

Dell Command | Monitor Version 9.1 Reference Guide



Notes, cautions, and warnings

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

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

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

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Introduction

The Dell Command | Monitor software enables remote management application programs to access information, monitor the status of the Enterprise client system, or change the state of the system, such as shutting it down remotely. Dell Command | Monitor exposes, through standard interfaces, key system parameters that allow administrators to manage, inventory, monitor the system health of, and gather information on deployed client systems.

 **NOTE:** Dell Command | Monitor was formerly Dell OpenManage Client Instrumentation (OMCI). After the OMCI version 8.2.1, OMCI is rebranded as Dell Command | Monitor.

 **NOTE:** All classes or properties listed in the reference guide may not be supported on all Dell systems.

Dell Command | Monitor namespaces

The following namespaces are available in Dell Command | Monitor:

- **Standard Namespace (new namespace)**- This namespace is standards-based with implementation of multiple profiles as defined by the DMTF. The CIM schema for this namespace is 2.17 and provides all functionality of Dell Command | Monitor. In Dell Command | Monitor, we use DASH-compliant namespace convention. A DASH-compliant implementation uses a CIM-based data model for representing managed resources and services.



NOTE: From Dell Command | Monitor 9.0, Legacy namespace (**root\dellomci**) is not supported.

Profiles

Dell Command | Monitor uses industry standard profiles to represent the management data provided. These profiles are implemented either as defined or in some cases have Dell-specific extensions.

The following is a list of profiles that are implemented in this version of Dell Command | Monitor:

Non-extended profiles:

- **Base Metrics** — The Base Metrics Profile is a component profile that defines the minimum object model needed to provide dynamic metrics associated to existing managed elements and related associations.
- **Battery** — The Battery Profile extends the management capabilities of referencing profiles by adding the capability to represent batteries for manageability. The battery as a logical device is modeled as referencing the battery physical package for physical asset information, the sensor for sensor-reading information, and the profile registration for the schema implementation version information.
- **BIOS Management** — The BIOS Management Profile extends the management capabilities of referencing profiles by adding the capability to represent and configure BIOS attributes, such as a Network Controller or IDE Controller. The individual BIOS attribute's relationship with a respective device is also described.
- **Boot Control** — The Boot Control Profile describes the classes, associations, properties, and methods used to manage the boot control configurations of a physical or virtual computer system.
- **CPU** — The CPU Profile extends the management capability of referencing profiles by adding the capability to represent CPUs or processors in a managed system. CPU cache memory and associations with CPU physical aspects, as well as profile implementation version information, are modeled in this profile.
- **Fan** — The Fan Profile extends the management capabilities of referencing profiles by adding the capability to represent fans for manageability and describe fans in a redundant configuration. The fan as a logical device is modeled as referencing the fan physical package for physical asset information, a sensor for sensor reading information.
- **Indications** — The Indications Profile defines the CIM elements that are used to subscribe for indications of unsolicited events, to advertise the possible indications, and to represent indications used to report events in a managed system.
- **IP Interface** — The IP Interface Profile extends the management capability of referencing profiles by adding the capability to represent an IP interface of a managed system.
- **OS Status** — The OS Status Profile extends the management capabilities of referencing profiles by adding the capability to perform basic management of operating systems installed on a system.
- **PCI Device** — The PCI Device Profile extends the management capabilities of referencing profiles by adding the capability to represent PCI devices for manageability, including PCI, PCI-X, PCI Express, bridge and switch devices.
- **Physical Asset** — The Physical Asset Profile extends the management capability of the referencing profiles by adding the capability to describe the physical aspects of logical elements that the implementation is instantiating.
- **Power State Management** — The Power State Management Profile describes the classes, associations, properties, and methods used to manage the power of a computer system.
- **Profile Registration** — The Profile Registration extends the management capability of the referencing profiles by adding the capability to describe the registration and versioning of CIM profiles that are implemented by CIM based system and component management instrumentations.

- RecordLog – The Record Log Profile is an autonomous profile that provides the management capabilities to represent logs of a managed system element.
- Sensors – The Sensors Profile extends the management capabilities of referencing profiles by adding the capability to represent sensors.
- Software Inventory – The Software Inventory Profile describes the CIM schema elements required to provide an inventory of installed BIOS, firmware, drivers, and related software in a managed system.
- Device Tray – The Device Tray Profile is a component profile for modeling a device tray of a modular system.
- Software Update – The Software Update Profile describes the classes, associations, properties, and methods used to support the installation and update of BIOS, firmware, drivers and related software on a managed element within a managed system.
- Base Desktop and Mobile – The Base Desktop and Mobile Profile is an autonomous profile that defines the classes used to describe monolithic desktop or mobile computer hardware and related software. The scope of this profile is limited to monolithic desktop or mobile computer hardware and related software that are directly realized in physical components.

Extended profiles:

- Asset Profile
- Ethernet Port Profile
- Event Configuration
- Serial Port
- Service Processor Profile
- System Memory
- USB
- Docking Station
- Human Computer Interaction
- Display Controller

For more information on Profiles, refer to the website - dmtf.org/standards/profiles.

Classes

Classes and properties are defined by the CIM schema. The profiles identify mandatory classes and properties in order to implement the profile.

For more information on CIM schema, classes and properties, refer to the website - dmf.org/standards/cim

Dell Command | Monitor classes and properties

Dell Command | Monitor provides information for a namespace through different classes.

Dell Command | Monitor DMTF profiles


The namespace to access the Dell Command | Monitor DMTF profiles is `root\dcim\sysman`.

The following tables describe the DMTF profiles and the classes associated with each profile.

DCIM_AlertIndication

Property	Description
AlertingElementFormat	<p>The format of the AlertingManagedElement property is interpretable based on the value of this property.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown — The format is unknown or not meaningfully interpretable by a CIM client application. 1 = Other — The format is defined by the value of the OtherAlertingElementFormat property. 2 = CIMObjectPath — The format is a CIMObjectPath, with format <code>NamespacePath:ClassName.Prop1 = Value1, Prop2=Value2, . . .</code> specifying an instance in the CIM Schema.
AlertingManagedElement	<p>The identifying information of the entity (that is, the instance) for which this Indication is generated. The property contains the path of an instance, encoded as a string parameter — if the instance is modeled in the CIM Schema. If it is not a CIM instance, the property contains some identifying string that names the entity for which the Alert is generated. The path or identifying string is formatted per the AlertingElementFormat property.</p>
AlertType	<p>Primary classification of the Indication.</p>

Property	Description
	<p>Possible values are:</p> <ul style="list-style-type: none"> • 1 = Other — The Indication's OtherAlertType property conveys its classification. Use of Other in an enumeration is a standard CIM convention. It means that the current Indication does not fit into the categories described by this enumeration. • 2 = Communications Alert — An Indication of this type is principally associated with the procedures and/or processes required to convey information from one point to another. • 3 = Quality of Service Alert — An Indication of this type is principally associated with a degradation or errors in the performance or function of an entity. • 4 = Processing Error — An Indication of this type is principally associated with a software or processing fault. • 5 = Device Alert — An Indication of this type is principally associated with an equipment or hardware fault. • 6 = Environmental Alert — An Indication of this type is principally associated with a condition relating to an enclosure in which the hardware resides, or other environmental considerations. • 7 = Model Change — The Indication addresses changes in the Information Model. For example, it may embed a Lifecycle Indication to convey the specific model change being alerted. • 8 = Security Alert — An Indication of this type is associated with security violations, detection of viruses, and similar issues.
EventID	<p>An instrumentation or provider-specific value that describes the underlying real-world event represented by the Indication. Two Indications with the same, non NULL EventID value are considered, by the creating entity, to represent the same event. The comparison of two EventID values is only defined for Alert Indications with identical, non NULL values of SystemCreateClassName, SystemName, and ProviderName.</p>
IndicationIdentifier	<p>An identifier for the Indication. This property is similar to a key value in that it can be used for identification, when correlating Indications (see the CorrelatedIndications array). Its value SHOULD be unique as long as correlations are reported, but MAY be reused or left NULL if no future Indications will reference it in their CorrelatedIndications array. To ensure uniqueness, the value of IndicationIdentifier should be constructed using the following preferred algorithm:</p> <p><OrgID>:<LocalID></p>

Property	Description
IndicationTime	<p>Where <OrgID> and <LocalID>are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the IndicationIdentifier or that is a recognized ID that is assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness must not contain a colon (:). When using this algorithm, the first colon to appear in IndicationIdentifier must appear between <OrgID>and <LocalID> is chosen by the business entity and should not be re-used to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity should assure that the resulting IndicationIdentifier is not reused across any IndicationIdentifiers that are produced by this or other providers for the NameSpace of this instance.</p> <p>The time and date of creation of the Indication. The property may be set to NULL if the entity creating the Indication is not capable of determining this information.</p> <p> NOTE: IndicationTime may be the same for two Indications that are generated in rapid succession.</p>
Message	<p>The formatted message. This message is constructed by combining some or all of the dynamic elements specified in the MessageArguments property with the static elements uniquely identified by the MessageID in a message registry or other catalog associated with the OwningEntity.</p>
MessageArguments	<p>An array containing the dynamic content of the message.</p>
MessageID	<p>A string that uniquely identifies, within the scope of the OwningEntity, the format of the Message.</p>
OtherAlertingElementFormat	<p>A string defining Other values for AlertingElementFormat. This value MUST be set to a non NULL value when AlertingElementFormat is set to a value of 1 (Other). For all other values of AlertingElementFormat, the value of this string must be set to NULL.</p>
OtherAlertType	<p>A string describing the Alert type — used when the AlertType property is set to 1, Other State Change.</p>

Property	Description
OtherSeverity	Holds the value of the user-defined severity value when PerceivedSeverity is 1 (Other).
OwningEntity	A string that uniquely identifies the entity that owns the definition of the format of the Message described in this instance. OwningEntity MUST include a copyrighted, trademarked or otherwise unique name that is owned by the business entity or standards body defining the format.
PerceivedSeverity	<p>An enumerated value that describes the severity of the Alert Indication from the notifier's point of view:</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 and 0 — Information and Unknown (respectively) follow common usage. Literally, the AlertIndication is purely informational or its severity is unknown. • 1 = Other — By CIM convention, is used to indicate that the Severity's value can be found in the OtherSeverity property. • 3 = Degraded/Warning — Is used when it is appropriate to let the user decide if action is needed. • 4 = Minor — Is used to indicate that action is needed, but the situation is not serious now. • 5 = Major — Is used to indicate that action is needed NOW. • 6 = Critical — Is used to indicate that action is needed NOW and the scope is broad (perhaps an imminent outage to a critical resource results). • 7 = Fatal/Non recoverable — Is used to indicate that an error occurred, but it is too late to take remedial action.
ProbableCause	<p>An enumerated value that describes the probable cause of the situation that resulted in the AlertIndication.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Adapter/Card Error • 3 = Application Subsystem Failure • 4 = Bandwidth Reduced • 5 = Connection Establishment Error • 6 = Communications Protocol Error • 7 = Communications Subsystem Failure • 8 = Configuration/Customization Error • 9 = Congestion • 10 = Corrupt Data


Property	Description
	<ul style="list-style-type: none"> • 11 = CPU Cycles Limit Exceeded • 12 = Dataset/Modem Error • 13 = Degraded Signal • 14 = DTE-DCE Interface Error • 15 = Enclosure Door Open • 16 = Equipment Malfunction • 17 = Excessive Vibration • 18 = File Format Error • 19 = Fire Detected • 20 = Flood Detected • 21 = Framing Error • 22 = HVAC Problem • 23 = Humidity Unacceptable • 24 = I/O Device Error • 25 = Input Device Error • 26 = LAN Error • 27 = Non-Toxic Leak Detected • 28 = Local Node Transmission Error • 29 = Loss of Frame • 30 = Loss of Signal • 31 = Material Supply Exhausted • 32 = Multiplexer Problem • 33 = Out of Memory • 34 = Output Device Error • 35 = Performance Degraded • 36 = Power Problem • 37 = Pressure Unacceptable • 38 = Processor Problem (Internal Machine Error) • 39 = Pump Failure • 40 = Queue Size Exceeded • 41 = Receive Failure • 42 = Receiver Failure • 43 = Remote Node Transmission Error • 44 = Resource at or Nearing Capacity • 45 = Response Time Excessive • 46 = Retransmission Rate Excessive • 47 = Software Error • 48 = Software Program Abnormally Terminated • 49 = Software Program Error (Incorrect Results) • 50 = Storage Capacity Problem • 51 = Temperature Unacceptable • 52 = Threshold Crossed • 53 = Timing Problem • 54 = Toxic Leak Detected • 55 = Transmit Failure

Property	Description
	<ul style="list-style-type: none"> • 56 = Transmitter Failure • 57 = Underlying Resource Unavailable • 58 = Version MisMatch • 59 = Previous Alert Cleared • 60 = Login Attempts Failed • 61 = Software Virus Detected • 62 = Hardware Security Breached • 63 = Denial of Service Detected • 64 = Security Credential MisMatch • 65 = Unauthorized Access • 66 = Alarm Received • 67 = Loss of Pointer • 68 = Payload Mismatch • 69 = Transmission Error • 70 = Excessive Error Rate • 71 = Trace Problem • 72 = Element Unavailable • 73 = Element Missing • 74 = Loss of Multi Frame • 75 = Broadcast Channel Failure • 76 = Invalid Message Received • 77 = Routing Failure • 78 = Backplane Failure • 79 = Identifier Duplication • 80 = Protection Path Failure • 81 = Sync Loss or Mismatch • 82 = Terminal Problem • 83 = Real Time Clock Failure • 84 = Antenna Failure • 85 = Battery Charging Failure • 86 = Disk Failure • 87 = Frequency Hopping Failure • 88 = Loss of Redundancy • 89 = Power Supply Failure • 90 = Signal Quality Problem • 91 = Battery Discharging • 92 = Battery Failure • 93 = Commercial Power Problem • 94 = Fan Failure • 95 = Engine Failure • 96 = Sensor Failure • 97 = Fuse Failure • 98 = Generator Failure • 99 = Low Battery • 100 = Low Fuel

Property	Description
	<ul style="list-style-type: none"> • 101 = Low Water • 102 = Explosive Gas • 103 = High Winds • 104 = Ice Buildup • 105 = Smoke • 106 = Memory Mismatch • 107 = Out of CPU Cycles • 108 = Software Environment Problem • 109 = Software Download Failure • 110 = Element Reinitialized • 111 = Timeout • 112 = Logging Problems • 113 = Leak Detected • 114 = Protection Mechanism Failure • 115 = Protecting Resource Failure • 116 = Database Inconsistency • 117 = Authentication Failure • 118 = Breach of Confidentiality • 119 = Cable Tamper • 120 = Delayed Information • 121 = Duplicate Information • 122 = Information Missing • 123 = Information Modification • 124 = Information Out of Sequence • 125 = Key Expired • 126 = Non-Repudiation Failure • 127 = Out of Hours Activity • 128 = Out of Service • 129 = Procedural Error • 130 = Unexpected Information
ProviderName	The name of the Provider generating this Indication.
SystemCreationClassName	The scoping of the creation class name of the system for the provider, generating this indication.
SystemName	The scoping name of the system for the provider, generating this indication.
Trending	<p>Provides information on trending – trending up, down, or no change.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Not Applicable • 2 = Trending Up

Property	Description
	<ul style="list-style-type: none"> • 3 = Trending Down • 4 = No Change

DCIM_Card

Property	Description
CanBeFRUed	Boolean that indicates whether this PhysicalElement can be FRUed (TRUE) or not (FALSE).
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.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
HostingBoard	Boolean indicating that this Card is a Motherboard or, more generically, a baseboard in a Chassis.
Manufacturer	The name of the organization responsible for producing the PhysicalElement. This organization may be the entity from whom the Element is purchased, but it is not necessarily true. The latter information is contained in the Vendor property of CIM_Product.
Model	The name by which the PhysicalElement is known.
PackageType	<p>Enumeration defining the type of the PhysicalPackage.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates that the package type is not known. • 1 = Other — The package type does not correspond to an existing enumerated value.

Property	Description
	<p>The value is specified using the OtherPackageType property.</p>
	<ul style="list-style-type: none"> • 2 = Rack • 3 = Chassis/Frame • 4 = Cross Connect/Backplane • 5 = Container/Frame Slot • 6 = Power Supply • 7 = Fan • 8 = Sensor • 9 = Module/Card • 10 = Port/Connector • 11 = Battery • 12 = Processor • 13 = Memory • 14 = Power Source/Generator • 15 = Storage Media Package (e.g., Disk or Tape Drive) • 16 = Blade • 17 = Blade Expansion




NOTE: This enumeration expands on the list in the Entity MIB (the attribute, entPhysicalClass). The numeric values are consistent with CIM's enum numbering guidelines, but are slightly different than the MIB's values.


The values **Rack** through **Port/Connector** are defined per the Entity-MIB (where the semantics of rack are equivalent to the MIB's **stack** value). The other values (for battery, processor, memory, power source/generator and storage media package) are self-explanatory. A value of **Blade** should be used when the PhysicalPackage contains the operational hardware aspects of a ComputerSystem, without the supporting mechanicals such as power and cooling. For example, a Blade Server includes processor(s) and memory, and relies on the containing chassis to supply power and cooling. In many respects, a Blade can be considered a **Module/Card**. However, it is tracked differently by inventory systems and differs in terms of service philosophy. For example, a Blade is intended to be hot-plugged into a hosting enclosure without requiring additional cabling, and does not require a cover to be removed from the enclosure for installation. Similarly, a **Blade Expansion** has characteristics of a **Blade** and a **Module/Card**. However, it is distinct from both due to inventory tracking and service philosophy, and because of its hardware dependence on a Blade. A Blade Expansion must be attached to a Blade prior to inserting the resultant assembly into an enclosure.

Property	Description
PartNumber	The part number assigned by the organization that is responsible for producing or manufacturing the PhysicalElement.
SKU	The stock-keeping unit number for this PhysicalElement.
Tag	An arbitrary string that uniquely identifies the Physical Element and serves as the key of the Element. The Tag property can contain information such as asset tag or serial number data. The key for PhysicalElement is placed very high in the object hierarchy to independently identify the hardware or entity, regardless of 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 can even be inserted into a different scoping container. Therefore, the key for Physical Element is an arbitrary string and is defined independently of any placement or location-oriented hierarchy.

DCIM_Chassis

Property	Description
BreachDescription	A free-form string providing more information if the SecurityBreach property indicates that a breach or some other security-related event occurred.
CanBeFRUed	Boolean that indicates whether this PhysicalElement can be FRUed (TRUE) or not (FALSE).
ChassisPackageType	Indicates the physical form factor for the type of Chassis. Possible values are: <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = SMBIOS Reserved • 3 = Desktop • 4 = Low Profile Desktop • 5 = Pizza Box • 6 = Mini Tower • 7 = Tower • 8 = Portable • 9 = LapTop • 10 = Notebook • 11 = Hand Held

Property	Description
	<ul style="list-style-type: none"> • 12 = Docking Station • 13 = All in One • 14 = Sub Notebook • 15 = Space-Saving • 16 = Lunch Box • 17 = Main System Chassis • 18 = Expansion Chassis • 19 = SubChassis • 20 = Bus Expansion Chassis • 21 = Peripheral Chassis • 22 = Storage Chassis • 23 = SMBIOS Reseved • 24 = Sealed-Case PC • 25 = SMBIOS Reserved • 26 = CompactPCI • 27 = AdvancedTCA • 28 = Blade Enclosure • .. = DMTF Reserved • 0x8000..0xFFFF = Vendor Reserved <p>This property may have a value when the PackageType property contains the value 3 Chassis Frame. A value of 28 Blade Enclosure indicates that the Chassis is designed to contain one or more PhysicalPackage(s) of PackageType 16 Blade or PackageType 17 Blade Expansion.</p>
ChassisTypeDescription	A string providing more information on the ChassisPackageType.
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.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often sub-classed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>

Property	Description
LockPresent	Boolean indicating whether the Frame is protected with a lock.
Manufacturer	The name of the organization responsible for producing the PhysicalElement. This organization may be the entity from whom the Element is purchased, but this is not necessarily true. The latter information is contained in the Vendor property of CIM_Product.
Model	The name by which the PhysicalElement is generally known.
Name	The Name property defines the label by which the object is known. When sub-classed, the Name property can be overridden to be a Key property.
PackageType	<p>Enumeration defining the type of the PhysicalPackage.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates that the package type is not known. • 1 = Other — The package type does not correspond to an existing enumerated value. The value is specified using the OtherPackageType property. • 2 = Rack • 3 = Chassis/Frame • 4 = Cross Connect/Backplane • 5 = Container/Frame Slot • 6 = Power Supply • 7 = Fan • 8 = Sensor • 9 = Module/Card • 10 = Port/Connector • 11 = Battery • 12 = Processor • 13 = Memory • 14 = Power Source/Generator • 15 = Storage Media Package (example, Disk or Tape Drive) • 16 = Blade • 17 = Blade Expansion <p> NOTE: This enumeration expands on the list in the Entity MIB (the attribute, entPhysicalClass). The numeric values are consistent with CIM's enum numbering guidelines, but are slightly different than the MIB's values.</p>

Property	Description
	<p>The values Rack through Port/Connector are defined per the Entity-MIB (where the semantics of rack are equivalent to the MIB's stack value).</p> <p>The other values (for battery, processor, memory, power source/generator and storage media package) are self-explanatory. A value of Blade should be used when the PhysicalPackage contains the operational hardware aspects of a ComputerSystem, without the supporting mechanicals such as power and cooling. For example, a Blade Server includes processor(s) and memory, and relies on the containing chassis to supply power and cooling.</p> <p>In many respects, a Blade can be considered a Module/Card. However, it is tracked differently by inventory systems and differs in terms of service philosophy. For example, a Blade is intended to be hot-plugged into a hosting enclosure without requiring additional cabling, and does not require a cover to be removed from the enclosure for installation. Similarly, a Blade Expansion has characteristics of a Blade and a Module/Card. However, it is distinct from both due to inventory tracking and service philosophy, and because of its hardware dependence on a Blade. A Blade Expansion must be attached to a Blade prior to inserting the resultant assembly into an enclosure.</p>
PartNumber	The part number assigned by the organization that is responsible for producing or manufacturing the PhysicalElement.
PropertyOwnershipTag	Property Ownership Tag of a system.
SecurityBreach	<p>An enumerated, integer-valued property indicating whether a physical breach of the Frame was attempted but unsuccessful (value = 4) or attempted and successful (value = 5).</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 1 = Other • 2 = Unknown • 3 = No Breach • 4 = Breach Attempted • 5 = Breach Successful
SKU	The stock-keeping unit number for this PhysicalElement.
Tag	An arbitrary string that uniquely identifies the Physical Element and serves as the key of the Element. The Tag property can contain information

Property	Description
	such as asset tag or serial number data. The key for PhysicalElement is placed very high in the object hierarchy in order to independently identify the hardware or entity, regardless of 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 can even be inserted into a different scoping container. Therefore, the key for Physical Element is an arbitrary string and is defined independently of any placement or location-oriented hierarchy.

VendorCompatibilityStrings

An array of strings that identify the component that is compatible with, and can be inserted in a slot that reports this string as one of the array element in the VendorCompatibilityStrings. This allows system administrators to determine whether it is appropriate to insert a package into a slot to ensure uniqueness within the NameSpace, each value defined by the vendor for use in the VendorCompatibilityStrings property SHOULD be constructed using the following **preferred** algorithm: : Where and are separated by a colon ':', and where MUST include a copyrighted, trademarked or otherwise unique name that is owned by the business entity creating/defining the InstanceID, or is a registered ID that is assigned to the business entity by a recognized global authority (This is similar to the _ structure of Schema class names.) In addition, to ensure uniqueness MUST NOT contain a colon (':'). When using this algorithm, the first colon to appear in InstanceID MUST appear between and . is chosen by the business entity and SHOULD not be re-used to identify different underlying (real-world) elements.

ChangePropertyOwnershipTag (Method)


This method allows a user to change the Property Ownership Tag of a system.

ChangeAssetTag (Method)

This method allows a user to change the Asset Tag of a system.

DCIM_Chip

Property	Description
CanBeFRUed	Boolean that indicates whether this PhysicalElement can be FRUed (TRUE) or not (FALSE).
CreationClassName	Indicates the name of the class or the subclass used in the creation of an instance. When used

Property	Description
ElementName	<p>with the other key properties of this class, this property allows all instances of this class and its subclasses to be uniquely identified.</p> <p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often sub classed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
Manufacturer	<p>The name of the organization responsible for producing the PhysicalElement. This organization may be the entity from where the Element is purchased, but this is not necessarily true. The latter information is contained in the Vendor property of CIM_Product.</p>
Model	<p>The name by which the PhysicalElement is generally known.</p>
PartNumber	<p>The part number assigned by the organization that is responsible for producing or manufacturing the PhysicalElement.</p>
SerialNumber	<p>A manufacturer-allocated number used to identify the Physical Element.</p>
SKU	<p>The stock-keeping unit number for this PhysicalElement.</p>
Tag	<p>An arbitrary string that uniquely identifies the Physical Element and serves as the key of the Element. The Tag property can contain information such as asset tag or serial number data. The key for PhysicalElement is placed very high in the object hierarchy to independently identify the hardware or entity, regardless of physical placement in or on Cabinets, Adapters, and so on.</p> <p>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 can even be inserted into a different scoping container.</p>

Property	Description
	Therefore, the key for Physical Element is an arbitrary string and is defined independently of any placement or location-oriented hierarchy.


DCIM_DesktopMonitor

Property	Description
Bandwidth	Monitor's bandwidth in Mega Hertz. If unknown, enter 0.
Brightness	This property represents the brightness/Luminance of the video output. The property value is from 0 to the MaxBrightness property value. If the Brightness property is implemented but the brightness is unknown at the time, the property has a value 0x80000000.
Caption	The Caption property is a short textual description (one- line string) of the object.
ColorCodeFormatSupported	Color code format supported.
ColorDepthBits	Color Bit Depth.
ColorModePreset	<p>This property defines a specified color temperature of the display.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = sRGB • 3 = Display Native • 4 = 4000K • 5 = 5000K • 6 = 6500K • 7 = 7500K • 8 = 8200K • 9 = 9300K • 1011 = 10000K • 12 = 11500K • 13 = User 1 • 14 = User • 2 .. = User 3 • 32768..65535 = DMTF Reserved
ColorModePresetCapabilities	This property lists the allowed values for ColorModePreset.

Property	Description
CommunicationStatus	<p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = sRGB • 3 = Display Native • 4 = 4000K • 5 = 5000K • 6 = 6500K • 7 = 7500K • 8 = 8200K • 9 = 9300K • 1011 = 10000K • 12 = 11500K • 13 = User 1 • 14 = User • .. = User 3 • 32768..65535 = DMTF Reserved <p>Indicates the ability of the instrumentation to communicate with the underlying ManagedElement. A Null return indicates the implementation (provider) does not implement this property.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates that the implementation is in general capable of returning this property, but is unable to do so now. • 1 = Not Available — Indicates that the implementation (provider) is capable of returning a value for this property, but not ever for this particular piece of hardware/software or the property is intentionally not used because it adds no meaningful information (as in the case of a property that is intended to add additional info to another property). • 2 = Communication OK — indicates that communication is established with the element, but does not convey any quality of service. • 3 = Lost Communication — Indicates that the Managed Element is known to exist and has been contacted successfully in the past, but is unreachable. • 4 = No Contact — Indicates that the monitoring system has knowledge of this element, but has never been able to establish communications with it. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved

Property	Description
CompositSyncSignalOnGreenVideoSupported	Composite Sync Signal on Green video is supported.
CompositSyncSignalOnHorizontalSupported	Composite Sync Signal on Horizontal is supported.
ContinuousFrequency	For EDID 1.3, this bit indicated support for or no support for GTF(using the default GTF parameter values). For EDID 1.4 this bit has been redefined to indicate Continuous frequency(1) or Non-Continuous Frequency(0).
Contrast	This property represents the contrast of the video output. The property value is from 0 to the MaxContrast property value. If the Contrast property is implemented but the contrast is unknown at the time, the property has a value 0x80000000.
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.
CurrentResolutionH	This property indicated the current horizontal resolution in pixels.
CurrentResolutionV	This property indicated the current vertical resolution in pixels.
Description	Provides a textual description of the object.
DeviceID	An address or other identifying information used to uniquely name the LogicalDevice.
DisplayCharacteristics	<p>This array property represents various characteristics of a video output device. value.</p> <ul style="list-style-type: none"> • StandbyModeSupported: the video output device can go into a stand by mode, • SuspendModeSupported: the video output device can go into a suspend mode, • VeryLowPowerSupported: the video output goes into a low power mode. If DisplayCharacteristics is implemented but the value is unknown, the property has an Unknown <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = StandbyModeSupported • 3 = SuspendModeSupported • 4 = VeryLowPowerSupported • .. = DMTF Reserved

Property	Description
DisplayMode	<ul style="list-style-type: none"> • 32768..65535 = Vendor Reserved <p>This property permits the selection of a preset optimized by manufacturer for an application type or the selection of a user-defined setting.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Standard/default mode • 3 = Productivity • 4 = Mixed • 5 = Movie • 6 = User defined • 7 = Games • 8 = Sports • 9 = Professional • 10 = Standard (intermediate power) • 11 = Standard(low power) • 12 = demonstration • 13 = Dynamic contrast • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
DisplayModeCapabilities	<p>This property lists the allowed values for DisplayMode.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Standard/default mode • 3 = Productivity • 4 = Mixed • 5 = Movie • 6 = User defined • 7 = Games • 8 = Sports • 9 = Professional • 10 = Standard (intermediate power) • 11 = Standard(low power) • 12 = demonstration • 13 = Dynamic contrast • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
EDIDGamma	<p>Display transfer characteristics(GAMMA).Range is from 1.00->3.54. $GAMMA = (EDID\ Value + 100) / 100$</p>
EDIDVersionNumber	<p>EDID version and reversion number.</p>

Property	Description
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not run commands and drops any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state.


