

Dell OpenManage Server Administrator Version 7.3 CIM Reference Guide



Notes, Cautions, and Warnings



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



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



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

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2013 - 06

Rev. A00

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Introduction

This reference guide documents the Dell OpenManage Server Administrator Common Information Model (CIM) provider contained in the Management Object File (MOF) **dccim32.mof**.

CIM provides a conceptual model for describing manageable objects in a systems management environment. CIM is a modeling tool rather than a programming language. CIM provides the structure for organizing objects into a model of a managed environment. For modeling a managed environment, CIM makes available a set of abstract and concrete classes of objects. These classes model the basic characteristics of systems, networks, and applications, as well as groupings of management-related data.

For more information about CIM, see the Distributed Management Task Force (DMTF) website at dmf.org and the Microsoft website at microsoft.com.

Server Administrator

Server Administrator provides a suite of systems management information for keeping track of your networked systems. In addition to providing systems management agents that are independent of the management console, Server Administrator supports these systems management standards: CIM and Simple Network Management Protocol (SNMP).

In addition to supporting systems management industry standards, Server Administrator provides additional systems management information about the specific components of your Dell system.

Whats New in This Release

For a list of platforms, Operating Systems, and Browsers support added and deprecated, refer to the *Dell OpenManage Server Administrator Version 7.3 User's Guide and Dell Systems Software Support Matrix Version 7.3* at dell.com/support/manuals.

Documenting CIM Classes and Their Properties

The Dell CIM provider extends support to Dell-specific software and hardware components. The Dell MOF defines the classes for the Dell CIM provider. All of the supported classes and properties in the MOF are documented in this guide.

The following subsections define some of the basic building blocks of CIM classes that are used in describing the dccim32 provider name. These subsections also explain how the elements used in describing these classes are organized. This section does not document the entire CIM schema, but only those classes and properties supported by the dccim32 provider. The list of properties for each supported class varies greatly.

The property values being presented could be NULL or empty string on some systems, although in general, some non-empty values can be expected. Key properties (listed below) always carry non-empty values. It is recommended that you use only the following properties as key attributes:

- **CIM_PhysicalElement:** CreationClassName, Tag
- **CIM_System:** CreationClassName, Name
- **CIM_LogicalDevice:** SystemCreationClassName, SystemName, CreationClassName, DeviceID
- **CIM_Dependency:** Antecedent, Dependent

- **CIM_SoftwareElement**: Name, Version, SoftwareElementState, SoftwareElementID, TargetOperatingSystem
- **CIM_SoftwareFeature**: IdentifyingNumber, ProductName, Vendor, Version, Name
- **CIM_IRQ**: CSCreationClassName, CSName, CreationClassName, IRQNumber
- **CIM_MemoryMappedIO**: CSCreationClassName, CSName, CreationClassName, StartingAddress
- **CIM_DMA**: CSCreationClassName, CSName, CreationClassName, DMAChannel
- **CIM_RedundancyGroup**: CreationClassName, Name
- **DELL_EsmLog**: RecordNumber
- **DELL_PostLog**: RecordNumber
- **DELL_BIOSExtensions**: systemBIOSCharacteristics
- **DELL_BIOSSettings**: DisplayName
- **CIM_ServiceAccessPoint**: SystemCreationClassName, SystemName, CreationClassName, Name

Base Classes

The classes listed in the Server Administrator CIM provider class hierarchy do not have a parent property. These base classes do not derive from another class. The base classes are:

- **CIM_ManagedSystemElement**
- **CIM_Dependency**
- **DELL_EsmLog**
- **DELL_PostLog**
- **DELL_CMApplication**
- **DELL_CMDevice**
- **DELL_CMDeviceApplications**
- **DELL_CMInventory**
- **DELL_CMOS**
- **DELL_CMProductInfo**

The **CIM_ManagedSystemElement** class is the base class for the system element hierarchy from which all other CIM classes are derived. As a result, **CIM_ManagedSystemElement** has no parent. Examples of managed system elements include software components such as files, devices such as hard drives and controllers, and physical subcomponents of devices such as chip sets and cards. For the **CIM_ManagedSystemElement** properties, see Caption, CreationClassName, Description, Name, and Status in [Common Properties of Classes](#)

The Dell-defined classes are not defined in the official schema by the DMTF, the industry group that defines the standards for CIM, and hence do not have parent classes. **CIM_Dependency** does not have a parent class because it is a relationship or association between two managed system elements.

Parent Classes

Most classes in the dccim32 provider document both a *Class Name* and a *Parent Class* property. The parent class is the class from which any given class inherits its core properties. For example, the **CIM_Controller** class has the **CIM_LogicalDevice** class as its parent, and has various types of controllers (**CIM_ParallelController**, **CIM_SerialController**) as its children.

Classes That Describe Relationships

Classes that derive from **CIM_Dependency** have **CIM_Dependency** as their parent class, but they are documented in terms of *antecedent* and *dependent* elements in a relationship rather than in terms of common properties. Consider the following relationship between two **CIM_ManagedSystemElements**:

Antecedent	CIM_PackageCurrentSensor
Dependent	CIM_PhysicalPackage

The **CIM_PackageCurrentSensor** class monitors an entire physical package, such as all the components contained in a given system chassis. The **CIM_PhysicalPackage** class is dependent on the **CIM_PackageCurrentSensor** class for this monitoring function.

Dell-Defined Classes

Server Administrator has extended some CIM classes and has created new classes to assist in managing systems and their components. In this document, the illustrations of the classes created and populated by Dell are represented by an orange circle icon.

Common Properties of Classes

Many classes have properties such as *Caption*, *Description*, and *CreationClassName*. [Common Properties of Classes](#) defines properties that have the same meaning in every class that has this property and are defined more than once in this guide.

Table 1. Common Properties of Classes

Property	Description	Data Type
Caption	Describes the object using a short textual description (one-line string).	string
CreationClassName	Indicates the name of the class or the subclass used in the creation of an instance. When used with the other key properties of this class, this property allows all instances of this class and its subclasses to be uniquely identified.	string
CSCreationClassName	Indicates the computer system's creation class name.	string
CSName	Indicates the computer system's name.	string
CurrentReading	Indicates the actual current value indicated by the sensor in amperes.	sint32
Description	Provides a textual description of the object.	string
LowerThresholdNonCritical	If current reading is between lower threshold noncritical and upper threshold noncritical, the current state is normal. See Figure 3-2.	sint32

Property	Description	Data Type
LowerThresholdCritical	If the current reading is between upper threshold critical and upper threshold fatal, the current state is critical. See Figure 3-2.	sint32
IsLinear	Indicates that the sensor is linear over its dynamic range.	Boolean
Manufacturer	Provides the name of the organization responsible for producing the CIM_PhysicalElement or CIM_SoftwareElement. This may be the entity from whom the element is purchased, but not necessarily. Purchase information is contained in the vendor property of CIM_Product.	string
Name	Defines the label by which the object is known. When subclassed, the <i>Name</i> property can be overridden to be a <i>Key</i> property.	string
Status	<p>Provides a string indicating the status of the component. Status values include:</p> <p>Operational Status Values:</p> <ul style="list-style-type: none"> • <i>OK</i> indicates that the object is functioning normally. • <i>Degraded</i> means that the item is functioning, but not optimally. • <i>Stressed</i> indicates that the element is functioning, but needs attention. Examples of <i>Stressed</i> states are overloaded, overheated, and so on. <p>Nonoperational Status Values:</p> <ul style="list-style-type: none"> • <i>Non-recover</i> means that a nonrecoverable error has occurred. • <i>Error</i> means that an element has encountered an operational condition that is severe as compared to its normal mode of operation. 	string
SystemCreationClassName	Indicates the system's creation class name.	string
UnitModifier	Provides the unit multiplier for the values returned by this sensor. All the values returned by this sensor are represented in units of 10 raised to the power of the unit modifier. If the unit modifier is -6, then the units of the values returned are microvolts. The units apply to all numeric properties of	sint32

Property	Description	Data Type
	the sensor, unless explicitly overridden by the units' qualifier.	
UpperThresholdCritical	If the current reading is between upper threshold critical and upper threshold fatal, the current status is critical. See Figure 3-2.	sint32
UpperThresholdNonCritical	If the current reading is between lower threshold noncritical and lower threshold critical, the current status is noncritical. See Figure 3-2.	sint32
Version	Version should be in the form <i><major>.<minor>.<revision></i> or <i><major>.<minor><letter><revision></i> ; for example, 1.2.3 or 1.2a3.	string

Other Documents You May Need

Besides this *Dell OpenManage Server Administrator CIM Reference Guide*, you can find the following documents on the Dell Support website at dell.com/support/manuals:

- *Dell OpenManage Server Administrator User's Guide* documents the features, installation, and uninstallation of Server Administrator.
- *Dell OpenManage Server Administrator Installation Guide* contains instructions to help you install Dell OpenManage Server Administrator.
- *Dell OpenManage Management Station Software Installation Guide* contains instructions to help you install Dell OpenManage management station software that includes Baseboard Management Utility, DRAC Tools, and Active Directory Snap-In.
- *Dell OpenManage Server Administrator Command Line Interface User's Guide* explains how to perform tasks using the text-based command line interface.
- *Dell OpenManage 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.
- *Dell OpenManage Server Administrator SNMP Reference Guide* documents the SNMP management information base (MIB). The SNMP MIB defines variables that cover the capabilities of Server Administrator systems management agents.
- The *Glossary* for information on terms used in this document.

Typographical Conventions

The following example shows how most of the classes in the Dell CIM provider are documented. [CIM_DMA Properties](#) shows a partial class description for the DELL_DMA class.

 **NOTE:** For a full class description, see [CIM_DMA Properties](#).

Class Name appears in Courier typeface and provides the string that names the class in the MOF.

Parent Class appears in Courier typeface and provides the name of the class from which the present class is derived.

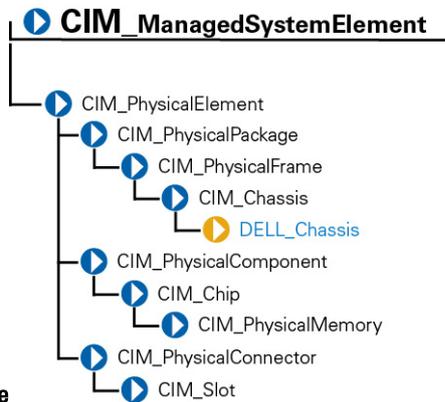
Property denotes the name of the attribute that is being defined for this class.

Description includes text that defines the property.

Data Type stipulates the format that the values of this property must take. Common data types include Boolean, string, and various types of integer. Boolean indicates that the property must be expressed as one of two alternatives.

CIM_PhysicalElement

CIM_PhysicalElement is a CIM-defined class. The **CIM_PhysicalElement** class contains the subclasses shown in Figure



CIM_PhysicalElement Class Structure

CIM_PhysicalElement



Subclasses of the **CIM_PhysicalElement** class listed in Table below define any component of a system that has a distinct physical identity. Physical elements are tangible managed system elements (usually actual hardware items) that have a physical manifestation of some sort. By contrast, processes, files, and logical devices are not classified as physical elements. A managed system element is not necessarily a discrete component. A single card (which is a type of physical element) can host more than one logical device.

One card, for example, could implement both a modem and a local area network (LAN) adapter. In this case, the card would be represented by a single physical element associated with multiple logical devices.

Table 2. CIM_PhysicalElement Properties

Class Name: CIM_PhysicalElement

Parent Class: CIM_ManagedSystemElement

Property	Description	Data Type
CreationClassName	See Common Properties of Classes	
Manufacturer	See Common Properties of Classes	
Model	The name by which the physical element is generally known.	string

SerialNumber	A manufacturer-allocated number used to identify the physical element.	string
Tag	Uniquely identifies the physical element and serves as the element's key. The Tag property can contain information such as asset tag or serial number data. The key for a physical element is placed very high in the object hierarchy in order to identify the hardware/entity independently, regardless of the physical placement in or on cabinets, adapters, and so on. For example, a hotswappable or removable component can be taken from its containing (scoping) package and be temporarily unused. The object still continues to exist and may even be inserted into a different scoping container. Therefore, the key for the physical element is an arbitrary string that is defined independently of any placement or location-oriented hierarchy.	string

CIM_PhysicalPackage



The **CIM_PhysicalPackage** class listed in Table below represents physical elements that contain or host other components. Examples are a rack enclosure or an adapter card with multiple functions.

Table 3. CIM_PhysicalPackage Properties

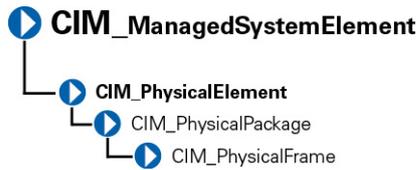
Class Name:	CIM_PhysicalPackage	
Parent Class:	CIM_PhysicalElement	
Property	Description	Data Type
Removable	A CIM_PhysicalPackage is removable if it is designed to be taken in and out of the physical container in which it is	Boolean

normally found without impairing the function of the overall package.

Replaceable

A `CIM_PhysicalPackage` is replaceable if it is possible to substitute a physically different element for the original element, as in a field replaceable unit (FRU). For example, some computer systems allow the microprocessor to be upgraded to one of a higher clock rating. In this case, the microprocessor is said to be replaceable.

CIM_PhysicalFrame

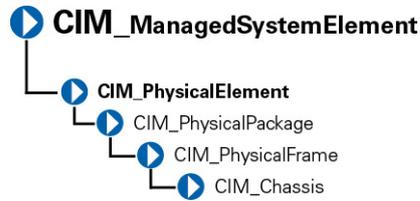


The `CIM_PhysicalFrame` class described in Table properties contains other frame enclosures such as racks and chassis. Properties like `VisibleAlarm` or `AudibleAlarm`, and data related to security breaches are also members of this class.

Table 4. CIM_Physical Frame Properties

Class Name:	<code>CIM_PhysicalFrame</code>	
Parent Class:	<code>CIM_PhysicalPackage</code>	
Property	Description	Data Type
LockPresent	Indicates whether the frame is protected with a lock.	Boolean
AudibleAlarm	Indicates whether the frame is equipped with an audible alarm.	Boolean
VisibleAlarm	Indicates that the equipment includes a visible alarm.	Boolean
SecurityBreach	An enumerated, integer-valued property indicating that a physical breach of the frame is in progress. Values for the <code>SecurityBreach</code> property are: 1 - Other 2 - Unknown 3 - No breach 4 - Breach attempted 5 - Breach successful	uint16
IsLocked	Indicates that the frame is currently locked.	Boolean

CIM_Chassis



The **CIM_Chassis** class described in Table below represents the physical elements that enclose physical elements such as power supplies, fans, and processors.

