**Description** Provides Server Administrator-defined data related to the

alert.

Syntax OCTET STRING (SIZE (0..1024))

# **Understanding the Trap Description**

Table 26-1 lists in alphabetical order each line item that may appear in the trap description.

Table 26-1. Trap Description Reference

Description Line Item	Explanation	
Action performed was: <action></action>	Specifies the automatic server recovery action that was performed, for example:	
	Action performed was: Power cycle	
Action requested was: <action></action>	Specifies the user initiated host control action that was requested, for example:	
	Action requested was: Reboot, shutdown OS first	
Additional details: <additional details="" for<="" td=""><td colspan="2">Specifies possible additional details about the specified device, for example:</td></additional>	Specifies possible additional details about the specified device, for example:	
the events>	Additional details:	
	Memory device: DIMM_1A Serial number: 11111111	
	Memory device: DIMM_1B Serial number: 22222222	
<additional power<br="">supply status information&gt;</additional>	Specifies any additional power supply 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	
Battery sensor status: <status></status>	Specifies the status reported by the battery sensor, for example:	
	Battery sensor status: Predictive failure	

Table 26-1. Trap Description Reference (continued)

Description Line Item	Explanation		
Chassis intrusion state:	Specifies the chassis intrusion state (open or closed), for example:		
<intrusion state=""></intrusion>	Chassis intrusion state: Open		
Chassis location: <name chassis="" of=""></name>	Specifies the name of the chassis that generated the message, for example:		
	Chassis location: Main System Chassis		
Configuration error type: <type of<="" td=""><td>Specifies the type of configuration error that occurred, for example:</td></type>	Specifies the type of configuration error that occurred, for example:		
configuration error>	Configuration error type: Revision mismatch		
Current sensor value (in Amps): <reading></reading>	Specifies the current sensor value in amps, for example:		
	Current sensor value: 7.853		
Date and time of action: <date and="" time=""></date>	Specifies the date and time that an automatic server recovery action was performed, for example:		
	Date and time of action: Fri May 30 23:55:44 2003.		
Device location: <location chassis="" in=""></location>	Specifies the location of the device in the specified chassis, for example:		
	Device location: Mem Card A		
Discrete current state: <state></state>	Specifies the state of the current sensor, for example:		
	Discrete current state: Good		
Discrete temperature state: <state></state>	Specifies the state of the temperature sensor, for example:		
	Discrete temperature state: Good		

Table 26-1. Trap Description Reference (continued)

Description Line Item	Explanation	
Discrete voltage state: <state></state>	Specifies the state of the voltage sensor, for example:	
	Discrete voltage state: Good	
Fan sensor value: <reading></reading>	Specifies the fan speed in revolutions per minute (RPMs) or On/Off, for example:	
	Fan sensor value (in RPM): 2600	
	Fan sensor value: Off	
Log type: <log type=""></log>	Specifies the type of hardware log, for example:	
	Log type: Embedded Server Management (ESM)	
Memory device bank location: <pre> <bank chassis="" in="" name=""></bank></pre>	Specifies the name of the memory bank in the system that generated the message, for example:	
	Memory device bank location: Bank_1	
Memory device location: <pre></pre>	Specifies the location of the memory module in the chassis, for example:	
chassis>	Memory device location: DIMM_A	
Number of devices required for full redundancy: <number></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	
Peak value (in Watts):	Specifies the peak value in Watts, for example:	
<reading></reading>	Peak value (in Watts): 125	

Table 26-1. Trap Description Reference (continued)

Description Line Item	Explanation	
Possible memory module event cause: <list of<="" td=""><td colspan="2">Specifies a list of possible causes for the memory module event, for example:</td></list>	Specifies a list of possible causes for the memory module event, for example:	
causes>	Possible memory module event cause: Single bit warning error rate exceeded	
	Single bit error logging disabled	
Power Supply type:	Specifies the type of power supply, for example:	
<type of="" power="" supply=""></type>	Power Supply type: VRM	
Pre-failure state was: <state></state>	Specifies the status of the previous memory message, for example:	
	Pre-failure state was: Failed	
Previous redundancy state was: <state></state>	Specifies the status of the previous redundancy message, for example:	
	Previous redundancy state was: Lost	
Previous state was: <state></state>	Specifies the previous state of the sensor, for example:	
	Previous state was: OK (Normal)	
Processor sensor status:	Specifies the status of the processor sensor, for example:	
<status></status>	Processor sensor status: Configuration error	
Redundancy unit:	Specifies the location of the redundant power supply or cooling unit in the chassis, for example:	
<redundancy chassis="" in="" location=""></redundancy>		
	Redundancy unit: Fan Enclosure	
Sensor location: <location chassis="" in=""></location>	Specifies the location of the sensor in the specified chassis, for example:	
	Sensor location: CPU1	

Table 26-1. Trap Description Reference *(continued)* 

Description Line Item	Explanation	
Temperature sensor value (in degrees	Specifies the temperature in degrees Celsius, for example:	
Celsius):	Temperature sensor value (in	
<reading></reading>	degrees Celsius): 30	
Voltage sensor value (in Volts):	Specifies the voltage sensor value in volts, for example:	
<reading></reading>	Voltage sensor value: 1.693	

# **Understanding Trap Severity**

Traps often contain information about values recorded by probes or sensors. Probes and sensors monitor critical components for values such as amperage, voltage, and temperature. When an event occurs on your system, the Server Administrator sends information about one of the following event types to the system management console:

- Information/Informational 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.
- Critical/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.

# **Instrumentation Traps**

This section describes the traps that are generated by the Instrumentation service of the Server Administrator. All of the traps documented in this section belong to the MIB enterprise identified by OID 1.3.6.1.4.1.674.10892.1 and are sent with all of the trap variables documented in the section, "Trap Variables." The trap variables are sent in the order in which they are listed. The messages in the **Description** fields below show the

format of the message that is sent in the **alertMessage** varbind. If a message in a **Description** field has multiple lines, the message contains newline (0Ah) characters that are part of the value in the **alertMessage** varbind.

# **Miscellaneous Traps**

Table 26-2 lists Miscellaneous traps that inform you that certain alert systems are up and working.

Table 26-2. Miscellaneous Traps

Trap ID	Description	Severity	Cause
Syste	m Up		
1001	Server Administrator startup complete	Information	Server Administrator completed its initialization.
Therr	nal Shutdown		
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.
Autor	natic System Recovery		
1006	Recovery (ASR) automatic system action was performed due to system. The actio	Error	This message is generated when an automatic system recovery action is performed due to a hung operating system. The action performed and
		the date and time of the action are provided.	
	Date and time of action: <date and="" time=""></date>		

Table 26-2. Miscellaneous Traps (continued)

Trap ID	Description	Severity	Cause
Host	System Reset		
1007	User initiated host system control action Action requested was: <action></action>	Information	User requested a host system control action to reboot, power off, or power cycle the system or another event such as thermal shutdown protection initiated a power off, operating system shutdown.
Syste	m Peak Power New Peak		
1013	1013 System Peak Power Information detected new peak value	Information	This message is generated when the system peak power sensor has detected a new peak value.
	<pre>Peak value (in Watts): <reading></reading></pre>		

# **Temperature Probe Traps**

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

Table 26-3. Temperature Probe Traps

Trap ID	Description	Severity	Cause
Temper	ature Probe Normal		
1052	Temperature sensor returned to a normal value Sensor location:	Information	A temperature sensor on the backplane board, system board,
	<pre><location chassis="" in=""></location></pre>		or drive carrier in the specified system
	Chassis location: <name chassis="" of=""></name>		returned to a valid range after crossing a
	Previous state was: <state></state>		failure threshold.
	If sensor type is not discrete: Temperature sensor value (in		The sensor location, chassis location, previous state, and
	degrees Celsius): <reading></reading>		temperature sensor value are provided.
	<pre>If sensor type is discrete: Discrete temperature state: <state></state></pre>		varde are provided.
Temper	ature Probe Warning		
1053	Temperature sensor detected a warning value	Warning	A temperature senso on the backplane
	Sensor location: <location chassis="" in=""></location>		board, system board, or drive carrier in the specified system
	Chassis location: <name chassis="" of=""></name>		exceeded its warning threshold. The sensor
	Previous state was: <state></state>		location, chassis
	If sensor type is not discrete: Temperature sensor value (in degrees Celsius): <reading></reading>		location, previous state, and temperature sensor value are provided.
	<pre>If sensor type is discrete: Discrete temperature state: <state></state></pre>		

Table 26-3. Temperature Probe Traps (continued)

Trap ID	Description	Severity	Cause
Temper	ature Probe Failure		
1054	Temperature sensor detected a failure value	Error	A temperature senso on the backplane
	Sensor location: <location chassis="" in=""></location>		board, system board, or drive carrier in the
	Chassis location: <name chassis="" of=""></name>		specified system exceeded its failure threshold. The senso
	Previous state was: <state></state>		location, chassis
	If sensor type is not discrete:		location, previous state, and temperature sensor
	<pre>Temperature sensor value (in degrees Celsius): <reading></reading></pre>		value are provided.
	<pre>If sensor type is discrete: Discrete temperature state: <state></state></pre>		
Temper	ature Probe Nonrecoverable		
1055	Temperature sensor detected a non-recoverable value	Error	A temperature sensor on the backplane board, system board, or drive carrier in the specified system detected an error from which it cannot
	Sensor location: <location chassis="" in=""></location>	boa or o	
	Chassis location: <name chassis="" of=""></name>		
	Previous state was: <state></state>		recover. The sensor
	<pre>If sensor type is not discrete: Temperature sensor value (in degrees Celsius): <reading></reading></pre>	lo st te	location, chassis location, previous state, and temperature sensor value are provided.
	<pre>If sensor type is discrete: Discrete temperature state: <state></state></pre>		

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#### **Cooling Device Traps**

Cooling device traps monitor how well a fan is functioning.

Table 26-4. Cooling Device Traps

Trap ID	Description	Severity	Cause
Cooling	Device Normal		
1102	Fan sensor returned to a normal value	Information	A fan sensor reading on the specified
	Sensor location: <location chassis="" in=""></location>		system returned to a valid range after crossing a warning
	Chassis location: <name chassis="" of=""></name>		threshold. The sensor location,
	Previous state was: <state></state>		chassis location,
	Fan sensor value: <reading></reading>		previous state, and fan sensor value are provided.
Cooling	Device Warning		
1103	Fan sensor detected a warning value	Warning	A fan sensor reading in the specified
	Sensor location: <location chassis="" in=""></location>		system exceeded a warning threshold. The sensor location,
	Chassis location: <name chassis="" of=""></name>		chassis location, previous state, and
	Previous state was: <state></state>		fan sensor value are
	Fan sensor value: <reading></reading>		provided.

Table 26-4. Cooling Device Traps (continued)

Trap ID	Description	Severity	Cause
Cooling	Device Failure		
1104	Fan sensor detected a failure value	Error	A fan sensor in the specified system
	Sensor location: <location chassis="" in=""></location>		detected the failure of one or more fans. The sensor location,
	Chassis location: <name chassis="" of=""></name>		chassis location, previous state, and
	Previous state was: <state></state>		fan sensor value are
	Fan sensor value: <reading></reading>		provided.
Cooling	Device Nonrecoverable		
1105	Fan sensor detected a non-recoverable value	Error	A fan sensor detected an error from which
	Sensor location: <location chassis="" in=""></location>		it cannot recover. The sensor location, chassis location,
	Chassis location: <name chassis="" of=""></name>		previous state, and fan sensor value are
	Previous state was: <state></state>		provided.
	Fan sensor value: <reading></reading>		

#### **Voltage Probe Traps**

Voltage probes monitor the number of volts across critical components.

Table 26-5. Voltage Probe Traps

Trap ID	Description	Severity	Cause
Voltage	Probe Normal		
1152	Voltage sensor returned to a normal value	Information	specified system
	Sensor location: <location chassis="" in=""></location>		returned to a valid range after crossing a failure threshold. The sensor
	Chassis location: <name chassis="" of=""></name>		location, chassis location, previous state,
	Previous state was: <state></state>		and voltage sensor value
	<pre>If sensor type is not discrete: Voltage sensor value (in Volts): <reading></reading></pre>		are provided.
	<pre>If sensor type is discrete: Discrete voltage state: <state></state></pre>		
Voltage	Probe Warning		
1153	Voltage sensor detected a warning value	Warning	A voltage sensor in the specified system
	Sensor location: <location chassis="" in=""></location>		exceeded its warning threshold. The sensor
	Chassis location: <name chassis="" of=""></name>		location, chassis location, previous state, and voltage sensor value
	Previous state was: <state></state>		are provided.
	<pre>If sensor type is not discrete: Voltage sensor value (in Volts): <reading></reading></pre>		
	<pre>If sensor type is discrete: Discrete voltage state: <state></state></pre>		

Table 26-5. Voltage Probe Traps (continued)

Trap ID	Description	Severity	Cause
Voltage	Probe Failure		
1154	Voltage sensor detected a failure value	Error	A voltage sensor in the specified system
	Sensor location: <location chassis="" in=""></location>		exceeded its failure threshold. The sensor location, chassis
	Chassis location: <name chassis="" of=""></name>		location, previous state, and voltage sensor value
	Previous state was: <state></state>		are provided.
	<pre>If sensor type is not discrete: Voltage sensor value (in Volts): <reading></reading></pre>		
	<pre>If sensor type is discrete: Discrete voltage state: <state></state></pre>		
Voltage	Probe Nonrecoverable		
1155	Voltage sensor detected a non-recoverable value	Error	A voltage sensor in the specified system
	Sensor location: <location chassis="" in=""></location>		detected an error from which it cannot recover. The sensor location,
	Chassis location: <name chassis="" of=""></name>		chassis location, previous state, and
	Previous state was: <state></state>		voltage sensor value are
	<pre>If sensor type is not discrete: Voltage sensor value (in Volts): <reading></reading></pre>		provided.
	<pre>If sensor type is discrete: Discrete voltage state: <state></state></pre>		

#### **Amperage Probe Traps**

Amperage probes measure the amount of current (in amperes) that is traversing critical components.