Property	Description
FrequencyH	<p>This property is a horizontal synchronization signal frequency in Hz as determined by the display.</p>
FrequencyV	<p>This property is a vertical synchronization signal frequency in Hz as determined by the display.</p>
HealthState	<p>Indicates the current health of the element. This attribute expresses the health of this element but not necessarily that of its subcomponents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — The implementation cannot report on HealthState now. DMTF has reserved the unused portion of the continuum for additional HealthStates in the future. • 5 = OK — The element is fully functional and is operating within normal operational parameters and without error. • 10 = Degraded/Warning — The element is in working order and all functionality is provided. However, the element is not working to the best of its abilities. For example, the element may not be operating at optimal performance or it may be reporting recoverable errors. • 15 = Minor failure — All functionality is available but some may be degraded. • 20 = Major failure — The element is failing. It is possible that some or all of the functionality of this component is degraded or not working. • 25 = Critical failure — The element is nonfunctional and recovery may not be possible. • 30 = Non-recoverable error — The element has failed, and recovery is not possible. All functionality provided by this element has been lost.

Property	Description
	<ul style="list-style-type: none"> .. = DMTF Reserved
IdentifyingDescriptions	An array of free-form strings providing explanations and details behind the entries in the OtherIdentifyingInfo array. Each entry of this array is related to the entry in OtherIdentifyingInfo that is located at the same index.
InputAnalog	Input is an analog video signal interface.
InputDigital	Input is a digital video signal interface.
InputDisplayPort	DisplayPort is supported.
InputDVI	DVI is supported.
InputHDMI	HDMI is supported.
InputSource	<p>An enumerated value identifying the current input source. Writing a new value into this property changes the device's input source to the specified value, if the value is supported as specified in InputSourceCapabilities. If the requested value is not in InputSourceCapabilities, then the current value of InputSource is unchanged.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown 2 = Analog Video (R/G/B) #1 3 = Analog Video (R/G/B) #2 4 = Digital Video (TMDS) #1 5 = Digital Video (TMDS) #2 6 = Composite Video #1 7 = Composite Video #2 8 = S-video #1 9 = S-video #2 1011 = Tuner - Analog #1 12 = Tuner - Analog #2 13 = Tuner - Digital #1 14 = Tuner - Digital #2 15 = Component Video #1 16 = Component Video #2 17 = Component Video #3 18 = Digital Video (DisplayPort) #1 .. = Digital Video (DisplayPort) #2 32768..65535 = DMTF Reserved
InputSourceCapabilities	This property lists the allowed values for InputSource.

Property	Description
	<p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Analog Video (R/G/B) #1 • 3 = Analog Video (R/G/B) #2 • 4 = Digital Video (TMDS) #1 • 5 = Digital Video (TMDS) #2 • 6 = Composite Video #1 • 7 = Composite Video #2 • 8 = S-video #1 • 9 = S-video #2 • 1011 = Tuner - Analog #1 • 12 = Tuner - Analog #2 • 13 = Tuner - Digital #1 • 14 = Tuner - Digital #2 • 15 = Component Video #1 • 16 = Component Video #2 • 17 = Component Video #3 • 18 = Digital Video (DisplayPort) • #1 .. = Digital Video (DisplayPort) • #2 32768..65535 = DMTF Reserved
MaxBrightness	<p>This property defines the maximum value of brightness of the video output device. Different manufacturers may have different values.</p>
MaxContrast	<p>This property represents the maximum value of contrast of the video output device. Different manufacturers may have different values.</p>
MaxQuiesceTime	<p>The use of this property has been deprecated. When evaluating the use of Quiesce, it was determined that this single property is not adequate for describing when a device will automatically exit a quiescent state. In fact, the most likely scenario for a device to exit a quiescent state was determined to be based on the number of outstanding requests queued rather than on a maximum time. This decision is reevaluated and later. Depreciated description: Maximum time, in milliseconds, that a Device can run in a Quiesced state. The state is defined in its Availability and AdditionalAvailability properties, where Quiesced is conveyed by the value 21. What occurs at the end of the time limit is device-specific. The Device can unquiesce, can be offline, or can take other actions. A value of 0 indicates that a Device can remain quiesced indefinitely.</p>
MCCSVersionNumber	<p>This property represents the version number of the Monitor Command and Control Set (MCCS) standard recognized by the display.</p>

Property	Description
OperationalStatus	<p data-bbox="828 241 1390 321">Indicates the current statuses of the element. Various operational statuses are defined. Many of the enumeration's values are self-explanatory.</p> <p data-bbox="828 348 1038 373">Possible values are:</p> <ul data-bbox="828 401 1390 1780" style="list-style-type: none"> <li data-bbox="828 401 1018 426">• 0 = Unknown <li data-bbox="828 436 970 462">• 1 = Other <li data-bbox="828 472 943 497">• 2 = OK <li data-bbox="828 508 1018 533">• 3 = Degraded <li data-bbox="828 543 1390 636">• 4 = Stressed — Indicates that the element is functioning, but needs attention. Examples of Stressed states are overload, overheated, and so on. <li data-bbox="828 646 1390 718">• 5 = Predictive Failure — Indicates that an element is functioning nominally but predicting a failure soon. <li data-bbox="828 728 970 753">• 6 = Error <li data-bbox="828 764 1166 789">• 7 = Non-Recoverable Error <li data-bbox="828 800 995 825">• 8 = Starting <li data-bbox="828 835 1007 861">• 9 = Stopping <li data-bbox="828 871 1347 917">• 10 = Stopped — Implies a clean and orderly stop <li data-bbox="828 928 1390 999">• 11 = In Service — Describes an element being configured, maintained, cleaned, or otherwise administered. <li data-bbox="828 1010 1390 1102">• 12 = No Contact — Indicates that the monitoring system has knowledge of this element, but has never been able to establish communications with it. <li data-bbox="828 1113 1390 1205">• 13 = Lost Communication — Indicates that the ManagedSystem Element is known to exist and has been contacted successfully in the past, but is unreachable. <li data-bbox="828 1215 1390 1287">• 14 = Aborted — Implies an abrupt stop where the state and configuration of the element may need to be updated. <li data-bbox="828 1297 1390 1348">• 15 = Dormant — Indicates that the element is inactive or quiesced. <li data-bbox="828 1358 1390 1501">• 16 = Supporting Entity in Error — Indicates that this element may be OK but that another element, on which it is dependent, is in error. An example is a network service or endpoint that cannot function due to lower-layer networking problems. <li data-bbox="828 1512 1390 1730">• 17 = Completed — Indicates that the element has completed its operation. This value should be combined with either OK, Error, or Degraded so that a client can tell if the complete operation Completed with OK (passed), Completed with Error (failed), or Completed with Degraded (the operation finished, but it did not complete OK or did not report an error). <li data-bbox="828 1740 1390 1780">• 18 = Power Mode — Indicates that the element has additional power model information

Property	Description
	<p>contained in the Associated PowerManagementService association.</p> <ul style="list-style-type: none"> • .. = DMTF Reserved • 0x8000.. = Vendor Reserved
	<p>OperationalStatus replaces the Status property on ManagedSystemElement to provide a consistent approach to enumerations, to address implementation needs for an array property, and to provide a migration path from today's environment to the future. This change was not made earlier because it required the deprecated qualifier. Due to the widespread use of the existing Status property in management applications, it is recommended that providers or instrumentation provide both the Status and OperationalStatus properties. Further, the first value of OperationalStatus should contain the primary status for the element. When instrumented, Status (because it is single-valued) should also provide the primary status of the element.</p>
PhysicalSizeH	Horizontal screen size in cm.
PhysicalSizeV	Vertical screen size in cm.
PrimaryStatus	<p>Provides a high-level status value, intended to align with Red-Yellow-Green type representation of status. It should be used with DetailedStatus to provide high level and detailed health status of the ManagedElement and its subcomponents.</p> <p>PrimaryStatus consists of one of the following values:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates that the implementation is in general capable of returning this property, but is unable to do so now • 1 = OK — Indicates the ManagedElement is functioning normally. • 2 = Degraded — Indicates the ManagedElement is functioning below normal. • 3 = Error — Indicates the ManagedElement is in an Error condition. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved
ProductCode	Product code of this monitor.
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is</p>


Property	Description
	<p>provided to compare the last requested and current enabled or disabled states. When EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration. Unknown (0) indicates that the last requested state for the element is unknown.</p>
	<p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5). Offline (6) indicates that the element has been requested to transition to the Enabled but Offline EnabledState. There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11). Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests. This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code. If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p>
	<p>Possible values are:</p>
	<ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled.

Property	Description
ScalerManufacturer	<ul style="list-style-type: none"> • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>The name of the manufacturer of the controller chip used in a particular display.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 1 = Other • 2 = Conexant • 3 = Genesis • 4 = Macronix • 5 = MRT • 6 = Mstar • 7 = Myson • 8 = Philips • 9 = Pixelworks • 10 = RealTek • 11 = Sage • 12 = SiliconImage • 13 = SmartASIC • 14 = STMicroelectronics • 15 = Topro • 16 = Trumpion • 17 = WellTrend • 18 = Samsung • 19 = Novatek • 20 = STK • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
SerialNumber	Serial number of the monitor. Come from EDID.
SeparateSyncHVSupported	Separate Sync H & V Signals are supported.
sRGBStandardDefaultColorSpace	If this bit is set to 1, the display uses the sRGB standard default color space as its primary color space.
StandbyModeSupported	<p>This property represents if the video output device can go into a stand by mode.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Supported • 3 = Not Supported • .. = DMTF Reserved

Property	Description
SuspendModeSupported	<ul style="list-style-type: none"> • 32768..65535 = Vendor Reserved <p>This property represents if the video output device can go into a suspend mode.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Supported • 3 = Not Supported • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
SystemCreationClassName	The creation class name of the scoping system.
SystemName	The system name of the scoping system.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable — Indicates that the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>
VeryLowPowerSupported	<p>This property represents if the video output device can go into a low power mode.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Supported • 3 = Not Supported • .. = DMTF Reserved

Property	Description
	<ul style="list-style-type: none"> 32768..65535 = Vendor Reserved

DCIM_DHCPProtocolEndpoint

Property	Description
ClientState	<p>ClientState represents the current state of the DHCP client. See RFC1541 for more information on the meaning of each state.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown 1 = DMTF Reserved 2 = Init 3 = Selecting 4 = Requesting 5 = Rebinding 6 = Init-Reboot 7 = Rebooting 8 = Bound 9..32767 = DMTF Reserved 32768..65535 = Vendor specified
CreationClassName	<p>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.</p>
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 2 = Enabled 3 = Disabled 5 = Not Applicable 6 = Enabled but Offline 7 = No Default 9 = Quiesce .. = DMTF Reserved

Property	Description
	<ul style="list-style-type: none"> 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown 1 = Other 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. 5 = Not Applicable — Indicates the element does not support being enabled or disabled. 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. 7 = In Test — Indicates that the element is in a test state. 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. 11..32767 = DMTF Reserved 32768..65535 = Vendor Reserved
Name	<p>A string that identifies this ProtocolEndpoint with either a port or an interface on a device. To ensure uniqueness, the Name property should be prepended or appended with information from the Type or OtherTypeDescription properties. The method selected is described in the NameFormat property of this class.</p>
NameFormat	<p>Contains the naming heuristic that is selected to ensure that the value of the Name property is unique. For example, you may choose to prepend the name of the port or interface with the Type of ProtocolEndpoint (for example, IPv4) of this instance followed by an underscore.</p>
OtherTypeDescription	<p>A string that describes the type of ProtocolEndpoint when the Type property of this class (or any of its subclasses) is set to 1 (Other). This property should be set to null when the Type property is any value other than 1.</p>

Property	Description
ProtocolIFType	<p>An enumeration that is synchronized with the IANA ifType MIB. The ifType MIB is maintained at the URL, iana.org/assignments/ianaiftype-mib. Also, additional values defined by the DMTF are included. The property is used to categorize and classify instances of the ProtocolEndpoint class.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Regular 1822 • 3 = HDH 1822 • 4 = DDN X.25 • 5 = RFC877 X.25 • 6 = Ethernet CSMA/CD • 7 = ISO 802.3 CSMA/CD • 8 = ISO 802.4 Token Bus • 9 = ISO 802.5 Token Ring • 10 = ISO 802.6 MAN • 11 = StarLAN • 12 = Proteon 10Mbit • 13 = Proteon 80Mbit • 14 = HyperChannel • 15 = FDDI • 16 = LAP-B • 17 = SDLC • 18 = DS1 • 19 = E1 • 20 = Basic ISDN • 21 = Primary ISDN • 22 = Proprietary Point-to-Point Serial • 23 = PPP • 24 = Software Loopback • 25 = EON • 26 = Ethernet 3Mbit • 27 = NSIP • 28 = SLIP • 29 = Ultra • 30 = DS3 • 31 = SIP • 32 = Frame Relay • 33 = RS-232 • 34 = Parallel • 35 = ARCNet • 36 = ARCNet Plus • 37 = ATM • 38 = MIO X.25




Property	Description
	<ul style="list-style-type: none"> • 39 = SONET • 40 = X.25 PLE • 41 = ISO 802.211c • 42 = LocalTalk • 43 = SMDS DXI • 44 = Frame Relay Service • 45 = V.35 • 46 = HSSI • 47 = HIPPI • 48 = Modem • 49 = AAL5 • 50 = SONET Path • 51 = SONET VT • 52 = SMDS ICIP • 53 = Proprietary Virtual/Internal • 54 = Proprietary Multiplexor • 55 = IEEE 802.12 • 56 = Fibre Channel • 57 = HIPPI Interface • 58 = Frame Relay Interconnect • 59 = ATM Emulated LAN for 802.3 • 60 = ATM Emulated LAN for 802.5 • 61 = ATM Emulated Circuit • 62 = Fast Ethernet (100BaseT) • 63 = ISDN • 64 = V.11 • 65 = V.36 • 66 = G703 at 64K • 67 = G703 at 2Mb • 68 = QLLC • 69 = Fast Ethernet 100BaseFX • 70 = Channel • 71 = IEEE 802.11 • 72 = IBM 260/370 OEMI Channel • 73 = ESCON • 74 = Data Link Switching • 75 = ISDN S/T Interface • 76 = ISDN U Interface • 77 = LAP-D • 78 = IP Switch • 79 = Remote Source Route Bridging • 80 = ATM Logical • 81 = DS0 • 82 = DS0 Bundle • 83 = BSC

Property	Description
	<ul style="list-style-type: none"> • 84 = Async • 85 = Combat Net Radio • 86 = ISO 802.5r DTR • 87 = Ext Pos Loc Report System • 88 = AppleTalk Remote Access Protocol • 89 = Proprietary Connectionless • 90 = ITU X.29 Host PAD • 91 = ITU X.3 Terminal PAD • 92 = Frame Relay MPI • 93 = ITU X.213 • 94 = ADSL • 95 = RADSL • 96 = SDSL • 97 = VDSL • 98 = ISO 802.5 CRFP • 99 = Myrinet • 100 = Voice Receive and Transmit • 101 = Voice Foreign Exchange Office • 102 = Voice Foreign Exchange Service • 103 = Voice Encapsulation • 104 = Voice over IP • 105 = ATM DXI • 106 = ATM FUNI • 107 = ATM IMA • 108 = PPP Multilink Bundle • 109 = IP over CDLC • 110 = IP over CLAW • 111 = Stack to Stack • 112 = Virtual IP Address • 113 = MPC • 114 = IP over ATM • 115 = ISO 802.5j Fibre Token Ring • 116 = TDLC • 117 = Gigabit Ethernet • 118 = HDLC • 119 = LAP-F • 120 = V.37 • 121 = X.25 MLP • 122 = X.25 Hunt Group • 123 = Transp HDLC • 124 = Interleave Channel • 125 = FAST Channel • 126 = IP (for APPN HPR in IP Networks) • 127 = CATV MAC Layer • 128 = CATV Downstream

Property	Description
	<ul style="list-style-type: none"> • 129 = CATV Upstream • 130 = Avalon 12MPP Switch • 131 = Tunnel • 132 = Coffee • 133 = Circuit Emulation Service • 134 = ATM SubInterface • 135 = Layer 2 VLAN using 802.1Q • 136 = Layer 3 VLAN using IP • 137 = Layer 3 VLAN using IPX • 138 = Digital Power Line • 139 = Multimedia Mail over IP • 140 = DTM • 141 = DCN • 142 = IP Forwarding • 143 = MSDSL • 144 = IEEE 1394 • 145 = IF-GSN/HIPPI-6400 • 146 = DVB-RCC MAC Layer • 147 = DVB-RCC Downstream • 148 = DVB-RCC Upstream • 149 = ATM Virtual • 150 = MPLS Tunnel • 151 = SRP • 152 = Voice over ATM • 153 = Voice over Frame Relay • 154 = ISDL • 155 = Composite Link • 156 = SS7 Signaling Link • 157 = Proprietary P2P Wireless • 158 = Frame Forward • 159 = RFC1483 Multiprotocol over ATM • 160 = USB • 161 = IEEE 802.3ad Link Aggregate • 162 = BGP Policy Accounting • 163 = FRF .16 Multilink FR • 164 = H.323 Gatekeeper • 165 = H.323 Proxy • 166 = MPLS • 167 = Multi-Frequency Signaling Link • 168 = HDSL-2 • 169 = S-HDSL • 170 = DS1 Facility Data Link • 171 = Packet over SONET/SDH • 172 = DVB-ASI Input • 173 = DVB-ASI Output


Property	Description
	<ul style="list-style-type: none"> • 174 = Power Line • 175 = Non Facility Associated Signaling • 176 = TR008 • 177 = GR303 RDT • 178 = GR303 IDT • 179 = ISUP • 180 = Proprietary Wireless MAC Layer • 181 = Proprietary Wireless Downstream • 182 = Proprietary Wireless Upstream • 183 = HIPERLAN Type 2 • 184 = Proprietary Broadband Wireless Access Point to Multipoint • 185 = SONET Overhead Channel • 186 = Digital Wrapper Overhead Channel • 187 = ATM Adaptation Layer 2 • 188 = Radio MAC • 189 = ATM Radio • 190 = Inter Machine Trunk • 191 = MVL DSL • 192 = Long Read DSL • 193 = Frame Relay DLCI Endpoint • 194 = ATM VCI Endpoint • 195 = Optical Channel • 196 = Optical Transport • 197 = Proprietary ATM • 198 = Voice over Cable • 199 = Infiniband • 200 = TE Link • 201 = Q.2931 • 202 = Virtual Trunk Group • 203 = SIP Trunk Group • 204 = SIP Signaling • 205 = CATV Upstream Channel • 206 = Eiconet • 207 = FSAN 155Mb PON • 208 = FSAN 622Mb PON • 209 = Transparent Bridge • 210 = Line Group • 211 = Voice E&M Feature Group • 212 = Voice FGD EANA • 213 = Voice DID • 214 = MPEG Transport • 215 = 6To4 • 216 = GTP • 217 = Paradyne EtherLoop 1 • 218 = Paradyne EtherLoop 2

Property	Description
	<ul style="list-style-type: none"> • 219 = Optical Channel Group • 220 = HomePNA • 221 = GFP • 222 = ciscoSLvlan • 223 = actelisMetaLOOP • 224 = Fcip • 225..4095 = IANA Reserved • 4096 = IPv4 • 4097 = IPv6 • 4098 = IPv4/v6 • 4099 = IPX • 4100 = DECnet • 4101 = SNA • 4102 = CONP • 4103 = CLNP • 4104 = VINES • 4105 = XNS • 4106 = ISDN B Channel Endpoint • 4107 = ISDN D Channel Endpoint • 4108 = BGP • 4109 = OSPF • 4110 = UDP • 4111 = TCP • 4112 = 802.11a • 4113 = 802.11b • 4114 = 802.11g • 4115 = 802.11h • 4200 = NFS • 4201 = CIFS • 4202 = DAFS • 4203 = WebDAV • 4204 = HTTP • 4205 = FTP • 4300 = NDMP • 4400 = Telnet • 4401 = SSH • 4402 = SM CLP • 4403 = SMTP • 4404 = LDAP • 4405 = RDP • 4406 = HTTPS • .. = DMTF Reserved • 32768.. = Vendor Reserved


Property	Description
RequestedState	<p data-bbox="651 249 1402 331"> NOTE: If the ProtocolType is set to 1 (Other), then the type information should be provided in the OtherTypeDescription string property.</p> <p data-bbox="651 359 1402 489">An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states.</p> <p data-bbox="651 516 1402 627"> NOTE: When EnabledState is set to 5 (Not Applicable), then this property has no meaning. See the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p data-bbox="651 655 1402 787"> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p data-bbox="651 814 1402 858">There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11).</p> <p data-bbox="651 886 1402 1203">Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests. This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code. If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p> <p data-bbox="651 1230 863 1255">Possible values are:</p> <ul data-bbox="651 1283 1402 1785" style="list-style-type: none"> <li data-bbox="651 1283 1402 1327">• 0 = Unknown — Indicates the last requested state for the element is unknown. <li data-bbox="651 1346 820 1371">• 2 = Enabled <li data-bbox="651 1379 825 1404">• 3 = Disabled <li data-bbox="651 1413 852 1438">• 4 = Shut Down <li data-bbox="651 1446 855 1472">• 5 = No Change <li data-bbox="651 1480 1402 1524">• 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. <li data-bbox="651 1533 775 1558">• 7 = Test <li data-bbox="651 1566 828 1591">• 8 = Deferred <li data-bbox="651 1600 820 1625">• 9 = Quiesce <li data-bbox="651 1633 1402 1688">• 10 = Reboot — Refers to performing a Shut Down and then moving to an Enabled state. <li data-bbox="651 1696 1402 1751">• 11 = Reset — Indicates that the element is first Disabled and then Enabled. <li data-bbox="651 1759 903 1785">• 12 = Not Applicable

Property	Description
	<ul style="list-style-type: none"> .. = DMTF Reserved 32768..65535 = Vendor Reserved
SystemCreationClassName	The CreationClassName of the scoping System.
SystemName	The Name of the scoping System.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown 2 = Enabled 3 = Disabled 4 = Shut Down 5 = No Change — Indicates that no transition is in progress. 6 = Offline 7 = Test 8 = Defer 9 = Quiesce 10 = Reboot 11 = Reset 12 = Not Applicable — Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_EthernetPort


Property	Description
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.
DeviceID	An address or other identifying information used to uniquely name the LogicalDevice.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>

Property	Description
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element does not run commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of moving to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. Starting (10) indicates that the element is in the process of going to an Enabled state. New requests are queued. • 10 = Starting • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved
Linktechnology	<p>An enumeration of the types of links. When set to 1 (Other), the related property OtherLinkTechnology contains a string description of the type of link.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown

Property	Description
	<ul style="list-style-type: none"> • 1 = Other • 2 = Ethernet • 3 = IB • 4 = FC • 5 = FDDI • 6 = ATM • 7 = Token Ring • 8 = Frame Relay • 9 = Infrared • 10 = Bluetooth • 11 = Wireless LAN
Name	<p>The Name property defines the label by which the object is known. When subclassed, the Name property can be overridden to be a Key property.</p>
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states. Note that when EnabledState is set to 5 (Not Applicable), then this property has no meaning. See the EnabledState property description for explanations of the values in the RequestedState enumeration. Unknown (0) indicates the last requested state for the element is unknown.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5). There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11).</p> <p>Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests. This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code. If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState.


Property	Description
	<ul style="list-style-type: none"> • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to performing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
SystemCreationClassName	The creation classname of the scoping system.
SystemName	The system name of the scoping system.
TOEEnabledState	<p>An integer enumeration that indicates the enabled and disabled states of the TOE.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the TOE is enabled and running. • 3 = Disabled — Indicates that the TOE is disabled. • 4 = Not Applicable — Indicates that the ethernet port does not have TOE capability. • 5..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable — Indicates that the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_FlatPanel

Property	Description
Brightness	<p>The percentage (0 – 100) of total brightness of the video output device for system running on battery and AC power. The property is in the format <code>BatteryBrightness:ACBrightness BuiltIn</code> Defines whether the video output device is built in. True indicates that flat panel is directly attached to a portable computer and False means that flat panel is externally connected through graphics cable (such as VGA) to a computer.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 0 = Unknown• 2 = True• 3 = False• .. = DMTF Reserved• 32768..65535 = Vendor Reserved
CreationClassName	<p>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.</p>
DeviceID	<p>An address or other identifying information used to uniquely name the LogicalDevice.</p>
DisplayType	<p>An integer enumeration describing the type of flat panel display.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 0 = Unknown• 1 = Other• 2 = Passive Matrix LCD• 3 = Active Matrix LCD• 4 = Cholesteric LCD• 5 = Field Emission Display• 6 = Electro Luminescent Display• 7 = Gas Plasma 8 = LED
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>

Property	Description
HorizontalResolution	The horizontal resolution in Pixels of the flat panel.
MaxQuiesceTime	The use of this property has been deprecated. When evaluating the use of Quiesce , it was determined that this single property is not adequate for describing when a device will automatically exit a quiescent state. In fact, the most likely scenario for a device to exit a quiescent state was determined to be based on the number of outstanding requests queued rather than on a maximum time. This decision will be re-evaluated and repositioned later. Depreciated description: Maximum time, in milliseconds, that a Device can run in a Quiesced state. The state is defined in its Availability and Additional Availability properties, where Quiesced is conveyed by the value 21 . What occurs at the end of the time limit is device-specific. The Device can unquiesce, can be offline, or can take other actions. A value of 0 indicates that a Device can remain quiesced indefinitely.
ScanMode	The scan mode of a flat panel indicating either single (value = 2) or dual scan 3 . Possible values are: <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Single Scan • 3 = Dual Scan
SystemCreationClassName	The creation class name of the scoping system.
SystemName	The system name of the scoping system.
TransitioningToState	Indicates the target state to which the instance is transitioning. Possible values are: <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change – Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable – Indicates that the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>
VerticalResolution	Vertical resolution in Pixels of a flat panel.