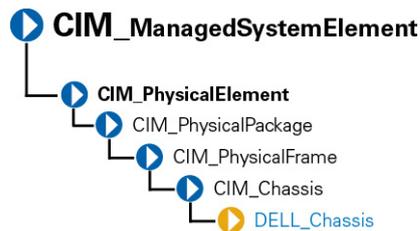
Table 5. CIM_Chassis Parent Properties

Class Name: CIM_Chassis

Parent Class: CIM_PhysicalFrame

Property	Description	Data Type
ChassisTypes	Values for the ChassisTypes property are: <ol style="list-style-type: none">1. Other2. Unknown3. Mini-tower4. Tower5. Space-saving6. Main system chassis7. Expansion chassis8. Subchassis9. Space-saving10. Main system chassis11. Expansion chassis12. Subchassis13. Bus expansion chassis14. Peripheral chassis15. Storage chassis16. Rack-mount chassis	uint16

DELL_Chassis



The **DELL_Chassis** class explained in Table below defines the identifying and status properties of the chassis. **DELL_Chassis** inherits from CIM-defined classes, but is populated by Dell properties.

Table 6. DELL_Chassis Properties

Class Name:	DELL_Chassis	
Parent Class:	CIM_Chassis	
Property	Description	Data Type
AssetTag	Indicates the container AssetTag string. This asset tag string is assigned by the system administrator.	string
SystemClass	Refers to the system type that is installed and running the instrumentation. Values for the SystemClass property are: 1 - Other 2 - Unknown 3 - Workstation 4 - Server 5 - Desktop 6 - Portable 7 - Net PC	uint16
SystemID	Indicates the system identifier code.	uint16
LogFormat	Defines whether the event log data is unicode formatted or binary (raw). Values for the event LogFormat property are: 1 - Formatted (event log only) 2 - Unformatted 3 - Events_and_POST_Formatted (both the event log and the power-on self-test (POST) log are unicode formatted)	uint16
FanStatus	Indicates the global status of fan sensors.	string
TempStatus	Indicates the global status of temperature sensors.	string
VoltStatus	Indicates the global status of voltage sensors.	string
AmpStatus	Indicates the global status of current sensors.	string
PsStatus	Indicates the global status of power supplies.	string
MemStatus	Indicates the global status of memory devices.	string
ProcStatus	Indicates the global status of processor devices.	string
FanRedStatus	Indicates the global status of the cooling unit.	string
PsRedStatus	Indicates the global status of the power unit.	string
IsDefaultThrSupported	Indicates whether resetting default thresholds are supported.	Boolean

Class Name:	DELL_Chassis	
Parent Class:	CIM_Chassis	
Property	Description	Data Type
ChassisSystemProperties	Indicates chassis characteristics, such as energy smart and so on.	uint16
ChassisSystemRevision	Indicates the chassis revision.	uint16
EsmLogStatus	Indicates the global status of ESM log.	string
MemoryRedStatus	Indicates the global status of memory redundancy.	string
ChassisExpressServiceCode	Indicates the chassis express service code.	string

CIM_PhysicalComponent



The **CIM_PhysicalComponent** class listed in Table below represents any low-level or basic component within a package. A component object either cannot or does not need to be broken down into its constituent parts. For example, an application specific integrated circuit (ASIC) cannot be broken down into smaller discrete parts.

Table 7. CIM_PhysicalComponent Properties

Class Name:	CIM_PhysicalComponent
Parent Class:	CIM_PhysicalElement

CIM_Chip



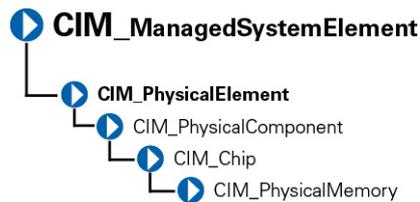
The **CIM_Chip** class listed in [Chip Properties](#) represents any type of integrated circuit hardware, including ASICs, processors, memory chips, and so on.

Table 8. CIM_Chip Properties

Class Name: CIM_Chip		
Parent Class: CIM_PhysicalComponent		
Property	Description	Data Type
FormFactor	0 — Unknown 1 — Other 2 — SIP	uint16

- 3 — DIP
- 4 — ZIP
- 5 — SOJ
- 6 — Proprietary
- 7 — SIMM
- 8 — DIMM
- 9 — TSOP
- 10 — PGA
- 11 — RIMM
- 12 — SODIMM
- 13 — SRIMM
- 14 — SMD
- 15 — SSMP
- 16 — QFP
- 17 — TQFP
- 18 — SOIC
- 19 — LCC
- 20 — PLCC
- 21 — BGA
- 22 — FPBGA
- 23 — LGA
- 24 — FB-DIMM

CIM_PhysicalMemory



The **CIM_PhysicalMemory** class listed in [PhysicalMemoryProperties](#) is a subclass of **CIM_Chip**, representing low-level memory devices, such as SIMMs, DIMMs, and so on.

Table 9. CIM_PhysicalMemory Properties

Class Name: CIM_PhysicalMemory

Parent Class: CIM_Chip

Property	Description	Data Type
FormFactor	See Chip Properties	uint16
MemoryType	Indicates the type of physical memory. Values for the MemoryType property are: 0 - Unknown 1 - Other 2 - DRAM	uint16

- 3 - Synchronous DRAM
- 4 - Cache DRAM
- 5 - EDO
- 6 - EDRAM
- 7 - VRAM
- 8 - SRAM
- 9 - RAM
- 10 - ROM
- 11 — Flash
- 12 - EEPROM
- 13 - FEPRAM
- 14 - EPROM
- 15 - CDRAM
- 16 - 3DRAM
- 17 - SDRAM
- 18 - SGRAM
- 19 - RDRAM
- 20 - DDR
- 21 - DDR2
- 22 - DDR2 FB-DIMM
- 24 - DDR3
- 25 - FBD2

TotalWidth	Indicates the total width, in bits, of the physical memory, including check or error correction bits. If there are no error correction bits, the value in this property should match that specified for the DataWidth property.	uint16
DataWidth	Indicates the data width, in bits, of the physical memory. A data width of 0 and a total width of 8 would indicate that the memory is solely used to provide error correction bits.	uint16
Speed	Indicates the speed of the physical memory, in nanoseconds.	uint32
Rank	The Rank values of DIMM are: 0 - Unknown 1 - Single 2 - Dual 4 - Quad 8 - Octal	uint32

	16 - Hexa	
SpeedAsString	Indicates the accurate speed of the physical memory, in string format (with units).	string
Capacity	Indicates the total capacity of this physical memory, in bytes.	uint64
BankLabel	A string identifying the physically labeled bank where the memory is located, for example, "Bank 0" or "Bank A."	string
PositionInRow	Specifies the position of the physical memory in a "row." For example, if it takes two 8-bit memory devices to form a 16-bit row, then a value of 2 means that this memory is the second device. 0 is an invalid value for this property.	uint32
InterleavePosition	Indicates the position of this physical memory in an interleave. 0 indicates noninterleaved. 1 indicates the first position, 2 the second position, and so on. For example, in a 2:1 interleave, a value of 1 indicates that the memory is in the "even" position.	uint32

CIM_PhysicalConnector



The **CIM_PhysicalConnector** class listed in [Physical Connector Properties](#) includes physical elements such as plugs, jacks, or buses that connect physical elements. Any object that can be used to connect and transmit signals or power between two or more physical elements is a member of this class. For example, slots and D-shell connectors are types of physical connectors. See [Connector Type Values](#) for a list of valid connector type values.

Table 10. CIM_PhysicalConnector Properties

Class Name: CIM_PhysicalConnector

Parent Class: CIM_PhysicalElement

Property	Description	Data Type
----------	-------------	-----------

ConnectorPinout	A free-form string describing the pin configuration and signal usage of a physical connector.	string
ConnectorType	An array of integers defining the type of physical connector. An array is specified to allow the description of "combinations" of connector information. For example, one array entry could specify RS-232, another DB-25, and a third entry could define the connector as male. See Connector Type Values for the values of the ConnectorType property.	uint16

Table 11. Connector Type Values

0 - Unknown	30 - unused	60 - Micro-DIN	90 - On board IDE Connector
1 - Other	31 - unused	61 - PS/2	91 - On board floppy
2 - Male	32 - IEEE-48	62 - Infrared	92 - 9 Pin dual inline
3 - Female	33 - AUI	63 - unused	93 - 25 Pin dual inline
4 - Shielded	34 - UTP Category 3	64 - Access bus	94 - 50 Pin dual inline
5 - Unshielded	35 - UTP Category 4	65 - unused	95 - 68 Pin dual inline
6 - SCSI (A) High-Density (50 pins)	36 - UTP Category 5	66 - Centronics	96 - On board sound connector
7 - SCSI (A) Low-Density (50 pins)	37 - BNC	67 - Mini-Centronics	97 - Mini-jack
8 - SCSI (P) High-Density (68 pins)	38 - RJ11	68 - Mini-Centronics Type-14	98 - PCI-X
9 - SCSI SCA-I (80 pins)	39 - RJ45	69 - Mini-Centronics Type-20	99 - Sbus IEEE 1396-1993 32-bit
10 - SCSI SCA-II (80 pins)	40 - Fiber MIC	70 - Mini-Centronics Type-26	100 - Sbus IEEE 1396-1993 64-bit
11 - Fibre Channel (DB-9 Copper)	41 - unused	71 - Bus mouse	101 - unused
12 - Fibre Channel (Fiber Optical)	42 - unused	72 - ADB	102 - GIO
13 - Fibre Channel SCAII (40 pins)	43 - PCI	73 - AGP	103 - XIO
14 - Fibre Channel SCAII (20 pins)	44 - ISA	74 - VME bus	104 - HIO

15 - Fibre Channel BNC	45 - unused	75 - VME64	105 - NGIO
16 - ATA 3-1/2 inch (40 pins)	46 - VESA	76 - Proprietary	106 - PMC
17 - ATA 2-1/2 inch (44 pins)	47 - unused	77 - Proprietary processor card slot	107 - MTRJ
18 - ATA-2	48 - unused	78 - Proprietary memory card slot	108 - VF-45
19 - ATA-3	49 - unused	79 - Proprietary I/O riser slot	109 - Future I/O
20 - ATA/66	50 - unused	80 - PCI-66 MHz	110 - SC
21 - DB-9	51 - unused	81 - AGP2X	111 - SG
22 - DB-15	52 - unused	82 - AGP4X	112 - Electrical
23 - DB-25	53 - USB	83 - PC-98	113 - Optical
24 - DB-36	54 - IEEE 1394	84 - PC-98-Hireso	114 - Ribbon
25 - RS-232C	55 - HIPPI	85 - PC-H98	115 - GLM
26 - RS-422	56 - HSSDC (6 pins)	86 - PC-98Note	116 - 1x9
27 - RS-423	57 - GBIC	87 - PC-98Full	117 - Mini SG
28 - RS-485	58 - DIN	88 - SSA SCSI	118 - LC
29 - RS-449	59 - Mini-DIN	89 - Circular	119 - HSSC

CIM_Slot



The **CIM_Slot** class listed in Table below represents connectors into which packages are inserted. For example, a physical package that is a hard drive can be inserted into a small computer system interface-single connector attachment (SCSI-SCA) slot. As another example, a card can be inserted into a 16-, 32-, or 64-bit expansion slot on a host board

Table 12. CIM_Slot Properties

Class Name:class CIM_Slot

Parent Class: CIM_PhysicalConnector

Property	Description	Data Type
ConnectorType	See Connector Type Values	uint16
SupportsHotPlug	Indicates whether the slot supports hot-plug adapter cards.	Boolean
MaxDataWidth	Indicates the maximum bus width in bits of adapter cards that can be inserted	uint16

into this slot. Values for the MaxDataWidth property are as follows:

- 0** - Unknown
- 1** - Other
- 8** - bits
- 16** - bits
- 32** - bits
- 64** - bits
- 128** - bits

SystemSlotType

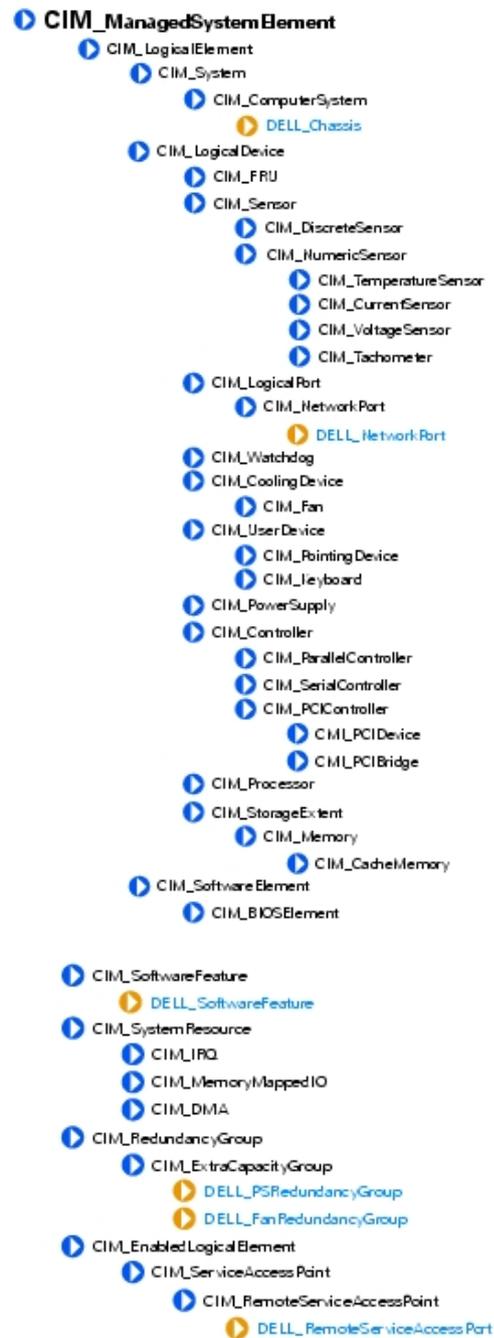
Indicates the type of system slot. Values for the SystemSlotType property are as follows:

- 1** - Other
- 2** - Unknown
- 3** - ISA
- 4** - MCA
- 5** - EISA
- 6** - PCI
- 7** - PCMCIA
- 8** - VL-VESA
- 9** - Proprietary
- 10** - Processor card Slot
- 11** - Proprietary memory card slot
- 12** - I/O Riser card slot
- 13** - NuBus
- 14** - PCI - 66MHz capable
- 15** - AGP
- 16** - AGP 2X
- 17** - AGP 4X
- 18** - PCI-X
- 19** - AGP 8X
- 160** - PC-98/C20
- 161** - PC-98/C24
- 162** - PC-98/E
- 163** - PC-98/Local bus
- 164** - PC-98/Card
- 165** - PCI Express
- 166** - PCI Express x1
- 167** - PCI Express x2
- 168** - PCI Express x4
- 169** - PCI Express x8
- 170** - PCI Express x16
- 171** - PCI Express Gen 2
- 172** - PCI Express Gen 2 x1

- 173** - PCI Express Gen 2 x2
- 174** - PCI Express Gen 2 x4
- 175** - PCI Express Gen 2 x8
- 176** - PCI Express Gen 2 x16

CIM_LogicalElement

CIM_LogicalElement is a CIM-defined class containing the subclasses described in below Figure .