Table 26-6. Amperage Probe Traps

Trap ID	Description	Severity	Cause
Ampera	ge Probe Normal		
1202	Current sensor returned to a normal value	Information	power supply for the specified system returned to a valid range
	Sensor location: <location chassis="" in=""></location>		
	Chassis location: <name chassis="" of=""></name>		after crossing a failure threshold. The sensor location, chassis
	Previous state was: <state></state>		location, previous state,
	<pre>If sensor type is not discrete: Current sensor value (in Amps): <reading></reading></pre>		and current sensor value are provided.
	<pre>If sensor type is discrete: Discrete current state: <state></state></pre>		
Ampera	ge Probe Warning		
1203	Current sensor detected a warning value	Warning	A current sensor on the power supply for the
	Sensor location: <location chassis="" in=""></location>		specified system exceeded its warning threshold. The sensor
	Chassis location: <name chassis="" of=""></name>		location, chassis location, previous state
	Previous state was: <state></state>		and current sensor value
	<pre>If sensor type is not discrete: Current sensor value (in Amps): <reading></reading></pre>		are provided.

If sensor type is discrete: Discrete current state:

<State>

 Table 26-6.
 Amperage Probe Traps (continued)

Trap ID	Description	Severity	Cause
Ampera	nge Probe Failure		
1204	Current sensor detected a failure value	Error	A current sensor on the power supply for the specified system exceeded its failure threshold. The sensor
	Sensor location: <location chassis="" in=""></location>		
	Chassis location: <name chassis="" of=""></name>		location, chassis location, previous state,
	Previous state was: <state></state>		and current sensor value
	<pre>If sensor type is not discrete: Current sensor value (in Amps): <reading></reading></pre>		are provided.
	<pre>If sensor type is discrete: Discrete current state: <state></state></pre>		
Ampera	nge Probe Nonrecoverable		
1205	Current sensor detected a non-recoverable value	Error	A current sensor in the specified system
	Sensor location: <location chassis="" in=""></location>		detected an error from which it cannot recover.
	Chassis location: <name chassis="" of=""></name>		The sensor location, chassis location, previou state, and current senso
	Previous state was: <state></state>		value are provided.
	<pre>If sensor type is not discrete: Current sensor value (in Amps): <reading></reading></pre>		
	<pre>If sensor type is discrete: Discrete current state: <state></state></pre>		

#### **Chassis Intrusion Traps**

Chassis intrusion traps 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 26-7. Chassis Intrusion Traps

Trap ID	Description	Severity	Cause
Chassis	Intrusion Normal		
1252	Chassis intrusion returned to normal	Information	sensor in the specified
	Sensor location: <location chassis="" in=""></location>		system detected that a cover was opened while the system was
	Chassis location: <name chassis="" of=""></name>		operating but has since been replaced. The
	Previous state was: <state></state>		sensor location, chassis location, previous state,
	Chassis intrusion state: <intrusion state=""></intrusion>		and chassis intrusion state are provided.
Chassis	Intrusion Detected		
1254	Chassis intrusion detected	Error	A chassis intrusion
	Sensor location: <location chassis="" in=""></location>		sensor in the specified system detected that the system cover was
	Chassis location: <name chassis="" of=""></name>		opened while the system was operating.
	Previous state was: <state></state>		The sensor location, chassis location,
	Chassis intrusion state: <intrusion state=""></intrusion>		previous state, and chassis intrusion state are provided.

#### **Redundancy Unit Traps**

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 *nth* 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.

The number of devices required for full redundancy is provided as part of the trap message when applicable for the redundancy unit and the platform. For more details on redundancy computation, please refer to the respective platform documentation.

Table 26-8. Redundancy Unit Traps

Trap ID	Description	Severity	Cause
Redund	ancy Normal		
1304	Redundancy regained Redundancy unit: <redundancy chassis="" in="" location=""> Chassis location: <name chassis="" of=""> Previous redundancy state was: <state> Number of devices required for full redundancy: <number></number></state></name></redundancy>	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, and previous redundancy state are provided.

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Table 26-8. Redundancy Unit Traps (continued)

Trap ID	Description	Severity	Cause
Redun	dancy Degraded		
1305	Redundancy degraded	Warning	A redundancy sensor in the
	Redundancy unit: <redundancy in<br="" location="">chassis&gt;</redundancy>		specified system detected that one of the components of the redundancy unit has failed but the unit is still
	Chassis location: <name chassis="" of=""></name>		redundant. The redundancy unit location, chassis
	Previous redundancy state was: < <i>State</i> >		location, and previous redundancy state are
	Number of devices required for full redundancy: <number></number>		provided.
Redun	dancy Lost		
1306	Redundancy lost	Warning or	A redundancy sensor in the
	Redundancy unit: <redundancy in<br="" location="">chassis&gt;</redundancy>	Error (depending on the number of	in the redundant unit has
	Chassis location: <name chassis="" of=""></name>	units that	been disconnected, has failed, or is not present. The redundancy unit location,
	Previous redundancy state was: < <i>State</i> >	functional)	chassis location, and previous redundancy state
	Number of devices required for full redundancy: <number></number>		are provided.

#### **Power Supply Traps**

Power supply traps provide status and warning information for power supplies present in a particular chassis.

Table 26-9. Power Supply Traps

Trap ID	Description	Severity	Cause
Power	Supply Normal		
1352	Power supply returned to normal	Information	A power supply has been reconnected or replaced.
	Sensor location: <location chassis="" in=""></location>		The sensor location, chassis location, previous state, and additional information
	Chassis location: <name chassis="" of=""></name>		about the power supply event are provided.
	Previous state was: <state></state>		
	Power Supply type: <type of="" power="" supply=""></type>		
	<pre><additional information="" power="" status="" supply=""></additional></pre>		
	If in configuration error state: Configuration error type: <type of<br="">configuration error&gt;</type>		

Table 26-9. Power Supply Traps (continued)

Trap II	) Description	Severity
Power	Supply Warning	
1353	Power supply detected a warning	Warning
	Sensor location: <location chassis="" in=""></location>	
	Chassis location: <name chassis="" of=""></name>	
	Previous state was: < <i>State</i> >	
	Power Supply type: <type of="" power="" supply=""></type>	
	<additional power<br="">supply status information&gt;</additional>	
	If in configuration error state: Configuration error type: <type of<br="">configuration error&gt;</type>	

A power supply sensor has detected a warning condition. The sensor location, chassis location, previous state, and additional power supply status information are provided.

Cause

Table 26-9. Power Supply Traps (continued)

Trap ID	Description	Severity	Cause
Power	Supply Failure		
1354	Power supply detected a failure	Error	A power supply has been disconnected or has failed.
	Sensor location: <location chassis="" in=""></location>	location, pro	The sensor location, chassis location, previous state, and additional information
	Chassis location: <name chassis="" of=""></name>		about the power supply event are provided.
	Previous state was: < <i>State</i> >		
	Power Supply type: <type of="" power="" supply=""></type>		
	<additional power<br="">supply status information&gt;</additional>		
	<pre>If in configuration error state: Configuration error type: <type configuration="" error="" of=""></type></pre>		

#### **Memory Device Traps**

Memory device messages 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 26-10.

Table 26-10. Memory Device Messages

Trap ID	Description	Severity	Cause
1403	Memory device status is <status></status>	Warning	A memory device correction rate exceeded an acceptable
_	Memory device location: <location chassis="" in=""></location>		value. The memory device status and location are provided.
	Possible memory module event cause: <pre><li>causes&gt;</li></pre>		provided.
1404	Memory device status is <status></status>	Error	A memory device correction rate exceeded an acceptable
	Memory device location: <location chassis="" in=""></location>		value, a memory spare bank was activated, or a
	Possible memory module event cause: <list of<br="">causes&gt;</list>		Uncorrectable Memory Event occurred. The system continues to function normally (except for a Uncorrectable Memory Event). Clear the memory error on Uncorrectable Memory Event. Replace the memory module identified in the message during the system's next scheduled maintenance. The memory device status and location are provided.

#### **Fan Enclosure Traps**

Some systems are equipped with a protective enclosure for fans. Fan enclosure traps monitor enclosures for whether foreign objects are present and for how long a fan enclosure is absent from a chassis.

Table 26-11. Fan Enclosure Traps

Trap ID	Description	Severity	Cause
Fan En	closure Insertion		
1452	Fan enclosure inserted into system	Information	A fan enclosure has been inserted into the specified
	Sensor location: <location chassis="" in=""></location>		system. The sensor location and chassis location are provided.
	Chassis location: <name chassis="" of=""></name>		location are provided.
Fan En	closure Removal		
1453	Fan enclosure removed from system	Warning	A fan enclosure has been removed from the specified
	Sensor location: <location chassis="" in=""></location>		system. The sensor location and chassis location are provided.
	Chassis location: <name chassis="" of=""></name>		location are provided.
Fan En	closure Extended Removal		
1454	Fan enclosure removed from system for an extended amount of time	Error	A fan enclosure has been removed from the specified system for a user-definable length of time. The sensor
	Sensor location: <location chassis="" in=""></location>		location and chassis location are provided.
	Chassis location: <name chassis="" of=""></name>		

#### **AC Power Cord Traps**

The AC power cord sensor monitors the presence of AC power for an AC power cord. AC power cord traps provide status and warning information for power cords that are part of an AC power switch, if your system supports AC switching.

Table 26-12. AC Power Cord Traps

Trap ID	Description	Severity	Cause
AC Pov	ver Cord No Power Nonredundant		
1501	AC power cord is not being monitored Sensor location: <location chassis="" in=""> Chassis location: <name chassis="" of=""></name></location>	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.
AC Pov	ver Cord Normal		
1502	AC power has been restored Sensor location: <location chassis="" in=""> Chassis location:</location>	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.
AC Pov	<pre><name chassis="" of=""> ver Cord Failure</name></pre>		
		E	A AC 11 1 .
1504	AC power has been lost Sensor location: <location chassis="" in=""> Chassis location: <name chassis="" of=""></name></location>	Error	An AC power cord has lost its power. The sensor location and chassis location information are provided.

#### **Hardware Log Traps**

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 provide status and warning information about the noncircular logs that may fill up, resulting in lost status messages.

Table 26-13. Hardware Log Traps

Trap ID	Description	Severity	Cause
Hardwa	re Log Normal		
1552	Log size is no longer near or at capacity Log type: <log type=""></log>	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.
Hardwa	re Log Warning		
1553	Log size is near or at capacity Log type: <log type=""></log>	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.
Hardwa	re Log Full		
1554	Log size is full Log type: <log type=""></log>	Error	The size of a hardware log on the specified system is at the capacity of the hardware log. The log type information is provided.

#### **Processor Device Status Traps**

The BMC on some systems reports the status of processor devices. Processor device status traps provide status and warning information for processor devices present in a system with a BMC that reports the status of processor devices.

Table 26-14. Processor Device Status Traps

Trap ID	Description	Severity	Cause	
Proces	sor Device Status Normal			
1602	1602 Processor sensor In returned to a normal value	transitioned ba normal state. T location, chass previous state a	A processor sensor in the specified system transitioned back to a	
	Sensor Location: <location chassis="" in=""></location>		previous state and pr	location, chassis location,
	Chassis Location: <name chassis="" of=""></name>			sensor status are provided.
	Previous state was: <state></state>			
	Processor sensor status: <status></status>			
Proces	sor Device Status Warning			
1603	Processor sensor detected a warning value	specified syste throttled state location, chas previous state	A processor sensor in the specified system is in a throttled state. The sensor	
	Sensor Location: <location chassis="" in=""></location>		location, chassis location, previous state and processor	
	Chassis Location: <name chassis="" of=""></name>		sensor status are provided.	
	Previous state was: <state></state>			
	Processor sensor status: <status></status>			

Table 26-14. Processor Device Status Traps (continued)

Trap II	) Description	Severity	Cause
Proces	ssor Device Status Failure		
1604	Processor sensor detected a failure value	Error	A processor sensor in the specified system is disabled, has a configuration error, or
	Sensor Location: <location chassis="" in=""></location>		experienced a thermal trip. The sensor location, chassis
	Chassis Location: <name chassis="" of=""></name>		location, previous state and processor sensor status are provided.
	Previous state was: <state></state>		
	Processor sensor status: <status></status>		

#### **Pluggable Device Traps**

Server Administrator monitors the addition and removal of pluggable devices such as memory cards. Device traps provide information about the addition and removal of such devices.