DCIM_IPProtocolEndpoint


Property	Description
AddressOrigin	<p>Identifies the method by which the IP Address, Subnet Mask, and Gateway were assigned to the IPProtocolEndpoint.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 0 = Unknown• 1 = Other• 2 = Not Applicable• 3 = Static — Indicates the values were assigned manually.• 4 = DHCP — Indicates the values were assigned utilizing the Dynamic Host Configuration Protocol. See RFC 2131 and related.• 5 = BOOTP — Indicates the values were assigned utilizing BOOTP. See RFC 951 and related.• 6 = IPv4 Link Local — Indicates the values were assigned using the IPv4 Link Local protocol. See RFC 3927.• 7 = DHCPv6 — Indicates the values were assigned using DHCPv6. See RFC 3315.• 8 = IPv6AutoConfig — Indicates the values were assigned using the IPv6 AutoConfig Protocol. See RFC 4862.• .. = DMTF Reserved• 32768..65535 = Vendor Reserved
CreationClassName	<p>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.</p>
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often sub-classed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>

Property	Description
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2) .</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved

Property	Description
	For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.
IPv4Address	The IPv4 address that this ProtocolEndpoint represents.
IPv6Address	The IPv6 address that this ProtocolEndpoint represents.
IPv6AddressType	Identifies the type of address found in the IPv6Address property. The values of this property are interpreted according to RFC4291, Section 2.4 Possible values are: <ul style="list-style-type: none"> • 2 = Unspecified • 3 = Loopback • 4 = Multicast • 5 = Link Local Unicast • 6 = Global Unicast • 7 = Embedded IPv4 Address • 8 = Site Local Unicast • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
IPv6SubnetPrefixLength	Identifies the prefix length of the IPv6Address property that is used to specify a subnet
IPVersionSupport	This property explicitly defines support for different versions of the IP protocol, for this Endpoint. It is deprecated since the ProtocolIFType also provides this functionality by describing an endpoint as IPv4 only (value = 4096), IPv6 only (value = 4097), or IPv4/v6 (value = 4098). Possible values are: <ul style="list-style-type: none"> • 0 = Unknown • 1 = IPv4 Only • 2 = IPv6 Only • 3 = Both IPv4 and IPv6
Name	A string that identifies this ProtocolEndpoint with either a port or an interface on a device. To ensure uniqueness, the Name property should be prepended or appended with information from the Type or OtherTypeDescription properties. The method selected is described in the NameFormat property of this class.

Property	Description
NameFormat	Contains the naming heuristic that is selected to ensure that the value of the Name property is unique. For example, you may choose to prepend the name of the port or interface with the Type of ProtocolEndpoint (for example, IPv4) of this instance followed by an underscore.
ProtocolIFType	ProtocolIFType's enumeration is limited to IP-related and reserved values for this subclass of ProtocolEndpoint. Possible values are: <ul style="list-style-type: none"> • 1 = Other • 225..4095 = IANA • Reserved 4096 = IPv4 • 4097 = IPv6 • 4098 = IPv4/v6 • 4301..32767 = DMTF Reserved • 32768.. = Vendor Reserved
ProtocolType	This property is deprecated instead of the ProtocolIFType enumeration. This deprecation was done to have better alignment between the IF-MIB of the IETF and this CIM class. Deprecation description: ProtocolType is an enumeration that provides information to categorize and classify different instances of this class. For most instances, information in this enumeration and the definition of the subclass overlap. However, there are several cases where a specific subclass of ProtocolEndpoint is not required (for example, there is no Fibre Channel subclass of ProtocolEndpoint). Therefore, this property is needed to define the type of Endpoint. Possible values are: <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = IPv4 • 3 = IPv6 • 4 = IPX • 5 = AppleTalk • 6 = DECnet • 7 = SNA • 8 = CONP • 9 = CLNP • 10 = VINES • 11 = XNS • 12 = ATM • 13 = Frame Relay


Property	Description
RequestedState	<ul style="list-style-type: none"> • 14 = Ethernet • 15 = TokenRing • 16 = FDDI • 17 = Infiniband • 18 = Fibre Channel • 19 = ISDN BRI Endpoint • 20 = ISDN B Channel Endpoint • 21 = ISDN D Channel Endpoint • 22 = IPv4/v6 • 23 = BGP • 24 = OSPF • 25 = MPLS • 26 = UDP • 27 = TCP <p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to performing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p> NOTE: When EnabledState is set to 5 (Not Applicable), then this property has no meaning. See the EnabledState property description for explanations of the values in the RequestedState enumeration.</p>

Property	Description
Status	<p data-bbox="828 247 1401 533">  NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5). There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11). </p> <p data-bbox="828 552 1401 974"> Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests. This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code. If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or have the value 12 Not Applicable. </p> <p data-bbox="828 1010 1401 1167"> A string indicating the current status of the object. Various operational and non-operational statuses are defined. This property is deprecated instead of OperationalStatus, which includes the same semantics in its enumeration. This change is made for the following reasons: </p> <ul data-bbox="828 1192 1401 1598" style="list-style-type: none"> <li data-bbox="828 1192 1401 1314">• Status is more correctly defined as an array. This definition overcomes the limitation of describing status using a single value, when it is really a multi-valued property (for example, an element may be OK AND Stopped). <li data-bbox="828 1325 1401 1373">• A MaxLen of 10 is too restrictive and leads to unclear enumerated values. <li data-bbox="828 1383 1401 1598">• The change to a uint16 data type was discussed when CIM V2.0 was defined. However, existing V1.0 implementations used the string property and did not want to modify their code. Therefore, Status was grandfathered into the Schema. Use of the deprecated qualifier allows the maintenance of the existing property, but also permits an improved definition using OperationalStatus. <p data-bbox="828 1623 1038 1650">Possible values are:</p> <ul data-bbox="828 1675 975 1801" style="list-style-type: none"> <li data-bbox="828 1675 903 1703">• OK <li data-bbox="828 1713 922 1740">• Error <li data-bbox="828 1751 975 1778">• Degraded <li data-bbox="828 1789 975 1816">• Unknown

Property	Description
	<ul style="list-style-type: none"> • Pred Fail • Starting • Stopping • Service • Stressed • NonRecover • No Contact • Lost • Comm • Stopped
SubnetMask	The mask for the IPv4 address of this ProtocolEndpoint, if one is defined.
SystemCreationClassName	The creation class name of the scoping System.
SystemName	The Name of the scoping System.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable — Indicates that the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>


DCIM_ControllerView

Property	Description
BusType	The property represents the type of the PCI bus.


Property	Description
	<p>Possible values are:</p> <ul style="list-style-type: none"> • 0 =Unknown • 3 = PCI Bus • 4 = PCMCIA Bus • 0x8000 = DMTF Reserved • 0xffff = Vendor Reserved
ControllerFirmwareVersion	This property represents the firmware version.
Device	This property represents the device name.
Driver Version	This property represents the version of the driver.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often sub-classed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
InstanceID	This property contains the value of the Fully Qualified Device Description (FQDD).
PrimaryStatus	<p>This property represents the status of the device.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = OK • 2 = Degraded • 3 = Error
ProductName	This property represents the family name of the controller.

DCIM_PhysicalDiskView

Property	Description
ElementName	A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.

Property	Description
	 NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often sub-classed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.
InstanceID	The property contains the value of the Fully Qualified Device Description (FQDD).
PrimaryStatus	<p>This property represents the status of the device.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = OK • 2 = Degraded • 3 = Error • 4 = Rebuilding • 5 = Offline • 0x8000 = DMTF Reserved • 0xFFFF = Vendor Reserved
DriveUsage	<p>This property indicates if the physical disk is in a RAID set.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Not in a RAID Set • 1 = In a RAID Set • 2 = Hot Spare
Model	This property represents the model name of the physical disk.
SerialNumber	This property represents the serial number of the physical disk.
DriveAFStatus	<p>This property indicates if the physical disk is an advanced format drive.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 - Non AF Drive • 1 - AF Drive • 2 - Unknown


DCIM_VirtualDiskView

Property	Description
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often sub-classed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
InstanceID	<p>The property contains the value of the Fully Qualified Device Description (FQDD).</p>
PrimaryStatus	<p>This property represents the status of the device.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 0 = Unknown• 1 = OK• 2 = Degraded• 3 = Error• 4 = Rebuilding• 5 = Offline
RAIDStatus	<p>This property represents the RAID specific status.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 0 = Unknown• 1 = Ready• 2 = Online• 3 = Foreign• 4 = Offline• 5 = Blocked• 6 = Failed• 7 = Degraded• 8 = Rebuilding
RAIDTypes	<p>This property represents the current RAID level.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 1 = No RAID• 2 = RAID-0

Property	Description
	<ul style="list-style-type: none"> • 4 = RAID-1 • 64 = RAID-5 • 128 = RAID- 6 • 2048 = RAID-10 • 8192 = RAID-50 • 16384 = RAID- 60
SizeinMegabytes	The property represents the size of the virtual disk in megabytes.
StripeSize	<p>This property represents the current strip size.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Default • 1 = 512Bytes • 2 = 1KB • 4 = 2KB • 8 = 4 KB • 16 = 8 kB • 32 = 16 KB • 64 = 32 KB • 128 = 64 KB • 256 = 128 KB • 512 = 256 KB • 1024 = 512 KB • 2048 = 1 MB • 4096 = 2 MB • 8192 = 4 MB • 16384 = 8 MB • 32768 = 16 MB
PhysicalDiskIDs	The property represents the array of physical disk FQDDs.

DCIM_PhysicalMemory

Property	Description
BankLabel	A string identifying the physically labeled bank where the Memory is located. For example, Bank 0 or Bank A .
CanBeFRUed	Boolean that indicates whether this PhysicalElement can be FRUed (TRUE) or not (FALSE).
Capacity	The total capacity of this PhysicalMemory, in bytes.


Property	Description
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.
DataWidth	Data width of the PhysicalMemory, in bits. A data width of 0 and a TotalWidth of 8 would indicate that the Memory is solely used to provide error correction bits.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often sub-classed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
FormFactor	<p>The implementation form factor for the Chip.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = SIP • 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


Property	Description
	<ul style="list-style-type: none"> • 21 = BGA • 22 = FPBGA • 23 = LGA <p>For example, values such as SIMM (7), TSOP (9), or PGA (10) can be specified.</p>
IsSpeedInMhz	<p>Indicates if the Speed property or the MaxMemorySpeed contains the value of the memory speed. A value of TRUE indicates that the speed is represented by the MaxMemorySpeed property. A value of FALSE indicates that the speed is represented by the Speed property.</p>
ManufactureDate	<p>The date this PhysicalElement was manufactured.</p>
Manufacturer	<p>The name of the organization responsible for producing the PhysicalElement. This organization may be the entity from where the Element is purchased, but this is not necessarily true. The latter information is contained in the Vendor property of CIM_Product.</p>
MemoryType	<p>The type of PhysicalMemory. Synchronous DRAM is also known as SDRAM. Cache DRAM is also known as CDRAM. BRAM is also known as Block RAM.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = DRAM • 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

Property	Description
	<ul style="list-style-type: none"> • 21 = DDR-2 • 22 = BRAM • 23 = FB-DIMM • 24 = DDR3 • 25 = FBD2 • 26..32567 = DMTF Reserved • 32568..65535 = Vendor Reserved
Model	The name by which the PhysicalElement is generally known.
PartNumber	The part number assigned by the organization that is responsible for producing or manufacturing the PhysicalElement.
SerialNumber	A manufacturer-allocated number used to identify the Physical Element.
SKU	The stock-keeping unit number for this PhysicalElement.
Speed	The speed of the PhysicalMemory, in nanoseconds.
Tag	An arbitrary string that uniquely identifies the Physical Element and serves as the key of the Element. The Tag property can contain information such as asset tag or serial number data. The key for PhysicalElement is placed very high in the object hierarchy to independently identify the hardware or entity, regardless of 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 can even be inserted into a different scoping container. Therefore, the key for Physical Element is an arbitrary string and is defined independently of any placement or location-oriented hierarchy.

DCIM_PhysicalPackage

Property	Description
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	Description
ElementName	<p>property allows all instances of this class and its subclasses to be uniquely identified.</p> <p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
ManufactureDate	<p>The date that this PhysicalElement was manufactured.</p>
Manufacturer	<p>The name of the organization responsible for producing the PhysicalElement. This organization may be the entity from whom the Element is purchased, but this is not necessarily true. The latter information is contained in the Vendor property of CIM_Product.</p>
Model	<p>The name by which the PhysicalElement is generally known.</p>
Name	<p>The Name property defines the label by which the object is known. When subclassed, the Name property can be overridden to be a Key property.</p>
OtherPackageType	<p>A string describing the package when the instance's PackageType property is 1 (Other).</p>
PackageType	<p>Enumeration defining the type of the PhysicalPackage.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates that the package type is not known. • 1 = Other — The package type does not correspond to an existing enumerated value. The value is specified using the OtherPackageType property. • 2 = Rack • 3 = Chassis/Frame • 4 = Cross Connect/Backplane • 5 = Container/Frame Slot • 6 = Power Supply

Property	Description
	<ul style="list-style-type: none"> • 7 = Fan • 8 = Sensor • 9 = Module/Card • 10 = Port/Connector • 11 = Battery • 12 = Processor • 13 = Memory • 14 = Power Source/Generator • 15 = Storage Media Package (example, Disk or Tape Drive) • 16 = Blade • 17 = Blade Expansion <p> NOTE: This enumeration expands on the list in the Entity MIB (the attribute, entPhysicalClass). The numeric values are consistent with CIM's enum numbering guidelines, but are slightly different than the MIB's values. The values Rack through Port/Connector are defined per the Entity-MIB (where the semantics of rack are equivalent to the MIB's stack value). The other values (for battery, processor, memory, power source/generator and storage media package) are self-explanatory.</p> <p>A value of Blade should be used when the PhysicalPackage contains the operational hardware aspects of a ComputerSystem, without the supporting mechanicals such as power and cooling. For example, a Blade Server includes processor(s) and memory, and relies on the containing chassis to supply power and cooling. In many respects, a Blade can be considered a Module/Card. However, it is tracked differently by inventory systems and differs in terms of service philosophy. For example, a Blade is intended to be hot-plugged into a hosting enclosure without requiring additional cabling, and does not require a cover to be removed from the enclosure for installation. Similarly, a Blade Expansion has characteristics of a Blade and a Module/Card. However, it is distinct from both due to inventory tracking and service philosophy, and because of its hardware dependence on a Blade. A Blade Expansion must be attached to a Blade prior to inserting the resultant assembly into an enclosure.</p>
PartNumber	The part number assigned by the organization that is responsible for producing or manufacturing the PhysicalElement.


Property	Description
SerialNumber	A manufacturer-allocated number used to identify the Physical Element.
SKU	The stock-keeping unit number for this PhysicalElement.
Tag	An arbitrary string that uniquely identifies the Physical Element and serves as the key of the Element. The Tag property can contain information such as asset tag or serial number data. The key for PhysicalElement is placed very high in the object hierarchy in order to independently identify the hardware or entity, regardless of 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 can even be inserted into a different scoping container. Therefore, the key for Physical Element is an arbitrary string and is defined independently of any placement or location-oriented hierarchy.
Version	A string that indicates the version of the PhysicalElement.

DCIM_ParallelPort

Property	Description
BaseIOAddress	An integer value that represents the base I/O address used by the parallel port.
ConnectorType	<p>ConnectorType is defined to force consistent naming of the 'connector type' property in subclasses and to guarantee unique enum values for all instances of ParallelPort. When set to 3 (Proprietary), the related property OtherConnectorType contains a string description of the type of port.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Centronics • 2 = Mini-Centronics • 3 = Proprietary • 4 = DB-25 Female • 5 = DB-25 Male • .. = DMTF Reserved • 32768.. = Vendor Reserved


Property	Description
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.
DeviceID	An address or other identifying information used to uniquely name the LogicalDevice.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value= 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process

Property	Description
IRQLevel	<p>any queued commands, and queues new requests.</p> <ul style="list-style-type: none"> • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. Starting (10) indicates that the element is in the process of going to an Enabled state. New requests are queued. • 10 = Starting • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved <p>An integer value that represents the IRQ level used by the parallel port.</p>
Pinout	<p>The pinout used by the I/O device on this parallel port.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = XT/AT • 2 = PS/2 • 3 = ECP • 4 = EPP • 5 = IEEE 1284 • 25 = PC-98 • 26 = PC-98-Hireso • .. = DMTF Reserved
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states. Note that when EnabledState is set to 5 (Not Applicable), then this</p>


Property	Description
	<p>property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration. Unknown (0) indicates the last requested state for the element is unknown.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5). Offline (6) indicates that the element has been requested to transition to the Enabled but Offline EnabledState. There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11). Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests. This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code. If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the pro</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved


Property	Description
Security	<ul style="list-style-type: none"> • 32768..65535 = Vendor Reserved <p>An enumeration indicating the operational security for the Controller. For example, information that the Device's external interface is locked out (valuemap = 3) or Boot Bypass (valuemap = 5) can be described using this property.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = None • 3 = External Interface Locked Out • 4 = External Interface Enabled • 5 = Boot Bypass • .. = DMTF Reserved • 32768.. = Vendor Reserved
Speed	The bandwidth of the Port in Bits per Second.
SystemCreationClassName	The creation class name of the scoping system.
SystemName	The system name of the scoping system.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable — Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_RemoteServiceAccessPoint

Property	Description
AccessContext	<p>The AccessContext property identifies the role this RemoteServiceAccessPoint is playing in the hosting system.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 0 = Unknown• 1 = Other• 2 = Default Gateway• 3 = DNS Server• 4 = SNMP Trap Destination• 5 = MPLS Tunnel Destination• 6 = DHCP Server• 7 = SMTP Server• 8 = LDAP Server• 9 = Network Time Protocol (NTP) Server• .. = DMTF Reserved• 32768..65535 = Vendor Reserved
AccessInfo	<p>Access or addressing information or a combination of this information for a remote connection. This information can be a host name, network address, or similar information.</p>
CreationClassName	<p>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.</p>
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often sub-classed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p>

Property	Description
EnabledState	<p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved <p>For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p>

Property	Description
InfoFormat	<p>An enumerated integer that describes the format and interpretation of the AccessInfo property.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 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 = IPv4 Subnet Address • 11 = IPv6 Subnet Address • 12 = IPv4 Address Range • 13 = IPv6 Address Range • 100 = Dial String • 101 = Ethernet Address • 102 = Token Ring Address • 103 = ATM Address • 104 = Frame Relay Address • 200 = URL 201 = FQDN • 202 = User FQDN • 203 = DER ASN1 DN • 204 = DER ASN1 GN • 205 = Key ID .. = DMTF Reserved • 32768..65535 = Vendor Reserved
Name	<p>The Name property uniquely identifies the ServiceAccessPoint and provides an indication of the functionality that is managed. This functionality is described in more detail in the Description property of the object.</p>
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states.</p> <p> NOTE: When EnabledState is set to 5 (Not Applicable), then this property has no meaning. See the EnabledState property description for explanations of the values in the RequestedState enumeration.</p>

Property	Description
	<p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11).</p> <p>Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests. This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code. If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
SystemCreationClassName	The CreationClassName of the scoping System.

Property	Description
SystemName	The Name of the scoping System.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning. A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change – Indicates that no transition is in-progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable – Indicates the implementation does not support representing ongoing transitions


DCIM_Slot

Property	Description
ConnectorLayout	<p>Describes the type of packaging normally associated with this type of connector.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = RS232 • 3 = BNC • 4 = RJ11 • 5 = RJ45 • 6 = DB9 • 7 = Slot • 8 = SCSI High Density • 9 = SCSI Low Density • 10 = Ribbon • 11 = AUI • 12 = Fiber SC • 13 = Fiber ST • 14 = FDDI-MIC • 15 = Fiber-RTMJ

Property	Description
ConnectorType	<ul style="list-style-type: none"> • 16 = PCI — Describes the generic PCI connector layout. • 17 = PCI-X — Describes the PCI Extended connector layout. • 18 = PCI-E — Describes the PCI Express connector layout, where the actual layout with respect to the length is unknown. • 19 = PCI-E x1 • 20 = PCI-E x2 • 21 = PCI-E x4 • 22 = PCI-E x8 • 23 = PCI-E x16 • 24 = PCI-E x32 • 25 = PCI-E x64 • 26..32567 = DMTF Reserved • 32568..65535 = Vendor Reserved <p>19 — 25 (PCI-E xN) — Describes the PCI Express connector layout, where N is the lane count that appropriately describes the length of the PCI-E connector.</p> <p>An array of integers defining the type of PhysicalConnector. An array is specified to allow the description of combinations of Connector information.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Male • 3 = Female • 4 = Shielded • 5 = Unshielded • 6 = SCSI (A) High-Density (50 pins) • 7 = SCSI (A) Low-Density (50 pins) • 8 = SCSI (P) High-Density (68 pins) • 9 = SCSI SCA-I (80 pins) • 10 = SCSI SCA-II (80 pins) • 11 = Fibre Channel (DB-9, Copper) • 12 = Fibre Channel (Optical Fibre) • 13 = Fibre Channel SCA-II (40 pins) • 14 = Fibre Channel SCA-II (20 pins) • 15 = Fibre Channel BNC • 16 = ATA 3-1/2 Inch (40 pins) • 17 = ATA 2-1/2 Inch (44 pins) • 18 = ATA-2 • 19 = ATA-3 • 20 = ATA/66

Property	Description
	<ul style="list-style-type: none"> • 21 = DB-9 • 22 = DB-15 • 23 = DB-25 • 24 = DB-36 • 25 = RS-232C • 26 = RS-422 • 27 = RS-423 • 28 = RS-485 • 29 = RS-449 • 30 = V.35 • 31 = X.21 • 32 = IEEE-488 • 33 = AUI • 34 = UPT Category 3 • 35 = UPT Category 4 • 36 = UPT Category 5 • 37 = BNC • 38 = RJ11 • 39 = RJ45 • 40 = Fiber MIC • 41 = Apple AUI • 42 = Apple GeoPort • 43 = PCI • 44 = ISA • 45 = EISA • 46 = VESA • 47 = PCMCIA • 48 = PCMCIA Type I • 49 = PCMCIA Type II • 50 = PCMCIA Type III • 51 = ZV Port • 52 = CardBus • 53 = USB • 54 = IEEE 1394 • 55 = HIPPI • 56 = HSSDC (6 pins) • 57 = GBIC • 58 = DIN • 59 = Mini-DIN • 60 = Micro-DIN • 61 = PS/2 • 62 = Infrared • 63 = HP-HIL • 64 = Access.bus • 65 = NuBus

Property	Description
	<ul style="list-style-type: none"> • 66 = Centronics • 67 = Mini-Centronics • 68 = Mini-Centronics Type-14 • 69 = Mini-Centronics Type-20 • 70 = Mini-Centronics Type-26 • 71 = Bus Mouse • 72 = ADB • 73 = AGP • 74 = VME Bus • 75 = VME64 • 76 = Proprietary • 77 = Proprietary Processor Card Slot • 78 = Proprietary Memory Card Slot • 79 = Proprietary I/O Riser Slot • 80 = PCI-66MHZ • 81 = AGP2X • 82 = AGP4X • 83 = PC-98 • 84 = PC-98-Hireso • 85 = PC-H98 • 86 = PC-98Note • 87 = PC-98Full • 88 = SSA SCSI • 89 = Circular • 90 = On Board IDE Connector • 91 = On Board Floppy Connector • 92 = 9 Pin Dual Inline • 93 = 25 Pin Dual Inline • 94 = 50 Pin Dual Inline • 95 = 68 Pin Dual Inline • 96 = On Board Sound Connector • 97 = Mini-jack • 98 = PCI-X • 99 = Sbus IEEE 1396-1993 32 bit • 100 = Sbus IEEE 1396-1993 64 bit • 101 = MCA • 102 = GIO • 103 = XIO • 104 = HIO • 105 = NGIO • 106 = PMC • 107 = MTRJ • 108 = VF-45 • 109 = Future I/O • 110 = SC

Property	Description
	<ul style="list-style-type: none"> • 111 = SG • 112 = Electrical • 113 = Optical • 114 = Ribbon • 115 = GLM • 116 = 1x9 • 117 = Mini SG • 118 = LC • 119 = HSSC • 120 = VHDCI Shielded (68 pins) • 121 = InfiniBand • 122 = AGP8X <p>For example, one array entry could specify RS-232 (value = 25), another DB-25 (value = 23) and a third entry define the Connector as Male (value = 2). This single property is being deprecated instead of using separate properties to describe the various aspects of the connector. The separation allows for a more generic means of describing the connectors. Obsolete connectors were intentionally removed from the new list.</p>
CreationClassName	<p>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.</p>
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often sub-classed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
Number	<p>The Number property indicates the physical slot number, which can be used as an index into a system slot table, whether or not that slot is physically occupied.</p>
SupportsHotPlug	<p>Boolean indicating whether the Slot supports hot-plug of adapter Cards.</p>


Property	Description
Tag	An arbitrary string that uniquely identifies the Physical Element and serves as the key of the Element. The Tag property can contain information such as asset tag or serial number data. The key for PhysicalElement is placed very high in the object hierarchy to independently identify the hardware or entity, regardless of 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 can even be inserted into a different scoping container. Therefore, the key for Physical Element is an arbitrary string and is defined independently of any placement or location-oriented hierarchy.

VendorCompatibilityStrings

An array of strings that identify the components that are compatible and can be inserted in a slot. This allows vendors to provide clues to the system administrators by providing sufficient information to request the appropriate hardware that can populate the slot. To ensure uniqueness within the NameSpace, each value defined by the vendor for use in the VendorCompatibilityStrings property SHOULD be constructed using the following 'preferred' algorithm: : Where and are separated by a colon ':', and where MUST include a copyrighted, trademarked or otherwise unique name that is owned by the business entity creating/defining the InstanceID, or is a registered ID that is assigned to the business entity by a recognized global authority (This is similar to the _ structure of Schema class names.) In addition, to ensure uniqueness MUST NOT contain a colon ':'. When using this algorithm, the first colon to appear in InstanceID MUST appear between and . is chosen by the business entity and SHOULD not be re-used to identify different underlying (real-world) elements.

DCIM_SerialPort

Property	Description
BaseIOAddress	An integer value that represents the base I/O address used by the serial port. Caption The Caption property is a short textual description (one- line string) of the object.
ConnectorType	ConnectorType is defined to force consistent naming of the connector type property in subclasses and to guarantee unique enum values for all instances of SerialPort. When set to 1 (Other), related property OtherConnectorType


Property	Description
	<p>contains a string description of the type of port. A range of values, DMTF_Reserved, has been defined that allows subclasses to override and define their specific types of ports.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Not Applicable • 3..15999 = DMTF Reserved • 16003 = DB9Male • 16004 = DB9Female • 16005 = DB25Male1 • 16006 = DB25Female1 • 16007 = RJ11 • 16008 = RJ45 • 16009 = Proprietary • 16010 = CircularDIN8Male • 16011 = CircularDIN8Female • 16160 = MiniCentronicsType14 • 16161 = MiniCentronicsType26 • 16162..65535 = Vendor Reserved
CreationClassName	<p>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.</p>
DeviceID	<p>An address or other identifying information used to uniquely name the LogicalDevice.</p>
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>

Property	Description
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, processes any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not run commands and drops any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates that the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and drops any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but queues any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved

Property	Description
HealthState	<ul style="list-style-type: none"> • 32768..65535 = Vendor Reserved <p>Indicates the current health of the element. This attribute expresses the health of this element but not necessarily that of its subcomponents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — The implementation cannot report on HealthState now. DMTF has reserved the unused portion of the continuum for additional HealthStates in the future. • 5 = OK — The element is fully functional and is operating within normal operational parameters and without error. • 10 = Degraded/Warning — The element is in working order and all functionality is provided. However, the element is not working to the best of its abilities. For example, the element may not be operating at optimal performance or it may be reporting recoverable errors. • 15 = Minor failure — All functionality is available but some may be degraded. • 20 = Major failure — The element is failing. It is possible that some or all of the functionality of this component is degraded or not working. • 25 = Critical failure — The element is nonfunctional and recovery may not be possible. • 30 = Non-recoverable error • .. = DMTF Reserved — The element has failed, and recovery is not possible. All functionality provided by this element has been lost.
IRQLevel	<p>An integer value that represents the IRQ level used by the serial port.</p>
MaxSpeed	<p>The maximum bandwidth of the Port in Bits per Second.</p>
OperationalStatus	<p>Indicates the current statuses of the element. Various operational statuses are defined. Many of the enumeration's values are self-explanatory. However, a few are not and are described here in more detail.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = OK • 3 = Degraded • 4 = Stressed — Indicates that the element is functioning, but needs attention. Examples of Stressed states are overload, overheated, and so on.