CIM_LogicalElement



Table properties lists the following characteristics for members of the **CIM_LogicalElement** class:

- Represent abstractions used to manage and coordinate aspects of a physical environment such as files, processes, systems, system capabilities, and network components in the form of logical devices
- Represent devices, where devices are abstractions of hardware entities that may or may not be realized in physical hardware

Table 13. CIM_LogicalElement Properties

Class Name:	CIM_LogicalElement
Parent Class:	CIM_ManagedSystemElement

CIM_System



The **CIM_System** class described in Table below defines a collection of managed system elements that operates as a functional whole. An instance of the **CIM_System** class contains a well-defined list of components that work together to perform a specific function.

Table 14. CIM_System Properties

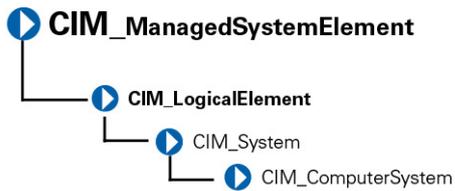
Class Name: CIM_System

Parent Class: CIM_LogicalElement

Property	Description	Data Type
CreationClassName	See Common Properties of Classes	string
Name	Indicates the name of a specific system, such as a particular storage system or server.	string
PrimaryOwnerContact	Provides information about how the primary system owner can be reached, for example, a phone number or e-mail address.	string

PrimaryOwnerName	Indicates the name of the primary system owner.	string
Roles	An array of strings that specifies the roles this system plays in the IT environment. For example, for an instance of a network system, the Roles property might contain the string "storage system."	string

CIM_ComputerSystem

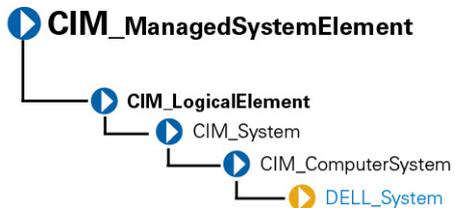


The **CIM_ComputerSystem** class described in Table below contains some or all of the following **CIM_ManagedSystemElements**: file system, operating system, processor, and memory (volatile and/or nonvolatile storage). For properties, see [CIM_System Properties](#).

Table 15. CIM_ComputerSystem Properties

Class Name:	CIM_ComputerSystem
Parent Class:	CIM_System

DELL_System



The **DELL_System** class described in Table below is the set of all Dell instrumented systems, including server, and storage systems. For properties, see [CIM_System Properties](#)

Table 16. DELL_System Properties

Class Name:	DELL_System
Parent Class:	CIM_ComputerSystem

CIM_LogicalDevice



The **CIM_LogicalDevice** class described below Table models a hardware entity that may be realized in physical hardware. **CIM_LogicalDevice** includes any characteristics of a logical device that manages its operation or configuration. An example of a logical device is a temperature sensor's reading of the actual temperature.

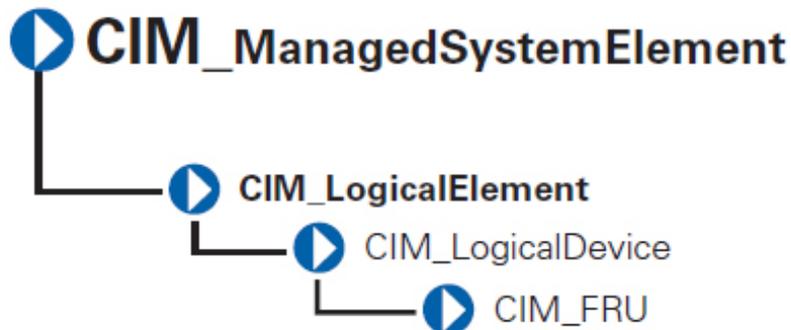
Table 17. CIM_Logical Device Properties

Class Name: CIM_LogicalDevice

Parent Class: CIM_LogicalElement

Property	Description	Data Type
SystemCreationClassName	See Common Properties of Classes	string
SystemName	Indicates the scoping system's name.	string
CreationClassName	See Common Properties of Classes	string
DeviceID	Identifies an address or other identifying information to uniquely name the logical device.	string

CIM_FRU



The **CIM_FRU** class described in [FRU Properties](#) contains manufacturing information related to the Field Replaceable Units (FRU) of a system such as a system planar or I/O riser card.

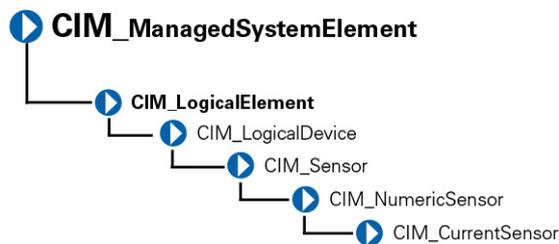
Table 18. CIM_FRU Properties

Class Name: CIM_FRU

Parent Class: CIM_LogicalDevice

Property	Description	Data Type
FRUInformationState	Indicates the state and availability of FRU information.	uint 16
FRUDeviceName	Indicates the device name of the FRU.	string
FRUManufacturingDateName	Indicates the manufacturing date of the FRU in ticks.	datetime
FRUManufacturerName	Indicates the name of the manufacturer.	string
FRUPartNumberName	Indicates the FRU part number.	string
FRUSerialNumberName	Indicates the FRU serial number.	string
FRURevisionName	Indicates the FRU revision number.	string

CIM_Sensor



The **CIM_Sensor** class described in Table below contains hardware devices capable of measuring the characteristics of some physical property, for example, the temperature or voltage characteristics of a computer system

Table 19. CIM_Sensor Properties

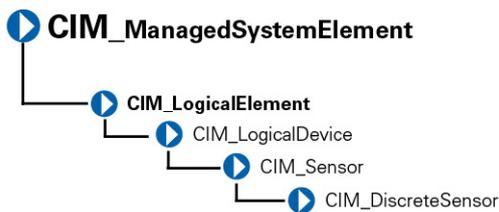
Class Name: CIM_Sensor

Parent Class: CIM_LogicalDevice

Property	Description	Data Type
SensorType	Indicates the type of the sensor, for example, voltage or temperature sensor. Values for the SensorType property are: 0 - Unknown 1 - Other 2 - Temperature sensors measure the environmental temperature. 3 - Voltage sensors measure electrical voltage.	uint16

	<p>4 - Current sensors measure current readings.</p> <p>5 - Tachometers measure speed/revolutions of a device. For example, a fan device can have an associated tachometer that measures its speed.</p> <p>6 - Batteries maintain the time and date and save the system's BIOS configuration when the system is turned off.</p>	
OtherSensorType	Description Indicates the type of sensor when the SensorType property is set to Other .	string
PossibleStates	Enumerates the string outputs of the sensor. For example, a NumericSensor can report states based on threshold readings.	string
CurrentState	Indicates the current state of the sensor. This value is always one of the Possible States.	string
PollingInterval	Indicates the polling interval, in nanoseconds, that the sensor hardware or instrumentation uses to determine the current state of the sensor.	uint64

CIM_DiscreteSensor



The **CIM_DiscreteSensor** class described in Table below has a set of legal string values that it can report. The **CIM_DiscreteSensor** always has a "current reading" that corresponds to one of the enumerated values.

Table 20. CIM_DiscreteSensor Properties

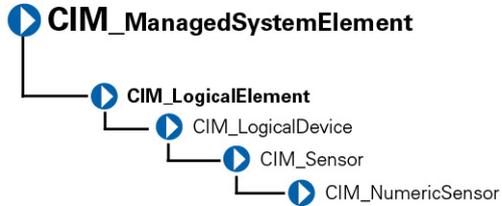
Class Name: CIM_DiscreteSensor

Parent Class: CIM_Sensor

Property	Description	Data Type
----------	-------------	-----------

CurrentReading	See Common Properties of Classes	sint32
PossibleValues	Enumerates the string outputs that can be reported by the sensor.	sint32

CIM_NumericSensor



The **CIM_NumericSensor** class described in [NumericSensor Properties](#) returns numeric settings and may also support threshold settings. Figure below shows the relationship among upper and lower critical and upper and lower non-critical threshold values. The normal range falls between upper and lower non-critical thresholds.

Figure : Ranges for Threshold Values

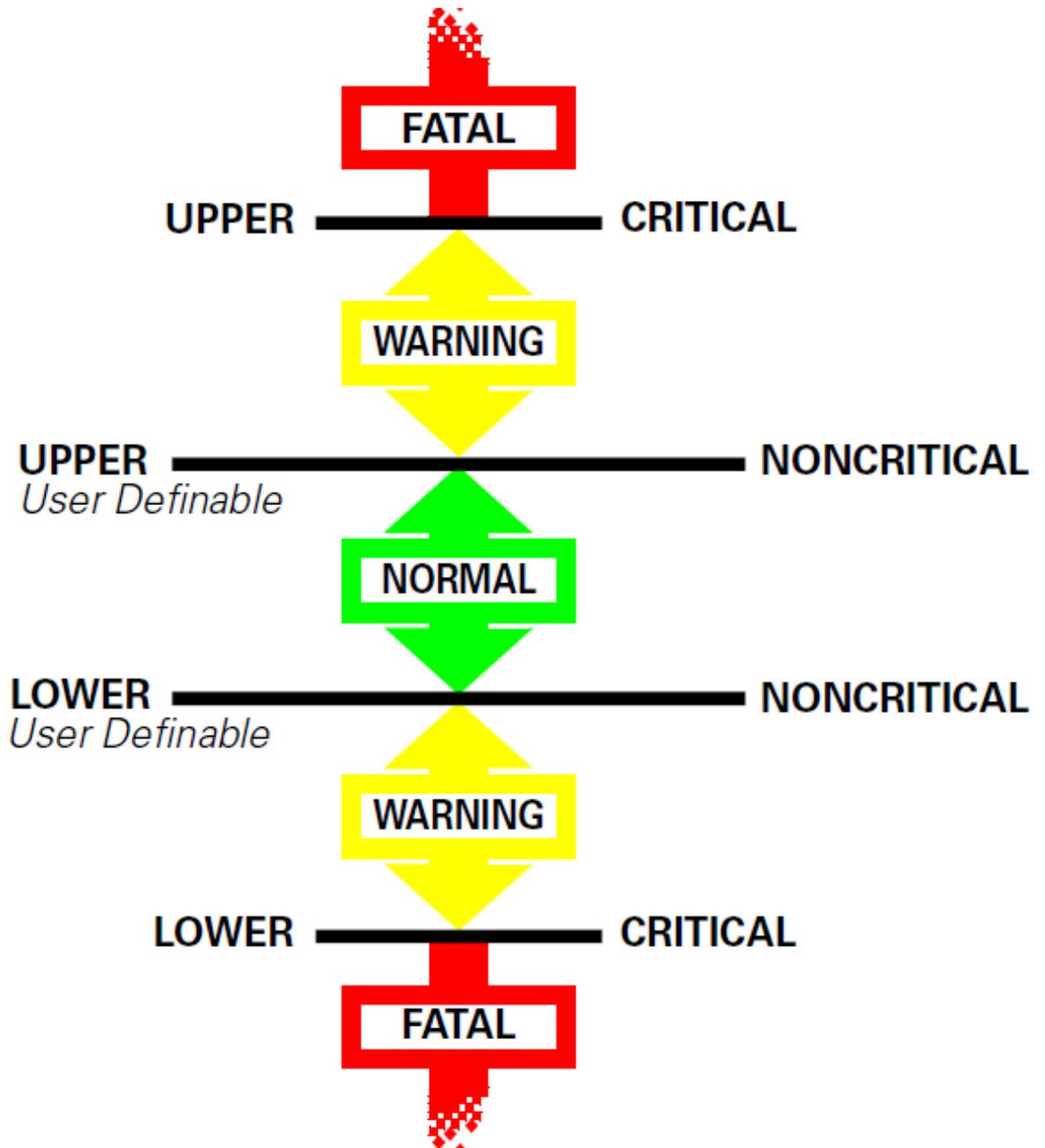


Table 21. CIM_NumericSensor Properties

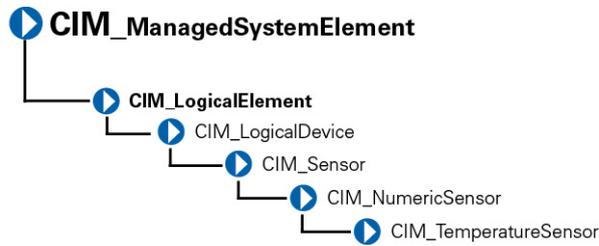
Class Name: CIM_NumericSensor

Parent Class: CIM_Sensor

Property	Description	Data Type
UnitModifier	See Common Properties of Classes	sint32
CurrentReading	See Common Properties of Classes	sint32

IsLinear	See Common Properties of Classes	Boolean
LowerThresholdNonCritical	See Common Properties of Classes	sint32
UpperThresholdNonCritical	See Common Properties of Classes	sint32
LowerThresholdCritical	See Common Properties of Classes	sint32
UpperThresholdCritical	See Common Properties of Classes	sint32
SupportedThresholds	An array representing the thresholds supported by this sensor. The supported values are as follows: 1 - LowerThresholdNonCritical 2 - UpperThresholdNonCritical 3 - LowerThresholdCritical 4 - UpperThresholdCritical	uint16
EnabledThresholds	An array representing the thresholds that are currently enabled for this sensor. Enabled threshold values are as follows: 1 - LowerThresholdNonCritical 2 - UpperThresholdNonCritical 3 - LowerThresholdCritical 4 - UpperThresholdCritical	uint16
SettableThresholds	An array representing the writable thresholds supported by this sensor. Settable threshold values are: 1 - LowerThresholdNonCritical 2 - UpperThresholdNonCritical	uint16

CIM_TemperatureSensor



The **CIM_TemperatureSensor** class described in Table below contains sensors that sample ambient temperature and return a value in degrees celsius.