Table 26-15. Pluggable Device Traps

Trap II	) Description	Severity	Cause
Plugga	able Device Addition		
1651	Device added to system	Information	A device was added to the
	Device Location: <location chassis="" in=""></location>		specified system. The device location, chassis location, and additional event details, if available, are provided.
	Chassis Location: <name chassis="" of=""></name>		
	Additional Details: <additional details="" for<br="">the events&gt;</additional>		•

Table 26-15. Pluggable Device Traps *(continued)* 

Trap ID	Description	Severity	Cause
Plugga	ble Device Removal		
1652	Device removed from system  Device Location: <pre> <p< td=""><td>Information</td><td>A device was removed from the specified system. The device location, chassis</td></p<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	Information	A device was removed from the specified system. The device location, chassis
	Chassis Location: <name chassis="" of=""></name>		location, and additional event details, if available, are provided.
<add< td=""><td>Additional Details: <additional details="" events="" for="" the=""></additional></td><td></td><td>•</td></add<>	Additional Details: <additional details="" events="" for="" the=""></additional>		•
Pluggal	ble Device Configuration Error		
1653	Device configuration error detected	Error	A configuration error was detected for a pluggable
	Device Location: <location chassis="" in=""></location>		device in the specified system. The device may have been added to the
	Chassis Location: <name chassis="" of=""></name>		system incorrectly. The device location, chassis
	Additional Details: <additional details="" events="" for="" the=""></additional>		location, and additional event details, if available, are provided.

#### **Battery Traps**

The BMC on some systems reports the status of batteries. Battery traps provide status and warning information for batteries present in a system with a BMC that reports the status of batteries.

Table 26-16. Battery Traps

Trap ID	Description	Severity	Cause
Battery	Normal		
1702	Battery sensor returned to a normal value Sensor Location: <location chassis="" in=""> Chassis Location: <name of chassis&gt; Previous state was: <state> Battery sensor status: <status></status></state></name </location>	Information	A battery sensor in the specified system detected that a battery transitioned back to a normal state. The sensor location, chassis location, previous state, and battery sensor status are provided.
Battery	Warning		
1703	Battery sensor detected a warning value Sensor Location: <location chassis="" in=""> Chassis Location: <name of chassis&gt; Previous state was: <state></state></name </location>	Warning	A battery sensor in the specified system detected that a battery is in a predictive failure state. The sensor location, chassis location, previous state, and battery sensor status are provided.
	Battery sensor status: <status></status>		

Table 26-16. Battery Traps (continued)

Trap ID	Description	Severity	Cause
Battery	/ Failure		
1704	Battery sensor detected a failure value	sp tl: T cl e st	A battery sensor in the specified system detected
	Sensor Location: <location chassis="" in=""></location>		that a battery has failed. The sensor location,
	Chassis Location: <name chassis="" of=""></name>		chassis location, previous state, and battery sensor status are provided.
	Previous state was: <state></state>		·
	Battery sensor status: <status></status>		

## **RAC Traps**

This section describes the traps that are generated by the SNMP agent of the Remote Access Controller (RAC). All of the enterprise-specific traps documented in this section belong to the MIB enterprise identified by OID 1.3.6.1.4.1.674.10892.2 and are sent with all of the trap variables documented in the section "Traps". The trap variables are sent in the order in which they are listed.

Table 26-17. Generic Traps

Trap ID	Name	Description	Severity	Category	Cause	Supported by RAC Platform
0	CodeStart	SNMP agent is initializing itself	Information	Status	RAC power on or reset.	All
1	Authentic ation Failure	Request received with an invalid community name	Critical	Error	SNMP request with an invalid community name.	All

Table 26-18. Enterprise-specific Traps

Trap ID	Name	Description	Severity	Category	Cause	Supported by RAC Platform
1001	alertDrscTest TrapEvent	The RAC generated a test trap event in response to a user request	Information	Status	A test SNMP trap generated by a RAC.	All
1002	alertDrscAuth Error	RAC Authentica tion failures during a time period have exceeded a threshold	Minor	Error	RAC login failure caused by authenticatio n failure, number of concurrent logins exceed limit, or permission denied.	All
1003	alertDrscLost ESM	The RAC cannot communicate with the baseboard management controller (ESM)	Critical	Error	RAC lost communicati on with ESM.	Dell™ Remote Access Controller (DRAC) III

Table 26-18. Enterprise-specific Traps (continued)

Trap ID	Name	Description	Severity	Category	Cause	Supported by RAC Platform
1004	alertDrscFound ESM	The RAC is communicat ing normally with the baseboard management controller (ESM)	Information	Error	RAC recovered communicati on with ESM.	DRAC III
1005	alertDrscPower Off	The RAC has detected a system power state change to powered-off	Critical	Error	RAC detected a system power state change to power-off.	DRAC III
1006	alertDrscPower On	The RAC has detected a system power state change to powered-on	Information	Еггог	RAC detected a system power state change to power-on.	DRAC III

Table 26-18. Enterprise-specific Traps (continued)

Trap ID	Name	Description	Severity	Category	Cause	Supported by RAC Platform
1007	alertDrsc Watchdog Expired	The RAC has detected that the system watchdog has expired indicating a system hang	Critical	Event	RAC has detected the system watchdog expired (normally indicating a system hang).	DRAC III
1008	alertDrscBatt Low	The RAC Battery charge is below 25% indicating that the battery may only be able to power the DRSC for 8-10 minutes	Minor	Error	RAC detected its battery charge is below 25% full.	DRAC III
1009	alertDrscTemp Normal	The RAC Temperature probe has returned to a normal value	Information	Status	RAC temperature probe reading returned to normal.	DRAC III

Table 26-18. Enterprise-specific Traps (continued)

Trap ID	Name	Description	Severity	Category	Cause	Supported by RAC Platform
1010	alertDrscTemp Warning	The RAC Temperature probe has detected a Warning value	Minor	Status	RAC temperature probe reading exceeded warning threshold.	DRAC III
1011	alertDrscTemp Critical	The RAC Temperature probe has detected a failure (or critical) value	Critical	Error	RAC temperature probe reading exceeded critical threshold.	DRAC III
1012	alertDrscVolt Normal	The RAC voltage has returned to a normal value	Information	Error	RAC voltage probe reading returns to normal.	DRAC III
1013	alertDrscVolt Warning	The RAC voltage probe has detected a warning value	Minor	Error	RAC voltage probe reading exceeded warning threshold.	DRAC III
1014	alertDrscVolt Critical	The RAC voltage probe has detected a failure (or critical) value	Critical	Error	RAC voltage probe reading exceeded critical threshold.	DRAC III

Table 26-18. Enterprise-specific Traps (continued)

Trap ID	Name	Description	Severity	Category	Cause	Supported by RAC Platform
1015	alertDrscSEL Warning	The RAC has detected a new event in the System Event Log with Severity: Warning	Major	Error	RAC detected a new system event log with warning severity (detailed log info is in drsAlert Message varbind).	All
1016	alertDrscSEL Critical	The RAC has detected a new event in the System Event Log with Severity: Critical	Critical	Епот	RAC detected a new system event log with critical severity (detailed log info is in drsAlert Message varbind).	All
1017	alertDrscSEL 80 percentFull	The RAC system event log is 80% full	Major	Status	RAC detected system event log is 80% full.	All
1018	alertDrscSEL 90 percentFull	The RAC system event log is 90% full	Major	Status	RAC detected system event log is 90% full.	All

Table 26-18. Enterprise-specific Traps (continued)

Trap ID	Name	Description	Severity	Category	Cause	Supported by RAC Platform
1019	alertDrscSEL 100 percentFull	The RAC system event log is 100% full	Major	Status	RAC detected system event log is 100% full.	All
1020	alertDrscSEL Normal	The RAC has detected a new event in the System Event Log with Severity: Normal	Information	Error	RAC detected a new system event log with normal severity (detailed log info is in drsAlert Message varbind).	All

## **BMC Traps**

The BMC monitors the system for critical events by communicating with various sensors on the system board and by sending alerts and log events when certain parameters exceed their preset thresholds. All of the traps documented in this section belong to the MIB enterprise identified by OID 1.3.6.1.4.1.3183.1.1.1.

Table 26-19. BMC Traps

Trap ID	Description	Severity
262402	Generic Critical Fan Failure	Critical
262530	Generic Critical Fan Failure Cleared	Informational
131330	Under-Voltage Problem (Lower Critical - going low)	Critical
131458	Under-Voltage Problem Cleared	Informational

Table 26-19. BMC Traps (continued)

Trap ID	Description	Severity
131841	Generic Critical Voltage Problem	Critical
131840	Generic Critical Voltage Problem Cleared	Informational
65792	Under-Temperature Warning (Lower non-critical, going low)	Warning
65920	Under-Temperature Warning Cleared	Informational
65794	Under-Temperature Problem (Lower Critical - going low)	Critical
65922	Under-Temperature Problem Cleared	Informational
65799	Over-Temperature warning (Upper non-critical, going high)	Minor
65927	Over-Temperature warning Cleared	Informational
65801	Over-Temperature Problem (Upper Critical - going high)	Critical
65929	Over-Temperature Problem Cleared	Informational
131328	Under-Voltage Warning (Lower Non Critical - going low)	Warning
131456	Under-Voltage Warning Cleared	Informational
131330	Under-Voltage Problem (Lower Critical - going low)	Critical
131458	Under-Voltage Problem Cleared	Informational
131335	Over-Voltage Warning (Upper Non Critical - going high)	Warning
131463	Over-Voltage Warning Cleared	Informational
131337	Over-Voltage Problem (Upper Critical - going high)	Critical
131465	Over-Voltage Problem Cleared	Informational
131841	Generic Critical Voltage Problem	Critical
131840	Generic Critical Voltage Problem Cleared	Informational

Table 26-19. BMC Traps (continued)

Trap ID	Description	Severity
356096	Chassis Intrusion - Physical Security Violation	Critical
356224	Chassis Intrusion (Physical Security Violation) Event Cleared	Informational
262400	Generic Predictive Fan Failure (predictive failure asserted)	Minor
262528	Generic Predictive Fan Failure Cleared	Informational
262402	Generic Critical Fan Failure	Critical
262530	Generic Critical Fan Failure Cleared	Informational
264962	Fan redundancy has been degraded	Warning
264961	Fan Redundancy Lost	Critical
264960	Fan redundancy Has Returned to Normal	Informational
2715392	Battery Low (Predictive Failure)	Warning
2715520	Battery Low (Predictive Failure) Cleared	Informational
2715393	Battery Failure	Critical
2715521	Battery Failure Cleared	Informational
487169	CPU Thermal Trip (Over Temperature Shutdown)	Critical
487297	CPU Thermal Trip (Over Temperature Shutdown) Cleared	Informational
487168	CPU Internal Error	Critical
487296	CPU Internal Error Cleared	Informational
487173	CPU Configuration Error	Critical
487301	CPU Configuration Error Cleared	Informational
487175	CPU Presence (Processor Presence detected)	Informational
487303	CPU Not Present (Processor Not Present)	Critical
487170	CPU BIST (Built In Self Test) Failure	Critical

Table 26-19. BMC Traps (continued)

Trap ID	Description	Severity
487298	CPU BIST (Built In Self Test) Failure Cleared	Informational
487176	CPU Disabled (Processor Disabled)	Critical
487304	CPU Enabled (Processor Enabled)	Informational
487178	CPU Throttle (Processor Speed Reduced)	Warning
487306	CPU Throttle Cleared (Normal Processor Speed)	Informational
527106	Power Supply Redundancy Degraded	Warning
527105	Power Supply Redundancy Lost	Critical
527104	Power Supply Redundancy Has Returned to Normal	Informational
552704	Power Supply Inserted	Informational
552832	Power Supply Removed	Warning
552705	Power Supply Failure	Critical
552833	Power Supply Failure Cleared	Informational
552706	Power Supply Warning	Warning
552834	Power Supply Warning Cleared	Informational
552707	Power Supply AC Lost	Critical
552835	Power Supply AC Restored	Informational
789249	Memory Redundancy Has Been Lost	Critical
789248	Memory redundancy Has Returned to Normal	Informational
1076994	System Event Log (SEL) Cleared	Informational

Table 26-19. BMC Traps (continued)

Trap ID	Description	Severity
1076996	System Event Log (SEL) Full (Logging Disabled)	Critical
2322176	ASR (Automatic System Recovery) Timer Expired	Critical
2322177	ASR (Automatic System Recovery) Reset Occurred	Critical
2322178	ASR (Automatic System Recovery) Power Down Occurred	Critical
2322179	ASR (Automatic System Recovery) Power Cycle Occurred	Critical

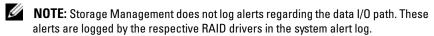
# Storage Management Alert Reference

Storage Management's alert or event management features let you monitor the health of storage resources such as controllers, connectors, array disks, and virtual disks.