Property	Description
	<ul style="list-style-type: none"> • 5 = Predictive Failure — Indicates that an element is functioning nominally but predicting a failure soon. • 6 = Error • 7 = Non-Recoverable Error • 8 = Starting • 9 = Stopping • 10 = Stopped — Implies a clean and orderly stop. • 11 = In Service — Describes an element being configured, maintained, cleaned, or otherwise administered. • 12 = No Contact — Indicates that the monitoring system has knowledge of this element, but has never been able to establish communications with it. • 13 = Lost Communication — Indicates that the ManagedSystem Element is known to exist and has been contacted successfully in the past, but is unreachable. • 14 = Aborted — Implies an abrupt stop where the state and configuration of the element may need to be updated. • 15 = Dormant — Indicates that the element is inactive or quiesced. • 16 = Supporting Entity in Error — Indicates that this element may be OK but that another element, on which it is dependent, is in error. An example is a network service or endpoint that cannot function due to lower-layer networking problems. • 17 = Completed — Indicates that the element has completed its operation. This value should be combined with either OK, Error, or Degraded so that a client can tell if the complete operation Completed with OK (passed), Completed with Error (failed), or Completed with Degraded (the operation finished, but it did not complete OK or did not report an error). • 18 = Power Mode — Indicates that the element has additional power model information contained in the Associated PowerManagementService association. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved
	<p>OperationalStatus replaces the Status property on ManagedSystemElement to provide a consistent approach to enumerations, to address implementation needs for an array property, and to provide a migration path from today's environment to the future. This change was not made earlier because it required the deprecated qualifier. Due to the widespread use of the existing Status property in management applications, it is recommended that providers or instrumentation</p>

Property	Description
PortType	<p data-bbox="828 243 1382 401">provide both the Status and OperationalStatus properties. Further, the first value of OperationalStatus should contain the primary status for the element. When instrumented, Status (because it is single-valued) should also provide the primary status of the element.</p> <p data-bbox="828 436 1382 674">PortType is defined to force consistent naming of the type property in subclasses and to guarantee unique enum values for all instances of NetworkPort. When set to 1 (Other), related property OtherPortType contains a string description of the type of port. A range of values, DMTF_Reserved, has been defined that allows subclasses to override and define their specific types of ports.</p> <p data-bbox="828 701 1043 726">Possible values are:</p> <ul data-bbox="828 753 1230 1226" style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Not Applicable • 3..15999 = DMTF Reserved • 16192 = Parallel Port • 16193 = Serial Port • 16194 = Pointing Device • 16195 = Keyboard • 16196 = Processor • 16197 = Memory Device • 16198 = USB • 16199 = Monitor • 16200 = SCSI • 16201..65535 = Vendor Reserved
PrimaryStatus	<p data-bbox="828 1262 1394 1388">Provides a high-level status value, intended to align with Red-Yellow-Green type representation of status. It should be used with DetailedStatus to provide high level and detailed health status of the ManagedElement and its subcomponents.</p> <p data-bbox="828 1415 1043 1440">Possible values are:</p> <ul data-bbox="828 1467 1161 1803" style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Not Applicable • 3..15999 = DMTF Reserved • 16192 = Parallel Port • 16193 = Serial Port • 16194 = Pointing Device • 16195 = Keyboard • 16196 = Processor • 16197 = Memory Device


Property	Description
PrimaryStatus	<ul style="list-style-type: none"> • 16198 = USB • 16199 = Monitor • 16200 = SCSI • 16201..65535 = Vendor Reserved <p>Provides a high-level status value, intended to align with Red-Yellow-Green type representation of status. It should be used with DetailedStatus to provide high level and detailed health status of the ManagedElement and its subcomponents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates that the implementation is in general capable of returning this property, but is unable to do so now. • 1 = OK — Indicates the ManagedElement is functioning normally. • 2 = Degraded — Indicates the ManagedElement is functioning below normal. • 3 = Error — Indicates the ManagedElement is in an Error condition. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved
RequestedSpeed	<p>The requested bandwidth of the Port in Bits per Second. The actual bandwidth is reported in LogicalPort.Speed.</p>
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states. When EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5). There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11).</p> <p>Shut Down requests an orderly transition to the Disabled state, and may involve removing power,</p>

Property	Description
	<p>to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests. This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code. If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates that the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
Security	<p>An enumeration indicating the operational security for the Controller. For example, information that the Device's external interface is locked out (value = 4) or Boot Bypass (value = 6) can be described using this property.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 1 = Other • 2 = Unknown • 3 = None • 4 = External Interface Locked Out • 5 = External Interface Enabled • 6 = Boot Bypass

Property	Description
SerialPortCapabilities	<p>The capabilities of this Serial port.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 1 = Other • 2 = Unknown • 3 = XT/AT compatible • 4 = 16450 compatible • 5 = 16550 compatible • 6 = 16550A compatible • 160 = 8251 compatible • 161 = 8251FIFO compatible
SystemCreationClassName	The creation class name of the scoping system.
SystemName	The system name of the scoping system.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable — Indicates that the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_USBPort

Property	Description
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	Description
DeviceID	<p>property allows all instances of this class and its subclasses to be uniquely identified.</p> <p>An address or other identifying information used to uniquely name the LogicalDevice.</p>
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
EnabledDefault	<p>An enumerated value indicating a configuration of an administrator for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be running commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not run commands and will drop any new requests.

Property	Description
HealthState	<ul style="list-style-type: none"> • 4 = Shutting Down — Indicates that the element is in the process of going to a disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved <p>For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Indicates the current health of the element. This attribute expresses the health of this element but not necessarily that of its subcomponents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — The implementation cannot report on HealthState at this time. DMTF has reserved the unused portion of the continuum for additional HealthStates in the future. • 5 = OK — The element is fully functional and is operating within normal operational parameters and without error. • 10 = Degraded/Warning — The element is in working order and all functionality is provided. However, the element is not working to the best of its abilities. For example, the element may not be operating at optimal performance or it may be reporting recoverable errors. • 15 = Minor failure — All functionality is available but some may be degraded. • 20 = Major failure — The element is failing. It is possible that some or all of the functionality of this component is degraded or not working. • 25 = Critical failure — The element is non-functional and recovery may not be possible. • 30 = Non-recoverable error — The element has completely failed, and recovery is not possible. All functionality provided by this element has been lost. • .. = DMTF Reserved


Property	Description
IdentifyingDescriptions	<p>An array of free-form strings providing explanations and details behind the entries in the OtherIdentifyingInfo array. Note that each entry of this array is related to the entry in OtherIdentifyingInfo that is located at the same index.</p>
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states. Note that when EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration. Unknown (0) indicates the last requested state for the element is unknown.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11).</p> <p>Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests. This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code. If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change

Property	Description
Speed	<ul style="list-style-type: none"> • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>USB Port Speed in bits per second. This speed is determined and set by the attached Device. The attached Device is indicated using the USBConnection association. At this time, only several Port speeds are valid. These are: 1.5Mbps and 12Mbps. The value 0 can also be specified to indicate that the current speed is unknown or 1 to indicate that the speed is other than 1.5 or 12Mbps. Possible values are: 0, 1, 1500000, 12000000</p>
SystemCreationClassName	The CreationClassName of the scoping system.
SystemName	The System Name of the scoping system.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable — Indicates the implementation does not support representing ongoing transitions.

Property	Description
	A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.

DCIM_Memory

Property	Description
Access	<p>Access describes whether the media is readable (value = 1), writeable (value = 2), or both (value = 3). Unknown (0) and Write Once (4) can also be defined.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Readable • 2 = Writeable • 3 = Read/Write Supported • 4 = Write Once
BlockSize	<p>Size in bytes of the blocks which form this StorageExtent. If variable block size, then the maximum block size in bytes should be specified. If the block size is unknown or if a block concept is not valid (for example, for AggregateExtents, Memory or LogicalDisks), enter a 1.</p>
ConsumableBlocks	<p>The maximum number of blocks, of size BlockSize, which are available for consumption when layering StorageExtents using the BasedOn association. This property only has meaning when this StorageExtent is an Antecedent reference in a BasedOn relationship. For example, a StorageExtent could be composed of 120 blocks. However, the Extent itself may use 20 blocks for redundancy data. If another StorageExtent is BasedOn this Extent, only 100 blocks would be available to it. This information (100 blocks is available for consumption) is indicated in the ConsumableBlocks property.</p>
CreationClassName	<p>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.</p>
DeviceID	<p>An address or other identifying information used to uniquely name the LogicalDevice.</p>
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly</p>


Property	Description
EnabledDefault	<p data-bbox="828 243 1390 296">name in addition to its key properties, identity data, and description information.</p> <p data-bbox="828 323 1390 604">  NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties. </p> <p data-bbox="828 632 1390 709">An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p data-bbox="828 737 1038 762">Possible values are:</p> <ul data-bbox="828 789 1230 1052" style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
EnabledState	<p data-bbox="828 1087 1390 1245">An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p data-bbox="828 1272 1038 1297">Possible values are:</p> <ul data-bbox="828 1325 1390 1795" style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests.

Property	Description
ErrorMethodology	<ul style="list-style-type: none"> • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved <p>ErrorMethodology for Memory is a string property that indicates whether parity or CRC algorithms, ECC or other mechanisms are used. Details on the algorithm can also be supplied.</p>
FailOverState	<p>An integer enumeration indicating that active memory has failed and the spare or backup memory may have taken over.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = None • 3 = Active
HealthState	<p>Indicates the current health of the element. This attribute expresses the health of this element but not necessarily that of its subcomponents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — The implementation cannot report on HealthState at this time. DMTF has reserved the unused portion of the continuum for additional HealthStates in the future. • 5 = OK — The element is fully functional and is operating within normal operational parameters and without error. • 10 = Degraded/Warning — The element is in working order and all functionality is provided. However, the element is not working to the best of its abilities. For example, the element may not be operating at optimal performance or it may be reporting recoverable errors. • 15 = Minor failure — All functionality is available but some may be degraded. • 20 = Major failure — The element is failing. It is possible that some or all of the functionality of this component is degraded or not working. • 25 = Critical failure — The element is non-functional and recovery may not be possible. • 30 = Non-recoverable error — The element has completely failed, and recovery is not possible.

Property	Description
NumberOfBlocks	<p>All functionality provided by this element has been lost.</p> <ul style="list-style-type: none"> .. = DMTF Reserved <p>Total number of logically contiguous blocks, of size Block Size, which form this Extent. The total size of the Extent can be calculated by multiplying BlockSize by NumberOfBlocks. If the BlockSize is 1, this property is the total size of the Extent.</p>
OperationalStatus	<p>Indicates the current statuses of the element. Various operational statuses are defined. Many of the enumeration's values are self-explanatory.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown 1 = Other 2 = OK 3 = Degraded 4 = Stressed — Indicates that the element is functioning, but needs attention. Examples of Stressed states are overload, overheated, and so on. 5 = Predictive Failure — Indicates that an element is functioning nominally but predicting a failure in the near future. 6 = Error 7 = Non-Recoverable Error 8 = Starting 9 = Stopping 10 = Stopped 11 = In Service — Describes an element being configured, maintained, cleaned, or otherwise administered. 12 = No Contact — Indicates that the monitoring system has knowledge of this element, but has never been able to establish communications with it. 13 = Lost Communication — Indicates that the ManagedSystem Element is known to exist and has been contacted successfully in the past, but is currently unreachable. 14 = Aborted 15 = Dormant — Indicates that the element is inactive or quiesced. 16 = Supporting Entity in Error — Indicates that this element may be OK but that another element, on which it is dependent, is in error. An example is a network service or endpoint that cannot function due to lower-layer networking problems. 17 = Completed — Indicates that the element has completed its operation. This value should

Property	Description
	<p>be combined with either OK, Error, or Degraded so that a client can tell if the complete operation Completed with OK (passed), Completed with Error (failed), or Completed with Degraded (the operation finished, but it did not complete OK or did not report an error).</p> <ul style="list-style-type: none"> • 18 = Power Mode — Indicates that the element has additional power model information contained in the Associated PowerManagementService association. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved <p>OperationalStatus replaces the Status property on ManagedSystemElement to provide a consistent approach to enumerations, to address implementation needs for an array property, and to provide a migration path from today's environment to the future. This change was not made earlier because it required the deprecated qualifier. Due to the widespread use of the existing Status property in management applications, it is strongly recommended that providers or instrumentation provide both the Status and OperationalStatus properties. Further, the first value of OperationalStatus should contain the primary status for the element. When instrumented, Status (because it is single-valued) should also provide the primary status of the element.</p>
OtherIdentifyingInfo	<p>Captures data, in addition to DeviceID information, that could be used to identify a LogicalDevice. For example, you could use this property to hold the operating system's user-friendly name for the Device.</p>
PrimaryStatus	<p>Provides a high level status value, intended to align with Red-Yellow-Green type representation of status. It should be used in conjunction with DetailedStatus to provide high level and detailed health status of the ManagedElement and its subcomponents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the implementation is in general capable of returning this property, but is unable to do so at this time. • 1 = OK — Indicates the ManagedElement is functioning normally. • 2 = Degraded — Indicates the ManagedElement is functioning below normal. • 3 = Error — Indicates the ManagedElement is in an Error condition. • .. = DMTF Reserved


Property	Description
Primordial	<ul style="list-style-type: none"> • 0x8000.. = Vendor Reserved <p>If true, Primordial indicates that the containing System does not have the ability to create or delete this operational element. This is important because StorageExtents are assembled into higher-level abstractions using the BasedOn association. Although the higher-level abstractions can be created and deleted, the most basic, (that is, primordial), hardware-based storage entities cannot. They are physically realized as part of the System, or are actually managed by some other System and imported as if they were physically realized. In other words, a Primordial StorageExtent exists in, but is not created by its System and conversely a non-Primordial StorageExtent is created in the context of its System. For StorageVolumes, this property will generally be false. One use of this property is to enable algorithms that aggregate StorageExtent. ConsumableSpace across all, StorageExtents but that also want to distinguish the space that underlies Primordial StoragePools. Since implementations are not required to surface all Component StorageExtents of a StoragePool, this information is not accessible in any other way. Purpose A free form string describing the media and/or its use. RedundancyConfiguration is an integer enumeration indicating the redundancy configuration when active memory fails.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Disabled • 3 = Spared • 4 = Mirrored • 5 = LockStep
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states.</p> <p> NOTE: When EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p>

Property	Description
	<p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11). Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests. This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code. If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 (Not Applicable).</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown – Indicates the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline – Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot – Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset - Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
SystemCreationClassName	The CreationClassName of the scoping system.
SystemName	The System Name of the scoping system.

Property	Description
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change – Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable – Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>
Volatile	<p>Volatile is a property that indicates whether this memory is volatile or not.</p>

DCIM_PCIDevice

Property	Description
BusNumber	The bus number where this PCI device resides.
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.
Description	Provides a textual description of the object.
DeviceID	An address or other identifying information used to uniquely name the LogicalDevice.
DeviceNumber	The device number assigned to this PCI device for this bus.
ElementName	A user-friendly name for the object. This property allows each instance to define a user-friendly

Property	Description
EnabledDefault	<p data-bbox="828 243 1390 296">name in addition to its key properties, identity data, and description information.</p> <p data-bbox="828 323 1390 606"> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p> <p data-bbox="828 632 1390 709">An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p data-bbox="828 737 1038 762">Possible values are:</p> <ul data-bbox="828 789 1230 1052" style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p data-bbox="828 1079 1334 1104">By default, the element is Enabled (value = 2).</p>
EnabledState	<p data-bbox="828 1142 1390 1299">A number enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and restarting (value = 10) are temporary states between enabled and disabled.</p> <p data-bbox="828 1327 1038 1352">Possible values are:</p> <ul data-bbox="828 1379 1390 1768" style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled.


Property	Description
FunctionNumber	The function number for this PCI device.
HealthState	<p data-bbox="828 758 1402 842">Indicates the current health of the element. This attribute expresses the health of this element but not necessarily that of its subcomponents.</p> <p data-bbox="828 863 1038 892">Possible values are:</p> <ul data-bbox="828 913 1402 1591" style="list-style-type: none"> <li data-bbox="828 913 1402 1018">• 0 = Unknown — The implementation cannot report on HealthState at this time. DMTF has reserved the unused portion of the continuum for additional HealthStates in the future. <li data-bbox="828 1020 1402 1104">• 5 = OK — The element is fully functional and is operating within normal operational parameters and without error. <li data-bbox="828 1106 1402 1251">• 10 = Degraded/Warning — The element is in working order and all functionality is provided. However, the element is not working to the best of its abilities. For example, the element may not be operating at optimal performance or it may be reporting recoverable errors. <li data-bbox="828 1253 1402 1314">• 15 = Minor failure — All functionality is available but some may be degraded. <li data-bbox="828 1316 1402 1400">• 20 = Major failure — The element is failing. It is possible that some or all of the functionality of this component is degraded or not working. <li data-bbox="828 1402 1402 1463">• 25 = Critical failure — The element is non-functional and recovery may not be possible. <li data-bbox="828 1465 1402 1570">• 30 = Non-recoverable error — The element has completely failed, and recovery is not possible. All functionality provided by this element has been lost. <li data-bbox="828 1572 1082 1591">• .. = DMTF Reserved
StatusInfo	<p data-bbox="828 1619 1402 1751">The use of this method is deprecated instead of a more clearly named property (EnabledState) that is inherited from ManagedSystemElement and that has additional enumerated values. Deprecated description: The StatusInfo property indicates</p>


Property	Description
	<p>whether the Logical Device is in an enabled state (value = 3), disabled state (value = 4), some other state (value = 1), or an unknown state (value = 2). If this property does not apply to the LogicalDevice, the value 5 (Not Applicable) should be used. If a Device is Enabled (value = 3), it has been powered up and is configured and operational. The Device may or may not be functionally active, depending on whether its Availability (or AdditionalAvailability) indicates that it is Running/Full Power (value = 3) or Off line (value = 8). In an enabled but offline mode, a Device may be performing out-of-band requests, such as running Diagnostics. If StatusInfo is Disabled (value = 4), a Device can only be enabled or powered off. In a personal computer environment, disabled means that the driver of the device is not available in the stack. In other environments, a Device can be disabled by removing its configuration file. A disabled device is physically present in a System and consuming resources, but it cannot be communicated with until a driver is loaded, a configuration file is loaded, or some other enabling activity has occurred.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 1 = Other • 2 = Unknown • 3 = Enabled • 4 = Disabled • 5 = Not Applicable
SystemCreationClassName	The CreationClassName of the scoping system.
SystemName	The System Name of the scoping system.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset

Property	Description
	<ul style="list-style-type: none"> 12 = Not Applicable — Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_DisplayController

Property	Description
CapabilityDescriptions	An array of free-form strings providing more detailed explanations for any of the video Accelerator features indicated in the Capabilities array. Note, each entry of this array is related to the entry in the Capabilities array that is located at the same index.
CommunicationStatus	<p>CommunicationStatus indicates the ability of the instrumentation to communicate with the underlying ManagedElement. CommunicationStatus consists of one of the following values: Unknown, None, Communication OK, Lost Communication, or No Contact. A Null return indicates the implementation (provider) does not implement this property.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown — Indicates the implementation is in general capable of returning this property, but is unable to do so at this time. 1 = Not Available — Indicates that the implementation (provider) is capable of returning a value for this property, but not ever for this particular piece of hardware/software or the property is intentionally not used because it adds no meaningful information (as in the case of a property that is intended to add additional info to another property). 2 = Communication OK — Indicates communication is established with the element, but does not convey any quality of service. 3 = Lost Communication — Indicates that the Managed Element is known to exist and has been contacted successfully in the past, but is currently unreachable. 4 = No Contact — Indicates that the monitoring system has knowledge of this element, but has never been able to establish communications with it. .. = DMTF Reserved 0x8000.. = Vendor Reserved
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.
Description	Provides a textual description of the object.


Property	Description
DeviceID	An address or other identifying information used to uniquely name the LogicalDevice.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element. By default, the element is Enabled (value = 2).</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests.

Property	Description
Name	<ul style="list-style-type: none"> • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved <p>The Name property defines the label by which the object is known. When subclassed, the Name property can be overridden to be a Key property.</p>
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states. Note that when EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5). There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11).</p> <p>Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests. This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code. If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state.

Property	Description
	<ul style="list-style-type: none"> 11 = Reset – Indicates that the element is first Disabled and then Enabled. 12 = Not Applicable .. = DMTF Reserved 32768..65535 = Vendor Reserved
SystemCreationClassName	The CreationClassName of the scoping system.
SystemName	The System Name of the scoping system.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown 2 = Enabled 3 = Disabled 4 = Shut Down 5 = No Change – Indicates that no transition is in progress. 6 = Offline 7 = Test 8 = Defer 9 = Quiesce 10 = Reboot 11 = Reset 12 = Not Applicable – Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>


DCIM_Fan

Property	Description
ActiveCooling	ActiveCooling is a Boolean that indicates that the Cooling Device provides active (as opposed to passive) cooling.
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.
DeviceID	An address or other identifying information used to uniquely name the LogicalDevice.
ElementName	A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.

Property	Description
	 NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled – Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled – Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down – Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable – Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline – Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test – Indicates that the element is in a test state. • 8 = Deferred – Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce - Indicates that the element is enabled but in a restricted mode. • 10 = Starting - Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved

Property	Description
	<ul style="list-style-type: none"> 32768..65535 = Vendor Reserved
ErrorCleared	The use of this method is deprecated. Deprecated description: ErrorCleared is a Boolean property that indicates that the error reported in LastErrorCode is now cleared.
ErrorDescription	The use of this method is deprecated. Deprecated description: ErrorDescription is a free-form string that supplies more information about the error recorded in LastErrorCode and information on any corrective actions that can be taken.
HealthState	<p>Indicates the current health of the element. This attribute expresses the health of this element but not necessarily that of its subcomponents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown — The implementation cannot report on HealthState at this time. DMTF has reserved the unused portion of the continuum for additional HealthStates in the future. 5 = OK — The element is fully functional and is operating within normal operational parameters and without error. 10 = Degraded/Warning — The element is in working order and all functionality is provided. However, the element is not working to the best of its abilities. For example, the element may not be operating at optimal performance or it may be reporting recoverable errors. 15 = Minor failure — All functionality is available but some may be degraded. 20 = Major failure — The element is failing. It is possible that some or all of the functionality of this component is degraded or not working. 25 = Critical failure — The element is non-functional and recovery may not be possible. 30 = Non-recoverable error — The element has completely failed, and recovery is not possible. All functionality provided by this element has been lost. .. = DMTF Reserved
OperationalStatus	<p>Indicates the current statuses of the element. Various operational statuses are defined. Many of the enumeration's values are self-explanatory. However, a few are not and are described here in more detail.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown 1 = Other 2 = OK 3 = Degraded 4 = Stressed — Indicates that the element is functioning, but needs attention. Examples of Stressed states are overload, overheated, and so on. 5 = Predictive Failure — Indicates that an element is functioning nominally but predicting a failure in the near future. 6 = Error

Property	Description
	<ul style="list-style-type: none"> • 7 = Non-Recoverable Error • 8 = Starting • 9 = Stopping • 10 = Stopped - Implies a clean and orderly stop. • 11 = In Service — Describes an element being configured, maintained, cleaned, or otherwise administered. • 12 = No Contact — Indicates that the monitoring system has knowledge of this element, but has never been able to establish communications with it. • 13 = Lost Communication — Indicates that the ManagedSystem Element is known to exist and has been contacted successfully in the past, but is currently unreachable. • 14 = Aborted — Implies an abrupt stop where the state and configuration of the element may need to be updated. • 15 = Dormant — Indicates that the element is inactive or quiesced. • 16 = Supporting Entity in Error — Indicates that this element may be OK but that another element, on which it is dependent, is in error. An example is a network service or endpoint that cannot function due to lower-layer networking problems. • 17 = Completed — Indicates that the element has completed its operation. This value should be combined with either OK, Error, or Degraded so that a client can tell if the complete operation Completed with OK (passed), Completed with Error (failed), or Completed with Degraded (the operation finished, but it did not complete OK or did not report an error). • 18 = Power Mode — Indicates that the element has additional power model information contained in the Associated PowerManagementService association. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved
PrimaryStatus	<p>Provides a high level status value, intended to align with Red-Yellow-Green type representation of status. It should be used in conjunction with DetailedStatus to provide high level and detailed health status of the ManagedElement and its subcomponents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the implementation is in general capable of returning this property, but is unable to do so at this time. • 1 = OK — Indicates the ManagedElement is functioning normally. • 2 = Degraded — Indicates the ManagedElement is functioning below normal. • 3 = Error — Indicates the ManagedElement is in an Error condition. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved •
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by</p>

Property	Description
	<p data-bbox="625 239 1402 401">EnabledState. This property is provided to compare the last requested and current enabled or disabled states. Note that when EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration. Unknown (0) indicates the last requested state for the element is unknown.</p> <p data-bbox="625 428 1402 856">  NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5). Offline (6) indicates that the element has been requested to transition to the Enabled but Offline EnabledState. There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11). Reboot refers to doing a Shut Down and then moving to an Enabled state. Reset indicates that the element is first Disabled and then Enabled. Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p data-bbox="625 871 1402 1003">This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p data-bbox="625 1031 1402 1108">If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 (Not Applicable).</p> <p data-bbox="625 1136 836 1161">Possible values are:</p> <ul data-bbox="625 1188 1029 1665" style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
SystemCreationClassName	The CreationClassName of the scoping system.

Property	Description
SystemName	The System Name of the scoping system.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change – Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable – Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>
VariableSpeed	Indication of whether the fan supports variable speeds.

DCIM_IndicatorLED

Property	Description
Color	<p>Color This property indicates the current color of the LED. If the value of the ActivationState property is 4 (Off) this property indicates the color of the LED the last time it was lit, or has the value 2 (Not Applicable).</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Not Applicable • 3 = White • 4 = Red • 5 = Green • 6 = Blue • 7 = Orange • 8 = Yellow • 9 = Black • .. = DMTF Reserved


Property	Description
	<ul style="list-style-type: none"> 32768..65535 = Vendor Reserved
ControlMode	<p>ControlMode indicates the current control mode for the LED.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 2 = Automatic — Indicates the state of the LED is being controlled by the management infrastructure. 3 = Manual — Indicates the state of the LED is being controlled by a management client. 4 = Test — Indicates the LED is in a test mode. .. = DMTF Reserved 32768..65535 = Vendor Reserved
ControlPattern	<p>An LED may exhibit a range of behavior from very simple (ex. solid on) to very complicated (ex. a series of blinks of alternating color and duration). ControlPattern specifies the vendor or standard behavior exhibited by the LED if it cannot be described using one of the standard behaviors listed for the ActivationState property.</p> <p>If ActivationState has the value 5 (ControlPattern), the ControlPattern property is not NULL.</p> <p>The value of ControlPattern is constructed using the following preferred algorithm:</p> <p><OrgID>::<Pattern></p> <p>Where <OrgID> and <Pattern> are separated by two colons (::), and where <OrgID> includes a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the ControlPattern or that is a registered ID assigned to the business entity by a recognized global authority. If the definition of the value is specified by the DMTF, the value of <OrgID> is DMTF. <Pattern> is chosen by the business entity and is not reused to identify different underlying (real-world) behaviors. If the behavior specified for the LED adheres to a standard or proprietary specification, <Pattern> is a uniquely assigned value identifying the behavior. If the behavior for the LED is described using a standard or proprietary grammar, <Pattern> is prefixed with a uniquely assigned identifier for the grammar.</p>
CreationClassName	<p>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.</p>
DefaultActivationState	<p>Indicates the default state of an LED. See ActivationState for a description of the values.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 2 = Lit 3 = Blinking 4 = Off 5 = Control Pattern

Property	Description
	<ul style="list-style-type: none"> .. = DMTF Reserved 32768..65535 = Vendor Reserved
DeviceID	An address or other identifying information used to uniquely name the LogicalDevice.
ElementName	<p>Specifies an identifier for the LED. The value of ElementName is constructed using the following preferred algorithm:</p> <p><OrgID>::<LocalID></p> <p>Where <OrgID> and <LocalID> are separated by two colons (::), and where <OrgID> includes a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the ControlPattern or that is a registered ID assigned to the business entity by a recognized global authority. <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 2 = Enabled 3 = Disabled 5 = Not Applicable 6 = Enabled but Offline 7 = No Default 9 = Quiesce .. = DMTF Reserved 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>It is an integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown 1 = Other 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. 5 = Not Applicable — Indicates the element does not support being enabled or disabled.