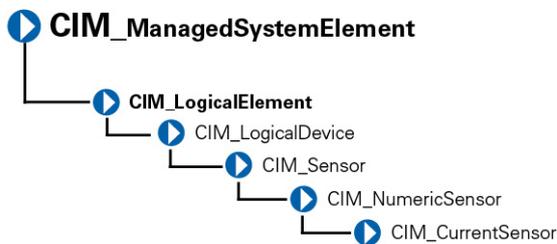
Table 22. CIM_TemperatureSensor Properties

Class Name: CIM_TemperatureSensor

Parent Class: CIM_NumericSensor

Property	Description	Data Type
UnitModifier	See Common Properties of Classes	sint32
CurrentReading	See Common Properties of Classes	sint32
IsLinear	See Common Properties of Classes	Boolean
LowerThresholdNonCritical	See Common Properties of Classes	sint32
UpperThresholdNonCritical	See Common Properties of Classes	sint32
LowerThresholdCritical	See Common Properties of Classes	sint32
UpperThresholdCritical	See Common Properties of Classes	sint32

CIM_CurrentSensor



The **CIM_CurrentSensor** class described in Properties Table below contains sensors that measure amperage and return a value in amperes and watts.

Table 23. CIM_CurrentSensor Properties

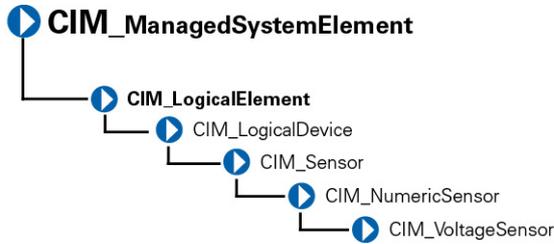
Class Name: CIM_CurrentSensor

Parent Class: CIM_NumericSensor

Property	Description	Data Type
UnitModifier	See Common Properties of Classes	sint32
CurrentReading	See Common Properties of Classes	sint32

IsLinear	See Common Properties of Classes	Boolean
LowerThresholdNonCritical	See Common Properties of Classes	sint32
UpperThresholdNonCritical	See Common Properties of Classes	sint32
LowerThresholdCritical	See Common Properties of Classes	sint32
UpperThresholdCritical	See Common Properties of Classes	sint32

CIM_VoltageSensor



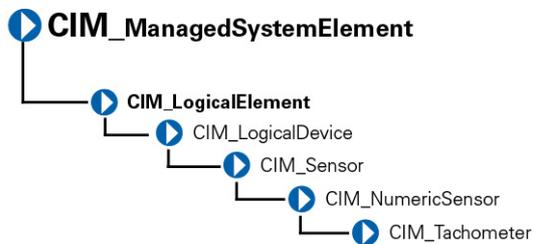
The **CIM_VoltageSensor** class described in Table below contains sensors that measure voltage and return a value in volts. Table

Table 24. CIM_VoltageSensor Properties

Class Name: CIM_VoltageSensor
Parent Class: CIM_NumericSensor

Property	Description	Data Type
UnitModifier	See Common Properties of Classes	sint32
CurrentReading	See Common Properties of Classes	sint32
IsLinear	See Common Properties of Classes	Boolean
LowerThresholdNonCritical	See Common Properties of Classes	sint32
UpperThresholdNonCritical	See Common Properties of Classes	sint32
LowerThresholdCritical	See Common Properties of Classes	sint32
UpperThresholdCritical	See Common Properties of Classes	sint32

CIM_Tachometer



The **CIM_Tachometer** class described in Table below contains devices that measure revolutions per minute (RPM) of a fan and return the value in RPMs.

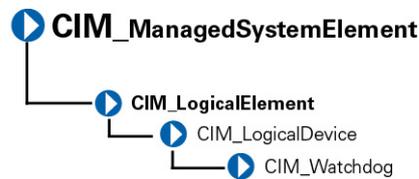
Table 25. CIM_Tachometer Properties

Class Name: CIM_Tachometer

Parent Class: CIM_NumericSensor

Property	Description	Data Type
SensorType	See Common Properties of Classes	uint16
UnitModifier	See Common Properties of Classes	sint32
CurrentReading	See Common Properties of Classes	sint32
IsLinear	See Common Properties of Classes	Boolean
LowerThresholdNonCritical	See Common Properties of Classes	sint32
UpperThresholdNonCritical	See Common Properties of Classes	sint32

CIM_WatchDog



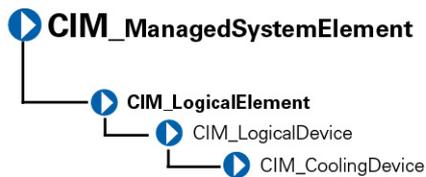
The **CIM_WatchDog** class described in Table below represents a timer that is implemented in system hardware. The watchdog feature allows the hardware to monitor the state of the operating system, BIOS, or a software component installed on the system. If the monitored component fails to rearm the timer before its expiration, the hardware assumes that the system is in a critical state and could reset the system. This feature can also be used as an application watchdog timer for a mission-critical application. In this case, the application would assume responsibility for rearming the timer before expiration.

Table 26. CIM_WatchDog Properties

Class Name:	CIM_WatchDog	
Parent Class:	CIM_LogicalDevice	
Property	Description	Data Type
MonitoredEntity	Indicates the entity that is currently being monitored by the watchdog feature. This property is used to identify the module that is responsible for rearming the watchdog at periodic intervals. Values for the MonitoredEntity property are: 1 - Unknown 2 - Other 3 - Operating System	uint16
MonitoredEntity Description	A string describing additional textual information about the monitored entity.	string
TimeoutInterval	Indicates the time-out interval used by the watchdog, in microseconds.	uint32

Class Name:	CIM_WatchDog	
Parent Class:	CIM_LogicalDevice	
Property	Description	Data Type
TimerResolution	Indicates the resolution of the watchdog timer. For example, if this value is 100, then the timer can expire anytime between -100 microseconds and +100 microseconds.	uint32

CIM_CoolingDevice

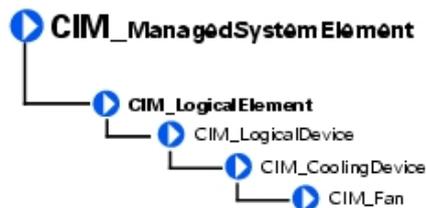


The **CIM_CoolingDevice** class described in [CIM_CoolingDevice](#) contains a set of devices that work to keep the ambient internal temperature of the system at a safe value.

Table 27. CIM_CoolingDevice Properties

Class Name:	CIM_CoolingDevice	
Parent Class:	CIM_LogicalDevice	
Property	Description	Data Type
ActiveCooling	Specifies whether the device provides active (as opposed to passive) cooling.	Boolean

CIM_Fan



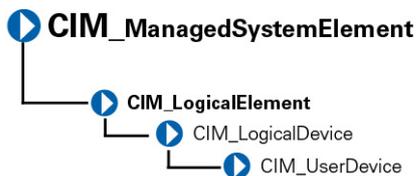
The **CIM_Fan** class described in below Table contains a set of devices that work to keep the ambient internal temperature of the system at a safe value by circulating air.

Table 28. CIM_Fan Properties

Class Name:	CIM_Fan	
Parent Class:	CIM_CoolingDevice	
Property	Description	Data Type

VariableSpeed	Specifies if the fan supports variable speeds.	Boolean
DesiredSpeed	Indicates the currently requested fan speed, defined in RPM. When the VariableSpeed value is TRUE, the fan supports variable speeds. When a variable speed fan is supported (VariableSpeed is TRUE), the actual speed is determined using a sensor (CIM_Tachometer) that is associated with the fan.	uint64

CIM_UserDevice

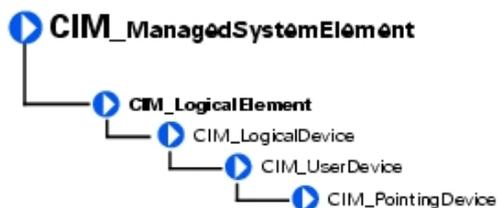


The **CIM_UserDevice** class described in Table below contains logical devices that allow a system’s users to input or view data. Classes derived from **CIM_UserDevice** include **CIM_Keyboard** and **CIM_PointingDevice**.

Table 29. CIM_UserDevice Properties

Class Name:	CIM_UserDevice	
Parent Class:	CIM_LogicalDevice	
Property	Description	Data Type
IsLocked	Indicates if the device is locked, preventing user input or output.	Boolean

CIM_PointingDevice



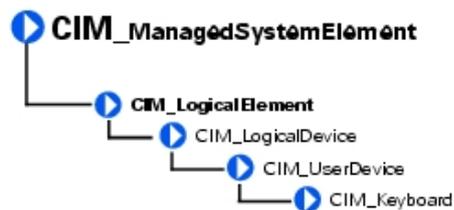
The **CIM_PointingDevice** class described in Table below includes those devices used to point to regions of a display. Examples of such devices are a mouse or a trackball.

Table 30. CIM_PointingDevice Properties

Class Name:	CIM_PointingDevice	
Parent Class:	CIM_UserDevice	
Property	Description	Data Type

PointingType	Indicates the type of pointing device. Values for the PointingType property are: 1 — Other 2 - Unknown 3 - Mouse 4 - Trackball 5 - Trackpoint 6 - Glidepoint 7 - Touch pad 8 - Touch screen 9 - Mouse — optical sensor	uint16
NumberOfButtons	Indicates the number of buttons. If the CIM_PointingDevice has no buttons, a value of 0 is returned.	uint8
Handedness	Integer indicating if the CIM_PointingDevice is configured for right- or left-handed operation. Values for the Handedness property are as follows: 0 - Unknown 1 - Not applicable 2 - Right-handed operation 3 - Left-handed operation	uint16

CIM_Keyboard



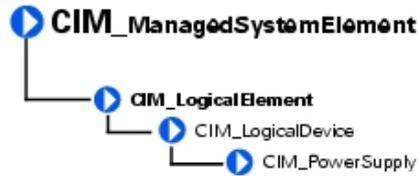
The **CIM_Keyboard** class described in Table below includes devices that allow users to enter data.

Table 31. CIM_Keyboard Properties

Class Name:	CIM_Keyboard	
Parent Class:	CIM_UserDevice	
Property	Description	Data Type
NumberOfFunctionKeys	Indicates the number of function keys on the keyboard.	uint16
Layout	A free-form string indicating the format and layout of the keyboard.	string
Password	An integer indicating if a hardware-level password is enabled at the	uint16

- keyboard, preventing local input.
 Values for the **Password** property are:
- 1 - Other
 - 2- Unknown
 - 3- Disabled
 - 4- Enabled
 - 5- Not implemented

CIM_PowerSupply



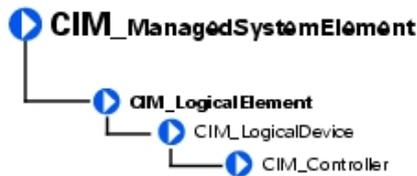
The **CIM_PowerSupply** class described in Table below contains devices that provide current and voltage for the operation of the system and its components

Table 32. CIM_PowerSupply Properties

Class Name:	CIM_PowerSupply	
Parent Class:	CIM_LogicalDevice	
Property	Description	Data Type
IsSwitchingSupply	Indicates that the power supply is a switching power supply and not a linear power supply.	Boolean
Range1InputVoltageLow	Indicates the low voltage in millivolts of input voltage range 1 for this power supply. A value of 0 denotes unknown.	uint32
Range1InputVoltageHigh	Indicates the high voltage in millivolts of input voltage range 1 for this power supply. A value of 0 denotes unknown.	uint32
ActiveInputVoltage	Indicates which input voltage range is currently in use. Range 1, range 2, or both can be specified using the values 3, 4, or 5, respectively. If the supply is not drawing power, a value of 6 (neither) can be specified. This information is necessary in the case of an uninterruptible power supply (UPS), a subclass of power supply. Values for the ActiveInputVoltage property are: 1 - Other 2 - Unknown	uint16

	3 - Range 1 4 - Range 2 5 - Both range 1 and range 2 6 - Neither range 1 nor range 2	
TotalOutputPower	Represents the total output power of the power supply in milliwatts. A value of 0 denotes that the power output is unknown.	uint32
PMCapable	Indicates the Power Monitoring capability.	Boolean

CIM_Controller



The **CIM_Controller** class described in below Table properties , groups miscellaneous control-related devices. Examples of controllers are small computer system interface (SCSI) controllers, Universal Serial Bus (USB) controllers, and serial controllers.

Table 33. CIM_Controller Properties

Class Name:	CIM_Controller	
Parent Class:	CIM_LogicalDevice	
Property	Description	Data Type
ProtocolSupported	The protocol used by the controller to access controlled devices. Values for the ProtocolSupported property are: 1 - Other 2 - Unknown 3 - PCI 4 - Parallel protocol	uint16

CIM_ParallelController

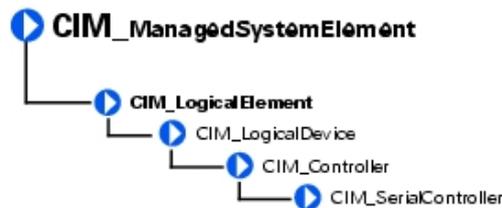


The **CIM_ParallelController** class described in below contains a set of objects that control parallel devices. Parallel controllers transfer 8 or 16 bits of data at a time to the devices they control, for example, a parallel port controlling a printer.