## Alert Monitoring and Logging

The Storage Management Service performs alert monitoring and logging. By default, the Storage Management Service starts when the managed system starts up. If you stop the Disk Management Service, then alert monitoring and logging stops. Alert monitoring does the following:

- Updates the status of the storage object that generated the alert.
- Propagates the storage object's status to all the related higher objects in the storage hierarchy. For example, the status of a lower-level object will be propagated up to the status displayed on the Health tab for the top-level storage object.
- Logs an alert into the Alert log and Microsoft<sup>®</sup> Windows<sup>®</sup> application log.
- Sends an Simple Network Management Protocol (SNMP) trap if the operating system's SNMP service is installed and enabled.



## **Viewing Alerts**

Storage Management generates alerts that are added to the Windows application alert log and to the Server Administrator Alert log. To view these alerts in Server Administrator:

- Select the **System** object in the tree view.
- Select the **Logs** tab.
- **3** Select the **Alert** subtab.



**NOTE:** You can also view these alerts in the Windows Event Viewer. Every alert consists of the following:

- Severity Shows the severity of alert.
- Date and Time Date and time when Storage Management logged the alert.
- **Description** A brief description of the alert. To expand or collapse the alert description, click the **Description** column heading.

## **Alert Severity Levels**

Each alert message in the Storage Management alert log has a severity level. The severity level is displayed in the **Severity** field of the alert message. The severity level indicates the nature of the alert.

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The alert severity levels are as follows:

Table 27-1. Storage Management Alert Severity

Alert Severity	Component Status
OK/Normal/Informational	No action is required. The alert is provided for informational purposes and does not indicate an error condition. For example, the alert may indicate the normal start or stop of an operation.
Warning/Non-critical	A component requires attention. This alert indicates a potential problem, but does not necessarily mean that the system has currently lost data or is nonfunctional. For example, a Warning/Non-critical alert may indicate that a component (such as a temperature probe in an enclosure) has crossed a warning threshold.
Critical/Failure/Error	A component has either failed or failure is imminent. This alert indicates a serious problem such as data loss or a loss of function. For example, a Critical/Failure/Error alert may indicate that an array disk has failed.

# **SNMP Support for Storage Management Alerts**

By default, Storage Management installs SNMP trap forwarding support. For this support to function, you should have SNMP installed on the managed system prior to installing Storage Management.



**NOTE**: For more information on installation requirements and SNMP, see the Server Administrator documentation.

# **SNMP Trap Forwarding**

The Storage Management alerts are displayed in the Server Administrator alert log and are forwarded to the Windows application alert log. If you have SNMP installed on the managed system (and the SNMP service is running), the Storage Management alerts in the Windows application alert log will be forwarded as SNMP traps. In order for these traps to be viewable, however, a target system or application must be configured to receive these traps. SNMP traps that are generated by Storage Management can be viewed in any standard SNMP-compatible enterprise management console.

The Windows SNMP service must be configured to forward the SNMP traps to the target system or application. When forwarding to an application, the application should also be configured to receive the SNMP traps. The IT Assistant application is already configured to receive the SNMP traps generated by Storage Management.

See your Windows operating system documentation for information on configuring the operating system to forward SNMP traps. This information may be located under such topics as "setting up SNMP" or "SNMP traps." When configuring SNMP for Windows, be sure that the SNMP traps are forwarded to the correct server. For information on configuring an application to receive SNMP traps, see the documentation for that application.

# **SNMP Trap Definitions**

The Storage Management management information base (MIB) defines the SNMP traps that Storage Management generates. These traps correspond to the alerts documented in the "Alert Descriptions and Corrective Actions" section. The MIB is located in ..\sm\mibs\dcstorag.mib, a subdirectory of the Storage Management installation directory.



**NOTE:** Storage Management supports trap forwarding on both 32-bit and 64-bit operating systems.

# SNMP Trap Variables

The Storage Management SNMP traps use a set of variables that are included with every trap. These variables are the following:

- messageIDEvent
- descriptionEvent
- locationEvent
- objectNameEvent
- objectOIDEvent
- objectNexusEvent
- currentStatusEvent
- previousStatusEvent

# Viewing SNMP Traps

SNMP traps that are generated by Storage Management can be viewed in any standard SNMP-compatible enterprise management console. These traps are defined in the Storage Management MIB. These traps correspond to the alerts documented in the "Alert Descriptions and Corrective Actions" section. For more information on the MIB and its structure, as well as a change history of the SNMP traps, see the "Introduction" section. For more information on configuring SNMP, see "SNMP Support for Storage Management Alerts."

# **Alert Descriptions and Corrective Actions**

The alerts generated by the redundant array of independent disks (RAID) or Small Computer System Interface (SCSI) controllers and supported by Storage Management are displayed in the Server Administrator Alert subtab or through Windows Event Viewer. These alerts can also be forwarded as SNMP traps to other applications.

SNMP traps that are generated for the alerts are included in the Storage Management MIB. The SNMP traps for these alerts use all of the SNMP trap variables. For the list of storage management alerts and storage management messages, see the *Dell OpenManage Server Administrator Messages Reference Guide*. This guide is available on the *Dell Support website* at **support.dell.com** and on the *Dell Systems Management Tools and Documentation* DVD.



# **Standard Data Type Definitions**

This appendix contains definitions for data types that are standard in most contexts across the information technology industry. These are the most common data types for describing variable values defined in the 10892.mib, dcs3rmt.mib and dcs3fru.mib files. Server Administrator-specific variable values are defined in the last section of the section in which they are introduced.

# **Common Data Types**

Common data types include several types of strings, the object range, signed and unsigned bit ranges, and the familiar Boolean (true or false) data type.

Table A-1. Common Data Types

Variable Name:	Definition
DellString	DisplayString (SIZE (064))
DellSecurityString	DisplayString (SIZE (0255))
DellCostofOwnershipString	DisplayString (SIZE (064))
DellObjectRange	INTEGER (1128)
DellUnsigned8BitRange	INTEGER (1256)
DellUnsigned16BitRange	INTEGER (165535)
DellUnsigned32BitRange	INTEGER (12147483647)
DellSigned32BitRange	INTEGER (-21474836472147483647)
DellBoolean	INTEGER $(01 \text{ (FALSE} = 0, TRUE = 1))$

# Variables with Data Types of State Capabilities and State Capabilities Unique

Variables with definitions of <variable name>StateCapabilities or <variable name>StateCapabilitiesUnique are integers representing a series of bit definitions. They are NOT enumerations and should be treated as bit fields. The value is passed as a decimal value. The decimal value should be converted to hex and the appropriate bits should be parsed from hex. Some of the more common bit combinations are defined in some variables, but not all combinations are or will be defined.

Table A-2. Dell State Capabilities

Variable Name: DellStateCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
if set to zero(0)	The object has no capabilities.
unknownCapabilities(1)	The object's capabilities are unknown.
enableCapable(2)	The object can be disabled (offline, a binary 0 value) or enabled (online, a binary 1 value).
notReadyCapable(4)	The object is not ready.
enableAndNotReadyCapable (6)	Enable and not ready capable.

#### Table A-3. Dell State Settings

Variable Name: DellStateSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
if set to zero(0)	The object has no settings capabilities and its state is disabled.
unknown(1)	The object's state is unknown.

Table A-3. Dell State Settings (continued)

Variable Name: DellStateSettings

Data Type: Integer

Possible Data Values	Meaning of Data Value
enabled(2)	The object's state is disabled (offline, a binary 0 value) or enabled (online, a binary 1 value).
notReady(4)	The object is not ready.
enableAndNotReady(6)	The object is enabled and not ready.

Table A-4. Dell Probe Capabilities

Variable Name: DellProbeCapabilities

Data Type: Integer

Possible Data Values	Meaning of Data Value
if set to zero(0)	The object has no capabilities.
upperNonCriticalThresholdSet Capable(1)	The upper noncritical threshold can be set.
lowerNonCriticalThresholdSet Capable(2)	The lower noncritical threshold can be set.
upperNonCriticalThresholdDef aultCapable(4)	The upper noncritical threshold can be set to default.
lowerNonCriticalThresholdDef aultCapable(8)	The lower noncritical threshold can be set to default.

# **Dell Status Data Types**

Status data types include DellStatus, DellStatusRedundancy, and DellStatusProbe.

#### Table A-5. Dell Status

Variable Name: DellStatus

Data Type: Integer

Possible Data Values	Meaning of Data Value
other(1)	The object's status is not one of the following:
unknown(2)	The object's status is unknown.
ok(3)	The object's status is OK.
nonCritical(4)	The object's status is warning, noncritical.
critical(5)	The object's status is critical (failure).
nonRecoverable(6)	The object's status is nonrecoverable (dead).

# Table A-6. Dell Status Redundancy

Variable Name: DellStatusRedundancy

Data Type: Integer

Possible Data Values	Meaning of Data Value
other(1)	The object's status is not one of the following:
unknown(2)	The object's redundancy status is unknown.
full(3)	The object is fully redundant.
degraded(4)	The object's redundancy has been degraded.
lost(5)	The object's redundancy has been lost.
notRedundant(6)	Redundancy does not apply or it is not redundant.

Table A-7. Dell Status Probe

Variable Name: DellStatusProbe

Data Type: Integer

Possible Data Values	Meaning of Data Value
other(1)	The object's status is not one of the following:
unknown(2)	The status of the object is unknown.
ok(3)	The status of the object is OK.
nonCriticalUpper(4)	The object is at the noncritical upper limit.
CriticalUpper(5)	The object is at the critical upper limit.
nonRecoverableUpper(6)	The object is at the nonrecoverable upper limit.
nonCriticalLower(7)	The object is at the noncritical lower limit.
criticalLower(8)	The object is at the critical lower limit.
nonRecoverableLower(9)	The object is at the nonrecoverable lower limit.
failed(10)	The status of the object is failed.

# **Dell Date**

Variable Name: DellDate

Data Type: DellUnsigned64BitRange OCTET STRING (SIZE(8))

#### **Full Dates**

Variable Name: DellDateName

Data Type: DisplayString (SIZE (25))

Full dates are defined in the ASCII format:

yyyyMMddhhmmss.uuuuuu+fff or yyyyMMddhhmmss.uuuuuu-fff

where *yyyy* is the year, *MM* is the month, *dd* is the day, *hh* are the hours, *mm* are the minutes, and *ss* are the seconds. *uuuuuu* is the number of microseconds, and +fff or

-fff is the offset from UTC in minutes. For example, Friday, October 31, 2001, at 6:05:19 PM CST would be represented as 20011031180519.000000-360.

The values are zero-padded, and if a valid value for a field is not deliverable, each character in the field will be replaced with an asterisk (\*) character.

ı

# **SNMP Sample Output**

This sample output from the Simple Network Management Protocol (SNMP) covers the first four groups of the Instrumentation management information base (MIB). Values are shown for each object identifier (OID) in the Instrumentation MIB Version Group, the Systems Management Software Group, the System State Group, the Chassis Information Table, and Event Log Table. The data is from a Dell™ PowerEdge™ 2650 system.

```
Walk .1.3.6.1.4.1.674.10892 (Agent: 'SERVER01', Community: 'public')
```

.iso.org.dod.internet.private.enterprises.dell.server3

```
1.3.6.1.4.1.674.10892.1.1.1.0
                                  5
1.3.6.1.4.1.674.10892.1.1.2.0
                                  3
1.3.6.1.4.1.674.10892.1.1.3.0
                                  0
1.3.6.1.4.1.674.10892.1.100.1.0
                                     'Server
Administrator'
1.3.6.1.4.1.674.10892.1.100.2.0
                                     '5.3.0'
1.3.6.1.4.1.674.10892.1.100.3.0
                                     4522
1.3.6.1.4.1.674.10892.1.100.4.0
                                     'Management
software for Dell systems.'
1.3.6.1.4.1.674.10892.1.100.5.0
1.3.6.1.4.1.674.10892.1.100.6.0
1.3.6.1.4.1.674.10892.1.100.7.0
                                    'No Updates'
1.3.6.1.4.1.674.10892.1.100.8.0
'https://1.2.3.4:1311'
1.3.6.1.4.1.674.10892.1.100.9.0
                                     'en US'
```

```
1.3.6.1.4.1.674.10892.1.100.11.0 =
                                0
1.3.6.1.4.1.674.10892.1.100.12.0
                                1
1.3.6.1.4.1.674.10892.1.100.13.0 = 'Dell Inc.'
1.3.6.1.4.1.674.10892.1.200.10.1.1.1
                                   1
1.3.6.1.4.1.674.10892.1.200.10.1.2.1
                                   3
1.3.6.1.4.1.674.10892.1.200.10.1.3.1
                                   2.
1.3.6.1.4.1.674.10892.1.200.10.1.4.1
                                   3
1.3.6.1.4.1.674.10892.1.200.10.1.5.1 = '\02'
1.3.6.1.4.1.674.10892.1.200.10.1.6.1
                                   3
1.3.6.1.4.1.674.10892.1.200.10.1.7.1
                                = '\03'
1.3.6.1.4.1.674.10892.1.200.10.1.8.1
                                   '\02\02'
                                =
1.3.6.1.4.1.674.10892.1.200.10.1.9.1 =
                                   3
1.3.6.1.4.1.674.10892.1.200.10.1.10.1 = '\03\03'
1.3.6.1.4.1.674.10892.1.200.10.1.11.1
02\02\02'
1.3.6.1.4.1.674.10892.1.200.10.1.12.1 = 3
1.3.6.1.4.1.674.10892.1.200.10.1.13.1
03\03\03'
1.3.6.1.4.1.674.10892.1.200.10.1.20.1
```