Property	Description
HealthState	<ul style="list-style-type: none"> • 6 = Enabled but Offline – Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test – Indicates that the element is in a test state. • 8 = Deferred – Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce – Indicates that the element is enabled but in a restricted mode. • 10 = Starting – Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved <p>Indicates the current health of the element. This attribute expresses the health of this element but not necessarily that of its subcomponents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown – The implementation cannot report on HealthState at this time. • 5 = OK – The element is fully functional and is operating within normal operational parameters and without error. • 10 = Degraded/Warning – The element is in working order and all functionality is provided. However, the element is not working to the best of its abilities. For example, the element may not be operating at optimal performance or it may be reporting recoverable errors. • 15 = Minor failure – All functionality is available but some may be degraded. • 20 = Major failure – The element is failing. It is possible that some or all of the functionality of this component is degraded or not working. • 25 = Critical failure – The element is non-functional and recovery may not be possible. • 30 = Non-recoverable error – The element has completely failed, and recovery is not possible. All functionality provided by this element has been lost. • .. = DMTF Reserved
SystemCreationClassName	The CreationClassName of the scoping system.
SystemName	The System Name of the scoping system.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change – Indicates that no transition is in progress. • 6 = Offline • 7 = Test

Property	Description
	<ul style="list-style-type: none"> • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable – Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_PowerSupply

Property	Description
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.
DeviceID	An address or other identifying information used to uniquely name the LogicalDevice.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>


Property	Description
EnabledState	<p data-bbox="624 239 1390 317">An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states.</p> <p data-bbox="624 346 836 371">Possible values are:</p> <ul data-bbox="624 401 1390 1052" style="list-style-type: none"> <li data-bbox="624 401 815 426">• 0 = Unknown <li data-bbox="624 432 767 457">• 1 = Other <li data-bbox="624 464 1390 541">• 2 = Enabled — Indicates that the element is or could be executing commands, processes any queued commands, and queues new requests. <li data-bbox="624 548 1390 600">• 3 = Disabled — Indicates that the element will not run commands and drops any new requests. <li data-bbox="624 606 1390 659">• 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. <li data-bbox="624 665 1390 718">• 5 = Not Applicable — Indicates that the element does not support being enabled or disabled. <li data-bbox="624 724 1390 777">• 6 = Enabled but Offline — Indicates that the element may be completing commands, and drops any new requests. <li data-bbox="624 783 1278 808">• 7 = In Test — Indicates that the element is in a test state. <li data-bbox="624 814 1390 867">• 8 = Deferred — Indicates that the element may be completing commands, but queues any new requests. <li data-bbox="624 873 1390 926">• 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. <li data-bbox="624 932 1390 984">• 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. <li data-bbox="624 991 959 1016">• 11..32767 = DMTF Reserved <li data-bbox="624 1022 1023 1047">• 32768..65535 = Vendor Reserved <p data-bbox="624 1077 1390 1125">For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p>
HealthState	<p data-bbox="624 1163 1390 1241">Indicates the current health of the element. This attribute expresses the health of this element but not necessarily that of its subcomponents.</p> <p data-bbox="624 1270 836 1295">Possible values are:</p> <ul data-bbox="624 1325 1390 1759" style="list-style-type: none"> <li data-bbox="624 1325 1390 1377">• 0 = Unknown — The implementation cannot report on HealthState now. <li data-bbox="624 1383 1390 1436">• 5 = OK — The element is fully functional and is operating within normal operational parameters and without error. <li data-bbox="624 1442 1390 1562">• 10 = Degraded/Warning — The element is in working order and all functionality is provided. However, the element is not working to the best of its abilities. For example, the element may not be operating at optimal performance or it may be reporting recoverable errors. <li data-bbox="624 1568 1390 1621">• 15 = Minor failure — All functionality is available but some may be degraded. <li data-bbox="624 1627 1390 1705">• 20 = Major failure — The element is failing. It is possible that some or all of the functionality of this component is degraded or not working. <li data-bbox="624 1711 1390 1759">• 25 = Critical failure — The element is nonfunctional and recovery may not be possible.

Property	Description
RequestedState	<ul style="list-style-type: none"> • 30 = Non-recoverable error — The element has completely failed, and recovery is not possible. All functionality provided by this element has been lost. • .. = DMTF Reserved <p>DMTF has reserved the unused portion of the continuum for additional HealthStates in the future.</p> <p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates that the last requested state for the element is unknown. • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Requests an immediate disabling of the element, such that it will not run or accept any commands or processing requests. • 4 = Shut Down — Requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states. Note that when EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11). This property is set as the result of a method invocation (such as Start or</p>

Property	Description
	<p>StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p>
SystemCreationClassName	The CreationClassName of the scoping system.
SystemName	The System Name of the scoping system.
TotalOutputPower	Represents the total output power of the PowerSupply in milli Watts. 0 denotes unknown .
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable — Indicates that the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>
TypeOfRangeSwitching	<p>Describes the kind of input voltage range switching that is implemented in this PowerSupply.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 1 = Other • 2 = Unknown • 3 = Manual • 4 = Autoswitch • 5 = Wide Range • 6 = Not Applicable <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_Battery



Property	Description
BatteryStatus	<p>Description of the charge status of the Battery.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 1 = Other• 2 = Unknown• 3 = Fully Charged• 4 = Low• 5 = Critical• 6 = Charging• 7 = Charging and High• 8 = Charging and Low• 9 = Charging and Critical• 10 = Undefined• 11 = Partially Charged• 12 = Learning• 13 = Overcharged <p>Values such as Fully Charged (value = 3) or Partially Charged (value = 11) can be specified. The value, 10, is not valid in the CIM Schema because in DMI it represents that no battery is installed. In this case, this object should not be instantiated.</p>
ChargingStatus	<p>This property defines status information about the AC line in the notebook.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 1 = Other• 2 = Unknown• 3 = Off- Line• 4 = On-Line• 5 = On Backup Power
Chemistry	<p>An enumeration that describes the chemistry of the Battery.</p> <ul style="list-style-type: none">• 1 = Other• 2 = Unknown• 3 = Lead Acid• 4 = Nickel Cadmium• 5 = Nickel Metal Hydride• 6 = Lithium-ion• 7 = Zinc air• 8 = Lithium Polymer
CreationClassName	<p>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,</p>

Property	Description
	this property allows all instances of this class and its subclasses to be uniquely identified.
DesignCapacity	The design capacity of the battery in m Watt-hours. If this property is not supported, enter 0.
DesignVoltage	The design voltage of the battery in mVolts. If this attribute is not supported, enter 0.
DeviceID	An address or other identifying information used to uniquely name the LogicalDevice.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests.

Property	Description
	<ul style="list-style-type: none"> • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved <p>For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p>
EstimatedChargeRemaining	An estimate of the percentage of full charge remaining.
EstimatedRunTime	An estimate in minutes of the time that battery charge depletion will occur under the present load conditions if the utility power is off, or is lost and remains off, or a Laptop is disconnected from a power source.
HealthState	<p>Indicates the current health of the element. This attribute expresses the health of this element but not necessarily that of its subcomponents.</p> <p>DMTF has reserved the unused portion of the continuum for additional HealthStates in the future.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — The implementation cannot report on HealthState at this time. • 5 = OK — The element is fully functional and is operating within normal operational parameters and without error. • 10 = Degraded/Warning — The element is in working order and all functionality is provided. However, the element is not working to the best of its abilities. For example, the element may not be operating at optimal performance or it may be reporting recoverable errors. • 15 = Minor failure — All functionality is available but some may be degraded. • 20 = Major failure — The element is failing. It is possible that some or all of the functionality of this component is degraded or not working. • 25 = Critical failure — The element is non-functional and recovery may not be possible. • 30 = Non-recoverable error — The element has completely failed, and recovery is not possible. All functionality provided by this element has been lost.

Property	Description
	<ul style="list-style-type: none"> .. = DMTF Reserved
IdentifyingDescriptions	An array of free-form strings providing explanations and details behind the entries in the OtherIdentifyingInfo array. Note that each entry of this array is related to the entry in OtherIdentifyingInfo that is located at the same index.
Name	The Name property defines the label by which the object is known. When subclassed, the Name property can be overridden to be a Key property.
OperationalStatus	<p>Indicates the current statuses of the element. Various operational statuses are defined. Many of the enumeration's values are self-explanatory.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown 1 = Other 2 = OK 3 = Degraded 4 = Stressed — Indicates that the element is functioning, but needs attention. Examples of Stressed states are overload, overheated, and so on. 5 = Predictive Failure — Indicates that an element is functioning nominally but predicting a failure in the near future. 6 = Error 7 = Non-Recoverable Error 8 = Starting 9 = Stopping 10 = Stopped — Implies a clean and orderly stop 11 = In Service — Describes an element being configured, maintained, cleaned, or otherwise administered. 12 = No Contact — Indicates that the monitoring system has knowledge of this element, but has never been able to establish communications with it. 13 = Lost Communication — Indicates that the ManagedSystem Element is known to exist and has been contacted successfully in the past, but is currently unreachable. 14 = Aborted — Implies an abrupt stop where the state and configuration of the element may need to be updated. 15 = Dormant — Indicates that the element is inactive or quiesced. 16 = Supporting Entity in Error — Indicates that this element may be OK but that another element, on which it is dependent, is in error. An example is a network service or endpoint that cannot function due to lower-layer networking problems. 17 = Completed - Indicates that the element has completed its operation. This value should be combined with either OK, Error, or Degraded so that a client can tell if the complete operation Completed with OK (passed), Completed with Error (failed), or Completed with Degraded (the operation finished, but it did not complete OK or did not report an error).


Property	Description
	<ul style="list-style-type: none"> • 18 = Power Mode — Indicates that the element has additional power model information contained in the Associated PowerManagementService association. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved <p>OperationalStatus replaces the Status property on ManagedSystemElement to provide a consistent approach to enumerations, to address implementation needs for an array property, and to provide a migration path from today's environment to the future. This change was not made earlier because it required the deprecated qualifier. Due to the widespread use of the existing Status property in management applications, it is strongly recommended that providers or instrumentation provide both the Status and OperationalStatus properties. Further, the first value of OperationalStatus should contain the primary status for the element. When instrumented, Status (because it is single-valued) should also provide the primary status of the element.</p>
OtherIdentifyingInfo	<p>OtherIdentifyingInfo captures data, in addition to DeviceID information, that could be used to identify a LogicalDevice. For example, you could use this property to hold the operating system's user-friendly name for the Device.</p>
PrimaryStatus	<p>Provides a high level status value, intended to align with Red-Yellow-Green type representation of status. It should be used in conjunction with DetailedStatus to provide high level and detailed health status of the ManagedElement and its subcomponents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the implementation is in general capable of returning this property, but is unable to do so at this time. • 1 = OK — Indicates the ManagedElement is functioning normally. • 2 = Degraded — Indicates the ManagedElement is functioning below normal. • 3 = Error — Indicates the ManagedElement is in an Error condition. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved
RemainingCapacityMaxError	<p>The maximum error (as a percentage) in the mWatt-hour data reported by RemainingCapacity property.</p>
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the last requested state for the element is unknown. • 2 = Enabled

Property	Description
	<ul style="list-style-type: none"> • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p> NOTE: When EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11).</p> <p>Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p>
SmartBatteryVersion	<p>The Smart Battery Data Specification version number that is supported by this Battery. If the Battery does not support this function, the value should be left blank.</p>
Status	<p>A string indicating the current status of the object. Various operational and non-operational statuses are defined. This property is deprecated instead of OperationalStatus, which includes the same semantics in its enumeration. This change is made for three reasons:</p>

Property	Description
	<ol style="list-style-type: none"> 1. Status is more correctly defined as an array. This definition overcomes the limitation of describing status using a single value, when it is really a multi-valued property (for example, an element may be OK AND Stopped). 2. A MaxLen of 10 is too restrictive and leads to unclear enumerated values. 3. The change to a uint16 data type was discussed when CIM V2.0 was defined. However, existing V1.0 implementations used the string property and did not want to modify their code. Therefore, Status was grandfathered into the Schema. Use of the deprecated qualifier allows the maintenance of the existing property, but also permits an improved definition using OperationalStatus.
	<p>Possible values are:</p> <ul style="list-style-type: none"> • OK • Error • Degraded • Unknown • Pred Fail • Starting • Stopping • Service • Stressed • NonRecover • No Contact • Lost Comm • Stopped
SystemCreationClassName	The CreationClassName of the scoping system.
SystemName	The System Name of the scoping system.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change – Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable – Indicates the implementation does not support representing ongoing transitions.

Property	Description
	A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.

DCIM_Processor

Property	Description
Caption	The Caption property is a short textual description (one- line string) of the object.
CPUStatus	<p>The CPUStatus property that indicates the current status of the Processor.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = CPU Enabled • 2 = CPU Disabled by User • 3 = CPU Disabled By BIOS (POST Error) • 4 = CPU Is Idle • 7 = Other <p>For example, the Processor may be disabled by the user (value = 2), or disabled due to a POST error (value = 3). Information in this property can be obtained from SMBIOS, the Type 4 structure, and the Status attribute.</p>
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.
CurrentClockSpeed	The current speed (in MHz) of this Processor.
Description	Provides a textual description of the object.
DeviceID	An address or other identifying information used to uniquely name the LogicalDevice.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>

Property	Description
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved <p>For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p>
ExternalBusClockSpeed	<p>The speed (in MHz) of the external bus interface (also known as the front side bus).</p>
Family	<p>The Processor family type.</p>

Property	Description
	Possible values are:
	<ul style="list-style-type: none"> • 1 = Other • 2 = Unknown • 3 = 8086 • 4 = 80286 • 5 = 80386 • 6 = 80486 • 7 = 8087 • 8 = 80287 • 9 = 80387 • 10 = 80487 • 11 = Pentium(R) brand • 12 = Pentium(R) Pro • 13 = Pentium(R) II • 14 = Pentium(R) processor with MMX(TM) technology • 15 = Celeron(TM) • 16 = Pentium(R) II Xeon(TM) • 17 = Pentium(R) III • 18 = M1 Family • 19 = M2 Family • 20 = Intel(R) Celeron(R) M processor • 21 = Intel(R) Pentium(R) 4 HT processor • 24 = K5 Family • 25 = K6 Family • 26 = K6-2 • 27 = K6-3 • 28 = AMD Athlon(TM) Processor Family • 29 = AMD(R) Duron(TM) Processor • 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(R) Core(TM) Duo processor • 41 = Intel(R) Core(TM) Duo mobile processor • 42 = Intel(R) Core(TM) Solo mobile processor • 43 = Intel(R) Atom(TM) processor • 48 = Alpha Family • 49 = Alpha 21064 • 50 = Alpha 21066


Property	Description
	<ul style="list-style-type: none"> • 51 = Alpha 21164 • 52 = Alpha 21164PC • 53 = Alpha 21164a • 54 = Alpha 21264 • 55 = Alpha 21364 • 56 = AMD Turion(TM) II Ultra Dual-Core Mobile M Processor Family • 57 = AMD Turion(TM) II Dual-Core Mobile M Processor Family • 58 = AMD Athlon(TM) II Dual-Core Mobile M Processor Family • 59 = AMD Opteron(TM) 6100 Series Processor • 60 = AMD Opteron(TM) 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 III • 87 = UltraSPARC III • 88 = UltraSPARC IIIi • 96 = 68040 • 97 = 68xxx Family • 98 = 68000 • 99 = 68010 • 100 = 68020 • 101 = 68030 • 112 = Hobbit Family • 120 = Crusoe(TM) TM5000 Family • 121 = Crusoe(TM) TM3000 Family • 122 = Efficeon(TM) TM8000 Family • 128 = Weitek • 130 = Itanium(TM) Processor • 131 = AMD Athlon(TM) 64 Processor Family • 132 = AMD Opteron(TM) Processor Family • 133 = AMD Sempron(TM) Processor Family • 134 = AMD Turion(TM) 64 Mobile Technology • 135 = Dual-Core AMD Opteron(TM) Processor Family • 136 = AMD Athlon(TM) 64 X2 Dual-Core Processor Family • 137 = AMD Turion(TM) 64 X2 Mobile Technology • 138 = Quad-Core AMD Opteron(TM) Processor Family


Property	Description
	<ul style="list-style-type: none"> • 139 = Third-Generation AMD Opteron(TM) Processor Family • 140 = AMD Phenom(TM) FX Quad-Core Processor Family • 141 = AMD Phenom(TM) X4 Quad-Core Processor Family • 142 = AMD Phenom(TM) X2 Dual-Core Processor Family • 143 = AMD Athlon(TM) 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(R) Xeon(R) processor 3200 Series • 162 = Dual-Core Intel(R) Xeon(R) processor 3000 Series • 163 = Quad-Core Intel(R) Xeon(R) processor 5300 Series • 164 = Dual-Core Intel(R) Xeon(R) processor 5100 Series • 165 = Dual-Core Intel(R) Xeon(R) processor 5000 Series • 166 = Dual-Core Intel(R) Xeon(R) processor LV • 167 = Dual-Core Intel(R) Xeon(R) processor ULV • 168 = Dual-Core Intel(R) Xeon(R) processor 7100 Series • 169 = Quad-Core Intel(R) Xeon(R) processor 5400 Series • 170 = Quad-Core Intel(R) Xeon(R) processor • 171 = Dual-Core Intel(R) Xeon(R) processor 5200 Series • 172 = Dual-Core Intel(R) Xeon(R) processor 7200 Series • 173 = Quad-Core Intel(R) Xeon(R) processor 7300 Series • 174 = Quad-Core Intel(R) Xeon(R) processor 7400 Series • 175 = Multi-Core Intel(R) Xeon(R) processor 7400 Series • 176 = Pentium(R) III Xeon(TM) • 177 = Pentium(R) III Processor with Intel(R) SpeedStep(TM) Technology • 178 = Pentium(R) 4 • 179 = Intel(R) Xeon(TM) • 180 = AS400 Family • 181 = Intel(R) Xeon(TM) processor MP • 182 = AMD Athlon(TM) XP Family • 183 = AMD Athlon(TM) MP Family • 184 = Intel(R) Itanium(R) 2 • 185 = Intel(R) Pentium(R) M processor • 186 = Intel(R) Celeron(R) D processor • 187 = Intel(R) Pentium(R) D processor • 188 = Intel(R) Pentium(R) Processor Extreme Edition • 189 = Intel(R) Core(TM) Solo Processor • 190 = Intel(R) Core(TM) • 191 = Intel(R) Core(TM)2 Duo Processor • 192 = Intel(R) Core(TM)2 Solo processor

Property	Description
	<ul style="list-style-type: none"> • 193 = Intel(R) Core(TM)2 Extreme processor • 194 = Intel(R) Core(TM)2 Quad processor • 195 = Intel(R) Core(TM)2 Extreme mobile processor • 196 = Intel(R) Core(TM)2 Duo mobile processor • 197 = Intel(R) Core(TM)2 Solo mobile processor • 198 = Intel(R) Core(TM) i7 processor • 199 = Dual-Core Intel(R) Celeron(R) Processor • 200 = S/390 and zSeries Family • 201 = ESA/390 G4 • 202 = ESA/390 G5 • 203 = ESA/390 G6 • 204 = z/Architectur base • 205 = Intel(R) Core(TM) i5 processor • 206 = Intel(R) Core(TM) i3 processor • 210 = VIA C7(TM)-M Processor Family • 211 = VIA C7(TM)-D Processor Family • 212 = VIA C7(TM) Processor Family • 213 = VIA Eden(TM) Processor Family • 214 = Multi-Core Intel(R) Xeon(R) processor • 215 = Dual-Core Intel(R) Xeon(R) processor 3xxx Series • 216 = Quad-Core Intel(R) Xeon(R) processor 3xxx Series • 217 = VIA Nano(TM) Processor Family • 218 = Dual-Core Intel(R) Xeon(R) processor 5xxx Series • 219 = Quad-Core Intel(R) Xeon(R) processor 5xxx Series • 221 = Dual-Core Intel(R) Xeon(R) processor 7xxx Series • 222 = Quad-Core Intel(R) Xeon(R) processor 7xxx Series • 223 = Multi-Core Intel(R) Xeon(R) processor 7xxx Series • 224 = Multi-Core Intel(R) Xeon(R) processor 3400 Series • 230 = Embedded AMD Opteron(TM) Quad-Core Processor Family • 231 = AMD Phenom(TM) Triple-Core Processor Family • 232 = AMD Turion(TM) Ultra Dual-Core Mobile Processor Family • 233 = AMD Turion(TM) Dual-Core Mobile Processor Family • 234 = AMD Athlon(TM) Dual-Core Processor Family • 235 = AMD Sempron(TM) SI Processor Family • 236 = AMD Phenom(TM) II Processor Family • 237 = AMD Athlon(TM) II Processor Family • 238 = Six-Core AMD Opteron(TM) Processor Family • 239 = AMD Sempron(TM) M Processor Family • 250 = i860 • 251 = i960 • 254 = Reserved (SMBIOS Extension) • 255 = Reserved (Un-initialized Flash Content - Lo) • 260 = SH-3 • 261 = SH-4 • 280 = ARM

Property	Description
HealthState	<ul style="list-style-type: none"> • 281 = StrongARM • 300 = 6x86 • 301 = MediaGX • 302 = MII • 320 = WinChip • 350 = DSP • 500 = Video Processor • 65534 = Reserved (For Future Special Purpose Assignment) • 65535 = Reserved (Un-initialized Flash Content - Hi) <p>For example, values include Pentium(R) processor with MMX(TM) technology (value = 14) and 68040 (value = 96).</p> <p>Indicates the current health of the element. This attribute expresses the health of this element but not necessarily that of its subcomponents.</p> <p>DMTF has reserved the unused portion of the continuum for additional HealthStates in the future.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — The implementation cannot report on HealthState at this time. • 5 = OK — The element is fully functional and is operating within normal operational parameters and without error. • 10 = Degraded/Warning — The element is in working order and all functionality is provided. However, the element is not working to the best of its abilities. For example, the element may not be operating at optimal performance or it may be reporting recoverable errors. • 15 = Minor failure — All functionality is available but some may be degraded. • 20 = Major failure — The element is failing. It is possible that some or all of the functionality of this component is degraded or not working. • 25 = Critical failure — The element is non-functional and recovery may not be possible. • 30 = Non-recoverable error — The element has completely failed, and recovery is not possible. All functionality provided by this element has been lost. • .. = DMTF Reserved
MaxClockSpeed	The maximum speed (in MHz) of this Processor.
NumberOfEnabledCores	Number of processor cores enabled for processor.
OperationalStatus	Indicates the current statuses of the element. Various operational statuses are defined. Many of the enumeration's values are self-explanatory. However, a few are not and are described here in more detail.

Property	Description
	<p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = OK • 3 = Degraded • 4 = Stressed — Indicates that the element is functioning, but needs attention. Examples of Stressed states are overload, overheated, and so on. • 5 = Predictive Failure — Indicates that an element is functioning nominally but predicting a failure in the near future. • 6 = Error • 7 = Non-Recoverable Error • 8 = Starting • 9 = Stopping • 10 = Stopped — Implies a clean and orderly stop. • 11 = In Service — Describes an element being configured, maintained, cleaned, or otherwise administered. • 12 = No Contact — Indicates that the monitoring system has knowledge of this element, but has never been able to establish communications with it. • 13 = Lost Communication — Indicates that the ManagedSystem Element is known to exist and has been contacted successfully in the past, but is currently unreachable. • 14 = Aborted — Implies an abrupt stop where the state and configuration of the element may need to be updated. • 15 = Dormant — Indicates that the element is inactive or quiesced. • 16 = Supporting Entity in Error — Indicates that this element may be OK but that another element, on which it is dependent, is in error. An example is a network service or endpoint that cannot function due to lower-layer networking problems. • 17 = Completed — Indicates that the element has completed its operation. This value should be combined with either OK, Error, or Degraded so that a client can tell if the complete operation Completed with OK (passed), Completed with Error (failed), or Completed with Degraded (the operation finished, but it did not complete OK or did not report an error). • 18 = Power Mode — Indicates that the element has additional power model information contained in the Associated PowerManagementService association. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved <p>OperationalStatus replaces the Status property on ManagedSystemElement to provide a consistent approach to enumerations, to address implementation needs for an array property, and to provide a migration path from today's environment to the future. This change was not made earlier because it required the deprecated qualifier. Due to the widespread use of the existing Status property in management applications, it is strongly recommended that providers or instrumentation provide both the Status and OperationalStatus properties. Further, the first value of OperationalStatus should contain the primary status for the element.</p>

Property	Description
PrimaryStatus	<p data-bbox="625 239 1390 296">When instrumented, Status (because it is single-valued) should also provide the primary status of the element.</p> <p data-bbox="625 327 1390 436">Provides a high level status value, intended to align with Red-Yellow-Green type representation of status. It should be used in conjunction with DetailedStatus to provide high level and detailed health status of the ManagedElement and its subcomponents.</p> <p data-bbox="625 464 839 489">Possible values are:</p> <ul data-bbox="625 516 1390 781" style="list-style-type: none"> <li data-bbox="625 516 1390 583">• 0 = Unknown – Indicates the implementation is in general capable of returning this property, but is unable to do so at this time. <li data-bbox="625 594 1390 619">• 1 = OK – Indicates the ManagedElement is functioning normally. <li data-bbox="625 630 1390 678">• 2 = Degraded – Indicates the ManagedElement is functioning below normal. <li data-bbox="625 688 1390 714">• 3 = Error - Indicates the ManagedElement is in an Error condition. <li data-bbox="625 724 879 749">• .. = DMTF Reserved <li data-bbox="625 760 979 785">• 0x8000.. = Vendor Reserved
RequestedState	<p data-bbox="625 816 1390 947">An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states.</p> <p data-bbox="625 974 839 999">Possible values are:</p> <ul data-bbox="625 1026 1031 1499" style="list-style-type: none"> <li data-bbox="625 1026 815 1052">• 0 = Unknown <li data-bbox="625 1062 799 1087">• 2 = Enabled <li data-bbox="625 1098 799 1123">• 3 = Disabled <li data-bbox="625 1134 831 1159">• 4 = Shut Down <li data-bbox="625 1169 831 1194">• 5 = No Change <li data-bbox="625 1205 783 1230">• 6 = Offline <li data-bbox="625 1241 751 1266">• 7 = Test <li data-bbox="625 1276 799 1302">• 8 = Deferred <li data-bbox="625 1312 799 1337">• 9 = Quiesce <li data-bbox="625 1348 799 1373">• 10 = Reboot <li data-bbox="625 1383 767 1409">• 11 = Reset <li data-bbox="625 1419 879 1444">• 12 = Not Applicable <li data-bbox="625 1455 879 1480">• .. = DMTF Reserved <li data-bbox="625 1491 1031 1516">• 32768..65535 = Vendor Reserved <p data-bbox="625 1524 1390 1663">  NOTE: When EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration. Unknown (0) indicates the last requested state for the element is unknown. </p>

Property	Description
	<p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5). Offline (6) indicates that the element has been requested to transition to the Enabled but Offline EnabledState. There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11). Reboot refers to doing a Shut Down and then moving to an Enabled state. Reset indicates that the element is first Disabled and then Enabled.</p> <p>Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p>
Stepping	Stepping is a free-form string that indicates the revision level of the Processor within the Processor.Family.
SystemCreationClassName	The CreationClassName of the scoping system.
SystemName	The System Name of the scoping system.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable — Indicates the implementation does not support representing ongoing transitions.