Table 34. CIM_ParallelController Properties

Class Name:	CIM_ParallelController	
Parent Class:	CIM_Controller	
Property	Description	Data Type
DMASupport	Set to TRUE if the parallel controller supports DMA.	Boolean
Security	An enumeration indicating the operational security for the controller. Values for the Security property are: 1 - Other 2 - Unknown 3 - None 4 - External interface locked out 5 - External interface enabled 6 - Boot bypass	uint16

CIM_SerialController



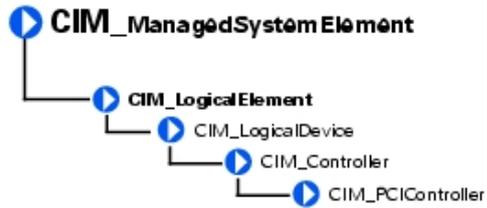
The **CIM_SerialController** class described in Table below contains controllers that transfer data one bit at a time to the devices they control, for example, a serial port controlling a modem.

Table 35. CIM_SerialController Properties

Class Name:	CIM_SerialController	
Parent Class:	CIM_Controller	
Property	Description	Data Type
MaxBaudRate	Indicates the maximum baud rate in bits per second supported by the serial controller.	uint32
Security	An enumeration indicating the operational security for the controller. Values for the Security property are: 1 - Other 2 - Unknown 3 - None	uint16

- 4 - External interface locked out
- 5 - External interface enabled
- 6 - Boot bypass

CIM_PCIController

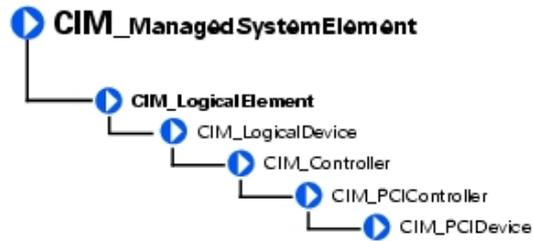


The **CIM_PCIController** class described in Table below contains a set of devices that follow the Peripheral Component Interconnect (PCI) protocol defined by the Personal Computer Memory Card International Association (PCMCIA). The PCI protocol defines how data is transferred between devices. The **CIM_PCIController** class contains PCI adapters and bridges.

Table 36. CIM_PCIController Properties

Class Name:	CIM_PCIController	
Parent Class:	CIM_Controller	
Property	Description	Data Type
CommandRegister	<p>The current contents of the register that provide basic control over the device's ability to respond to, and/or perform PCI accesses. The data in the capabilities array is gathered from the PCI status register and the PCI capabilities list as defined in the PCI specification.</p> <p>Values for the CommandRegister property are:</p> <ul style="list-style-type: none"> 0 - Unknown 1 - Other 2 - Supports 66 MHz 3 - Supports user-definable features 4 - Supports fast back-to-back transactions 5 - PCI-X capable 6 - PCI power management supported 7 - Message signaled interrupts supported 8 - Parity error recovery capable 9 - AGP supported 10 - Vital product data supported 11 — Provides slot identification 12 - Hot swap supported 	uint16

CIM_PCIDevice

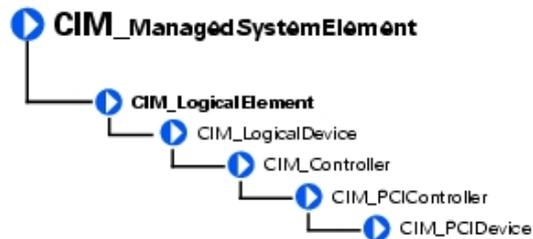


The **CIM_PCIDevice** class shown in Table below describes the capabilities and management of a PCI device controller on an adapter card.

Table 37. CIM_PCIDevice Properties

Class Name:	CIM_PCIDevice	
Parent Class:	CIM_PCIController	
Property	Description	Data Type
BaseAddress	Identifies an array of up to six double-word base memory addresses.	uint32
SubsystemID	Identifies a subsystem identifier code.	uint16
SubsystemVendorID	Identifies a subsystem vendor ID. ID information is reported from a PCI device via protocol-specific requests. This information is also present in the CIM_PhysicalElement class (the manufacturer property) for hardware, and the CIM_Product class (the vendor property) for information related to product acquisition.	uint16
ExpansionROMBaseAddress	Identifies a double-word expansion ROM base memory address.	uint32

CIM_PCIBridge

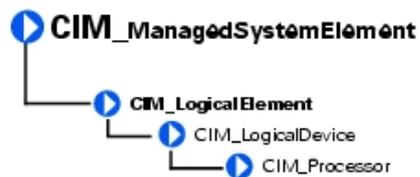


The **CIM_PCIBridge** class described in [PCIBridge Properties](#) describes the capabilities and management of a PCI controller providing bridge-to-bridge capability. An example is a PCI to Industry-Standard Architecture (ISA) bus bridge.

Table 38. CIM_PCIBridge Properties

Class Name:	CIM_PCIBridge	
Parent Class:	CIM_PCIController	
Property	Description	Data Type
BaseAddress	Identifies an array of double-word base memory addresses.	uint32
BridgeType	Indicates the type of bridge. A bridge is PCI to <value>, except for the Host, which is a host-to-PCI bridge. Values for the BridgeType property are as follows: 0 - Host 1 - ISA 128 - Other	uint16
BaseAddress	Identifies an array of double-word base memory addresses.	uint32

CIM_Processor



The **CIM_Processor** class described in Table below contains devices that interpret and execute commands, for example, the Intel Xeon microprocessor.

Table 39. CIM_Processor Properties

Class Name:	CIM_Processor	
Parent Class:	CIM_LogicalDevice	
Property	Description	Data Type
Role	A string describing the role of the microprocessor, for example, central microprocessor or math processor.	string
UpgradeMethod	Provides microprocessor socket information including data on how this microprocessor can be upgraded (if upgrades are supported). This property is an integer enumeration. Values for the UpgradeMethod property are as follows: 1 - Other 2 - Unknown 3 - Daughter board	uint16

- 4** - ZIF socket
- 5** - Replacement/piggy back
- 6** - None
- 7** - LIF socket
- 8** - Slot 1
- 9** - Slot 2
- 10** - 370-pin socket
- 19** - Socket mPGA604
- 20** - Socket LGA771
- 21** - Socket LGA775
- 22** - Socket S1
- 23** - Socket AM2
- 24** - Socket F (1207)
- 25** — Socket LGA1366

MaxClockSpeed	Indicates the maximum speed (in MHz) of this microprocessor.	uint32
Core count	Indicates the number of core processors detected.	uint16
CoreEnabledCount	Indicates the number of core processors enabled.	uint16
CurrentClockSpeed	Indicates the current speed (in MHz) of this microprocessor.	uint32
DataWidth	Indicates the processor data width in bits.	uint16
AddressWidth	Indicates the processor address width in bits.	uint16
Stepping	Indicates the revision level of the processor within the microprocessor family.	string
UniqueID	Identifies a globally unique identifier for the microprocessor. This identifier may only be unique within a microprocessor family.	string
Brand	Indicates the brand name of the processor.	string
Model	Indicates the model name of the processor.	string
ExtendedCharacteristics	Indicates the extended capabilities of the processor. This attribute is a bit field. The following are the definitions of a bit when set to one: Bit 0 — Virtualization Technology (VT) supported Bit 1 — Demand-Based Switching (DBS) supported	uint16

	<p>Bit 2 — eXecute Disable (XD) supported</p> <p>Bit 3 — Hyper Threading (HT) supported</p>	
ExtendedStates	<p>Indicates the setting of the extended capabilities of the processor. This attribute is a bit field. The following are the definitions of a bit when set to one:</p> <p>Bit 0 — Virtualization Technology (VT) enabled</p> <p>Bit 1 — Demand-Based Switching (DBS) enabled</p> <p>Bit 2 — eXecute Disable (XD) enabled</p> <p>Bit 3 — Hyper Threading (HT) enabled</p>	uint16
CPUStatus	<p>Indicates the current status of the microprocessor.</p> <p>For example, it may be disabled by the user through the BIOS or disabled due to a POST error. Values for the CPUStatus property are as follows:</p> <p>0 - Unknown</p> <p>1 - Microprocessor enabled</p> <p>2 - Microprocessor disabled by user through BIOS setup</p> <p>3 - Microprocessor disabled by BIOS (POST error)</p> <p>4 - Microprocessor is idle</p> <p>5 - Other</p>	uint16
Family	<p>Refers to the processor family type. Values for the Family property are as follows:</p> <p>1 - Other</p> <p>2 - Unknown</p> <p>3 - 8086</p> <p>4 - 80286</p> <p>5 - 80386</p> <p>6 - 80486</p> <p>7 - 8087</p> <p>8 - 80287</p> <p>9 - 80387</p> <p>10 - 80487</p> <p>11 - Pentium Brand</p> <p>12 - Pentium Pro</p> <p>13 - Pentium II</p> <p>14 - Pentium processor with MMX technology</p> <p>15 - Celeron</p> <p>16 - Pentium II Xeon</p>	uint16

17 - Pentium III
18 - M1 family
19 - M2 family
24 — AMD Duron processor
25 — K5 family
26 - K6 family
27 - K6 -2
28 - K6-3
29 - AMD Athlon processor family
30 - AMD29000 family
31 - K6-2+
32 - Power PC family
33 - Power PC 601
34 - Power PC 603
35 - Power PC 603+
36 - Power PC 604
37 - Power PC 620
38- Power PC X704
39- Power PC 750
40 - Intel Core Duo processor
41 - Intel Core Duo mobile processor
42 - Intel Core Solo mobile processor
43 - Intel Atom processor
48 - Alpha family
49 - Alpha 21064
50 - Alpha 21066
51 - Alpha 21164
52 - Alpha 21164
53 - Alpha 21164a
54 - Alpha 21264
55 - Alpha 21364
60 - AMD Opteron 4100 Series processor
64 - MIPS family
65 - MIPS R4000
66 - MIPS R4200
67 - MIPS R4400
68 - MIPS R4600
69 - MIPS R10000
80 - SPARC family
81 - SuperSPARC
82 - microSPARC II
83 - microSPARC IIep
84 - UltraSPARC
85 - UltraSPARC II
86 - UltraSPARC Ili

87 - UltraSPARC III
88 - UltraSPARC IIIi
96 - 68040
97 - 68xxx family
98 - 68000
99 - 68010
100 - 68020
101 - 68030
112 - Hobbit family
120 - Crusoe 5000 family
121 - Crusoe 3000 family
122 - Efficeon 8000 family
128 - Weitek
130 - Itanium processor
131 - AMD Athlon 64 processor family
132 - AMD Opteron processor family
133 - AMD Sempron processor family
134 - AMD Turion 64 Mobile technology
135 - Dual-Core AMD Opteron processor family
136 - AMD Athlon 64 X2 Dual-Core processor family
137 - AMD Turion 64 X2 Mobile technology
138 - Quad-Core AMD Opteron processor family
139 - Third-Generation AMD Opteron processor family
140 - AMD Phenom FX Quad-Core processor family
141 - AMD Phenom X4 Quad-Core processor family
142 - AMD Phenom X2 Dual-Core processor family
143 - AMD Athlon X2 Dual-Core processor family
144 - PA-RISC family
145 - PA-RISC 8500
146 - PA-RISC 8000
147 - PA-RISC 7300LC
148 - PA-RISC 7200
149 - PA-RISC 7100LC
150 - PA-RISC 7100
160 - V30 family
161 - Quad-Core Intel Xeon processor 3200 Series
162 - Dual-Core Intel Xeon processor 3000 Series

163 - Quad-Core Intel Xeon processor
5300 Series

164 - Dual-Core Intel Xeon processor
5100 Series

165 - Dual-Core Intel Xeon processor
5000 Series

166 - Dual-Core Intel Xeon processor
LV

167 - Dual-Core Intel Xeon processor
ULV

168 - Dual-Core Intel Xeon processor
7100 Series

169 - Quad-Core Intel Xeon processor
5400 Series

170 - Quad-Core Intel Xeon processor

171 - Dual-Core Intel Xeon processor
5200 Series

172 - Dual-Core Intel Xeon processor
7200 Series

173 - Quad-Core Intel Xeon processor
7300 Series

174 - Quad-Core Intel Xeon processor
7400 Series

175 - Multi-Core Intel Xeon processor
7400 Series

176 - Pentium III Xeon

177 - Pentium III Processor with Intel
SpeedStep

178 - Technology

179 - Pentium 4

180 - Intel Xeon

181 - AS400 family

182 - Intel Xeon Processor MP

183 - AMD Athlon XP family

184 - AMD Athlon MP family

185 - Intel Itanium 2

186 - Intel Pentium M processor

187 - Intel Celeron D processor

188 - Intel Pentium D processor

189 - Intel Pentium Extreme Edition
processor

190 - Intel Core 2 processor

192 - Intel Core 2 Solo processor

193 - Intel Core 2 Extreme processor

194 - Intel Core 2 Quad processor

195 - Intel Core 2 Extreme mobile
processor

196 - Intel Core 2 Duo mobile
processor

197- Intel Core 2 Solo mobile processor
198 - Intel Core i7 processor
199 - Dual-Core Intel Celeron processor
200 - S/390 and zSeries family
201- ESA/390 G4
202- ESA/390 G5
203- ESA/390 G6
204 - z/Architecture base
206 - CEh 206 Intel Core i3 processor
214 - Multi-Core Intel Xeon processor
215 - Dual-Core Intel Xeon processor 3xxx Series
216 - Quad-Core Intel Xeon processor 3xxx Series
217 - D9h 217 VIA Nano processor family
218 - Dual-Core Intel Xeon processor 5xxx Series
219 - Quad-Core Intel Xeon processor 5xxx Series
221 - Dual-Core Intel Xeon processor 7xxx Series
222- Dual-Core Intel Xeon processor 7xxx Series
223 Multi-Core Intel Xeon processor 7xxx Series
224 - E0h 224 Multi-Core Intel Xeon processor 3400 Series
230 - Embedded AMD Opteron Quad-Core processor family
231 - AMD Phenom Triple-Core processor family
232 - AMD Turion Ultra Dual-Core Mobile processor family
233 - AMD Turion Dual-Core Mobile processor family
234 - AMD Turion Dual-Core Mobile processor family
235- AMD Sempron SI processor family
238 - AMD Opteron Six-Core processor family
250 - i860
251 - i960
260 - SH-3
261 - SH-4
280 - ARM
281 - StrongARM

- 300 - 6x86
- 301 - MediaGX
- 302 - MII
- 320 - WinChip
- 350- DSP
- 500 - Video processor

CIM_StorageExtent

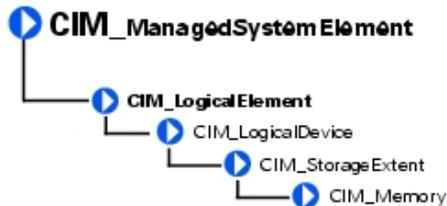


The **CIM_StorageExtent** identified in Table below contains devices that manage data storage, for example, hard drives or microprocessor memory.