1.3.6.1.4.1.674.10892.1.100.10.0 = '2.2.0'

- 1.3.6.1.4.1.674.10892.1.200.10.1.21.1 = 3
- 1.3.6.1.4.1.674.10892.1.200.10.1.22.1 = '\03\03\03\03\03'

'\02\02\02\02\02\02'

```
1.3.6.1.4.1.674.10892.1.200.10.1.24.1
                                           3
1.3.6.1.4.1.674.10892.1.200.10.1.25.1
'\03\03\03\03\03\03'
1.3.6.1.4.1.674.10892.1.200.10.1.26.1
'\02\02\02\02'
1.3.6.1.4.1.674.10892.1.200.10.1.27.1
                                           3
1.3.6.1.4.1.674.10892.1.200.10.1.28.1
'\03\03\03\03'
1.3.6.1.4.1.674.10892.1.200.10.1.29.1
                                        = '\02'
1.3.6.1.4.1.674.10892.1.200.10.1.30.1
                                           3
1.3.6.1.4.1.674.10892.1.200.10.1.31.1
                                        = '\03'
1.3.6.1.4.1.674.10892.1.200.10.1.41.1
                                           3
1.3.6.1.4.1.674.10892.1.200.10.1.42.1
                                           3
1.3.6.1.4.1.674.10892.1.200.10.1.43.1
                                          '\03'
1.3.6.1.4.1.674.10892.1.300.10.1.1.1
                                          1
1.3.6.1.4.1.674.10892.1.300.10.1.2.1
                                          0
1.3.6.1.4.1.674.10892.1.300.10.1.3.1
                                          2
1.3.6.1.4.1.674.10892.1.300.10.1.4.1
                                          3
                                       =
1.3.6.1.4.1.674.10892.1.300.10.1.5.1
                                          0
1.3.6.1.4.1.674.10892.1.300.10.1.6.1
                                          2.3
1.3.6.1.4.1.674.10892.1.300.10.1.7.1
                                          'Main System
Chassis'
```

- 1.3.6.1.4.1.674.10892.1.300.10.1.10.1 = 'ASSETTAG'
- 1.3.6.1.4.1.674.10892.1.300.10.1.11.1 = '1234567'
- 1.3.6.1.4.1.674.10892.1.300.10.1.12.1 = 254

1.3.6.1.4.1.674.10892.1.300.10.1.8.1

1.3.6.1.4.1.674.10892.1.300.10.1.9.1

2650'

'Dell Inc.'

'PowerEdge

```
1.3.6.1.4.1.674.10892.1.300.10.1.13.1 = 289
```

- 1.3.6.1.4.1.674.10892.1.300.10.1.14.1 = 4
- 1.3.6.1.4.1.674.10892.1.300.10.1.15.1 = 'SERVER01'
- 1.3.6.1.4.1.674.10892.1.300.10.1.16.1 =
- '20050513095213.000000-360'
- 1.3.6.1.4.1.674.10892.1.300.10.1.17.1 =
- '20050513100052.000000-360'
- 1.3.6.1.4.1.674.10892.1.300.10.1.18.1 = 'Please set the value'
- 1.3.6.1.4.1.674.10892.1.300.10.1.19.1 = 'Please set the value'
- 1.3.6.1.4.1.674.10892.1.300.10.1.20.1 = 'Please set the value'
- 1.3.6.1.4.1.674.10892.1.300.10.1.21.1 = 3
- 1.3.6.1.4.1.674.10892.1.300.10.1.22.1 = 0
- 1.3.6.1.4.1.674.10892.1.300.10.1.23.1 = 0
- 1.3.6.1.4.1.674.10892.1.300.10.1.24.1 = 0
- 1.3.6.1.4.1.674.10892.1.300.10.1.25.1 = 0
- 1.3.6.1.4.1.674.10892.1.300.10.1.26.1 = 0
- 1.3.6.1.4.1.674.10892.1.300.10.1.27.1 = 0
- 1.3.6.1.4.1.674.10892.1.300.10.1.28.1 = 8
- 1.3.6.1.4.1.674.10892.1.300.10.1.29.1 = 2
- 1.3.6.1.4.1.674.10892.1.300.10.1.30.1 = 1
- 1.3.6.1.4.1.674.10892.1.300.10.1.31.1 = 15
- 1.3.6.1.4.1.674.10892.1.300.10.1.32.1 = 0
- 1.3.6.1.4.1.674.10892.1.300.10.1.33.1 = 27
- 1.3.6.1.4.1.674.10892.1.300.10.1.34.1 = 0
- 1.3.6.1.4.1.674.10892.1.300.10.1.35.1 = 1

```
1.3.6.1.4.1.674.10892.1.300.10.1.36.1
                                           480
1.3.6.1.4.1.674.10892.1.300.10.1.37.1
                                           1
1.3.6.1.4.1.674.10892.1.300.10.1.38.1
                                           2
1.3.6.1.4.1.674.10892.1.300.10.1.39.1
                                           2.
1.3.6.1.4.1.674.10892.1.300.10.1.44.1
                                           0
1.3.6.1.4.1.674.10892.1.300.10.1.45.1
                                           0
1.3.6.1.4.1.674.10892.1.300.40.1.1.1.1
                                            1
1.3.6.1.4.1.674.10892.1.300.40.1.2.1.1
                                            1
1.3.6.1.4.1.674.10892.1.300.40.1.3.1.1
                                            8
1.3.6.1.4.1.674.10892.1.300.40.1.4.1.1
                                            2.
1.3.6.1.4.1.674.10892.1.300.40.1.5.1.1
                                            'Log
cleared'
1.3.6.1.4.1.674.10892.1.300.40.1.6.1.1
                                            2.
1.3.6.1.4.1.674.10892.1.300.40.1.7.1.1
                                            3
1.3.6.1.4.1.674.10892.1.300.40.1.8.1.1
```

'20050513100047.000000-360'

# **Glossary**

The following list defines or identifies technical terms, abbreviations, and acronyms used in Dell™ user documents.

#### Α

Abbreviation for ampere(s).

#### AC

Abbreviation for alternating current.

#### **AC** power switch

A switch with two AC power inputs that provides AC power redundancy by failing over to a standby AC input in the event of a failure to the primary AC input.

#### access

Refers to the actions a user can take on a variable value. Examples include read-only and read-write.

# adapter card

An expansion card that plugs into an expansion-card connector on the computer's system board. An adapter card adds some specialized function to the computer by providing an interface between the expansion bus and a peripheral device. Examples of adapter cards include network cards, sound cards, and SCSI adapters.

#### **ADB**

Abbreviation for assign database.

#### **AGP**

Abbreviation for Advanced Graphics Port. A high performance graphics interface becoming available for Pentium Pro systems.

#### **ASCII**

Acronym for American Standard Code for Information Interchange. A text file containing only characters from the ASCII character set (usually created with a text editor, such as Notepad in Microsoft® Windows®), is called an ASCII file.

#### **ASIC**

Acronym for application-specific integrated circuit.

#### **ASPI**

Advanced SCSI programming interface.

#### **ASR**

Abbreviation for automatic system recovery.

#### asset tag code

An individual code assigned to a computer, usually by a system administrator, for security or tracking purposes.

#### attribute

An attribute, or property, contains a specific piece of information related to a component. Attributes can be combined to form groups. If an attribute is defined as read-write, it may be defined by a management application.

#### autoexec.bat file

The autoexec.bat file is executed when you boot your computer (after executing any commands in the config.sys file). This start-up file contains commands that define the characteristics of each device connected to your computer, and it finds and executes programs stored in locations other than the active directory.

# backup

A copy of a program or data file. As a precaution, you should back up your computer's hard drive on a regular basis. Before making a change to the configuration of your computer, you should back up important start-up files from your operating system.

#### baud rate

A measurement of data transmission speed. For example, modems are designed to transmit data at one or more specified baud rate(s) through the COM (serial) port of a computer.

# beep code

1

A diagnostic message in the form of a pattern of beeps from your computer's speaker. For example, one beep, followed by a second beep, and then a burst of three beeps is beep code 1-1-3.

#### **BGA**

Abbreviation for Ball Grid Array, an IC package that uses an array of solder balls, instead of pins, to connect to a PC board.

#### binary

A base-2 numbering system that uses 0 and 1 to represent information. The computer performs operations based on the ordering and calculation of these numbers.

#### **BIOS**

Acronym for basic input/output system. Your computer's BIOS contains programs stored on a flash memory chip. The BIOS controls the following:

Communications between the microprocessor and peripheral devices, such as the keyboard and the video adapter

Miscellaneous functions, such as system messages

#### bit

The smallest unit of information interpreted by your computer.

#### **BMC**

Abbreviation for baseboard management controller, which is a controller that provides the intelligence in the IPMI structure.

#### boot routine

When you start your computer, it clears all memory, initializes devices, and loads the operating system. Unless the operating system fails to respond, you can reboot (also called *warm boot*) your computer by pressing <Ctrl> <Alt> <Del>; otherwise, you must perform a cold boot by pressing the reset button or by turning the computer off and then back on.

#### bootable diskette

You can start your computer from a diskette. To make a bootable diskette, insert a diskette in the diskette drive, type sys a: at the command line prompt, and press <Enter>. Use this bootable diskette if your computer will not boot from the hard drive.

#### bpi

Abbreviation for bits per inch.

#### bps

Abbreviation for bits per second.

#### BTU

Abbreviation for British thermal unit.

#### bus

An information pathway between the components of a computer. Your computer contains an expansion bus that allows the microprocessor to communicate with controllers for all the various peripheral devices connected to the computer. Your computer also contains an address bus and a data bus for communications between the microprocessor and RAM.

#### byte

Eight contiguous bits of information, the basic data unit used by your computer.

#### C

Abbreviation for Celsius.

#### cache

A fast storage area that keeps a copy of data or instructions for quicker data retrieval. For example, your computer's BIOS may cache ROM code in faster RAM. Or, a disk-cache utility may reserve RAM in which to store frequently accessed information from your computer's disk drives; when a program makes a request to a disk drive for data that is in the cache, the disk-cache utility can retrieve the data from RAM faster than from the disk drive.

# capability

Refers to the actions that an object can perform, or actions that can be taken on a managed object. For example, if a card is hot-pluggable, it is capable of being replaced while the system power is ON.

#### **CDRAM**

Abbreviation for cached DRAM, which is a high-speed DRAM memory chip developed by Mitsubishi that includes a small SRAM cache.

#### CD-ROM

Abbreviation for compact disc read-only memory. CD drives use optical technology to read data from CDs. CDs are read-only storage devices; you cannot write new data to a CD with standard CD drives.

#### chip

A set of microminiaturized, electronic circuits that are designed for use as processors and memory in computers. Small chips can hold from a handful to tens of thousands of transistors. They look like tiny chips of aluminum, no more than 1/16" square by 1/30" thick, which is where the term "chip" came from. Large chips, which can be more than a half inch square, hold millions of transistors. It is actually only the top one thousandth of an inch of a chip's surface that holds the circuits. The rest of it is just a base.

#### CIM

Acronym for Common Information Model, which is a model for describing management information from the DMTF. CIM is implementation independent, allowing different management applications to collect the required data from a variety of sources. CIM includes schemas for systems, networks, applications and devices, and new schemas will be added. It provides mapping techniques for interchange of CIM data with MIB data from SNMP agents and MIF data from DMI-compliant systems.

#### CIMOM

Acronym for common information model object manager.

#### CI/O

Acronym for comprehensive input/output.

#### **CMOS**

Acronym for complementary metal-oxide semiconductor. In computers, CMOS memory chips are often used for NVRAM storage.

#### COM n

The device names for the first through fourth serial ports on your computer are COM1, COM2, COM3, and COM4. The default interrupt for COM1 and COM3 is IRQ4, and the default interrupt for COM2 and COM4 is IRQ3. Therefore, you must be careful when configuring software that runs a serial device so that you don't create an interrupt conflict.

#### component

As they relate to DMI, manageable components are operating systems, computer systems, expansion cards, or peripherals that are compatible with DMI. Each component is made up of groups and attributes that are defined as relevant to that component.