Property	Description
UniqueID	<p data-bbox="624 239 1382 296">A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p> <p data-bbox="624 327 1382 380">A global unique identifier for the processor. This identifier can be unique only within a processor family.</p>
UpgradeMethod	<p data-bbox="624 417 1382 495">CPU socket information that includes data on how the processor can be upgraded (if upgrades are supported). This property is an integer enumeration.</p> <p data-bbox="624 522 839 548">Possible values are:</p> <ul data-bbox="624 575 983 1806" style="list-style-type: none"> <li data-bbox="624 575 767 600">• 1 = Other <li data-bbox="624 611 815 636">• 2 = Unknown <li data-bbox="624 646 879 672">• 3 = Daughter Board <li data-bbox="624 682 823 707">• 4 = ZIF Socket <li data-bbox="624 718 983 743">• 5 = Replacement/Piggy Back <li data-bbox="624 753 767 779">• 6 = None <li data-bbox="624 789 823 814">• 7 = LIF Socket <li data-bbox="624 825 767 850">• 8 = Slot 1 <li data-bbox="624 861 767 886">• 9 = Slot 2 <li data-bbox="624 896 887 921">• 10 = 370 Pin Socket <li data-bbox="624 932 767 957">• 11 = Slot A <li data-bbox="624 968 783 993">• 12 = Slot M <li data-bbox="624 1003 839 1029">• 13 = Socket 423 <li data-bbox="624 1039 959 1064">• 14 = Socket A (Socket 462) <li data-bbox="624 1075 839 1100">• 15 = Socket 478 <li data-bbox="624 1110 839 1136">• 16 = Socket 754 <li data-bbox="624 1146 839 1171">• 17 = Socket 940 <li data-bbox="624 1182 839 1207">• 18 = Socket 939 <li data-bbox="624 1218 911 1243">• 19 = Socket mPGA604 <li data-bbox="624 1253 887 1278">• 20 = Socket LGA771 <li data-bbox="624 1289 887 1314">• 21 = Socket LGA775 <li data-bbox="624 1325 823 1350">• 22 = Socket S1 <li data-bbox="624 1360 847 1386">• 23 = Socket AM2 <li data-bbox="624 1396 887 1421">• 24 = Socket F (1207) <li data-bbox="624 1432 903 1457">• 25 = Socket LGA1366 <li data-bbox="624 1467 847 1493">• 26 = Socket G34 <li data-bbox="624 1503 847 1528">• 27 = Socket AM3 <li data-bbox="624 1539 847 1564">• 28 = Socket C32 <li data-bbox="624 1575 903 1600">• 29 = Socket LGA1156 <li data-bbox="624 1610 903 1635">• 30 = Socket LGA1567 <li data-bbox="624 1646 903 1671">• 31 = Socket PGA988A <li data-bbox="624 1682 903 1707">• 32 = Socket BGA1288 <li data-bbox="624 1717 839 1743">• 33 = rPGA988B <li data-bbox="624 1753 823 1778">• 34 = BGA1023 <li data-bbox="624 1789 823 1814">• 35 = BGA1224 <li data-bbox="624 1824 823 1850">• 36 = LGA1155

Property	Description
	<ul style="list-style-type: none"> • 37 = LGA1356 • 38 = LGA2011 • 39 = Socket FS1 • 40 = Socket FS2 • 41 = Socket FM1 • 42 = Socket FM2 • 43 = Socket LGA2011-3 • 44 = Socket LGA1356-3 • 45 = Socket LGA1150 • 46 = Socket BGA1168

DCIM_NumericSensor

Property	Description
BaseUnits	<p>The base unit of the values returned by this Sensor. All the values returned by this Sensor are represented in the units obtained by (BaseUnits * 10 raised to the power of the UnitModifier). For example, if BaseUnits is Volts and the UnitModifier is -6, then the units of the values returned are MicroVolts. However, if the RateUnits property is set to a value other than None, then the units are further qualified as rate units. In the above example, if RateUnits is set to Per Second, then the values returned by the Sensor are in MicroVolts/Second. The units apply to all numeric properties of the Sensor, unless explicitly overridden by the Units qualifier.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Degrees C • 3 = Degrees F • 4 = Degrees K • 5 = Volts • 6 = Amps • 7 = Watts • 8 = Joules • 9 = Coulombs • 10 = VA • 11 = Nits • 12 = Lumens • 13 = Lux • 14 = Candelas • 15 = kPa • 16 = PSI • 17 = Newtons • 18 = CFM • 19 = RPM • 20 = Hertz


Property	Description
	• 21 = Seconds
	• 22 = Minutes
	• 23 = Hours
	• 24 = Days
	• 25 = Weeks
	• 26 = Mils
	• 27 = Inches
	• 28 = Feet
	• 29 = Cubic Inches
	• 30 = Cubic Feet
	• 31 = Meters
	• 32 = Cubic Centimeters
	• 33 = Cubic Meters
	• 34 = Liters
	• 35 = Fluid Ounces
	• 36 = Radians
	• 37 = Steradians
	• 38 = Revolutions
	• 39 = Cycles
	• 40 = Gravities
	• 41 = Ounces
	• 42 = Pounds
	• 43 = Foot-Pounds
	• 44 = Ounce-Inches
	• 45 = Gauss
	• 46 = Gilberts
	• 47 = Henries
	• 48 = Farads
	• 49 = Ohms
	• 50 = Siemens
	• 51 = Moles
	• 52 = Becquerels
	• 53 = PPM (parts/million)
	• 54 = Decibels
	• 55 = DbA
	• 56 = DbC
	• 57 = Grays
	• 58 = Sieverts
	• 59 = Color Temperature Degrees K
	• 60 = Bits
	• 61 = Bytes
	• 62 = Words (data)
	• 63 = DoubleWords
	• 64 = QuadWords
	• 65 = Percentage

Property	Description
	<ul style="list-style-type: none"> • 66 = Pascals
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.
CurrentReading	The current value indicated by the Sensor.
CurrentState	The current state indicated by the Sensor. This is always one of the PossibleStates .
DeviceID	An address or other identifying information used to uniquely name the LogicalDevice.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties. We have introduced new elements for Temperature sensor, Fan Speed Sensor, Current Supply and Voltage Numeric Sensor.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other

Property	Description
	<ul style="list-style-type: none"> • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved <p>For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p>
HealthState	<p>Indicates the current health of the element. This attribute expresses the health of this element but not necessarily that of its subcomponents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — The implementation cannot report on HealthState at this time. • 5 = OK — The element is fully functional and is operating within normal operational parameters and without error. • 10 = Degraded/Warning — The element is in working order and all functionality is provided. However, the element is not working to the best of its abilities. For example, the element may not be operating at optimal performance or it may be reporting recoverable errors. • 15 = Minor failure — All functionality is available but some may be degraded. • 20 = Major failure — The element is failing. It is possible that some or all of the functionality of this component is degraded or not working. • 25 = Critical failure — The element is non-functional and recovery may not be possible. • 30 = Non-recoverable error — The element has completely failed, and recovery is not possible. All functionality provided by this element has been lost. • .. = DMTF Reserved <p>DMTF has reserved the unused portion of the continuum for additional HealthStates in the future.</p>

Property	Description
LowerThresholdCritical	The Sensor's threshold values specify the ranges (min and max values) for determining whether the Sensor is operating under Normal, NonCritical or Critical conditions. The CurrentState is Critical once the CurrentReading is below LowerThresholdCritical.
LowerThresholdNonCritical	<p>The Sensor's threshold values specify the ranges (min and max values) for determining whether the Sensor is operating under Normal, NonCritical, Critical conditions. If Current Reading is between LowerThresholdNonCritical and Upper ThresholdNonCritical, then the Sensor is reporting a normal value. If CurrentReading is between LowerThresholdNonCritical and LowerThresholdCritical, then the CurrentState is NonCritical.</p> <p>Example for Set command: wmic /namespace:\\root\dcim\sysman path dcim_numericsensor Where ElementName like '%Temperature Sensor:%' set LowerThresholdNonCritical = 30. This sets the all temperature probes (lower threshold non critical) in the system to 30 degree Celsius.</p>
OperationalStatus	<p>Indicates the current statuses of the element. Various operational statuses are defined. Many of the enumeration's values are self-explanatory.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = OK • 3 = Degraded • 4 = Stressed — Indicates that the element is functioning, but needs attention. Examples of Stressed states are overload, overheated, and so on. • 5 = Predictive Failure — Indicates that an element is functioning nominally but predicting a failure in the near future. • 6 = Error • 7 = Non-Recoverable Error • 8 = Starting • 9 = Stopping • 10 = Stopped — Implies a clean and orderly stop • 11 = In Service — Describes an element being configured, maintained, cleaned, or otherwise administered. • 12 = No Contact — Indicates that the monitoring system has knowledge of this element, but has never been able to establish communications with it. • 13 = Lost Communication — Indicates that the ManagedSystem Element is known to exist and has been contacted successfully in the past, but is currently unreachable. • 14 = Aborted — Implies an abrupt stop where the state and configuration of the element may need to be updated. • 15 = Dormant - Indicates that the element is inactive or quiesced. • 16 = Supporting Entity in Error — Indicates that this element may be OK but that another element, on which it is dependent, is in error. An example is a network service or endpoint that cannot function due to lower-layer networking problems.

Property	Description
	<ul style="list-style-type: none"> • 17 = Completed — Indicates that the element has completed its operation. This value should be combined with either OK, Error, or Degraded so that a client can tell if the complete operation Completed with OK (passed), Completed with Error (failed), or Completed with Degraded (the operation finished, but it did not complete OK or did not report an error). • 18 = Power Mode — Indicates that the element has additional power model information contained in the Associated PowerManagementService association. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved <p>OperationalStatus replaces the Status property on ManagedSystemElement to provide a consistent approach to enumerations, to address implementation needs for an array property, and to provide a migration path from today's environment to the future. This change was not made earlier because it required the deprecated qualifier. Due to the widespread use of the existing Status property in management applications, it is strongly recommended that providers or instrumentation provide both the Status and OperationalStatus properties. Further, the first value of OperationalStatus should contain the primary status for the element. When instrumented, Status (because it is single-valued) should also provide the primary status of the element.</p>
PossibleStates	<p>Enumerates the string outputs of the Sensor.</p> <p>Example 1 - A Switch Sensor may output the states On, or Off. Another implementation of the Switch may output the states Open, and Close.</p> <p>Example 2 - Is a NumericSensor supporting thresholds. This Sensor can report the states like Normal, Upper Non-Critical, Lower Non-Critical, and so on. A NumericSensor that does not publish readings and thresholds, but stores this data internally, can still report its states.</p>
RateUnits	<p>Specifies if the units returned by this Sensor are rate units. All the values returned by this Sensor are represented in the units obtained by (BaseUnits * 10 raised to the power of the UnitModifier). This is true unless this property (RateUnits) has a value different than None. For example, if BaseUnits is Volts and the UnitModifier is -6, then the units of the values returned are MicroVolts. But, if the RateUnits property is set to a value other than None, then the units are further qualified as rate units. In the above example, if RateUnits is set to Per Second, then the values returned by the Sensor are in MicroVolts/Second. The units apply to all numeric properties of the Sensor, unless explicitly overridden by the Units qualifier. Any implementation of CurrentReading should be qualified with either a Counter or a Gauge qualifier, depending on the characteristics of the sensor being modeled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = None • 1 = Per MicroSecond • 2 = Per MilliSecond • 3 = Per Second

Property	Description
RequestedState	<ul style="list-style-type: none"> • 4 = Per Minute • 5 = Per Hour • 6 = Per Day • 7 = Per Week • 8 = Per Month • 9 = Per Year <p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states. Note that when EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5). Offline (6) indicates that the element has been requested to transition to the Enabled but Offline EnabledState.</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11).</p> <p>Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown – Indicates the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline • 7 = Test • 8 = Deferred • 9 = Quiesce


Property	Description
SensorType	<ul style="list-style-type: none"> • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>The Type of the Sensor, e.g. Voltage or Temperature Sensor. If the type is set to Other, then the OtherSensorType Description can be used to further identify the type, or if the Sensor has numeric readings, then the type of the Sensor can be implicitly determined by the Units. A description of the different Sensor types is as follows: A Temperature Sensor measures the environmental temperature. Voltage and Current Sensors measure electrical voltage and current readings. A Tachometer measures speed/revolutions of a Device. For example, a Fan Device can have an associated Tachometer which measures its speed. A Counter is a general purpose Sensor that measures some numerical property of a Device. A Counter value can be cleared, but it never decreases. A Switch Sensor has states like Open/Close, On/Off, or Up/Down. A Lock has states of Locked/Unlocked. Humidity, Smoke Detection and Air Flow Sensors measure the equivalent environmental characteristics. A Presence Sensor detects the presence of a PhysicalElement. A Power Consumption Sensor measures the instantaneous power consumed by a managed element. A Power Production Sensor measures the instantaneous power produced by a managed element such as a power supply or a voltage regulator. A pressure sensor is used to report pressure. Intrusion sensor reports an intrusion of an enclosure regardless whether it was authorized or not.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Temperature • 3 = Voltage • 4 = Current • 5 = Tachometer • 6 = Counter • 7 = Switch • 8 = Lock • 9 = Humidity • 10 = Smoke Detection • 11 = Presence • 12 = Air Flow • 13 = Power Consumption • 14 = Power Production • 15 = Pressure • 16 = Intrusion • .. = DMTF Reserved

Property	Description
	<ul style="list-style-type: none"> 32768..65535 = Vendor Reserved
SystemCreationClassName	The CreationClassName of the scoping system.
SystemName	The System Name of the scoping system.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown 2 = Enabled 3 = Disabled 4 = Shut Down 5 = No Change — Indicates that no transition is in progress. 6 = Offline 7 = Test 8 = Defer 9 = Quiesce 10 = Reboot 11 = Reset 12 = Not Applicable — Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>
UnitModifier	<p>The unit multiplier for the values returned by this Sensor. All the values returned by this Sensor are represented in the units obtained by (BaseUnits * 10 raised to the power of the UnitModifier).</p> <p>For example, if BaseUnits is Volts and the Unit Modifier is -6, then the units of the values returned are MicroVolts. However, if the RateUnits property is set to a value other than None, then the units are further qualified as rate units.</p> <p>In the above example, if RateUnits is set to Per Second, then the values returned by the Sensor are in MicroVolts/Second. The units apply to all numeric properties of the Sensor, unless explicitly overridden by the Units qualifier.</p>
UpperThresholdCritical	The Sensor's threshold values specify the ranges (min and max values) for determining whether the Sensor is operating under Normal, NonCritical, Critical conditions. If the CurrentReading is above UpperThresholdCritical, then the Current State is critical.
UpperThresholdNonCritical	The Sensor's threshold values specify the ranges (min and max values) for determining whether the Sensor is operating under Normal, NonCritical or Critical conditions. If the CurrentReading is between LowerThresholdNonCritical and UpperThresholdNonCritical, then the Sensor is reporting a normal value. If the CurrentReading is between UpperThreshold NonCritical and UpperThresholdCritical, then the CurrentState is NonCritical.

Property	Description
	Example for Set command: wmic /namespace:\\root\dcim\sysman path dcim_numericSensor Where ElementName like '%Temperature Sensor:%' set UpperThresholdNonCritical = 70
ValueFormulation	Indicates the method used by the sensor to produce its reading. Possible values are: <ul style="list-style-type: none"> • 0 = Unknown • 2 = Measured - Indicates the value is measured directly by the sensor. • 3 = Derived - Indicates the value is derived from other measured values that are not reported discretely by this sensor. • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
SupportedThresholds	SupportedThresholds property is an array that contains the list of the implemented thresholds: LowerThresholdNonCritical, UpperThresholdNonCritical, LowerThresholdCritical, UpperThresholdCritical. When the implementation does not support any of these threshold properties, the CIM_NumericSensor.SupportedThresholds property shall be an empty array.
SettableThresholds	SettableThresholds property is an array that contains the list of the settable implemented thresholds: LowerThresholdNonCritical, UpperThresholdNonCritical. The CIM_NumericSensor.SettableThresholds array shall contain the subset of values in the CIM_NumericSensor.SupportedThresholds array. When the implementation does not support any of the settable threshold properties, the CIM_NumericSensor.SettableThresholds property shall be an empty array.


DCIM_Sensor

Property	Description
Caption	The Caption property is a short textual description (one- line string) of the object.
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.
CurrentState	The current state indicated by the Sensor. This is always one of the PossibleStates .
DeviceID	An address or other identifying information used to uniquely name the LogicalDevice.

Property	Description
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued.

Property	Description
HealthState	<ul style="list-style-type: none"> • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved <p>For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Indicates the current health of the element. This attribute expresses the health of this element but not necessarily that of its subcomponents.</p> <p>DMTF has reserved the unused portion of the continuum for additional HealthStates in the future.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — The implementation cannot report on HealthState at this time. • 5 = OK — The element is fully functional and is operating within normal operational parameters and without error. • 10 = Degraded/Warning — The element is in working order and all functionality is provided. However, the element is not working to the best of its abilities. For example, the element may not be operating at optimal performance or it may be reporting recoverable errors. • 15 = Minor failure — All functionality is available but some may be degraded. • 20 = Major failure — The element is failing. It is possible that some or all of the functionality of this component is degraded or not working. • 25 = Critical failure — The element is non-functional and recovery may not be possible. • 30 = Non-recoverable error — The element has completely failed, and recovery is not possible. All functionality provided by this element has been lost. • .. = DMTF Reserved
OperationalStatus	<p>Indicates the current statuses of the element. Various operational statuses are defined. Many of the enumeration's values are self-explanatory. However, a few are not and are described here in more detail.</p> <p>Stressed, Predictive Failure, In Service, No Contact, Lost Communication, Stopped and Aborted are similar, although the former , while the latter Dormant, Supporting Entity in Error, Completed, Power Mode, OperationalStatus replaces the Status property on ManagedSystemElement to provide a consistent approach to enumerations, to address implementation needs for an array property, and to provide a migration path from today's environment to the future. This change was not made earlier because it required the deprecated qualifier. Due to the widespread use of the existing Status property in management applications, it is strongly recommended that providers or instrumentation provide both the Status and OperationalStatus properties. Further, the first value of OperationalStatus should contain the primary status for the element. When instrumented, Status (because it is single-valued) should also provide the primary status of the element.</p>

Property	Description
	<p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = OK • 3 = Degraded • 4 = Stressed — Indicates that the element is functioning, but needs attention. Examples of Stressed states are overload, overheated, and so on. • 5 = Predictive Failure — Indicates that an element is functioning nominally but predicting a failure in the near future. • 6 = Error • 7 = Non-Recoverable Error • 8 = Starting • 9 = Stopping • 10 = Stopped — Implies a clean and orderly stop. • 11 = In Service — Describes an element being configured, maintained, cleaned, or otherwise administered. • 12 = No Contact — Indicates that the monitoring system has knowledge of this element, but has never been able to establish communications with it. • 13 = Lost Communication — Indicates that the ManagedSystem Element is known to exist and has been contacted successfully in the past, but is currently unreachable. • 14 = Aborted — Implies an abrupt stop where the state and configuration of the element may need to be updated. • 15 = Dormant — Indicates that the element is inactive or quiesced. • 16 = Supporting Entity in Error — Indicates that this element may be OK but that another element, on which it is dependent, is in error. An example is a network service or endpoint that cannot function due to lower-layer networking problems. • 17 = Completed — Indicates that the element has completed its operation. This value should be combined with either OK, Error, or Degraded so that a client can tell if the complete operation Completed with OK (passed), Completed with Error (failed), or Completed with Degraded (the operation finished, but it did not complete OK or did not report an error). • 18 = Power Mode — Indicates that the element has additional power model information contained in the Associated PowerManagementService association. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved
PossibleStates	<p>Enumerates the string outputs of the Sensor. For example, a Switch Sensor may output the states On, or Off. Another implementation of the Switch may output the states Open, and Close. Another example is a NumericSensor supporting thresholds. This Sensor can report the states like Normal, Upper Fatal, Lower Non-Critical, and so on. A NumericSensor that does not publish readings and thresholds, but stores this data internally, can still report its states.</p>
PrimaryStatus	<p>Provides a high level status value, intended to align with Red-Yellow-Green type representation of status. It should be used in conjunction</p>


Property	Description
	<p>with DetailedStatus to provide high level and detailed health status of the ManagedElement and its subcomponents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the implementation is in general capable of returning this property, but is unable to do so at this time. • 1 = OK — Indicates the ManagedElement is functioning normally. • 2 = Degraded — Indicates the ManagedElement is functioning below normal. • 3 = Error — Indicates the ManagedElement is in an Error condition. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states. Note that when EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration. Unknown (0) indicates the last requested state for the element is unknown.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5). Offline (6) indicates that the element has been requested to transition to the Enabled but Offline EnabledState. There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11). Reboot refers to doing a Shut Down and then moving to an Enabled state. Reset indicates that the element is first Disabled and then Enabled.</p> <p>Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown

Property	Description
SensorType	<ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>The Type of the Sensor, e.g. Voltage or Temperature Sensor. If the type is set to Other, then the OtherSensorType Description can be used to further identify the type, or if the Sensor has numeric readings, then the type of the Sensor can be implicitly determined by the Units. A description of the different Sensor types is as follows: A Temperature Sensor measures the environmental temperature. Voltage and Current Sensors measure electrical voltage and current readings. A Tachometer measures speed/revolutions of a Device. For example, a Fan Device can have an associated Tachometer which measures its speed. A Counter is a general purpose Sensor that measures some numerical property of a Device. A Counter value can be cleared, but it never decreases. A Switch Sensor has states like Open/Close, On/Off, or Up/Down. A Lock has states of Locked/Unlocked. Humidity, Smoke Detection and Air Flow Sensors measure the equivalent environmental characteristics. A Presence Sensor detects the presence of a PhysicalElement. A Power Consumption Sensor measures the instantaneous power consumed by a managed element. A Power Production Sensor measures the instantaneous power produced by a managed element such as a power supply or a voltage regulator. A pressure sensor is used to report pressure. Intrusion sensor reports an intrusion of an enclosure regardless whether it was authorized or not.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Temperature • 3 = Voltage • 4 = Current • 5 = Tachometer • 6 = Counter • 7 = Switch • 8 = Lock • 9 = Humidity • 10 = Smoke Detection • 11 = Presence



Property	Description
	<ul style="list-style-type: none"> • 12 = Air Flow • 13 = Power Consumption • 14 = Power Production • 15 = Pressure • 16 = Intrusion • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
SystemCreationClassName	The CreationClassName of the scoping system.
SystemName	The System Name of the scoping system.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable — Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_DeviceBay

Property	Description
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.
Description	Defines the physical location of the device bay. Provides a textual description of the object.
DeviceBayLocation	<p>Defines the type of Device Bay.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Other • 1 = Unknown

Property	Description
	<ul style="list-style-type: none"> • 2 = Proprietary Bay • 3 = Standard Desktop Device Bay • 4 = Standard Mobile Device Bay • 5 = Standard Ultra-Mobile Device Bay • 6..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved
DeviceBayType	<p>Defines the type of Device Bay.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Other • 1 = Unknown • 2 = Proprietary Bay • 3 = Standard Desktop Device Bay • 4 = Standard Mobile Device Bay • 5 = Standard Ultra-Mobile Device Bay • 6..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved
DeviceCurrentlyAttached	An address or other identifying information used to uniquely name the LogicalDevice.
DeviceID	An address or other identifying information used to uniquely name the LogicalDevice.
DeviceSupported	Defines a string containing a list of devices supported in this bay separated by commas.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce


Property	Description
	<ul style="list-style-type: none"> .. = DMTF Reserved 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown 1 = Other 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. 5 = Not Applicable — Indicates the element does not support being enabled or disabled. 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. 7 = In Test — Indicates that the element is in a test state. 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. 11..32767 = DMTF Reserved 32768..65535 = Vendor Reserved
IdentifyingDescriptions	<p>An array of free-form strings providing explanations and details behind the entries in the OtherIdentifyingInfo array. Note that each entry of this array is related to the entry in OtherIdentifyingInfo that is located at the same index.</p>
LogicalModuleType	<p>Identifies the type of LogicalModule this instance represents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown — Indicates that the LogicalModuleType is unknown. 1 = Other — Indicates that the value is not one of the enumerated values. OtherLogicalModuleTypeDescription should contain additional information. 2 = Device Tray — Indicates that the device is a device or media tray, for example in a modular system. 3 = Line Card — Indicates that the module is a line card in a switch. 4 = Blade — Indicates the module is a blade inserted into a switch. 5..32767 = DMTF Reserved

Property	Description
	<ul style="list-style-type: none"> 32768..65535 = Vendor Reserved
ModuleNumber	Logical modules are often named by the physical or logical slot that they occupy within the containing device. ModuleNumber is the number assigned to the module by its parent.
OtherIdentifyingInfo	OtherIdentifyingInfo captures data, in addition to DeviceID information, that could be used to identify a LogicalDevice. For example, you could use this property to hold the operating system's user-friendly name for the Device.
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown — Indicates the last requested state for the element is unknown. 2 = Enabled 3 = Disabled 4 = Shut Down 5 = No Change 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. 7 = Test 8 = Deferred 9 = Quiesce 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. 11 = Reset — Indicates that the element is first Disabled and then Enabled 12 = Not Applicable .. = DMTF Reserved 32768..65535 = Vendor Reserved <p> NOTE: When EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11).</p> <p>Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state.</p>



Property	Description
	<p>The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p>
SystemCreationClassName	The CreationClassName of the scoping system.
SystemName	The System Name of the scoping system.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change – Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable – Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_VideoHead

Property	Description
Caption	The Caption property is a short textual description (one- line string) of the object.
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.
CurrentBitsPerPixel	The number of bits used to display each pixel.

Property	Description
CurrentHorizontalResolution	Current number of horizontal pixels.
CurrentNumberOfColumns	If in character mode, number of columns for this DisplayController. Otherwise, enter 0.
CurrentNumberOfRows	If in character mode, number of rows for this Video Controller. Otherwise, enter 0.
CurrentScanMode	Current scan mode. Possible values are: <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Not Supported • 3 = Non-Interlaced Operation • 4 = Interlaced Operation
CurrentVerticalResolution	Current number of vertical pixels.
Description	Provides a textual description of the object.
DeviceID	An address or other identifying information used to uniquely name the LogicalDevice.
ElementName	A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.  NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.
EnabledDefault	An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element. Possible values are: <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved By default, the element is Enabled (value = 2) .

Property	Description
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not run commands and drops any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates that the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and drops any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but queues any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved <p>For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p>
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state.



Property	Description
	<ul style="list-style-type: none"> • 11 = Reset – Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p> NOTE: When EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11).</p> <p>Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p>
SystemCreationClassName	The CreationClassName of the scoping system.
SystemName	The System Name of the scoping system.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change – Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot

Property	Description
	<ul style="list-style-type: none"> 11 = Reset 12 = Not Applicable – Indicates that the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_Button

Property	Description
ButtonPurpose	<p>The ButtonPurpose property identifies or defines the use of the button represented by the instance. If the type is set to Other, then the OtherButtonPurpose property can be used to further identify the purpose. Descriptions of the different Button purposes are as follows: A Power Button changes the power state of a device. A reset button is used to reset the state of a device. Undock is used to undock or disconnect a device or entire system from a separate device or system. An Open or Close button is used on a device that has an object that usually moves such as a drawer, door, or tray.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown 1 = Other 2 = Power 3 = Reset 4 = Undock 5 = Open/Close 6..32767 = DMTF Reserved 32768..65535 = Vendor Reserved
ButtonType	<p>The ButtonType property identifies or defines the type the button represented by the instance.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown 1 = Other 2 = Momentary 3 = Toggle 4..32767 = DMTF Reserved 32768..65535 = Vendor Reserved <p>If the type is set to Other, then the OtherButtonType property can be used to further identify the type. A momentary button is one that depressed for a moment to cause the desired affect the target device or circuit A toggle type button is one that will remain in a switched or depressed position until it is depressed or switched again.</p>
CreationClassName	<p>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,</p>

Property	Description
DeviceID	<p>this property allows all instances of this class and its subclasses to be uniquely identified.</p> <p>An address or other identifying information used to uniquely name the LogicalDevice.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved

Property	Description
RequestedState	<p data-bbox="624 239 1369 289">For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p data-bbox="624 327 1394 457">An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states.</p> <p data-bbox="624 487 839 512">Possible values are:</p> <ul data-bbox="624 541 1394 1108" style="list-style-type: none"> • 0 = Unknown — Indicates the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline - Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot - Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p data-bbox="624 1138 1394 1247"> NOTE: When EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p data-bbox="624 1264 1394 1402"> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p data-bbox="624 1423 1321 1474">There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11).</p> <p data-bbox="624 1503 1378 1633">Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p data-bbox="624 1663 1394 1738">This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered</p>

Property	Description
	<p>superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p>
SystemCreationClassName	The CreationClassName of the scoping system.
SystemName	The System Name of the scoping system.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable — Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_LCDPanel


Property	Description
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.
DeviceID	An address or other identifying information used to uniquely name the LogicalDevice.
DisplayDataCategory	<p>Identifies the category of data to be displayed on the LCD Panel.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = None • 3 = User Specified • 4 = Default • 5 = IPv4 Address


Property	Description
	<ul style="list-style-type: none"> • 6 = IDRAC MAC Address • 7 = Service Tag • 8 = System Name • 9 = IPv6 Address • 10 = Ambient • 11 = System Power
DisplayModeUserString	Contains a user configurable string to be displayed on the LCD panel if DisplayDataCategory has the value 3 .
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued.