Table 40. CIM_StorageExtent Properties

Class Name:	CIM_StorageExtent
Parent Class:	CIM_LogicalDevice

CIM_Memory

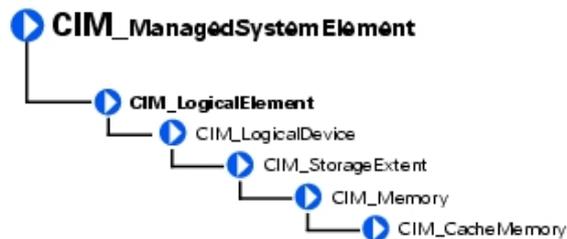


The **CIM_Memory** class identified in Table below describes the capabilities and management of storage extent devices, for example, cache memory or system memory.

Table 41. CIM_Memory Properties

Class Name:	CIM_Memory
Parent Class:	CIM_StorageExtent

CIM_CacheMemory



The **CIM_CacheMemory** class described in [CacheMemoryProperties](#) describes the capabilities and management of cache memory. Cache memory allows a microprocessor to access data and instructions faster than normal system memory

Table 42. CIM_CacheMemory Properties

Class Name:	CIM_CacheMemory	
Parent Class:	CIM_Memory	
Property	Description	Data Type
Level	Defines if this is the primary, secondary, or tertiary cache. Values for the Level property are as follows: <ol style="list-style-type: none"> 1- Other 2- Unknown 3- Primary 4 - Secondary 5- Tertiary 6- Not applicable 	uint16
WritePolicy	Defines if this cache is a write-back or write-through cache or if this information varies with address or is defined individually for each input/output (I/O). Values for the WritePolicy property are as follows: <ol style="list-style-type: none"> 1- Other 2- Unknown 3- Write-back 4 - Write-through 5- Varies with address 6- Determination per I/O 	uint16
CacheType	Defines if this cache is for instruction caching, data caching, or both (unified). Values for the CacheType property are as follows: <ol style="list-style-type: none"> 1- Other 2- Unknown 	uint16

	<ul style="list-style-type: none"> 3- Instruction 4- Data 5- Unified 	
LineSize	Indicates the size, in bytes, of a single cache bucket or line.	uint32
ReadPolicy	<p>Defines the policy used by the cache for handling read requests. Values for the ReadPolicy property are as follows:</p> <ul style="list-style-type: none"> 1- Other 2- Unknown 3- Read 4- Read-ahead 5- Read and read-ahead 6- Determination per I/O 	uint16

DELL_SoftwareFeature



The **DELL_SoftwareFeature** described in Table below defines the universal resource locator (URL) of the systems management software and the language in which systems management information displays. Defining these properties enables users to manage a system using an Internet browser. You can access Server Administrator using the secure hypertext transfer protocol (https) and a preassigned port number of 1311, or you can specify a port number of your own choice.

Table 43. DELL_SoftwareFeature Properties

Class Name:	DELL_SoftwareFeature	
Parent Class:	CIM_SoftwareFeature	
Property	Description	Data Type
OmsaURL	Defines the URL for Server Administrator.	string
Language	Sets the language for systems management information.	string
AgentVersion	Defines the version information of local CIM agent (same as ISVC version.)	string

CIM_BIOSElement



The **CIM_BIOSElement** class listed in [BIOSElement Properties](#) describes the BIOS for the system. 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.

Table 44. CIM_BIOSElement Properties

Class Name:	CIM_BIOSElement	
Parent Class:	CIM_SoftwareElement	
Property	Description	Data Type
Version	Provides the product version information.	string
Manufacturer	See Common Properties of Classes	string
PrimaryBIOS	Specifies whether a given BIOS is the primary BIOS for the system. When the value = TRUE, the BIOS is the primary BIOS.	Boolean

CIM_SoftwareFeature



The **CIM_SoftwareFeature** class described in Table properties below defines a particular function or capability of a product or application system. This class is intended to be meaningful to a consumer, or user of a product, rather than to explain how the product is built or packaged. When a software feature can exist on multiple platforms or operating systems (for example, a client component of a three-tiered client/server application might run on Windows Server 2003), a software feature is a collection of all the software elements for these different platforms. The users of the model must be aware of this situation because typically they are interested in a sub-collection of the software elements required for a particular platform.

Table 45. CIM_SoftwareFeature Properties

Class Name:	CIM_SoftwareFeature	
Parent Class:	CIM_LogicalElement	
Property	Description	Data Type
IdentifyingNumber	Provides product identification such as a serial number of the software	string
ProductName	Identifies the commonly used product name.	string
Vendor	Identifies the name of the product's supplier. Corresponds to the vendor property in the product object in the DMTF solution exchange standard.	string
Version	Identifies the product version information. Corresponds to the version property in the product object in the DMTF solution exchange standard.	string
Name	Defines the label by which the object is known to the users. This label is a user-defined name that uniquely identifies the element.	string

DELL_SoftwareFeature



The **DELL_SoftwareFeature** described in Table below defines the universal resource locator (URL) of the systems management software and the language in which systems management information displays. Defining these properties enables users to manage a system using an Internet browser. You can access Server Administrator using the secure hypertext transfer protocol (https) and a preassigned port number of 1311, or you can specify a port number of your own choice.

Table 46. DELL_SoftwareFeature Properties

Class Name:	DELL_SoftwareFeature	
Parent Class:	CIM_SoftwareFeature	
Property	Description	Data Type
OmsaURL	Defines the URL for Server Administrator.	string
Language	Sets the language for systems management information.	string

Class Name:	DELL_SoftwareFeature	
Parent Class:	CIM_SoftwareFeature	
Property	Description	Data Type
AgentVersion	Defines the version information of local CIM agent (same as ISVC version.)	string

CIM_SystemResource

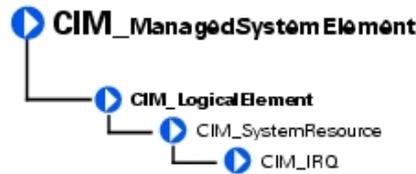


The **CIM_SystemResource** class described in Table below provides access to system resources from an operating system. System resources consist of interrupt requests (IRQs) and direct memory access (DMA) capabilities.

Table 47. CIM_SystemResource Properties

Class Name:	CIM_SystemResource
Parent Class:	CIM_LogicalElement

CIM_IRQ



The **CIM_IRQ** class described in Properties Table below , contains IRQ information. An IRQ is a signal that data is about to be sent to or received by a peripheral device. The signal travels by an IRQ line to the microprocessor. Each peripheral connection must be assigned an IRQ number. For example, the first serial port in the computer (COM1) is assigned to IRQ4 by default.

Table 48. CIM_IRQ Properties

Class Name:	CIM_IRQ
Parent Class:	CIM_SystemResource

Property	Description	Data Type
CSCreationClassName	See Common Properties of Classes	string
CSName	See Common Properties of Classes	string
CreationClassName	See Common Properties of Classes	string
IRQNumber	Identifies the interrupt request number.	uint32

Availability	<p>Indicates the availability of the IRQ. Values for the Availability property are as follows:</p> <ul style="list-style-type: none"> 1- Other 2- Unknown 3- Available 4 - In use/not available 5- In use and available 	uint16
TriggerLevel	<p>Indicates if the interrupt is triggered by the hardware signal going high or low. Values for the TriggerLevel property are as follows:</p> <ul style="list-style-type: none"> 1- Other 2- Unknown 3- Active low 4- Active high 	uint16
TriggerType	<p>Indicates if edge (value=4) or level triggered (value=3) interrupts occur.</p> <ul style="list-style-type: none"> 1- Other 2- Unknown 3- Level 4- Edge 	uint16
Shareable	<p>Indicates if the IRQ can be shared. A value of TRUE indicates that the IRQ can be shared.</p>	Boolean
Hardware	<p>Indicates if the interrupt is hardware- or software-based. (A value of TRUE indicates that the interrupt is hardware based.) On a personal computer, a hardware IRQ is a physical wire to a programmable interrupt controller (PIC) chip set through which the microprocessor can be notified of time critical events. Some IRQ lines are reserved for standard devices such as the keyboard, diskette drive, and the system clock. A software interrupt is a programmatic mechanism to allow an application to get the attention of the processor.</p>	Boolean

CIM_MemoryMappedIO

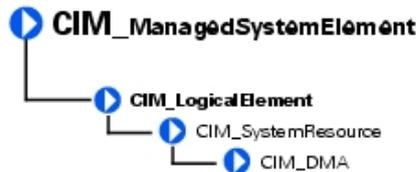


The **CIM_MemoryMappedIO** class described in properties Table below addresses both memory and port I/O resources for personal computer architecture memory mapped I/O.

Table 49. CIM_MemoryMappedIO Properties

Class Name:	CIM_MemoryMappedIO	
Parent Class:	CIM_SystemResource	
Property	Description	Data Type
CSCreationClassName	See Common Properties of Classes	string
CSName	See Common Properties of Classes	string
CreationClassName	See Common Properties of Classes	string
StartingAddress	Identifies the starting address of memory mapped I/O.	uint64
EndingAddress	Identifies the ending address of memory mapped I/O.	uint64
MappedResource	Indicates the type of memory mapped I/O. MappedResource defines if memory or I/O is mapped, and for I/O, if the mapping is to a memory or a port space. Memory mapped I/O values are as follows: 1- Other 2- Mapped memory 3 - I/O mapped to memory space 4- I/O mapped to port space	uint16

CIM_DMA



The **CIM_DMA** class described in [DMA Properties](#) contains DMA information. A DMA channel allows certain types of data transfer between RAM and a device to bypass the microprocessor.

Table 50. CIM_DMA Properties

Class Name:	CIM_DMA	
Parent Class:	CIM_SystemResource	
Property	Description	Data Type
CSCreationClassName	See Common Properties of Classes	string
CSName.	See Common Properties of Classes	string
CreationClassName	See Common Properties of Classes	string
DMACHannel	A part of the object's key value, the DMA channel number.	uint32
Availability	Availability of the DMA. Availability values are defined as follows: <ul style="list-style-type: none"> • 1 - Other • 2 - Unknown • 3 - Available • 4 - In Use/Not Available • 5 - In Use and Available/Shareable 	uint16

CIM_RedundancyGroup



The **CIM_RedundancyGroup** class described in Table properties below is a set of components that provide more instances of a critical component than are required for the system's operation. The extra components are used in case of critical component failure. For example, multiple power supplies allow a working power supply to take over when another power supply has failed.

Table 51. CIM_RedundancyGroup Properties

Class Name:	CIM_RedundancyGroup	
Parent Class:	CIM_LogicalElement	
Property	Description	Data Type
CreationClassName	See Common Properties of Classes	string
Name	Serves as the key for the redundancy group's instance in an enterprise environment.	string
RedundancyStatus	Provides information on the state of the redundancy group. Values for the RedundancyStatus property are as follows:	uint16

- 0- Unknown
- 1- Other
- 2- Fully redundant. Fully redundant - all of the configured redundancy is still available.
- 3 - Degraded redundancy. Degraded redundancy - that some failures have been experienced but some reduced amount of redundancy is still available.
- 4 - Redundancy lost. Redundancy lost - that a sufficient number of failures have occurred so that no redundancy is available and the next failure experienced causes overall failure.

CIM_ExtraCapacityGroup

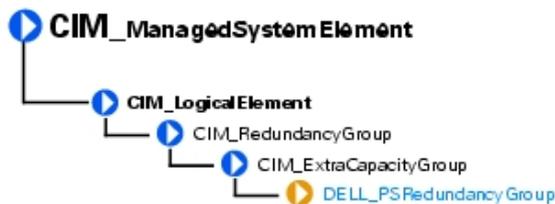


The **CIM_ExtraCapacityGroup** class described in below properties Table applies to systems that have more capability and components than are required for normal operation, for example, systems that have extra fans or power supplies.

Table 52. CIM_ExtraCapacityGroup Properties

Class Name:	CIM_ExtraCapacityGroup	
Parent Class:	CIM_RedundancyGroup	
Property	Description	Data Type
MinNumberNeeded	Specifies the smallest number of elements that must be operational in order to have redundancy. For example, in an N+1 redundancy relationship, the MinNumberNeeded property should be set to N.	uint32

DELL_PSRedundancyGroup

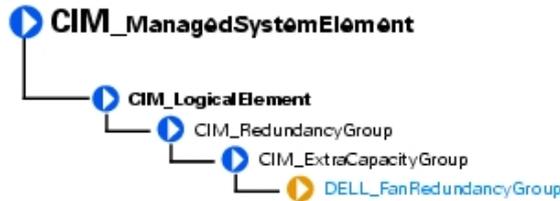


The **DELL_PSRedundancyGroup** described in Table below is a Dell-specific extension of the **CIM_ExtraCapacityGroup** class. The **DELL_PSRedundancyGroup** class defines what constitutes power supply redundancy in a system.

Table 53. DELL_PSRedundancyGroup Properties

Class Name:	DELL_PSRedundancyGroup
Parent Class:	CIM_ExtraCapacityGroup

DELL_FanRedundancyGroup



The **DELL_FanRedundancyGroup** described in Table below defines what constitutes fan redundancy in a system.