#### config.sys file

The **config.sys** file is executed when you boot your computer (before running any commands in the **autoexec.bat** file). This start-up file contains commands that specify which devices to install and which drivers to use. This file also contains commands that determine how the operating system uses memory and controls files.

#### controller

A chip that controls the transfer of data between the microprocessor and memory or between the microprocessor and a peripheral device such as a disk drive or the keyboard.

#### control panel

The part of the computer that contains indicators and controls, such as the power switch, hard drive access indicator, and power indicator.

#### conventional memory

The first 640 KB of RAM. Conventional memory is found in all computers.

#### COO

Acronym for cost of ownership.

# cooling unit

Sets of fans or other cooling devices in a system chassis.

# coprocessor

A chip that relieves the computer's microprocessor of specific processing tasks. A math coprocessor, for example, handles numeric processing. A graphics coprocessor handles video rendering. The Intel<sup>®</sup> Pentium<sup>®</sup> microprocessor, for example, includes a built-in math coprocessor.

#### cpi

Abbreviation for characters per inch.

#### **CPU**

Abbreviation for central processing unit. See also microprocessor.

#### **CRC**

Abbreviation for cyclic redundancy code, which is a number derived from, and stored or transmitted with, a block of data in order to detect corruption. By recalculating the CRC and comparing it to the value originally transmitted, the receiver can detect some types of transmission errors.

1

#### cursor

A marker, such as a block, underscore, or pointer that represents the position at which the next keyboard or mouse action will occur.

#### DAT

Acronym for digital audio tape.

#### dB

Abbreviation for decibel(s).

#### dBA

Abbreviation for adjusted decibel(s).

#### DC

Abbreviation for direct current.

#### device driver

A program that allows the operating system or some other program to interface correctly with a peripheral device, such as a printer. Some device drivers—such as network drivers—must be loaded from the config.sys file (with a device= statement) or as memory-resident programs (usually, from the autoexec.bat file). Others—such as video drivers—must load when you start the program for which they were designed.

#### DIMM

Acronym for dual in-line memory module. A small circuit board containing DRAM chips that connects to the system board.

#### DIN

Acronym for *Deutsche Industrie Norm* which is the standards-setting organization for Germany.

A DIN connector is a connector that conforms to one of the many standards defined by DIN. DIN connectors are used widely in personal computers. For example, the keyboard connector for PCs is a DIN connector.

#### DIP

Acronym for dual in-line package. A circuit board, such as a system board or expansion card, may contain DIP switches for configuring the circuit board. DIP switches are always toggle switches, with an ON position and an OFF position.

#### directory

Directories help keep related files organized on a disk in a hierarchical, "inverted tree" structure. Each disk has a "root" directory; for example, a c:\> prompt normally indicates that you are at the root directory of hard-drive C. Additional directories that branch off of the root directory are called *subdirectories*. Subdirectories may contain additional directories branching off of them.

#### display adapter

See video adapter.

#### **DMA**

Abbreviation for direct memory access. A DMA channel allows certain types of data transfer between RAM and a device to bypass the microprocessor.

#### DMI

Abbreviation for Desktop Management Interface. DMI enables the management of your computer system's software and hardware. DMI collects information about the system's components, such as the operating system, memory, peripherals, expansion cards, and asset tag. Information about the system's components is displayed as a MIF file or through the Dell Inspector program.

#### **DMTF**

Abbreviation for Distributed Management Task Force, a consortium of companies representing hardware and software providers, of which Dell is a member.

#### dpi

Abbreviation for dots per inch.

#### **DPMS**

Abbreviation for Display Power Management Signaling. A standard developed by the Video Electronics Standards Association (VESA®) that defines the hardware signals sent by a video controller to activate power management states in a monitor. A monitor is said to be DPMS-compliant when it is designed to enter a power management state after receiving the appropriate signal from a computer's video controller.

#### DRAC

Abbreviation for Dell Remote Access Card.

#### DRAM

Acronym for dynamic random-access memory. A computer's RAM is usually made up entirely of DRAM chips. Because DRAM chips cannot store an electrical charge indefinitely, your computer continually refreshes each DRAM chip in the computer.

#### drive-type number

Your computer can recognize a number of specific hard drives. Each is assigned a drive-type number that is stored in NVRAM. The hard drive(s) specified in your computer's System Setup program must match the actual drive(s) installed in the computer. The System Setup program also allows you to specify physical parameters (logical cylinders, logical heads, cylinder number, and logical sectors per pack) for drives not included in the table of drive types stored in NVRAM.

#### DTE

Abbreviation for data terminal equipment. Any device, such as a computer system, that can send data in digital form by means of a cable or communications line. The DTE is connected to the cable or communications line through a data communications equipment (DCE) device, such as a modem.

#### **ECC**

Abbreviation for error checking and correction.

#### **ECP**

Abbreviation for Extended Capabilities Port.

#### ED0

Acronym for extended data output dynamic random access memory which is a type of DRAM that is faster than conventional DRAM. EDO RAM can start fetching the next block of memory at the same time that it sends the previous block to the CPU.

#### **EEPROM**

Acronym for electrically erasable programmable read-only memory.

#### **EIDE**

Abbreviation for enhanced integrated drive electronics. EIDE devices add one or more of the following enhancements to the traditional IDE standard:

Data transfer rates of up to 16 MB/sec

Support for drives other than just hard drives, such as CD and tape drives Support for hard drives with capacities greater than 528 MB Support for up to two controllers, each with up to two devices attached

#### **EISA**

Acronym for Extended Industry-Standard Architecture, a 32-bit expansion-bus design. The expansion-card connectors in an EISA computer are also compatible with 8- or 16-bit ISA expansion cards.

To avoid a configuration conflict when installing an EISA expansion card, you must use the EISA Configuration Utility. This utility allows you to specify which expansion slot contains the card and obtains information about the card's required system resources from a corresponding EISA configuration file.

#### **EMC**

Abbreviation for Electromagnetic Compatibility.

#### EMI

Abbreviation for electromagnetic interference.

#### **EMM**

Abbreviation for expanded memory manager. A utility that uses extended memory to emulate expanded memory on computers with an Intel $386^{\,\text{\tiny TM}}$  or higher microprocessor.

#### **EMS**

Abbreviation for Expanded Memory Specification.

#### **EPP**

Abbreviation for Enhanced Parallel Port which provides improved bidirectional data transmission. Many devices are designed to take advantage of the EPP standard, especially devices, such as network or SCSI adapters that connect to the parallel port of a portable computer.

#### **EPROM**

Acronym for erasable programmable read-only memory.

#### **FSD**

Abbreviation for electrostatic discharge.

#### **ESM**

Abbreviation for Embedded Systems Management.

#### expanded memory

A technique for accessing RAM above 1 MB. To enable expanded memory on your computer, you must use an EMM. You should configure your system to support expanded memory only if you run application programs that can use (or require) expanded memory.

#### expansion bus

Your computer contains an expansion bus that allows the microprocessor to communicate with controllers for peripheral devices, such as a network card or an internal modern.

#### expansion-card connector

A connector on the computer's system board or riser board for plugging in an expansion card.

# extended memory

RAM above 1 MB. Most software that can use it, such as the Windows operating system, requires that extended memory be under the control of an XMM.

# external cache memory

A RAM cache using SRAM chips. Because SRAM chips operate at several times the speed of DRAM chips, the microprocessor can retrieve data and instructions faster from external cache memory than from RAM.

#### F

Abbreviation for Fahrenheit.

#### FAT

Acronym for file allocation table. The Windows NT® operating systems can optionally use a FAT file system structure.

#### **FCC**

Abbreviation for Federal Communications Commission.

#### **FEPROM**

Acronym for Flash Erasable Programmable Read-Only Memory. Flash memory is a kind of non-volatile storage device similar to EEPROM, but the erasing is done only in blocks or the entire chip.

#### flash BIOS

A PC BIOS that is stored in flash memory rather than in a ROM. A flash BIOS chip can be updated in place, whereas a ROM BIOS must be replaced with a newer chip.

#### flash memory

A type of EEPROM chip that can be reprogrammed from a utility on diskette while still installed in a computer; most EEPROM chips can only be rewritten with special programming equipment.

#### format

To prepare a hard drive or diskette for storing files. An unconditional format deletes all data stored on the disk.

#### **FPBGA**

Acronym for field programmable gate array, a programmable logic chip (PLD) with a high density of gates.

#### FRU

Acronym for field replaceable unit.

#### ft

Abbreviation for feet.

#### FTP

Abbreviation for file transfer protocol.

#### g

Abbreviation for gram(s).

#### G

Abbreviation for gravities.

#### GB

Abbreviation for gigabyte(s). A gigabyte equals 1,024 megabytes or 1,073,741,824 bytes.

#### graphics coprocessor

See coprocessor.

#### graphics mode

A video mode that can be defined as *x* horizontal by *y* vertical pixels by *z* colors.

#### group

As it relates to DMI, a group is a data structure that defines common information, or attributes, about a manageable component.

#### GTL

Abbreviation for ground termination logic.

#### GUI

Acronym for graphical user interface.

#### h

Abbreviation for hexadecimal. A base-16 numbering system, often used in programming to identify addresses in the computer's RAM and I/O memory addresses for devices. The sequence of decimal numbers from 0 through 16, for example, is expressed in hexadecimal notation as: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, 10. In text, hexadecimal numbers are often followed by *h*.

#### heat sink

A metal plate with metal pegs or ribs that help dissipate heat. Most microprocessors include a heat sink.

#### HIP

Abbreviation for Hardware Instrumentation Package (HIP).

#### **HMA**

Abbreviation for high memory area. The first 64 KB of extended memory above 1 MB. A memory manager that conforms to the XMS can make the HMA a direct extension of conventional memory. See also upper memory area and XMM.

# host adapter

A host adapter implements communication between the computer's bus and the controller for a peripheral device. (hard-drive controller subsystems include integrated host adapter circuitry.) To add a SCSI expansion bus to your system, you must install or connect the appropriate host adapter.

#### hot plug

The ability to remove and replace a redundant part while the system is being used. Also called a "hot spare."

#### **HPFS**

Abbreviation for the High Performance File System option in the Windows NT operating systems.

#### Hz

Abbreviation for hertz.

#### **ICES**

Abbreviation for Interface-Causing Equipment Standard (in Canada).

#### ICU

Abbreviation for ISA Configuration Utility.

#### IDE

Abbreviation for Integrated Device Electronics. IDE is a computer system interface, used primarily for hard drives and CDs.

#### 1/0

Abbreviation for input/output. The keyboard is an input device, and a printer is an output device. In general, I/O activity can be differentiated from computational activity. For example, when a program sends a document to the printer, it is engaging in output activity; when the program sorts a list of terms, it is engaging in computational activity.

#### ID

Abbreviation for identification.

#### IHV

Acronym for independent hardware vendor. IHVs often develop their own MIBs for components that they manufacture.

# interlacing

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A technique for increasing video resolution by only updating alternate horizontal lines on the screen. Because interlacing can result in noticeable screen flicker, most users prefer noninterlaced video adapter resolutions.

#### internal microprocessor cache

An instruction and data cache built in to the microprocessor. The Intel Pentium microprocessor includes a 16-KB internal cache, which is set up as an 8-KB read-only instruction cache and an 8-KB read/write data cache.

#### **IP Address**

Abbreviation for Internet Protocol address. See TCP/IP.

#### **IPMI**

Abbreviation for Intelligent Platform Management Interface, which is an industry standard for management of peripherals used in enterprise computers based on Intel architecture. The key characteristic of IPMI is that inventory, monitoring, logging, and recovery control functions are available independent of the main processors, BIOS, and operating system.

#### **IPX**

Acronym for internetwork packet exchange.

#### IRQ

Abbreviation for interrupt request. A signal that data is about to be sent to or received by a peripheral device travels by an IRQ line to the microprocessor. Each peripheral connection must be assigned an IRQ number. For example, the first serial port in your computer (COM1) is assigned to IRQ4 by default. Two devices can share the same IRQ assignment, but you cannot operate both devices simultaneously.

#### ISA

Acronym for Industry-Standard Architecture. A 16-bit expansion bus design. The expansion-card connectors in an ISA computer are also compatible with 8-bit ISA expansion cards.

#### ITE

Abbreviation for information technology equipment.

#### jumper

Jumpers are small blocks on a circuit board with two or more pins emerging from them. Plastic plugs containing a wire fit down over the pins. The wire connects the pins and creates a circuit. Jumpers provide a simple and reversible method of changing the circuitry in a printed circuit board.

#### K

Abbreviation for kilo-, indicating 1,000.

#### KB

Abbreviation for kilobyte(s), 1,024 bytes.

#### KB/sec

Abbreviation for kilobyte(s) per second.

#### Kbit(s)

Abbreviation for kilobit(s), 1,024 bits.

### Kbit(s)/sec

Abbreviation for kilobit(s) per second.

#### key combination

A command requiring you to press multiple keys at the same time. For example, you can reboot your computer by pressing the <Ctrl><Alt><Del> key combination.

# kg

Abbreviation for kilogram(s), 1,000 grams.

#### kHz

Abbreviation for kilohertz, 1,000 hertz.