Property	Description
	<ul style="list-style-type: none"> 11..32767 = DMTF Reserved 32768..65535 = Vendor Reserved <p>For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p>
LocalConfigurationEnabled	Indicates if the LCD panel may be used to modify the system configuration. A value of true indicates system configuration via the LCD panel is enabled. A value of false indicates system configuration via the LCD panel is disabled.
SystemCreationClassName	The CreationClassName of the scoping system.
SystemName	The System Name of the scoping system.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown 2 = Enabled 3 = Disabled 4 = Shut Down 5 = No Change — Indicates that no transition is in progress. 6 = Offline 7 = Test 8 = Defer 9 = Quiesce 10 = Reboot 11 = Reset 12 = Not Applicable — Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_NetworkPortConfigurationService

Property	Description
CreationClassName	Indicates the name of the class or the subclass that is 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.
ElementName	A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.


Property	Description
	 NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not run commands and drops any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates that the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and drops any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but queues any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved

Property	Description
Name	<p>For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>The Name property uniquely identifies the Service and provides an indication of the functionality that is managed. This functionality is described in more detail in the Description property of the object.</p>
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates that the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>Note that when EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11).</p> <p>Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as</p>

Property	Description
	<p>WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 (Not Applicable).</p>
SystemCreationClassName	The CreationClassName of the scoping System.
SystemName	The Name of the scoping System.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change – Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable – Indicates that the implementation does not support representing ongoing transitions <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_TimeService

Property	Description
CreationClassName	Indicates the name of the class or the subclass that is 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.
ElementName	A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.



Property	Description
	<p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties. EnabledDefault An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>

EnabledState

An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = **4**) and starting (value = **10**) are transient states between enabled and disabled.


Possible values are:

- 0 = Unknown
- 1 = Other
- 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests.
- 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests.
- 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state.
- 5 = Not Applicable — Indicates the element does not support being enabled or disabled.
- 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests.
- 7 = In Test — Indicates that the element is in a test state.
- 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests.
- 9 = Quiesce — Indicates that the element is enabled but in a restricted mode.
- 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued.
- 11..32767 = DMTF Reserved
- 32768..65535 = Vendor Reserved



Property	Description
Name	The Name property uniquely identifies the Service and provides an indication of the functionality that is managed. This functionality is described in more detail in the Description property of the object.
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p> NOTE: When EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5). There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11). Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p>

Property	Description
	If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable .
SystemCreationClassName	The CreationClassName of the scoping System.
SystemName	The Name of the scoping System.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable — Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_AccountManagementService


Property	Description
CreationClassName	Indicates the name of the class or the subclass that is 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.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>



Property	Description
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, processes any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not run commands and drops any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates that the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and drops any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but queues any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved
Name	<p>The Name property uniquely identifies the Service and provides an indication of the functionality that is managed. This functionality is described in more detail in the Description property of the object.</p>
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it</p>

Property	Description
	<p>was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates that the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p> NOTE: When EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11). Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not run or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p>
SystemCreationClassName	The CreationClassName of the scoping System.

Property	Description
SystemName	The Name of the scoping System.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable — Indicates that the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_RoleBasedAuthorizationService


Property	Description
CreationClassName	Indicates the name of the class or the subclass that is 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.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable

Property	Description
Name	<ul style="list-style-type: none"> • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p> <p>The Name property uniquely identifies the Service and provides an indication of the functionality that is managed. This functionality is described in more detail in the Description property of the object.</p>
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p> NOTE: When EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11).</p> <p>Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state.</p>



Property	Description
	<p>The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p>
SystemCreationClassName	The CreationClassName of the scoping System.
SystemName	The Name of the scoping System.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change – Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable – Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_PowerManagementService

Property	Description
CreationClassName	Indicates the name of the class or the subclass that is 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.
ElementName	A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.


Property	Description
EnabledDefault	<p data-bbox="625 254 1390 447">  NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties. </p> <p data-bbox="625 474 1390 527">An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p data-bbox="625 554 836 579">Possible values are:</p> <ul data-bbox="625 606 1027 873" style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p data-bbox="625 898 1126 919">By default, the element is Enabled (value = 2).</p>
EnabledState	<p data-bbox="625 957 1390 1062">An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p data-bbox="625 1089 836 1115">Possible values are:</p> <ul data-bbox="625 1142 1390 1759" style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, processes any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not run commands and drops any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates that the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and drops any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but queues any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved

Property	Description
	<ul style="list-style-type: none"> • 32768..65535 = Vendor Reserved
Name	The Name property uniquely identifies the Service and provides an indication of the functionality that is managed. This functionality is described in more detail in the Description property of the object.
OtherEnabledState	A string that describes the enabled or disabled state of the element when the EnabledState property is set to 1 (Other) . This property must be set to null when EnabledState is any value other than 1.
PrimaryOwnerContact	A string that provides information on how the primary owner of the Service can be reached (for example, phone number, e-mail address and so on).
PrimaryOwnerName	The name of the primary owner for the service, if one is defined. The primary owner is the initial support contact for the Service.
PrimaryStatus	<p>Provides a high-level status value, intended to align with Red-Yellow-Green type representation of status. It should be used with DetailedStatus to provide high level and detailed health status of the ManagedElement and its subcomponents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates that the implementation is in general capable of returning this property, but is unable to do so now. • 1 = OK — Indicates the ManagedElement is functioning normally. • 2 = Degraded — Indicates the ManagedElement is functioning below normal. • 3 = Error — Indicates the ManagedElement is in an Error condition. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates that the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce



Property	Description
	<ul style="list-style-type: none"> • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p> NOTE: When EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11).</p> <p>Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not run or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p>
SystemCreationClassName	The CreationClassName of the scoping System.
SystemName	The Name of the scoping System.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce

Property	Description
	<ul style="list-style-type: none"> • 10 = Reboot • 11 = Reset • 12 = Not Applicable — Indicates that the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>


DCIM_BootService

Property	Description
CreationClassName	Indicates the name of the class or the subclass that is 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.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element. By default, the element is Enabled (value = 2).</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other

Property	Description
Name	<p>The Name property uniquely identifies the Service and provides an indication of the functionality that is managed. This functionality is described in more detail in the Description property of the object.</p>
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved

Property	Description
	<p data-bbox="624 247 1398 352">  NOTE: When EnabledState is set to 5 (Not Applicable), then this property has no meaning. See the EnabledState property description for explanations of the values in the RequestedState enumeration. </p> <p data-bbox="624 373 1398 499">  NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5). </p> <p data-bbox="624 531 1398 709"> There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11). Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests. </p> <p data-bbox="624 741 1398 867"> This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code. </p> <p data-bbox="624 898 1398 982"> If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable. </p>
SystemCreationClassName	The CreationClassName of the scoping System.
SystemName	The Name of the scoping System.
TransitioningToState	<p data-bbox="624 1136 1398 1165">Indicates the target state to which the instance is transitioning.</p> <p data-bbox="624 1186 1398 1215">Possible values are:</p> <ul data-bbox="624 1241 1398 1669" style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable — Indicates the implementation does not support representing ongoing transitions. <p data-bbox="624 1690 1398 1747">A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_IPConfigurationService

Property	Description
CreationClassName	Indicates the name of the class or the subclass that is 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.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element. By default, the element is Enabled (value = 2).</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 2 = Enabled• 3 = Disabled• 5 = Not Applicable• 6 = Enabled but Offline• 7 = No Default• 9 = Quiesce• .. = DMTF Reserved• 32768..65535 = Vendor Reserved
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 0 = Unknown• 1 = Other• 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests.• 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests.• 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state.• 5 = Not Applicable — Indicates the element does not support being enabled or disabled.

Property	Description
	<ul style="list-style-type: none"> • 6 = Enabled but Offline – Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test – Indicates that the element is in a test state. • 8 = Deferred – Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce – Indicates that the element is enabled but in a restricted mode. • 10 = Starting – Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved
Name	The Name property uniquely identifies the Service and provides an indication of the functionality that is managed. This functionality is described in more detail in the Description property of the object.
SystemCreationClassName	The CreationClassName of the scoping System.
SystemName	The Name of the scoping System.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change – Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable – Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>



DCIM_PowerUtilizationManagementService

Property	Description
CreationClassName	Indicates the name of the class or the subclass that is used in the creation of an instance. When used with the other key properties of

Property	Description
EnabledDefault	<p data-bbox="624 243 1374 296">this class, this property allows all instances of this class and its subclasses to be uniquely identified.</p> <p data-bbox="624 327 1374 411">An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element. By default, the element is Enabled (value = 2).</p> <p data-bbox="624 432 839 457">Possible values are:</p> <ul data-bbox="624 485 1031 751" style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
EnabledState	<p data-bbox="624 785 1394 890">An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p data-bbox="624 915 839 940">Possible values are:</p> <ul data-bbox="624 968 1394 1598" style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved
Name	<p data-bbox="624 1631 1358 1709">The Name property uniquely identifies the Service and provides an indication of the functionality that is managed. This functionality is described in more detail in the Description property of the object.</p>


Property	Description
PendingPowerUtilizationAlgorithm	<p>This property describes the pending requested algorithm to be employed by the service for power utilization.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = None — Indicates that currently the service is not employing any power utilization algorithm. If the property value is 2 (None), then the PowerUtilizationMode is equal to 2 (None). • 3 = Custom Settings Based — Indicates that the service is employing power utilization algorithm based on a specific settings. This settings may be represented by the DCIM_PowerUtilizationSettingData instance associated • 4 = Maximum Performance — Indicates that the service is employing a power utilization that yields the maximum performance for the affected managed elements. If the property value is 4 (Maximum Performance), then the PowerUtilizationMode is equal to 4 (Static). • 5 = Minimum Performance — Indicates that the service is employing a power utilization that yields the minimum power consumption for the affected managed elements. If the property value is 5 (Minimum Performance), then the PowerUtilizationMode is equal to 4 (Static). • 6 = OS Specific — Indicates that the service is employing a power utilization defined by the operating system. If the property value is 6 (OS Specific), then the PowerUtilizationMode is equal to 3 (Dynamic). • 7 = Active Power Utilization — Indicates that the service is employing a specific algorithm to yield the best power consumption and performance for the affected managed elements. If the property value is 7 (Active Power Utilization), then the PowerUtilizationMode is equal to 3 (Dynamic).
PowerUtilizationAlgorithm	<p>Describes the algorithm employed by the service for power utilization. Depending on the performance and power needs of the managed element, the selection could be made for the appropriate algorithm to be deployed for the power utilization.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown(Dynamic). • 2 = None — Indicates that currently the service is not employing any power utilization algorithm. If the property value is 2 (None), then the PowerUtilizationMode is equal to 2 (None). • 3 = Custom Settings Based — Indicates that the service is employing power utilization algorithm based on a specific settings. This settings may be represented by the DCIM_PowerUtilizationSettingData instance associated • 4 = Maximum Performance — Indicates that the service is employing a power utilization that yields the maximum performance for the affected managed elements. If the property value is 4 (Maximum Performance), then the PowerUtilizationMode is equal to 4 (Static). • 5 = Minimum Performance — Indicates that the service is employing a power utilization that yields the minimum power consumption for the affected managed elements. If the property value is 5 (Minimum Performance), then the PowerUtilizationMode is equal to 4 (Static). • 6 = OS Specific — Indicates that the service is employing a power utilization defined by the operating system. If the property value is

Property	Description
PowerUtilizationMode	<p data-bbox="663 243 1326 289">6 (OS Specific), then the PowerUtilizationMode is equal to 3 (Dynamic).</p> <ul data-bbox="625 302 1342 422" style="list-style-type: none"> • 7 = Active Power Utilization — Indicates that the service is employing a specific algorithm to yield the best power consumption and performance for the affected managed elements. If the property value is 7 (Active Power Utilization), then the PowerUtilizationMode is equal to 3 <p data-bbox="625 453 1374 531">Indicates the current power utilization mode implemented by the service. The mode selection is a generally made infrequently as part of element configuration.</p> <p data-bbox="625 562 839 588">Possible values are:</p> <ul data-bbox="625 611 1390 1178" style="list-style-type: none"> • 0 = Unknown — Indicates the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
RequestedState	<p data-bbox="625 1213 1390 1346">An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states.</p> <p data-bbox="625 1377 839 1402">Possible values are:</p> <ul data-bbox="625 1425 1390 1772" style="list-style-type: none"> • 0 = Unknown — Indicates the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce


Property	Description
	<ul style="list-style-type: none"> • 10 = Reboot - Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p> NOTE: When EnabledState is set to 5 (Not Applicable), then this property has no meaning. See the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11). Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p>
SystemCreationClassName	The CreationClassName of the scoping System.
SystemName	The Name of the scoping System.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce

Property	Description
	<ul style="list-style-type: none"> • 10 = Reboot • 11 = Reset • 12 = Not Applicable — Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>

DCIM_BIOSService

Property	Description
CreationClassName	Indicates the name of the class or the subclass that is 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.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element. By default, the element is Enabled (value = 2).</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other

Property	Description
Name	<p>The Name property uniquely identifies the Service and provides an indication of the functionality that is managed. This functionality is described in more detail in the Description property of the object.</p>
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested. The actual state of the element is represented by EnabledState.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>This property is provided to compare the last requested and current enabled or disabled states. Note that when EnabledState is set to 5</p>


Property	Description
	<p>(Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11). Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p>
SystemCreationClassName	The CreationClassName of the scoping System.
SystemName	The Name of the scoping System.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change – Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable – Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>
SetBIOSAttributes (Method)	This method is called to modify a group of BIOSAttribute instances associated with this BIOSService. If the method is not supported by

Property	Description
	the implementation, 1 (Not Supported) shall be returned. If the method is supported, but has not completed due to an unspecified error, 2 (Error) shall be returned. If the method is supported and has completed successfully, 0 (Completed with No Error) shall be returned. The method may return an instance of CIM_Error.
RemoteBIOSUpdate (Method)	This method is called to remotely update the BIOS image. It takes the hdr file of the BIOS image as the only parameter.

DCIM_SoftwareInstallationService

Property	Description
CreationClassName	Indicates the name of the class or the subclass that is 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.
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled.

Property	Description
Name	<ul style="list-style-type: none"> • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved <p>The Name property uniquely identifies the Service and provides an indication of the functionality that is managed. This functionality is described in more detail in the Description property of the object.</p>
PrimaryOwnerContact	<p>A string that provides information on how the primary owner of the Service can be reached (for example, phone number, e-mail address, and so on).</p>
PrimaryOwnerName	<p>The name of the primary owner for the service, if one is defined. The primary owner is the initial support contact for the Service.</p>
PrimaryStatus	<p>Provides a high level status value, intended to align with Red-Yellow-Green type representation of status. It should be used in conjunction with DetailedStatus to provide high level and detailed health status of the ManagedElement and its subcomponents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the implementation is in general capable of returning this property, but is unable to do so at this time. • 1 = OK — Indicates the ManagedElement is functioning normally. • 2 = Degraded — Indicates the ManagedElement is functioning below normal. • 3 = Error — Indicates the ManagedElement is in an Error condition. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change


Property	Description
	<ul style="list-style-type: none"> • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states. Note that when EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11). Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p>
SystemCreationClassName	The CreationClassName of the scoping System.
SystemName	The Name of the scoping System.
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled

Property	Description
	<ul style="list-style-type: none"> • 4 = Shut Down • 5 = No Change – Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable – Indicates the implementation does not support representing ongoing transitions. <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>


DCIM_ComputerSystem

Property	Description
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.
Dedicated	<p>Enumeration indicating the purpose(s) for which the ComputerSystem is dedicated, if any, and the functionality provided. For example, one could specify that the System is dedicated to Print (value = 11) or acts as a Hub (value = 8).</p> <p>Also, a value = 0 indicates this is a general purpose system, Not Dedicated but that it also hosts Print (value = 11) or mobile phone Mobile User Device (value = 17) services.</p> <p>A clarification is needed with respect to the value 17 (Mobile User Device). An example of a dedicated user device is a mobile phone or a barcode scanner in a store that communicates via radio frequency. These systems are quite limited in functionality and programmability, and are not considered general purpose computing platforms. Alternately, an example of a mobile system that is general purpose (that is, is NOT dedicated) is a hand-held computer. Although limited in its programmability, new software can be downloaded and its functionality expanded by the user.</p> <p>The management scope of a Management Controller is typically a single managed system in which it is contained.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Not Dedicated • 1 = Unknown • 2 = Other • 3 = Storage • 4 = Router • 5 = Switch


Property	Description
	<ul style="list-style-type: none"> • 6 = Layer 3 Switch • 7 = Central Office Switch • 8 = Hub • 9 = Access Server • 10 = Firewall • 11 = Print • 12 = I/O • 13 = Web Caching • 14 = Management — Indicates this instance is dedicated to hosting system management software. • 15 = Block Server • 16 = File Server • 17 = Mobile User Device • 18 = Repeater • 19 = Bridge/Extender • 20 = Gateway • 21 = Storage Virtualizer • 22 = Media Library • 23 = ExtenderNode • 24 = NAS Head • 25 = Self-contained NAS • 26 = UPS • 27 = IP Phone • 28 = Management Controller — Indicates this instance represents specialized hardware dedicated to systems management (i.e., a Baseboard Management Controller (BMC) or service processor). • 29 = Chassis Manager — Indicates this instance represents a system dedicated to management of a blade chassis and its contained devices. This value would be used to represent a Shelf Controller. A Chassis Manager is an aggregation point for management and may rely on subordinate management controllers for the management of constituent parts. • 30 = Host-based RAID controller — Indicates this instance represents a RAID storage controller contained within a host computer. • 31 = Storage Device Enclosure — Indicates this instance represents an enclosure that contains storage devices. • 32 = Desktop • 33 = Laptop • 34 = Virtual Tape Library — Is the emulation of a tape library by a Virtual Library System. • 35 = Virtual Library System — Uses disk storage to emulate tape libraries. • 36..32567 = DMTF Reserved • 32568..65535 = Vendor Reserved
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p>

Property	Description
	 NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved

Property	Description
HealthState	<ul style="list-style-type: none"> • 32768..65535 = Vendor Reserved <p>Indicates the current health of the element. This attribute expresses the health of this element but not necessarily that of its subcomponents.</p> <p>DMTF has reserved the unused portion of the continuum for additional HealthStates in the future.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — The implementation cannot report on HealthState at this time. • 5 = OK — The element is fully functional and is operating within normal operational parameters and without error. • 10 = Degraded/Warning — The element is in working order and all functionality is provided. However, the element is not working to the best of its abilities. For example, the element may not be operating at optimal performance or it may be reporting recoverable errors. • 15 = Minor failure — All functionality is available but some may be degraded. • 20 = Major failure — The element is failing. It is possible that some or all of the functionality of this component is degraded or not working. • 25 = Critical failure — The element is non-functional and recovery may not be possible. • 30 = Non-recoverable error — The element has completely failed, and recovery is not possible. All functionality provided by this element has been lost. • .. = DMTF Reserved
IdentifyingDescriptions	<p>An array of free-form strings providing explanations and details behind the entries in the OtherIdentifying Info array. Note, each entry of this array is related to the entry in OtherIdentifyingInfo that is located at the same index.</p>
Name	<p>The inherited Name serves as the key of a system instance in an enterprise environment.</p>
OperationalStatus	<p>Indicates the current statuses of the element. Various operational statuses are defined. Many of the enumeration's values are self-explanatory.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = OK • 3 = Degraded • 4 = Stressed - Indicates that the element is functioning, but needs attention. Examples of Stressed states are overload, overheated, and so on. • 5 = Predictive Failure — Indicates that an element is functioning nominally but predicting a failure in the near future.


Property	Description
	<ul style="list-style-type: none"> • 6 = Error • 7 = Non-Recoverable Error • 8 = Starting • 9 = Stopping • 10 = Stopped — Implies a clean and orderly stop. • 11 = In Service — Describes an element being configured, maintained, cleaned, or otherwise administered. • 12 = No Contact — Indicates that the monitoring system has knowledge of this element, but has never been able to establish communications with it. • 13 = Lost Communication — Indicates that the ManagedSystem Element is known to exist and has been contacted successfully in the past, but is currently unreachable. • 14 = Aborted — Implies an abrupt stop where the state and configuration of the element may need to be updated. • 15 = Dormant — Indicates that the element is inactive or quiesced. • 16 = Supporting Entity in Error — Indicates that this element may be OK but that another element, on which it is dependent, is in error. An example is a network service or endpoint that cannot function due to lower-layer networking problems. • 17 = Completed — Indicates that the element has completed its operation. This value should be combined with either OK, Error, or Degraded so that a client can tell if the complete operation Completed with OK (passed), Completed with Error (failed), or Completed with Degraded (the operation finished, but it did not complete OK or did not report an error). • 18 = Power Mode — Indicates that the element has additional power model information contained in the Associated PowerManagementService association. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved <p>OperationalStatus replaces the Status property on ManagedSystemElement to provide a consistent approach to enumerations, to address implementation needs for an array property, and to provide a migration path from today's environment to the future. This change was not made earlier because it required the deprecated qualifier. Due to the widespread use of the existing Status property in management applications, it is strongly recommended that providers or instrumentation provide both the Status and OperationalStatus properties. Further, the first value of OperationalStatus should contain the primary status for the element. When instrumented, Status (because it is single-valued) should also provide the primary status of the element.</p>
OtherIdentifyingInfo	<p>Captures additional data, beyond System Name information, that could be used to identify a ComputerSystem. One example would be to hold the Fibre Channel World-Wide Name (WWN) of a node.</p> <p> NOTE: If only the Fibre Channel name is available and is unique (able to be used as the System key), then this property would be NULL and the WWN would become the System key, its data placed in the Name property.</p>

Property	Description
PrimaryStatus	<p data-bbox="624 239 1385 348">Provides a high level status value, intended to align with Red-Yellow-Green type representation of status. It should be used in conjunction with DetailedStatus to provide high level and detailed health status of the ManagedElement and its subcomponents.</p> <p data-bbox="624 373 839 403">Possible values are:</p> <ul data-bbox="624 428 1385 716" style="list-style-type: none"> <li data-bbox="624 428 1385 499">• 0 = Unknown — Indicates the implementation is in general capable of returning this property, but is unable to do so at this time. <li data-bbox="624 504 1385 533">• 1 = OK — Indicates the ManagedElement is functioning normally. <li data-bbox="624 537 1385 588">• 2 = Degraded — Indicates the ManagedElement is functioning below normal. <li data-bbox="624 592 1385 642">• 3 = Error — Indicates the ManagedElement is in an Error condition. <li data-bbox="624 646 879 676">• .. = DMTF Reserved <li data-bbox="624 680 979 709">• 0x8000.. = Vendor Reserved
RequestedState	<p data-bbox="624 751 1385 823">An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested.</p> <p data-bbox="624 848 839 877">Possible values are:</p> <ul data-bbox="624 903 1385 1455" style="list-style-type: none"> <li data-bbox="624 903 1385 953">• 0 = Unknown — Indicates the last requested state for the element is unknown. <li data-bbox="624 957 794 987">• 2 = Enabled <li data-bbox="624 991 801 1020">• 3 = Disabled <li data-bbox="624 1024 831 1054">• 4 = Shut Down <li data-bbox="624 1058 831 1087">• 5 = No Change <li data-bbox="624 1092 783 1121">• 6 = Offline <li data-bbox="624 1125 751 1155">• 7 = Test <li data-bbox="624 1159 804 1188">• 8 = Deferred <li data-bbox="624 1192 799 1222">• 9 = Quiesce <li data-bbox="624 1226 1385 1276">• 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. <li data-bbox="624 1281 1385 1331">• 11 = Reset — Indicates that the element is first Disabled and then Enabled. <li data-bbox="624 1335 879 1365">• 12 = Not Applicable <li data-bbox="624 1369 879 1398">• .. = DMTF Reserved <li data-bbox="624 1402 1027 1432">• 32768..65535 = Vendor Reserved <p data-bbox="624 1478 1385 1635">The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states. Note that when EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p>

Property	Description
	<p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5). Offline (6) indicates that the element has been requested to transition to the Enabled but Offline EnabledState.</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11). Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p>
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change — Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable — Indicates the implementation does not support representing ongoing transitions <p>A value other than 5 or 12 identifies the state to which the element is in the process of transitioning.</p>
RequestStateChange (Method)	<p>Requests that the state of the element be changed to the value specified in the RequestedState parameter. When the requested state change takes place, the EnabledState and RequestedState of the element will be the same. Invoking the RequestStateChange method multiple times could result in earlier requests being overwritten or lost.</p>

Property	Description
	<p>A return code of 0 shall indicate the state change was successfully initiated.</p> <p>A return code of 3 shall indicate that the state transition cannot complete within the interval specified by the TimeoutPeriod parameter.</p> <p>A return code of 4096 (0x1000) shall indicate the state change was successfully initiated, a ConcreteJob has been created, and its reference returned in the output parameter Job. Any other return code indicates an error condition.</p>

DCIM_RecordLog

Property	Description
ElementName	<p>ElementName A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 5 = Not Applicable • 6 = Enabled but Offline • 7 = No Default • 9 = Quiesce • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
EnabledState	<p>An integer enumeration that indicates the enabled and disabled states of an element. It can also indicate the transitions between these requested states. For example, shutting down (value = 4) and starting (value = 10) are transient states between enabled and disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other

Property	Description
HealthState	<ul style="list-style-type: none"> • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved <p>Indicates the current health of the element. This attribute expresses the health of this element but not necessarily that of its subcomponents.</p> <p>DMTF has reserved the unused portion of the continuum for additional HealthStates in the future.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — The implementation cannot report on HealthState at this time. • 5 = OK — The element is fully functional and is operating within normal operational parameters and without error. • 10 = Degraded/Warning — The element is in working order and all functionality is provided. However, the element is not working to the best of its abilities. For example, the element may not be operating at optimal performance or it may be reporting recoverable errors. • 15 = Minor failure — All functionality is available but some may be degraded. • 20 = Major failure — The element is failing. It is possible that some or all of the functionality of this component is degraded or not working. • 25 = Critical failure — The element is non-functional and recovery may not be possible. • 30 = Non-recoverable error — The element has completely failed, and recovery is not possible. All functionality provided by this element has been lost. • .. = DMTF Reserved
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness</p>

Property	Description
	<p>within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>
LogState	<p>LogState is an integer enumeration that indicates the current state of a log represented by CIM_Log subclasses. LogState is to be used in conjunction with the EnabledState property to fully describe the current state of the log.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the state of the log is unknown. • 2 = Normal — Indicates that the log is or could be executing logging commands, will process any queued log entries, and will queue new logging requests. • 3 = Erasing — Indicates that the log is being erased. • 4 = Not Applicable — Indicates the log does not support representing a log state. • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
MaxNumberOfRecords	<p>Maximum number of records that can be captured in the Log. If undefined, a value of zero should be specified.</p>
OperationalStatus	<p>Indicates the current statuses of the element. Various operational statuses are defined. Many of the enumeration's values are self-explanatory.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = OK • 3 = Degraded • 4 = Stressed — Indicates that the element is functioning, but needs attention. Examples of Stressed states are overload, overheated, and so on.

Property	Description
	<ul style="list-style-type: none"> • 5 = Predictive Failure — Indicates that an element is functioning nominally but predicting a failure in the near future. • 6 = Error • 7 = Non-Recoverable Error • 8 = Starting • 9 = Stopping • 10 = Stopped — Implies a clean and orderly stop • 11 = In Service — Describes an element being configured, maintained, cleaned, or otherwise administered. • 12 = No Contact — Indicates that the monitoring system has knowledge of this element, but has never been able to establish communications with it. • 13 = Lost Communication — Indicates that the ManagedSystem Element is known to exist and has been contacted successfully in the past, but is currently unreachable. • 14 = Aborted — Implies an abrupt stop where the state and configuration of the element may need to be updated. • 15 = Dormant — Indicates that the element is inactive or quiesced. • 16 = Supporting Entity in Error — Indicates that this element may be OK but that another element, on which it is dependent, is in error. An example is a network service or endpoint that cannot function due to lower-layer networking problems. • 17 = Completed — Indicates that the element has completed its operation. This value should be combined with either OK, Error, or Degraded so that a client can tell if the complete operation Completed with OK (passed), Completed with Error (failed), or Completed with Degraded (the operation finished, but it did not complete OK or did not report an error). • 18 = Power Mode — Indicates that the element has additional power model information contained in the Associated PowerManagementService association. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved <p>OperationalStatus replaces the Status property on ManagedSystemElement to provide a consistent approach to enumerations, to address implementation needs for an array property, and to provide a migration path from today's environment to the future. This change was not made earlier because it required the deprecated qualifier. Due to the widespread use of the existing Status property in management applications, it is strongly recommended that providers or instrumentation provide both the Status and OperationalStatus properties. Further, the first value of OperationalStatus should contain the primary status for the element. When instrumented, Status (because it is single-valued) should also provide the primary status of the element.</p>


OverwritePolicy

OverwritePolicy is an integer enumeration that indicates whether the log, represented by the CIM_Log subclasses, can overwrite its entries.