Table 54. DELL_FanRedundancyGroup Properties

Class Name:	DELL_FanRedundancyGroup
Parent Class:	CIM_ExtraCapacityGroup

CIM_EnabledLogicalElement



The **CIM_EnabledLogicalElement** class described in Table below extends the **CIM_LogicalElement** class to abstract the concept of an element that is enabled or disabled, such as a **LogicalDevice** or **ServiceAccessPoint**.

Table 55. CIM_EnabledLogicalElement Properties

Class Name:	CIM_EnabledLogicalElementGroup
Parent Class:	CIM_LogicalElementGroup

CIM_ServiceAccessPoint

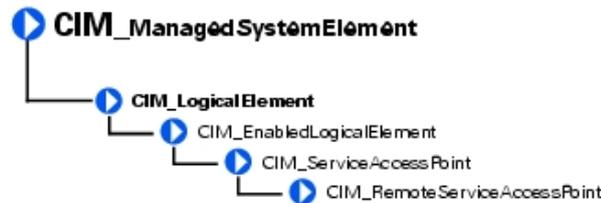


The **CIM_ServiceAccessPoint** class described in Table below represents the ability to utilize or invoke a service. Access points indicate that a service is available to other entities for use.

Table 56. CIM_ServiceAccessPoint Properties

Class Name:	CIM_ServiceAccessPoint
Parent Class:	CIM_EnabledLogicalElement

CIM_RemoteServiceAccessPoint



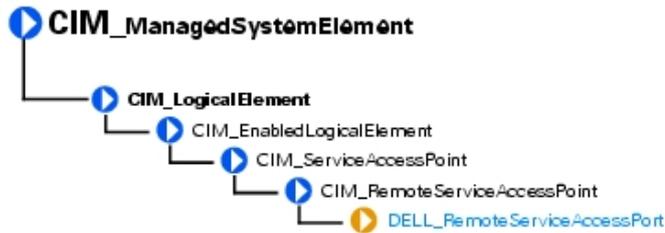
The **CIM_RemoteServiceAccessPoint** class identified in Table below describes the accessing and addressing of information for a remote connection that is known to a *local* network element. This information is contained in the *local* network element since this is the context in which it is *remote*. The relevance of the remote service access point and information on its use are described by subclassing or associating to the **CIM_RemoteServiceAccessPoint** class.

Table 57. CIM_RemoteServiceAccessPoint Properties

Class Name:	CIM_RemoteServiceAccessPointGroup	
Parent Class:	CIM_ServiceAccessPointGroup	
Property	Description	Data Type
AccessInfo	Describes accessing or addressing of information for a remote connection. This can be a host name, network address, and other similar information.	string
InfoFormat	Indicates an enumerated integer describing the format and interpretation of the AccessInfo property. This property can have the following values: 1 - Other 2 - Host Name 3 - IPv4 Address 4 - IPv6 Address 5 - IPX Address 6 - DECnet Address 7 - SNA Address 8 - Autonomous System Number 9 - MPLS Label 10..99 - DMTF Reserved	uint16

Class Name:	CIM_RemoteServiceAccessPointGroup	
Parent Class:	CIM_ServiceAccessPointGroup	
Property	Description	Data Type
	100 - Dial String	
	101 - Ethernet Address	
	102 - Token Ring Address	
	103 - ATM Address	
	104 - Frame Relay Address	
	105..199 - DMTF Reserved	
	200 - URL	
	32768..65535 - Vendor Specific	

DELL_RemoteServiceAccessPort



The **DELL_RemoteServiceAccessPort** class described in Table below is an extended class of the **CIM_RemoteServiceAccessPoint** class. The **DELL_RemoteServiceAccessPort** class provides information about Dell implementation-specific attributes

Table 58. DELL_RemoteServiceAccessPort Properties

Class Name:	DELL_RemoteServiceAccessPort	
Parent Class:	CIM_RemoteServiceAccessPoint	
Property	Description	Data Type
PortName	Displays the name of the service access port.	string
VersionString	Indicates the version of the access point service.	string
RemoteAccessType	Indicated the type of remote access service. This property can have the following values: 0- BMC 8- IMC 9 - CMC	uint16

10- iDRAC6

11 - iDRAC6 for modular systems

13 - BMC

16 - iDRAC7

17 - iDRAC7 for modular systems

Dell-Defined Classes

Dell-defined classes are defined and populated by Dell rather than by the Common Information Model (CIM). For information on how the logs are formatted, see [DELL_Chassis Properties](#).

▶ CIM_ManagedSystemElement

▶ DELL_EsmLog

The `DELL_EsmLog` class described in [DELL_EsmLog Properties](#) records failure threshold violations collected by Server Administrator's embedded server management (ESM) capabilities.

Table 59. DELL_EsmLog Properties

Class Name: `DELL_EsmLog`

Parent Class: `None`

Property	Description	Data Type
<code>recordNumber</code>	Provides an index to the ESM table.	<code>uint32</code>
<code>logRecord</code>	Provides the ESM message content.	<code>string</code>
<code>eventTime</code>	Indicates the time that the message is generated.	<code>datetime</code>
<code>status</code>	Indicates the severity of the event that caused the log to be generated.	<code>string</code>

DELL_PostLog

▶ CIM_ManagedSystemElement

▶ DELL_PostLog

The `DELL_PostLog` class described in [DELL_PostLog Properties](#) is a record of the system's power-on self-test (POST). When you turn on a system, the POST tests various system components, such as random-access memory (RAM), the hard drives, and the keyboard.

Table 60. DELL_PostLog Properties

Class Name: `DELL_PostLog`

Parent Class: `None`

DELL_CMApplication

 **NOTE:** Dell-updateable components, such as BIOS and firmware, are considered applications.

▶ CIM_ManagedSystemElement

▶ DELL_CMAApplication

The `DELL_CMAApplication` class described in [DELL_CMAApplication](#) contains information related to the Dell change management applications.

Table 61. DELL_CMAApplication

Class Name: `DELL_CMAApplication`

Parent Class: `None`

Property	Description	Data Type
<code>componentType</code>	Defines the application type.	string
<code>subComponentID</code>	Defines an application string.	string
<code>version</code>	Indicates the current version of the application.	string
<code>name</code>	Indicates the name of the application.	string
<code>deviceKey</code>	Indicates the device key of the application.	string

DELL_CMDevice

▶ CIM_ManagedSystemElement

▶ DELL_CMDevice

The `DELL_CMDevice` class described in [DELL_CMDevice Properties](#) contains information related to the Dell change management device.

Table 62. DELL_CMDevice Properties

Class Name: `DELL_CMDevice`

Parent Class: `None`

Property	Description	Data Type
<code>componentID</code>	Defines a component string.	string
<code>name</code>	Indicates the name of the device.	string
<code>vendorID</code>	Defines an ID for vendor supplying the device.	string
<code>subVendorID</code>	Defines an ID for an additional vendor supplying the device.	string
<code>deviceID</code>	Indicates the ID of the device.	string

subDeviceID	Indicates the ID for additional device.	string
bus	Indicates the PCI bus number.	string
device	Indicates the PCI device number.	string
function	Indicates the PCI function number.	string

DELL_CMDeviceApplication

 [CIM_ManagedSystemElement](#)

 [DELL_CMDeviceApplications](#)

The `DELL_CMDeviceApplication` class described in [CMDeviceApplication Properties](#) contains information related to the Dell change management association between the device and application.

Table 63. DELL_CMDeviceApplication Properties

Class Name: `DELL_CMDeviceApplication`

Parent Class: None

Property	Description	Data Type
antecedent	Refers to the device.	string
dependent	Refers to the application.	string

DELL_CMInventory

 [CIM_ManagedSystemElement](#)

 [DELL_CMInventory](#)

The `DELL_CMInventory` class described in [DELL_CMInventory Properties](#) contains information related to the Dell Change Management inventory.

Table 64. DELL_CMInventory Properties

Class Name: `DELL_CMInventory`

Parent Class: None

Property	Description	Data Type
local	Indicates the locale of the system.	string
schemaVersion	Indicates the inventory schema implemented by the system.	string
systemID	Defines the system ID.	string

DELL_CMOS



The `DELL_CMOS` class described in [DELL_CMOS Properties](#) contains information related to the Dell change management operating system.

Table 65. DELL_CMOS Properties

Class Name: `DELL_CMOS`

Parent Class: `None`

Property	Description	Data Type
<code>architecture</code>	Indicates the architecture of the operating system.	string
<code>vendor</code>	Indicates the vendor of the operating system.	string
<code>majorVersion</code>	Indicates the major version of the operating system.	string
<code>minorVersion</code>	Indicates the minor version of the operating system.	string
<code>spMajorVersion</code>	Indicates the current service pack number for the operating system's major version.	string
<code>spMinorVersion</code>	Indicates the current service pack number for the operating system's minor version.	string

DELL_CMProductInfo



The `DELL_CMProductInfo` class described in [DELL_CMProductInfo Properties](#) contains information related to the Dell change management product.

Table 66. DELL_CMProductInfo Properties

Class Name: `DELL_CMProductInfo`

Parent Class: `None`

Property	Description	Data Type
<code>name</code>	Indicates the name of the product.	string

description	Provides a short description of the product.	string
vendor	Indicates the name of the product manufacturer.	string
version	Indicates the current version number of the product.	string

DELL_BIOSExtensions

The DELL_BIOSExtensions identified in [DELL_BIOSExtensions Properties](#) contains information related to the specific extension of the data attributes on your system.

Table 67. DELL_BIOSExtensions Properties

Class Name:	DELL_BIOSExtensions	
Parent Class:	CIM_ManagedSystemElement	
Property	Description	Data Type
systemBIOSCharacteristics	Indicates the characteristics of BIOS on your system.	uint64
systemBIOSCharacteristicsExt1	Indicates the specific extension of the data attributes on your system.	uint8
systemBIOSCharacteristicsExt2	Indicates the specific extension of the data attributes on your system.	uint8

DELL_BIOSSettings

The DELL_BIOSSettings identified in [DELL_BIOSSettings Properties](#) contains information related to setting parameters in the Dell System Management BIOS.

Table 68. DELL_BIOSSettings Properties

Class Name:	DELL_BIOSSettings	
Parent Class:	CIM_ManagedSystemElement	
Property	Description	Data Type
DellInstanceID	Defines the instance ID of this class.	uint32
TrustedPlatformModule	Enables or Disables the Trusted Platform Module (TPM). Values for the TPM property are: 0 - Other 1 - Unsupported 2 - Off 3 - On with BIOS Management 4 - On without BIOS Measurement	uint8

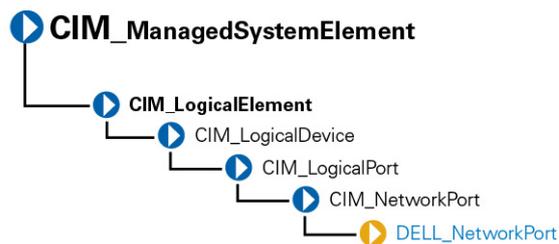
DELL_SDCardDevice

The **DELL_SDCard** Devices identified in [DELL_SDCardDevice Properties](#) contains information related to the SD card devices.

Table 69. DELL_SDCardDevice Properties

Class Name:	DELL_SDCardDevice	
Parent Class:	CIM_LogicalDevice	
Property	Description	Data Type
sdType	An enumerated storage device type. The values for this property are: 1 - Other 2 - Unknown 3 - Hypervisor SD 4 - Virtual Flash SD	uint8
sdCertified	Indicates the licensing information of SD media. The values for this property are: 0 - Unknown 1 - Unlicensed 2 - Licensed	uint8
sdCardSizeMB	Indicates the size of the storage device in MB.	uint32
sdCardFreeSizeMB	Indicates the available size of SD Media in MB.	uint32
sdCardState	Indicates the value of the SD Card. The values for this property are: 0 - Present 1 and 2 - Reserved 3 - Offline Detected 4 - Failed Detectez 5 - Active 6 - Bootable 7 - Write Protected	

DELL_NetworkPort



The **Dell_Network Port** class described in [DELL_NetworkPort Properties](#) represents the Dell-specific features of the network adapters.

Table 70. DELL_NetworkPort Properties

Class Name:	DELL_NetworkPort	
Parent Class:	CIM_Network Port	
Property	Description	Data Type
NIC Capabilities	<p>NIC Capabilities bitmask indicates the capabilities of the NIC.</p> <p>The bitmask for the NIC Capability property are:</p> <p>Bit 0, Value 0 - Reporting NIC capabilities through this attribute is not supported.</p> <p>Bit 0, Value 1 - Reporting NIC capabilities through this attribute is supported.</p> <p>Bit 1, Value 0 - NIC is not TOE capable.</p> <p>Bit 1, Value 1 - NIC is TOE capable.</p> <p>Bit 2, Value 0 - NIC is not iSCSI capable.</p> <p>Bit 2, Value 1 - NIC is iSCSI capable.</p> <p>Bit 3, Value 0 - NIC is not FCoE capable.</p> <p>Bit 3, Value 1 - NIC is FCoE capable.</p>	uint 32
NIC TOE Capability	<p>Defines the TOE capability of the NIC.</p> <p>Values for the NIC TOE Capability property are:</p> <p>0 - NIC/driver does not support querying for capability.</p> <p>1 - NIC/driver supports querying for capability but query returned an error.</p> <p>2 - NIC/driver supports querying for capability and querying indicates that it is capable.</p> <p>4 - NIC/driver supports querying for capability and querying indicates that it is not capable.</p> <p>8 - NIC/driver supports querying for capability but an error prevented querying the NIC/driver.</p> <p>16 - NIC/driver supports querying for capability but NIC/driver did not respond to query.</p> <p> NOTE: Boolean value is defined if TOE is enabled (Boolean is TOEEnable).</p>	uint 32
NIC RDMA Capability	Defines the RDMA capability of the NIC.	uint 32

Values for the NIC RDMA Capability property are:

- 0 - NIC/driver does not support querying for capability.
- 1 - NIC/driver supports querying for capability but query returned an error.
- 2 - NIC/driver supports querying for capability and querying indicates that it is capable.
- 4 - NIC/driver supports querying for capability and querying indicates that it is not capable.
- 8 - NIC/driver supports querying for capability but an error prevented querying the NIC/driver.
- 16 - NIC/driver supports querying for capability but NIC/driver did not respond to query.