#### LAN

Acronym for local area network. A LAN system is usually confined to the same building or a few nearby buildings, with all equipment linked by wiring dedicated specifically to the LAN.

#### lb

Abbreviation for pound(s).

#### LCC

Acronym for leaded or leadless chip carrier.

#### LIF

Acronym for low insertion force. Some computers use LIF sockets and connectors to allow devices, such as the microprocessor chip, to be installed or removed with minimal stress to the device.

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#### LED

Abbreviation for light-emitting diode. An electronic device that lights up when a current is passed through it.

#### local bus

On a computer with local-bus expansion capability, certain peripheral devices (such as the video adapter circuitry) can be designed to run much faster than they would with a traditional expansion bus. Some local-bus designs allow peripherals to run at the same speed and with the same width data path as the computer's microprocessor.

#### **LPTn**

The device names for the first through third parallel printer ports on your computer are LPT1, LPT2, and LPT3.

#### LRA

Acronym for local response agent.

#### m

Abbreviation for meter(s).

#### mΑ

Abbreviation for milliampere(s).

#### mAh

Abbreviation for milliampere-hour(s).

#### math coprocessor

See coprocessor.

#### Mb

Abbreviation for megabit.

#### MB

Abbreviation for megabyte(s). The term *megabyte* means 1,048,576 bytes; however, when referring to hard-drive storage, the term is often rounded to mean 1,000,000 bytes.

#### MB/sec

Abbreviation for megabytes per second.

#### **Mbps**

Abbreviation for megabits per second.

#### **MBR**

Abbreviation for master boot record.

#### MCA

Abbreviation for Micro Channel Architecture, which is designed for multiprocessing. MCA eliminates potential conflicts that arise when installing new peripheral devices. MCA is not compatible with either EISA or XT bus architecture, so older cards cannot be used with it.

#### memory

A computer can contain several different forms of memory, such as RAM, ROM, and video memory. Frequently, the word *memory* is used as a synonym for RAM; for example, an unqualified statement such as "a computer with 16 MB of memory" refers to a computer with 16 MB of RAM.

#### memory address

A specific location, usually expressed as a hexadecimal number, in the computer's RAM.

# memory manager

A utility that controls the implementation of memory in addition to conventional memory, such as extended or expanded memory.

# memory module

A small circuit board containing DRAM chips that connects to the system board.

#### MHz

Abbreviation for megahertz.

#### **MIB**

Acronym for management information base. MIB is used to send detailed status/commands from or to an SNMP managed device.

# microprocessor

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The primary computational chip inside the computer that controls the interpretation and execution of arithmetic and logic functions. Software written for one microprocessor must usually be revised to run on another microprocessor. *CPU* is a synonym for microprocessor.

#### MIDI

Abbreviation for musical instrument digital interface.

#### MIF

Acronym for management information format. A MIF file contains information, status, and links to component instrumentation. MIF files are installed into the MIF database by the DMI service layer. The content of a MIF is defined by a DTMF working committee and is published in the form of a MIF definition document. This document identifies the groups and attributes that are relevant to DMI-manageable components.

#### mm

Abbreviation for millimeter(s).

#### modem

A device that allows your computer to communicate with other computers over telephone lines.

#### MOF

Acronym for managed object format, which is an ASCII file that contains the formal definition of a CIM schema.

#### mouse

A pointing device that controls the movement of the cursor on a screen. Mouse-aware software allows you to activate commands by clicking a mouse button while pointing at objects displayed on the screen.

#### **MPEG**

Acronym for Motion Picture Experts Group. MPEG is a digital video file format.

#### ms

Abbreviation for millisecond(s).

#### **MTBF**

Abbreviation for mean time between failures.

#### multifrequency monitor

A monitor that supports several video standards. A multifrequency monitor can adjust to the frequency range of the signal from a variety of video adapters.

#### m۷

Abbreviation for millivolt(s).

#### name

The name of an object or variable is the exact string that identifies it in an SNMP Management Information Base (MIB) file, or in a DMI Management Information Format (MIF) file, or in a CIM Management Object File (MOF).

#### **NDIS**

Abbreviation for Network Driver Interface Specification.

#### NIC

Acronym for network interface controller.

#### NIF

Acronym for network interface function. This term is equivalent to NIC.

#### NMI

Abbreviation for nonmaskable interrupt. A device sends an NMI to signal the microprocessor about hardware errors, such as a parity error.

#### noninterlaced

A technique for decreasing screen flicker by sequentially refreshing each horizontal line on the screen.

#### ns

Abbreviation for nanosecond(s), one billionth of a second.

#### **NTFS**

Abbreviation for the NT File System option in the Windows NT operating system.

#### NuBus

Proprietary expansion bus used on Apple Macintosh personal computers.

#### **NVRAM**

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Acronym for nonvolatile random-access memory. Memory that does not lose its contents when you turn off your computer. NVRAM is used for maintaining the date, time, and system configuration information.

#### OID

Abbreviation for object identifier. An implementation-specific integer or pointer that uniquely identifies an object.

### online access service

A service that typically provides access to the Internet, E-mail, bulletin boards, chat rooms, and file libraries.

#### OTP

Abbreviation for one-time programmable.

### parallel port

An I/O port used most often to connect a parallel printer to your computer. You can usually identify a parallel port on your computer by its 25-hole connector.

### parameter

A value or option that you specify to a program. A parameter is sometimes called a *switch* or an *argument*.

### partition

You can divide a hard drive into multiple physical sections called *partitions* with the **fdisk** command. Each partition can contain multiple logical drives.

After partitioning the hard drive, you must format each logical drive with the format command.

### **PC 98**

The third PC 9x specification, which defines five categories (Consumer, Office, Mobile, Entertainment and Workstation). It eliminates the ISA bus and pushes the minimum requirements to a 200MHz CPU with 32MB of RAM and 256K of L2 cache. PC 98 machines must support OnNow, and the BIOS must support booting from a CD and be Y2K compliant. Systems cannot ship with ISA cards installed, but may have an ISA bus for legacy devices.

### PC card

A credit-card sized, removable module for portable computers standardized by PCMCIA. PC Cards are also known as "PCMCIA cards." PC Cards are 16-bit devices that are used to attach modems, network adapters, sound cards, radio transceivers, solid state disks and hard disks to a portable computer. The PC Card is a "plug and play" device, which is configured automatically by the Card Services software.

### **PCI**

Abbreviation for Peripheral Component Interconnect. A standard for local-bus implementation developed by Intel Corporation.

### **PCIX**

Abbreviation for PCI extended.

### **PCMCIA**

Personal Computer Memory Card International Association. An international trade association that has developed standards for devices, such as modems and external hard drives, that can be plugged into portable computers.

### **PERC**

Acronym for PowerEdge™ Expandable RAID controller.

### peripheral device

An internal or external device—such as a printer, a disk drive, or a keyboard—connected to a computer.

### **PGA**

Abbreviation for pin grid array, a type of microprocessor socket that allows you to remove the microprocessor chip.

# physical memory array

The physical memory array is the entire physical memory of a system. Variables for physical memory array include maximum size, total number of memory slots on the motherboard, and total number of slots in use.

# physical memory array mapped

The physical memory array mapped refers to the way physical memory is divided. For example, one mapped area may have 640 KB and the other mapped area may have between 1 Megabyte and 127 Megabytes.

### PIC

Acronym for programmable interrupt controller.

### PIP

Acronym for peripheral interchange program. A CP/M utility program that was used to copy files.

### pixel

A single point on a video display. Pixels are arranged in rows and columns to create an image. A video resolution, such as 640 x 480, is expressed as the number of pixels across by the number of pixels up and down.

### **PLCC**

Acronym for plastic leaded chip carrier.

### **Plug and Play**

An industry-standard specification that makes it easier to add hardware devices to personal computers. Plug and Play provides automatic installation and configuration, compatibility with existing hardware, and dynamic support of mobile computing environments.

### **PME**

Abbreviation for Power Management Event. A PME is a pin on a peripheral component interconnect that allows a PCI device to assert a wake event.

### **POST**

Acronym for power-on self-test. Before the operating system loads when you turn on your computer, the POST tests various system components such as RAM, the disk drives, and the keyboard.

# power supply

An electrical system that converts AC current from the wall outlet into the DC currents required by the computer circuitry. The power supply in a personal computer typically generates multiple voltages.

### power unit

A set of power supplies in a system chassis.

#### ppm

Abbreviation for pages per minute.

### **PQFP**

Abbreviation for plastic quad flat pack, a type of microprocessor socket in which the microprocessor chip is permanently mounted.

### protected mode

An operating mode supported by 80286 or higher microprocessors, protected mode allows operating systems to implement:

- A memory address space of 16 MB (80286 microprocessor) to 4 GB (Intel386 or higher microprocessor)
- Multitasking
- Virtual memory, a method for increasing addressable memory by using the hard drive

Windows, OS/2, and UNIX® 32-bit operating systems run in protected mode.

### provider

A provider is an extension of a CIM schema that communicates with managed objects and accesses data and event notifications from a variety of sources. Providers forward this information to the CIM Object Manager for integration and interpretation.

### PS/2

Abbreviation for Personal System/2.

### **PXE**

Abbreviation for Pre-boot eXecution Environment.

### QFP

Acronym for quad flat pack.

### **RAID**

Acronym for redundant array of independent drives.

### RAM

Acronym for random-access memory. The computer's primary temporary storage area for program instructions and data. Each location in RAM is identified by a number called a *memory address*. Any information stored in RAM is lost when you turn off your computer.

### **RAMBUS**

Acronym for Rambus DRAM, a type of memory (DRAM) developed by Rambus, Inc.

### **RAMDAC**

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Acronym for random-access memory digital-to-analog converter.

#### **RAW**

Unprocessed. The term refers to data that is passed along to an I/O device without being interpreted. In contrast, *cooked* refers to data that is processed before being passed to the I/O device.

It often refers to uncompressed text that is not stored in any proprietary format. The term comes from UNIX, which supports cooked and raw modes for data output to a terminal.

#### **RDRAM**

Acronym for Rambus DRAM. A dynamic RAM chip technology from Rambus, Inc. Direct RDRAMs are used in computers. Direct RDRAM chips are housed in RIMM modules, which are similar to DIMMs but have different pin settings. The chips can be built with dual channels, doubling the transfer rate to 3.2 GB/sec.

### read-only file

A read-only file is one that you are prohibited from editing or deleting. A file can have read-only status if:

Its read-only attribute is enabled.

It resides on a physically write-protected diskette or on a diskette in a write-protected drive.

It is located on a network in a directory to which the system administrator has assigned read-only rights to you.

#### readme file

A text file included with a software package or hardware product that contains information supplementing or updating the documentation for the software or hardware. Typically, readme files provide installation information, describe new product enhancements or corrections that have not yet been documented, and list known problems or other things you need to be aware of as you use the software or hardware.

#### real mode

An operating mode supported by 80286 or higher microprocessors, real mode imitates the architecture of an 8086 microprocessor.

### refresh rate

The rate at which the monitor redraws the video image on the monitor screen. More precisely, the refresh rate is the frequency, measured in Hz, at which the screen's horizontal lines are recharged (sometimes also referred to as its *vertical frequency*). The higher the refresh rate, the less video flicker can be seen by the human eye. The higher refresh rates are also noninterlaced.

#### RFI

Abbreviation for radio frequency interference.

### **RGB**

Abbreviation for red/green/blue.

### **RIMM**

Acronym for Rambus In-line Memory Module, which is the Rambus equivalent of a DIMM module.

### **ROM**

Acronym for read-only memory. Your computer contains some programs essential to its operation in ROM code. Unlike RAM, a ROM chip retains its contents even after you turn off your computer. Examples of code in ROM include the program that initiates your computer's boot routine and the POST.

### rpm

Abbreviation for revolutions per minute.

### RTC

Abbreviation for real-time clock. Battery-powered clock circuitry inside the computer that keeps the date and time after you turn off the computer.

### SAS

Acronym for Serial Attached SCSI.

### SCA

Acronym for single connector attachment.

### schema

A collection of class definitions that describes managed objects in a particular environment. A CIM schema is a collection of class definitions used to represent managed objects that are common to every management environment, which is why CIM is called the Common Information Model.

### SCSI

Acronym for small computer system interface. An I/O bus interface with faster data transmission rates than standard ports. You can connect up to seven devices (15 for some newer SCSI types) to one SCSI interface.

### **SDMS**

Abbreviation for SCSI device management system.

### sec

Abbreviation for second(s).

### SEC

Abbreviation for single-edge contact.

### serial port

An I/O port used most often to connect a modem to your computer. You can usually identify a serial port on your computer by its 9-pin connector.

### settings

Settings are conditions of a manageable object help to determine what happens when a certain value is detected in a component. For example, a user can set the upper critical threshold of a temperature probe to 75 degrees Celsius. If the probe reaches that temperature, the setting results in an alert being sent to the management console so that user intervention can be taken. Some settings, when reached, can trigger a system shutdown or other response that can prevent damage to the system.

# service tag number

A bar code label on the computer that identifies it when you call Dell for customer or technical support.