 **NOTE:** Boolean value is defined if RDMA is enabled (Boolean is RDMAEnable).

NIC iSCSI Capability

Defines the iSCSI capability of the NIC. uint 32

Values for the NIC iSCSI Capability property are:

- 0 - NIC/driver does not support querying for capability.
- 1 - NIC/driver supports querying for capability but query returned an error.
- 2 - NIC/driver supports querying for capability and querying indicates that it is capable.
- 4 - NIC/driver supports querying for capability and querying indicates that it is not capable.
- 8 - NIC/driver supports querying for capability but an error prevented querying the NIC/driver.
- 16 - NIC/driver supports querying for capability but NIC/driver did not respond to query.

 **NOTE:** Boolean value is defined if iSCSI is enabled (Boolean is iSCSIEnable).

NIC Status

Indicates the status of the NIC or driver. uint 32

The values for the NIC Status property are:

- 0 - Unknown
- 1 - Connected
- 2 - Disconnected

	3 - Driver is bad	
	4 - Driver is disabled	
	10 - Hardware is initializing	
	12 - Hardware is closing	
	13 - Hardware is not ready	
BusNumber	Indicates the PCI bus number.	uint 8
DeviceNumber	Indicates the PCI device number.	uint 8
FunctionNumber	Indicates the PCI function number.	uint 8
DriverVersion	Indicates the NIC driver version.	string
IPAddress	Indicates the NIC IP address.	string
SubnetMask	Indicates the NIC subnet mask.	string
DHCPServer	Indicates the DHCP server.	string
DefaultGateway	Indicates the default gateway.	string
CurrentMacAddress	Indicates the NIC's current MAC address.	string
OSAdapterDescription	Describes the operating system adapter.	string
OSProductName	Describes the product name of the operating system.	string
ServiceName	Indicates the service name.	string

DELL_PowerConsumptionAmpsSensor

The DELL_PowerConsumptionAmpsSensor identified in [DELL_PowerConsumptionAmpsSensor](#) contains information related to monitoring the power consumption.

Table 71. DELL_PowerConsumptionAmpsSensor

Class Name:	DELL_PowerConsumptionAmpsSensor	
Parent Class:	CIM_Numeric Sensor	
Property	Description	Data Type
UnitModifier	See Common Properties of Classes	sint32
CurrentReading	See Common Properties of Classes	sint32
IsLinear	See Common Properties of Classes	Boolean
LowerThresholdNonCritical	See Common Properties of Classes	sint32
UpperThresholdNonCritical	See Common Properties of Classes	sint32
LowerThresholdCritical	See Common Properties of Classes	sint32
UpperThresholdCritical	See Common Properties of Classes	sint32

DELL_PowerConsumptionWattsSensor

The **DELL_PowerConsumptionWattsSensor** identified in [DELL_PowerConsumptionWattsSensor](#) contains information related to monitoring the power consumption.

Table 72. DELL_PowerConsumptionWattsSensor

Class Name:	DELL_PowerConsumptionWattsSensor	
Parent Class:	CIM_Numeric Sensor	
Property	Description	Data Type
UnitModifier	See Common Properties of Classes	sint32
CurrentReading	See Common Properties of Classes	sint32
IsLinear	See Common Properties of Classes	Boolean
LowerThresholdNonCritical	See Common Properties of Classes	sint32
UpperThresholdNonCritical	See Common Properties of Classes	sint32
LowerThresholdCritical	See Common Properties of Classes	sint32
UpperThresholdCritical	See Common Properties of Classes	sint32

DELL_PowerConsumptionData

The **DELL_PowerConsumptionData** identified in [DELL_PowerConsumptionData](#) contains information about the total power consumed from a start time and peak values registered during a time period.

Table 73. DELL_PowerConsumptionData

Class Name:	DELL_PowerConsumptionData	
Parent Class:	CIM_Logical Device	
Property	Description	Data Type
cumulative PowerReading	Indicates the total power consumed from a start time.	uint 32
peakAmpReading	Indicates the time from which the peak amperage reading is being monitored.	uint 16
peakWattReading	Indicates the time from which the peak watt reading is being monitored.	uint 16
ResetCounters	Is the function used to reset the peak readings.	uint 32
powerCapSetting	This refers to the user configured power setting.	uint 16
instHeadroom	This refers to the instantaneous headroom.	uint 32

Class Name:	DELL_PowerConsumptionData	
Parent Class:	CIM_Logical Device	
peakHeadRoom	Is the function used to set the power budget.	uint 32

DCIM_OEM_DataAccessModule

The `DCIM_OEM_DataAccessModule` class is derived from the `CIM_ManagedElement` class. This class models hardware information in a proprietary format.



Class Name:	DCIM_OEM_DataAccessModule	
Parent Class:	CIM_ManagedElement	
Property	Description	Data Type
InstanceID	Identifies the instance.	string
GlobalStatus	<p>Represents the global health status of the system. This property can have the following values:</p> <ul style="list-style-type: none"> 0 - Other 1 - Unknown 2 - OK 3 - Warning / Non-Critical 4 - Critical 5 - Non-Recoverable .. - Reserved <p> NOTE: GlobalStatus property is available only for Linux systems.</p>	sint32
SendCmd	The SendCmd method is used to invoke proprietary hardware management operation.	string
iDRACIPv4	Provides Remote Access controller (iDRAC) IPv4 address.	string
iDRACIPv6	Provides Remote Access controller (iDRAC) IPv6 address.	string

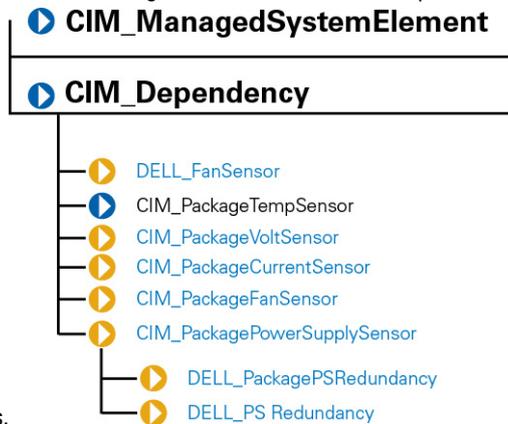
DCIM_RegisteredProfile



The `DCIM_RegisteredProfile` class is derived from the `CIM_RegisteredProfile` class. This class advertises the capabilities of `DCIM_OEM_DataAccessModule`.

CIM_Dependency

The CIM_Dependency class is an association used to establish dependency relationships between two managed system elements. The CIM_Dependency class described in the figure below does not have a parent class because it is a



relationship or association between two elements.

Each class derived from the CIM_Dependency class has an element called an antecedent that represents the independent object in this association, and another element called a dependent that represents the object that is dependent on the antecedent. For example, consider two managed system elements: Chassis1 and PowerSupply3. Chassis1 is the antecedent element because a managed power supply would always be either contained in, or grouped with, a chassis.

DELL_FanSensor



The DELL_FanSensor class described in [DELL_FanSensor Properties](#) defines a Dell-specific association between a fan and a sensor. The CIM_PackageFanSensor class contains fans that assist in cooling the entire package as opposed to a fan dedicated to cooling only some of the components in the package.

Table 74. DELL_FanSensor Properties

Class Name: DELL_FanSensor

Parent Class: CIM_Dependency

Element	Description
Antecedent	CIM_Tachometer refers to the tachometer (fan sensor) that measures the RPM of the fan.
Dependent	CIM_Fan refers to the fan whose revolutions are measured by the tachometer.

CIM_PackageTempSensor



The `CIM_PackageTempSensor` class described in [CIM_PackageTempSensor Properties](#) contains temperature sensors that are often installed in a package such as a chassis or a rack to assist in the monitoring of the package in general. This relationship is described by the `CIM_PackageTempSensor` association.

Table 75. CIM_PackageTempSensor Properties

Class Name: `CIM_PackageTempSensor`

Parent Class: `CIM_Dependency`

Element	Description
Antecedent	<code>CIM_TempSensor</code> refers to the temperature sensor for the package.
Dependent	<code>CIM_PhysicalPackage</code> refers to the physical package whose environment is being monitored.

CIM_PackageVoltSensor



The `CIM_PackageVoltSensor` class described in [CIM_PackageVoltage Properties](#) contains voltage sensors that are often installed in a package such as a chassis or a rack to assist in the monitoring of the package in general. This relationship is described by the `CIM_PackageVoltSensor` association.

Table 76. CIM_PackageVoltage Properties

Class Name: `CIM_PackageVoltSensor`

Parent Class: `CIM_Dependency`

Element	Description
Antecedent	<code>CIM_PackageVoltSensor</code> refers to the voltage sensor for the package.
Dependent	<code>CIM_PhysicalPackage</code> refers to the physical package whose voltages are being monitored.

CIM_PackageCurrentSensor



The `CIM_PackageCurrentSensor` class described in [CIM_PackageCurrentSensor Properties](#) contains amperage sensors that are often installed in a package such as a chassis or a rack to assist in the monitoring of the package in general. This relationship is described by the `CIM_PackageCurrentSensor` association.

Table 77. CIM_PackageCurrentSensor Properties

Class Name: `CIM_PackageCurrentSensor`

Parent Class: `CIM_Dependency`

Element	Description
Antecedent	<code>CIM_CurrentSensor</code> refers to the amperage sensor for the package.
Dependent	<code>CIM_PhysicalPackage</code> refers to the physical package whose amperage is being monitored.

CIM_PackageFanSensor



The `CIM_PackageFanSensor` class described in [CIM_PackageFanSensor Properties](#) contains fan sensors that monitor the whole package.

Table 78. CIM_PackageFanSensor Properties

Class Name: `CIM_PackageFanSensor`

Parent Class: `CIM_Dependency`

Element	Description
Antecedent	<code>CIM_Fan</code> refers to the cooling device for the package.
Dependent	<code>CIM_PhysicalPackage</code> refers to the physical package whose environment is being monitored.

CIM_PackagePowerSupplySensor



The `CIM_PackagePowerSupplySensor` class described in [CIM_PackagePowerSupplySensor Properties](#) contains power supplies that provide power to the whole package.

Table 79. CIM_PackagePowerSupplySensor Properties

Class Name: `CIM_PackagePowerSupplySensor`

Parent Class: `CIM_Dependency`

Element	Description
Antecedent	<code>CIM_PowerSupplySensor</code> refers to the power supply sensor that monitors wattage for the entire package.
Dependent	<code>CIM_PhysicalPackage</code> refers to the package whose wattage is being monitored.

DELL_PackagePSRedundancy

▶ **CIM_ManagedSystemElement**

▶ **CIM_Dependency**

▶ [DELL_PackagePSRedundancy](#)

The `DELL_PackagePSRedundancy` class described in [DELL_PackagePSRedundancy Properties](#) defines what constitutes a power supply redundancy for an entire package.

Table 80. DELL_PackagePSRedundancy Properties

Class Name: `DELL_PackagePSRedundancy`

Parent Class: `CIM_Dependency`

Element	Description
Antecedent	<code>DELL_PSRedundancyGroup</code> refers to power supplies that deliver wattage for the entire package.
Dependent	<code>CIM_PhysicalPackage</code> refers to the package to which the wattage is being supplied.

DELL_PSRedundancy

▶ **CIM_ManagedSystemElement**

▶ **CIM_Dependency**

▶ [DELL_PSRedundancy](#)

The `DELL_PSRedundancy` class described in [DELL_PSRedundancy Properties](#) defines what constitutes a power supply redundancy for Dell systems.

Table 81. DELL_PSRedundancy Properties

Class Name: `DELL_PSRedundancy`

Parent Class: CIM_Dependency

Element	Description
Antecedent	CIM_PowerSupplySensor refers to the power supply sensor that monitors wattage for the entire package.
Dependent	CIM_PhysicalPackage refers to the package whose wattage is being monitored.

DELL_AssociatedSupplyPCAmps

The DELL_AssociatedSupplyPCAmps class described in [DELL_AssociatedSupplyPCAmps](#) is a PowerConsumptionAmpsSensor associated with a CIM_PowerSupply which is defined by this class.

Table 82. DELL_AssociatedSupplyPCAmps

Class Name:	DELL_AssociatedSupplyPCAs	
Parent Class:	CIM_Dependency	
Property	Description	Data Type
Antecedent	Indicates the PowerSupply instance.	uint 16
Dependent	Indicates the PowerConsumptionAmpsSensor associated with the CIM_PowerSupply.	uint 16

DELL_AssociatedSystemPCWatts

The DELL_AssociatedSystemPCWatts class described in [DELL_AssociatedSystemPCWatts](#) is aPowerConsumptionWattsSensor associated with a Dell_System which is defined by this class.

Table 83. DELL_AssociatedSystemPCWatts

Class Name:	DELL_AssociatedSystemPCWatts	
Parent Class:	CIM_Dependency	
Property	Description	Data Type
Antecedent	Indicates the Dell_System instance.	uint 16
Dependent	Indicates the PowerConsumptionWattsSensor associated with the system.	uint 16

AssociatedSystemPCData

The AssociatedSystemPCData identified in [AssociatedSystemPCData](#) is a PowerConsumptionData associated with a Dell_System which is defined by this class.

Table 84. AssociatedSystemPCData

Class Name:	DELL_AssociatedSupplyPCAm s	
Parent Class:	CIM_Dependency	
Property	Description	Data Type
Antecedent	Indicates the Dell_System instance.	uint 16
Dependent	Indicates the PowerConsumptionData associated with the Power Supply.	uint 16

DELL_PowerProfileData

The DELL_PowerProfileData identified in [DELL_PowerProfileData](#) contains information related to power profiling and power knob data.

Table 85. DELL_PowerProfileData

Class Name:	DELL_PowerProfileData	
Parent Class:	CIM_LogicalDevice	
Property	Description	Data Type
chassisIndex	Indicates the chassisIndex for this power profile.	uint 8
supportedProfile	Indicates the supported profiles.	uint 16
profileSetting	Indicates the Profile setting.	uint 16
customCPUCaps	Indicates the Custom Profile CPU management capability.	uint 16
customCPUSettings	Indicates the Custom Profile CPU management setting.	uint 16
customMemCaps	Indicates the Custom Profile memory management capability.	uint 16
customMemSettings	Indicates the Custom Profile memory management capability.	uint 16
customFanSettings	Indicates the Custom Profile fan management setting.	uint 16