### **SGRAM**

Acronym for synchronous graphics RAM.

# shadowing

A computer's system and video BIOS code is usually stored on ROM chips. Shadowing refers to the performance-enhancement technique that copies BIOS code to faster RAM chips in the upper memory area (above 640 KB) during the boot routine.

### SIMD

Abbreviation for Single Instruction Multiple Data.

### SIMM

Acronym for single in-line memory module. A small circuit board containing DRAM chips that connects to the system board.

### SIP

Acronym for single in-line package, which is a type of housing for electronic components in which the connecting pins protrude from one side. A SIP is also called a Single In-line Pin Package (SIPP).

### SKU

Acronym for stock keeping unit.

### **SMART**

Acronym for Self-Monitoring Analysis Reporting Technology. A technology that allows hard drives to report errors and failures to the system BIOS, which then displays an error message on the screen. To take advantage of this technology, you must have a SMART-compliant hard drive and the proper support in the system BIOS.

#### **SMBIOS**

Acronym for system management BIOS.

### SMD

Acronym for surface mount device.

### **SNMP**

Abbreviation for Simple Network Management Protocol. SNMP is an industry-standard interface that allows a network manager to remotely monitor and manage workstations.

### SODIMM

Acronym for small outline-DIMM. A DIMM module with a thinner profile due to the use of TSOP chip packages. SODIMMs are commonly used in laptop computers.

#### SOIC

Acronym for Small Outline IC, a small-dimension, plastic, rectangular, surface mount chip package that uses gull-wing pins extending outward.

#### SOJ

Acronym for small outline package J-lead, a small-dimension, plastic, rectangular surface mount chip package with j-shaped pins on its two long sides.

### **SRAM**

Abbreviation for static random-access memory. Because SRAM chips do not require continual refreshing, they are substantially faster than DRAM chips.

#### state

Refers to the condition of an object that can have more than one condition. For example, an object may be in the "not ready" state.

### status

Refers to the health or functioning of an object. For example, a temperature probe can have the status normal if the probe is measuring acceptable temperatures. When the probe begins reading temperatures that exceed limits set by the user, it reports a critical status.

### **SVGA**

Abbreviation for super video graphics array. VGA and SVGA are video standards for video adapters with greater resolution and color display capabilities than previous standards.

To display a program at a specific resolution, you must install the appropriate video drivers and your monitor must support the resolution. Similarly, the number of colors that a program can display depends on the capabilities of the monitor, the video driver, and the amount of video memory installed in the computer.

#### switch

On a computer system board, switches control various circuits or functions in your computer system. These switches are known as *DIP switches*; they are normally packaged in groups of two or more switches in a plastic case. Two common DIP switches are used on system boards: *slide* switches and *rocker* switches. The names of the switches are based on how the settings (on and off) of the switches are changed.

### syntax

The rules that dictate how you must type a command or instruction so that the computer understands it. A variable's syntax indicates its data type.

### system board

As the main circuit board, the system board usually contains most of your computer's integral components, such as the following:

- Microprocessor
- RAM
- Controllers for standard peripheral devices, such as the keyboard
- Various ROM chips

Frequently used synonyms for system board are motherboard and logic board.

### system configuration information

Data stored in memory that tells a computer what hardware is installed and how the computer should be configured for operation.

### system diskette

System diskette is a synonym for *bootable diskette*.

### system memory

System memory is a synonym for RAM.

# System Setup program

A BIOS-based program that allows you to configure your computer's hardware and customize the computer's operation by setting such features as password protection and energy management. Some options in the System Setup program require that you reboot the computer (or the computer may reboot automatically) in order to make a hardware configuration change. Because the System Setup program is stored in NVRAM, any settings remain in effect until you change them again.

# system.ini file

A start-up file for the Windows operating system. When you start Windows, it consults the **system.ini** file to determine a variety of options for the Windows operating environment. Among other things, the **system.ini** file records which video, mouse, and keyboard drivers are installed for Windows.

Running the Control Panel or Windows Setup program may change options in the **system.ini** file. On other occasions, you may need to change or add options to the **system.ini** file manually with a text editor, such as Notepad.

### table

In SNMP MIBs, a table is a two dimensional array that describes the variables that make up a managed object.

### TCP/IP

Abbreviation for Transmission Control Protocol/Internet Protocol. A system for transferring information over a computer network containing dissimilar systems, such as systems running Windows and UNIX.

#### termination

Some devices (such as the last device at each end of a SCSI cable) must be terminated to prevent reflections and spurious signals in the cable. When such devices are connected in a series, you may need to enable or disable the termination on these devices by changing jumper or switch settings on the devices or by changing settings in the configuration software for the devices.

### text editor

An application program for editing text files consisting exclusively of ASCII characters. Windows Notepad is a text editor, for example. Most word processors use proprietary file formats containing binary characters, although some can read and write text files.

#### text mode

A video mode that can be defined as *x* columns by *y* rows of characters.

#### threshold values

Systems are normally equipped with various sensors that monitor temperature, voltage, current, and fan speed. The sensor's threshold values specify the ranges (min and max values) for determining whether the sensor is operating under normal, noncritical, critical or fatal conditions. Dell-supported threshold values are:

UpperThresholdFatal

UpperThresholdCritical

UpperThresholdNon-critical

Normal

LowerThresholdNon-critical

LowerThresholdCritical

LowerThresholdFatal

### time-out

A specified period of system inactivity that must occur before an energy conservation feature is activated.

### tpi

Abbreviation for tracks per inch.

### **TOFP**

Acronym for thin quad flat pack.

#### **TSR**

Abbreviation for terminate-and-stay-resident. A TSR program runs "in the background." Most TSR programs implement a predefined key combination (sometimes referred to as a *hot key*) that allows you to activate the TSR program's interface while running another program. When you finish using the TSR program, you can return to the other application program and leave the TSR program resident in memory for later use.

TSR programs can sometimes cause memory conflicts. When troubleshooting, rule out the possibility of such a conflict by rebooting your computer without starting any TSR programs.

#### **TSOP**

Acronym for thin small outline package. A very-thin, plastic, rectangular surface mount chip package with gull-wing pins on its two short sides. TSOPs are about a third as thick as SOJ chips.

### **UART**

Acronym for universal asynchronous receiver transmitter, the electronic circuit that makes up the serial port.

#### UDP

Acronym for user datagram protocol.

### UL

Abbreviation for Underwriters Laboratories.

#### **UMB**

Abbreviation for upper memory blocks.

### unicode

A fixed width, 16-bit world wide character encoding, developed and maintained by the Unicode Consortium.

### upper memory area

The 384 KB of RAM located between 640 KB and 1 MB. If the computer has an Intel386 or higher microprocessor, a utility called a *memory manager* can create UMBs in the upper memory area, in which you can load device drivers and memory-resident programs.

### **UPS**

Abbreviation for uninterruptible power supply. A battery-powered unit that automatically supplies power to your computer in the event of an electrical failure.

#### **USB**

Abbreviation for Universal Serial Bus. A USB connector provides a single connection point for multiple USB-compliant devices, such as mice, keyboards, printers, and computer speakers. USB devices can also be connected and disconnected while the system is running.

### utility

A program used to manage system resources—memory, disk drives, or printers, for example.

### **UTP**

Abbreviation for unshielded twisted pair.

### UUID

Acronym for Universal Unique Identification.

### ٧

Abbreviation for volt(s).

### VAC

Abbreviation for volt(s) alternating current.

### varbind

An algorithm used to assign and object identifier or OID. The varbind gives rules for arriving at the decimal prefix that uniquely identifies an enterprise, as well as the formula for specifying a unique identifier for the objects defined in that enterprise's MIB.

#### variable

A component of a managed object. A temperature probe, for example, has a variable to describe its capabilities, its health or status, and certain indexes that you can use to help you in locating the right temperature probe.

### VCCI

Abbreviation for Voluntary Control Council for Interference.

### **VCR**

Abbreviation for video cassette recorder.

### **VDC**

Abbreviation for volt(s) direct current.

### **VESA**

Acronym for Video Electronics Standards Association.

### **VGA**

Abbreviation for video graphics array. VGA and SVGA are video standards for video adapters with greater resolution and color display capabilities than previous standards. To display a program at a specific resolution, you must install the appropriate video drivers and your monitor must support the resolution. Similarly, the number of colors that a program can display depends on the capabilities of the monitor, the video driver, and the amount of video memory installed for the video adapter.

### VGA feature connector

On some systems with a built-in VGA video adapter, a VGA feature connector allows you to add an enhancement adapter, such as a video accelerator, to your computer. A VGA feature connector can also be called a VGA *pass-through connector*.

### video adapter

The logical circuitry that provides—in combination with the monitor—your computer's video capabilities. A video adapter may support more or fewer features than a specific monitor offers. Typically, a video adapter comes with video drivers for displaying popular application programs and operating systems in a variety of video modes.

On some Dell computers, a video adapter is integrated into the system board. Also available are many video adapter cards that plug into an expansion-card connector.

Video adapters often include memory separate from RAM on the system board. The amount of video memory, along with the adapter's video drivers, may affect the number of colors that can be simultaneously displayed. Video adapters can also include their own coprocessor for faster graphics rendering.

### video driver

A program that allows graphics-mode application programs and operating systems to display at a chosen resolution with the desired number of colors. A software package may include some "generic" video drivers. Any additional video drivers may need to match the video adapter installed in the computer.

### video memory

Most VGA and SVGA video adapters include memory chips in addition to your computer's RAM. The amount of video memory installed primarily influences the number of colors that a program can display (with the appropriate video drivers and monitor capabilities).

#### video mode

Video adapters normally support multiple text and graphics display modes. Character-based software displays in text modes that can be defined as *x* columns by *y* rows of characters. Graphics-based software displays in graphics modes that can be defined as *x* horizontal by *y* vertical pixels by *z* colors.

#### video resolution

Video resolution—800 x 600, for example—is expressed as the number of pixels across by the number of pixels up and down. To display a program at a specific graphics resolution, you must install the appropriate video drivers and your monitor must support the resolution.

### virtual memory

A method for increasing addressable RAM by using the hard drive. For example, in a computer with 16 MB of RAM and 16 MB of virtual memory set up on the hard drive, the operating system would manage the system as though it had 32 MB of physical RAM.

#### virus

A self-starting program designed to inconvenience you. Virus programs have been known to corrupt the files stored on a hard drive or to replicate themselves until a computer or network runs out of memory.

The most common way that virus programs move from one computer to another is via "infected" diskettes, from which they copy themselves to the hard drive. To guard against virus programs, you should do the following:

- Periodically run a virus-checking utility on your computer's hard drive
- Always run a virus-checking utility on any diskettes (including commercially sold software) before using them

### VLSI

Abbreviation for very-large-scale integration.

### **VLVESA**

Acronym for very low voltage enterprise system architecture.

#### vpp

Abbreviation for peak-point voltage.

### **VRAM**

Acronym for video random-access memory. Some video adapters use VRAM chips (or a combination of VRAM and DRAM) to improve video performance. VRAM is dual-ported, allowing the video adapter to update the screen and receive new image data at the same time.

#### VRM

Abbreviation for voltage regulator module.

### W

Abbreviation for watt(s).

### Wakeup on LAN

The ability for the power in a client station to be turned on by the network. Remote wake-up enables software upgrading and other management tasks to be performed on users' machines after the work day is over. It also enables remote users to gain access to machines that have been turned off. Intel calls remote wake-up "Wake-on-LAN."

### WH

Abbreviation for watt-hour(s).

#### win.ini file

A start-up file for the Windows operating system. When you start Windows, it consults the win.ini file to determine a variety of options for the Windows operating environment. Among other things, the win.ini file records what printer(s) and fonts are installed for Windows. The win.ini file also usually includes sections that contain optional settings for Windows application programs that are installed on the hard drive.

Running the Control Panel or Windows Setup program may change options in the win.ini file. On other occasions, you may need to change or add options to the win.ini file manually with a text editor such as Notepad.

### Windows 95

An integrated and complete Microsoft Windows operating system that provides advanced operating system performance, improved ease of use, enhanced workgroup functionality, and simplified file management and browsing.

### Windows NT

High-performance server and workstation operating system software developed by Microsoft that is intended for technical, engineering, and financial applications.

### write-protected

Read-only files are said to be *write-protected*. You can write-protect a 3.5-inch diskette by sliding its write-protect tab to the open position or by setting the write-protect feature in the System Setup program.

#### **XMM**

Abbreviation for extended memory manager, a utility that allows application programs and operating systems to use extended memory in accordance with the XMS.

### **XMS**

Abbreviation for eXtended Memory Specification.

### ZIF

Acronym for zero insertion force. Some computers use ZIF sockets and connectors to allow devices such as the microprocessor chip to be installed or removed with no stress applied to the device.

### ZIP

A 3.5 inch removable disk drive from Iomega. Originally, it provided a 100 MB removable cartridges. The drive is bundled with software that can catalog the disks and lock the files for security.

A 250 MB version of the Zip drive also reads and writes the 100 MB Zip cartridges.

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