Possible values are:

- 0 = Unknown — Indicates the log's overwrite policy is unknown.
- 2 = Wraps When Full — Indicates that the log overwrites its entries with new entries when the log has reached its maximum capacity.

Property	Description
PrimaryStatus	<ul style="list-style-type: none"> • 7 = Never Overwrites — Indicates that the log never overwrites its entries by the new entries • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>Provides a high level status value, intended to align with Red-Yellow-Green type representation of status. It should be used in conjunction with DetailedStatus to provide high level and detailed health status of the ManagedElement and its subcomponents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the implementation is in general capable of returning this property, but is unable to do so at this time. • 1 = OK — Indicates the ManagedElement is functioning normally. • 2 = Degraded — Indicates the ManagedElement is functioning below normal. • 3 = Error — Indicates the ManagedElement is in an Error condition. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved
RequestedState	<p>An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset — Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved <p>The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states. Note that when EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the</p>

Property	Description
	<p>EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11). Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 Not Applicable.</p>

TransitioningToState

Indicates the target state to which the instance is transitioning.

- 0 = Unknown
- 2 = Enabled
- 3 = Disabled
- 4 = Shut Down
- 5 = No Change – indicates that no transition is in progress.
- 6 = Offline
- 7 = Test
- 8 = Defer
- 9 = Quiesce
- 10 = Reboot
- 11 = Reset
- 12 = Not Applicable – Indicates the implementation does not support representing ongoing transitions.

A value other than **5** or **12** identifies the state to which the element is in the process of transitioning.

DCIM_OperatingSystem


Property	Description
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,

Property	Description
	this property allows all instances of this class and its subclasses to be uniquely identified.
CSCreationClassName	The scoping ComputerSystem's CreationClassName.
CSName	The scoping ComputerSystem's Name.
EnabledDefault	<p>An enumerated value indicating an administrator's default or startup configuration for the Enabled State of an element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 1 = Other • 2 = Enabled — Indicates that the element is or could be executing commands, will process any queued commands, and queues new requests. • 3 = Disabled — Indicates that the element will not execute commands and will drop any new requests. • 4 = Shutting Down — Indicates that the element is in the process of going to a Disabled state. • 5 = Not Applicable — Indicates the element does not support being enabled or disabled. • 6 = Enabled but Offline — Indicates that the element may be completing commands, and will drop any new requests. • 7 = In Test — Indicates that the element is in a test state. • 8 = Deferred — Indicates that the element may be completing commands, but will queue any new requests. • 9 = Quiesce — Indicates that the element is enabled but in a restricted mode. • 10 = Starting — Indicates that the element is in the process of going to an Enabled state. New requests are queued. • 11..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved <p>By default, the element is Enabled (value = 2).</p>
LastBootUpTime	Time when the operating system was last booted.
LocalDateTime	Operating system's notion of the local date and time of day.
Name	The inherited Name serves as key of an operating system instance within a computer system.
OSType	<p>A integer indicating the type of operating system.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = MACOS • 3 = ATTUNIX • 4 = DGUX • 5 = DECNT


Property	Description
	<ul style="list-style-type: none"> • 6 = Tru64 UNIX • 7 = OpenVMS • 8 = HPUX • 9 = AIX • 10 = MVS • 11 = OS400 • 12 = OS/2 • 13 = JavaVM • 14 = MSDOS • 15 = WIN3x • 16 = WIN95 • 17 = WIN98 • 18 = WINNT • 19 = WINCE • 20 = NCR3000 • 21 = NetWare • 22 = OSF • 23 = DC/OS • 24 = Reliant UNIX • 25 = SCO UnixWare • 26 = SCO OpenServer • 27 = Sequent • 28 = IRIX • 29 = Solaris • 30 = SunOS • 31 = U6000 • 32 = ASERIES • 33 = HP NonStop OS • 34 = HP NonStop OSS • 35 = BS2000 • 36 = LINUX • 37 = Lynx • 38 = XENIX • 39 = VM • 40 = Interactive UNIX • 41 = BSDUNIX • 42 = FreeBSD • 43 = NetBSD • 44 = GNU Hurd • 45 = OS9 • 46 = MACH Kernel • 47 = Inferno • 48 = QNX • 49 = EPOC • 50 = IxWorks

Property	Description
	<ul style="list-style-type: none"> • 51 = VxWorks • 52 = MiNT • 53 = BeOS • 54 = HP MPE • 55 = NextStep • 56 = PalmPilot • 57 = Rhapsody • 58 = Windows 2000 • 59 = Dedicated • 60 = OS/390 • 61 = VSE • 62 = TPF • 63 = Windows (R) Me • 64 = Caldera Open UNIX • 65 = OpenBSD • 66 = Not Applicable • 67 = Windows XP • 68 = z/OS • 69 = Microsoft Windows Server 2003 • 70 = Microsoft Windows Server 2003 64-Bit • 71 = Windows XP 64-Bit • 72 = Windows XP Embedded • 73 = Windows Vista • 74 = Windows Vista 64-Bit • 75 = Windows Embedded for Point of Service • 76 = Microsoft Windows Server 2008 • 77 = Microsoft Windows Server 2008 64-Bit • 78 = FreeBSD 64-Bit • 79 = RedHat Enterprise Linux • 80 = RedHat Enterprise Linux 64-Bit • 81 = Solaris 64-Bit • 82 = SUSE • 83 = SUSE 64-Bit • 84 = SLES • 85 = SLES 64-Bit • 86 = Novell OES • 87 = Novell Linux Desktop • 88 = Sun Java Desktop System • 89 = Mandriva • 90 = Mandriva 64-Bit • 91 = TurboLinux • 92 = TurboLinux 64-Bit • 93 = Ubuntu • 94 = Ubuntu 64-Bit • 95 = Debian

Property	Description
	<ul style="list-style-type: none"> • 96 = Debian 64-Bit • 97 = Linux 2.4.x • 98 = Linux 2.4.x 64-Bit • 99 = Linux 2.6.x • 100 = Linux 2.6.x 64-Bit • 101 = Linux 64-Bit • 102 = Other 64-Bit • 103 = Microsoft Windows Server 2008 R2 • 104 = VMware ESXi • 105 = Microsoft Windows 7 • 106 = CentOS 32-bit • 107 = CentOS 64-bit • 108 = Oracle Enterprise Linux 32-bit • 109 = Oracle Enterprise Linux 64-bit • 110 = eComStation 32-bitx • 111 = Microsoft Windows Server 2011 • 113 = Microsoft Windows Server 2012 • 114 = Microsoft Windows 8 • 115 = Microsoft Windows 8 64-bit • 116 = Microsoft Windows 8.1 • 117 = Microsoft Windows 8.1 64-bit • 118 = Microsoft Windows 10 • 119 = Microsoft Windows 10 64-bit
RequestedState	<p data-bbox="624 1058 1390 1136">An integer enumeration that indicates the last requested or desired state for the element, irrespective of the mechanism through which it was requested.</p> <p data-bbox="624 1163 839 1188">Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown — Indicates the last requested state for the element is unknown. • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change • 6 = Offline — Indicates that the element has been requested to transition to the Enabled but Offline EnabledState. • 7 = Test • 8 = Deferred • 9 = Quiesce • 10 = Reboot — Refers to doing a Shut Down and then moving to an Enabled state. • 11 = Reset - Indicates that the element is first Disabled and then Enabled. • 12 = Not Applicable • .. = DMTF Reserved • 32768..65535 = Vendor Reserved

Property	Description
	<p>The actual state of the element is represented by EnabledState. This property is provided to compare the last requested and current enabled or disabled states. Note that when EnabledState is set to 5 (Not Applicable), then this property has no meaning. Refer to the EnabledState property description for explanations of the values in the RequestedState enumeration.</p> <p> NOTE: The value No Change (5) has been deprecated instead of indicating the last requested state is Unknown (0). If the last requested or desired state is unknown, RequestedState should have the value Unknown (0), but may have the value No Change (5).</p> <p>There are two new values in RequestedState that build on the statuses of EnabledState. These are Reboot (10) and Reset (11).</p> <p>Shut Down requests an orderly transition to the Disabled state, and may involve removing power, to completely erase any existing state. The Disabled state requests an immediate disabling of the element, such that it will not execute or accept any commands or processing requests.</p> <p>This property is set as the result of a method invocation (such as Start or StopService on CIM_Service), or can be overridden and defined as WRITEable in a subclass. The method approach is considered superior to a WRITEable property, because it allows an explicit invocation of the operation and the return of a result code.</p> <p>If knowledge of the last RequestedState is not supported for the EnabledLogicalElement, the property is NULL or has the value 12 (Not Applicable).</p>
TransitioningToState	<p>Indicates the target state to which the instance is transitioning.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 5 = No Change – Indicates that no transition is in progress. • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset • 12 = Not Applicable – Indicates the implementation does not support representing ongoing transitions.
Version	<p>A string describing the Operating System's version number. The format of the version information is as follows: <Major Number>.<Minor Number>.<Revision> or <Major Number>.<Minor Number>.<Revision Letter>.</p>

DCIM_SoftwareIdentity

Property	Description
ClassificationDescriptions	An array of free-form strings providing more detailed explanations for any of the entries in the Classifications array. Note that each entry is related to one in the Classifications array located at the same index.
Classifications	<p>An array of enumerated integers that classify this software. For example, the software MAY be instrumentation (value = 5) or firmware and diagnostic software (10 and 7). The use of value 6, Firmware/BIOS, is being deprecated. Instead, either the value 10 (Firmware) and/or 11 (BIOS/FCode) SHOULD be used. The value 13, Software Bundle, identifies a software package consisting of multiple discrete software instances that can be installed individually or together.</p> <p>Each contained software instance is represented by an instance of SoftwareIdentity that is associated to this instance of SoftwareIdentityinstance via a Component association.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 0 = Unknown• 1 = Other• 2 = Driver• 3 = Configuration Software• 4 = Application Software• 5 = Instrumentation• 6 = Firmware/BIOS• 7 = Diagnostic Software• 8 = Operating System• 9 = Middleware• 10 = Firmware• 11 = BIOS/FCode• 12 = Support/Service Pack• 13 = Software Bundle• .. = DMTF Reserved• 0x8000..0xFFFF = Vendor Reserved
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
InstanceID	Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness

Property	Description
	<p>within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>
IsEntity	<p>The IsEntity property is used to indicate whether the SoftwareIdentity corresponds to a discrete copy of the software component or is being used to convey descriptive and identifying information about software that is not present in the management domain. A value of TRUE indicates that the SoftwareIdentity instance corresponds to a discrete copy of the software component. A value of FALSE indicates that the SoftwareIdentity instance does not correspond to a discrete copy of the Software.</p>
Manufacturer	<p>Manufacturer of this software.</p>
ReleaseDate	<p>The date the software was released.</p>
RevisionNumber	<p>The revision or maintenance release component of the software's version information. For example, 3 from version 12.1(3)T. This property is defined as a numeric value to allow the determination of newer versus older releases. A newer revision is indicated by a larger numeric value.</p>
TargetTypes	<p>An array of strings that describes the compatible installer(s). The purpose of the array elements is to establish compatibility between a SoftwareIdentity and a SoftwareInstallationService that can install the SoftwareIdentity by comparing the values of the array elements of this property to the values of SoftwareInstallationServiceCapabilities.SupportedTargetTypes[] property's array elements.</p>
VersionString	<p>A string representing the complete software version information. For example, 12.1(3)T. This string and the numeric major/minor/revision/build properties are complementary. Since vastly different representations and semantics exist for versions, it is not assumed that one representation is sufficient to permit a client to perform computations (i.e., the values are numeric) and a user to recognize the software's version (i.e., the values are understandable and</p>

Property	Description
	readable). Hence, both numeric and string representations of version are provided.

DCIM_BIOSElement


Property	Description
Manufacturer	The name used to identify this SoftwareElement. Manufacturer of this SoftwareElement.
Name	The name used to identify this SoftwareElement.
ReleaseDate	Date that this BIOS was released.
SoftwareElementID	This is an identifier for the SoftwareElement and is designed to be used in conjunction with other keys to create a unique representation of the element.
SoftwareElementState	<p>The SoftwareElementState is defined in this model to identify various states of a SoftwareElement's life cycle.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Deployable — Describes the details necessary to successfully distribute it and the details (Checks and Actions) required to move it to the installable state (i.e, the next state). • 1 = Installable — Describes the details necessary to successfully install it and the details (Checks and Actions) required to create an element in the executable state (i.e., the next state). • 2 = Executable — Describes the details necessary to successfully start it and the details (Checks and Actions) required to move it to the running state (i.e., the next state). • 3 = Running — Describes the details necessary to manage the started element.
TargetOperatingSystem	<p>The TargetOperatingSystem property specifies the element's operating system environment. The value of this property does not ensure that it is binary executable. Two other pieces of information are needed. First, the version of the OS needs to be specified using the class, CIM_OSVersion Check. The second piece of information is the architecture that the OS runs on. This information is verified using CIM_ArchitectureCheck. The combination of these constructs clearly identifies the level of OS required for a particular SoftwareElement.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = MACOS • 3 = ATTUNIX • 4 = DGUX • 5 = DECNT • 6 = Tru64 UNIX • 7 = OpenVMS

Property	Description
	<ul style="list-style-type: none"> • 8 = HPUX • 9 = AIX • 10 = MVS • 11 = OS400 • 12 = OS/2 • 13 = JavaVM • 14 = MSDOS • 15 = WIN3x • 16 = WIN95 • 17 = WIN98 • 18 = WINNT • 19 = WINCE • 20 = NCR3000 • 21 = NetWare • 22 = OSF • 23 = DC/OS • 24 = Reliant UNIX • 25 = SCO UnixWare • 26 = SCO OpenServer • 27 = Sequent • 28 = IRIX • 29 = Solaris • 30 = SunOS • 31 = U6000 • 32 = ASERIES • 33 = HP NonStop OS • 34 = HP NonStop OSS • 35 = BS2000 • 36 = LINUX • 37 = Lynx • 38 = XENIX • 39 = VM • 40 = Interactive UNIX • 41 = BSDUNIX • 42 = FreeBSD • 43 = NetBSD • 44 = GNU Hurd • 45 = OS9 • 46 = MACH Kernel • 47 = Inferno • 48 = QNX • 49 = EPOC • 50 = IxWorks • 51 = VxWorks • 52 = MiNT


Property	Description
	<ul style="list-style-type: none"> • 53 = BeOS • 54 = HP MPE • 55 = NextStep • 56 = PalmPilot • 57 = Rhapsody • 58 = Windows 2000 • 59 = Dedicated • 60 = OS/390 • 61 = VSE • 62 = TPF • 63 = Windows (R) Me • 64 = Caldera Open UNIX • 65 = OpenBSD • 66 = Not Applicable • 67 = Windows XP • 68 = z/OS • 69 = Microsoft Windows Server 2003 • 70 = Microsoft Windows Server 2003 64-Bit • 71 = Windows XP 64-Bit • 72 = Windows XP Embedded • 73 = Windows Vista • 74 = Windows Vista 64-Bit • 75 = Windows Embedded for Point of Service • 76 = Microsoft Windows Server 2008 • 77 = Microsoft Windows Server 2008 64-Bit
Version	Displays the version of the BIOS.

DCIM_ConcreteJob

Property	Description
Description	Provides a textual description of the object.
ErrorCode	A vendor-specific error code. The value must be set to zero if the Job completed without error. Note that this property is also present in the JobProcessingStatistics class. This class is necessary to capture the processing information for recurring Jobs, because only the 'last' run error can be stored in this single-valued property.
ErrorDescription	A free-form string that contains the vendor error description. Note that this property is also present in the JobProcessingStatistics class. This class is necessary to capture the processing information for recurring Jobs, because only the last run error can be stored in this single-valued property.
InstanceID	Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure


Property	Description
	<p>uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>
JobRunTimes	<p>The number of times that the Job should be run. A value of 1 indicates that the Job is not recurring, while any non-zero value indicates a limit to the number of times that the Job will recur. Zero indicates that there is no limit to the number of times that the Job can be processed, but that it is terminated either after the UntilTime or by manual intervention. By default, a Job is processed once.</p>
JobStatus	<p>A free-form string that represents the status of the job. The primary status is reflected in the inherited OperationalStatus property. JobStatus provides additional, implementation-specific details.</p>
Name	<p>The user-friendly name for this instance of a Job. In addition, the user-friendly name can be used as a property for a search or query.</p> <p> NOTE: Name does not have to be unique within a namespace.</p>
Priority	<p>Indicates the urgency or importance of execution of the Job. The lower the number, the higher the priority. Note that this property is also present in the JobProcessingStatistics class. This class is necessary to capture the setting information that would influence the results of a job.</p>
TimeBeforeRemoval	<p>The amount of time that the Job is retained after it has finished executing, either succeeding or failing in that execution. The job must remain in existence for some period of time regardless of the value of the DeleteOnCompletion property. The default is five minutes.</p>

DCIM_BootSourceSetting

Property	Description
BIOSBootString	A string identifying the boot source which corresponds to the string used by the BIOS to uniquely name the boot source. For example, in systems which implement the BIOS Boot Specification, the string could correspond to the descString string for entries in the IPL Table or BCV Table.
ElementName	<p>The user-friendly name for this instance of SettingData. In addition, the user-friendly name can be used as an index property for a search or query.</p> <p> NOTE: The name does not have to be unique within a namespace.</p>
FailThroughSupported	<p>An enumeration indicating the behavior when the attempt to boot using the boot source fails (no media, timeout).</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 0 = Unknown• 1 = Is Supported — Indicates that next boot source the boot order is used.• 2 = Not Supported — Indicates that the boot order is terminated and no other boot sources associated to the same CIM_BootConfigSetting are used). <p>The default value is 1 (is supported).</p>
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm: <OrgID> : <LocalID> Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID>. <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID> set to CIM.</p>
StructuredBootString	A string identifying the boot source using the format <OrgID>:<identifier>:<index> , in which neither <OrgID>, <identifier> or <index> contains a colon (:). The value of <OrgID> is a copyrighted, trademarked or otherwise unique name that is owned by the entity defining the <identifier>, or is a registered ID that is assigned to the


Property	Description
	<p>entity by a recognized global authority. For DMTF defined identifiers, the <OrgID> is set to CIM.</p> <p>The <identifiers> are:</p> <ul style="list-style-type: none"> • Floppy • Hard-Disk • CD/DVD • Network • PCMCIA • USB <p>The value of <index> is a non-zero integer.</p>

DCIM_BootConfigSetting

Property	Description
ElementName	<p>The user-friendly name for this instance of SettingData. In addition, the user-friendly name can be used as an index property for a search or query.</p> <p> NOTE: The name does not have to be unique within a namespace.</p>
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm: <OrgID> : <LocalID> Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name>structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID>. <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID> set to CIM.</p>
ChangeBootOrder (Method)	<p>This method is called to change the boot order within a boot configuration. An ordered array of BootSourceSetting instances is passed to this method. Each BootSourceSetting instance MUST already be associated with this BootConfigSetting instance via an instance of OrderedComponent. If not, the implementation MUST return a value of Invalid Parameter. Upon execution of this method, the value of the AssignedSequence property on each instance of</p>

Property	Description
	OrderedComponent will be updated such that the values are monotonically increasing in correlation with the position of the referenced BootSourceSetting instance in the source input parameter. That is, the first position in the array will have the lowest value for AssignedSequence. The second position will have the second lowest value, and so on. For BootSourceSetting instances which are associated with the BootConfigSetting instance via OrderedComponent and not present in the input array, the AssignedSequence property on the OrderedComponent association will be assigned a value of 0 .

DCIM_IPAssignmentSettingData

Property	Description
AddressOrigin	<p>AddressOrigin identifies the method by which the IP Address, Subnet Mask, and Gateway were assigned to the IPProtocolEndpoint.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Not Applicable — Indicates that the application of the IPAssignmentSettingData instance does not affect these properties. • 3 = Static — Indicates that values for the properties are contained in the IPAssignmentSettingData instance. • 4 = DHCP — Indicates that the values will be assigned via DHCP. • 5 = BOOTP — Indicates that the values will be assigned via BOOTP. • 6..32767 = DMTF Reserved • 32768.. = Vendor Reserved
ElementName	<p>The user-friendly name for this instance of SettingData. In addition, the user-friendly name can be used as an index property for a search or query.</p> <p> NOTE: The name does not have to be unique within a namespace.</p>
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not</p>

Property	Description
	contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.


DCIM_PowerAllocationSettingData

Property	Description
ElementName	<p>The user-friendly name for this instance of SettingData. In addition, the user-friendly name can be used as an index property for a search or query.</p> <p> NOTE: The name does not have to be unique within a namespace.</p>
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>
Limit	<p>This property specifies the upper bound, or maximum amount of resource that is granted for this allocation. For example, a system which supports memory paging may support setting the Limit of a Memory allocation below that of the VirtualQuantity, thus forcing paging to occur for this allocation.</p>
PowerAllocationSettingPurpose	<p>When power is consumed by or allocated to a ManagedSystemElement, there may be well-known or meaningful levels of allocation or consumption for the ManagedSystemElement. The PowerAllocationSettingPurpose property may be used to identify</p>

Property	Description
	<p>the well known level or provide context for the interpretation of the other values of the PowerAllocationSettingData instance. A value of MaxConAuxiliary indicates that the instance provides information about the maximum power allocated or consumed by the ManagedSystemElement as currently configured, while the ManagedSystemElement is turned off and drawing auxiliary power. Note that an alternate name for auxiliary power is trickle power.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 1 = Other • 2 = MaxConAuxiliary • 3 = MinWhenOn — Indicates the instance provides information about the minimum value for power consumption for which a configuration of the ManagedSystemElement exists such that when it is powered on and operating in that configuration, the power consumption of the ManagedSystemElement is guaranteed not to exceed the specified amount. • 4 = MaxAsConfigured — Indicates that the instance provides information about the maximum power that may be allocated to or consumed by the ManagedSystemElement as currently configured while powered on. The actual power consumed may be less. • 5 = MaxIfAllHotPlug — Indicates that the instance provides information about the maximum power allocated or consumed by the ManagedSystemElement if all components that could be added to the ManagedSystemElement without requiring a power cycle of the ManagedSystemElement were added to the ManagedSystemElement. • 6 = MaxIfAllColdPlug — Indicates that the instance provides information about the maximum power allocated or consumed by the ManagedSystemElement if all components that could be added to the ManagedSystemElement, including those that require a power cycle of the ManagedSystemElement, were added to the ManagedSystemElement. • 7 = Allocated — Indicates that the instance provides information about the current power allocated to the ManagedSystemElement. • 8 = MinWithoutDegradation — Indicates that the instance provides information about the minimum power allocated or consumed by the ManagedSystemElement without causing performance degradation. • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
ResourceType	<p>The type of resource this allocation setting represents.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 1 = Other • 2 = Computer System • 3 = Processor • 4 = Memory • 5 = IDE Controller • 6 = Parallel SCSI HBA • 7 = FC HBA

Property	Description
	<ul style="list-style-type: none"> • 8 = iSCSI HBA • 9 = IB HCA • 10 = Ethernet Adapter • 11 = Other Network Adapter • 12 = I/O Slot • 13 = I/O Device • 14 = Floppy Drive • 15 = CD Drive • 16 = DVD drive • 17 = Disk Drive • 18 = Tape Drive • 19 = Storage Extent • 20 = Other storage device • 21 = Serial port • 22 = Parallel port • 23 = USB Controller • 24 = Graphics controller • 25 = IEEE 1394 Controller • 26 = Partitionable Unit • 27 = Base Partitionable Unit • 28 = Power • 29 = Cooling Capacity • 30 = Ethernet Switch Port • 31 = Logical Disk • 32 = Storage Volume • 33 = Ethernet Connection • .. = DMTF reserved • 0x8000..0xFFFF = Vendor Reserved


DCIM_AssetAcquisition

Property	Description
CostCenter	Identifying information for the accounting unit within the purchasing company that authorized the purchase.
ElementName	<p>The user-friendly name for this instance of SettingData. In addition, the user-friendly name can be used as an index property for a search or query.</p> <p> NOTE: The name does not have to be unique within a namespace.</p>
InstallationDate	Date the system was put into service by the purchasing company.
InstanceID	Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure

Property	Description
	<p>uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> .<LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID> set to CIM.</p>
PurchaseCost	<p>The Purchase Cost field accepts whole numbers only. Entering commas, decimal points, or dollar signs results in an error message. Value expressed in currency unit that was paid for the system, for example, 25000.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved
PurchaseDate	Date the transaction for acquiring the system was completed.
ReferenceToDeliverySlip	<p>Identifying information for the waybill or delivery slip, such as a waybill number.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved
ReferenceToPONumber	<p>Number of the purchase order that authorized buying the system.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved


DCIM_AssetExtendedWarrantyInformation

Property	Description
Cost	Displays the total cost of the warranty service on a system.

Property	Description
	<p>Possible values are:</p> <ul style="list-style-type: none"> • 0..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved
ElementName	<p>The user-friendly name for this instance of SettingData. In addition, the user-friendly name can be used as an index property for a search or query.</p> <p> NOTE: The name does not have to be unique within a namespace.</p>
EndDate	<p>Displays the date that extended warranty service ends.</p>
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID>. <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID> set to CIM.</p>
ProviderName	<p>Displays the name of the business that is providing warranty service to the system owner.</p>
StartDate	<p>Displays the date that extended warranty service begins. This date usually follows the standard warranty service.</p>


DCIM_AssetOwnerInformation

Property	Description
ElementName	<p>The user-friendly name for this instance of SettingData. In addition, the user-friendly name can be used as an index property for a search or query.</p>

Property	Description
	 NOTE: The name does not have to be unique within a namespace.
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>
InsuranceCompany	The company that insures the system against theft or other loss.
OwnerName	The individual or business entity that holds legal title to the system.
Type	<p>The individual or business entity that holds legal title to the system. Type Whether the system is owned, rented, leased, managed by transfer, or off-lease.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Owned • 1 = Leased • 3 = Rented • 4 = Off Lease • 5..32767 = Transfer • 32768..65535 = DMTF Reserved


DCIM_AssetSupportInformation

Property	Description
AutomaticFix	Method used to fix the problem.
ElementName	The user-friendly name for this instance of SettingData. In addition, the user-friendly name can be used as an index property for a search or query.


Property	Description
	 NOTE: The name does not have to be unique within a namespace.
HelpDesk	Name of the help desk that provides technical support for your system; information provided by the help desk.
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID>:<LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID>. <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID> set to CIM.</p>
Outsourced	Indicates whether you have contracted with an outside business entity to provide technical support for your system.
Type	<p>Indicates whether a support request is for a problem with your system's network connectivity or with a particular system component.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Network • 1 = Storage • 2..32767 = DMTF Reserved • 32768..65535 = Vendor Reserved

DCIM_AssetWarrantyInformation

Property	Description
Cost	<p>The total cost of the warranty service on a system.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0..32767 = DMTF Reserved

Property	Description
	<ul style="list-style-type: none"> 32768..65535 = Vendor Reserved
Duration	<p>The number of days or months that the warranty is to be in force.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0..32767 = DMTF Reserved 32768..65535 = Vendor Reserved
ElementName	<p>The user-friendly name for this instance of SettingData. In addition, the user-friendly name can be used as an index property for a search or query.</p> <p> NOTE: The name does not have to be unique within a namespace.</p>
EndDate	<p>The date that extended warranty service ends.</p>
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID>. <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID> set to CIM.</p>
UnitType	<p>Indicates whether the length of the warranty is measured in days or months.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Days 1 = Months 2..32767 = DMTF Reserved 32768..65535 = Vendor Reserved

DCIM_AssetSystemInformation

Property	Description
ChassisAssetTag	Chassis Asset Tag of the system.
ElementName	<p>The user-friendly name for this instance of SettingData. In addition, the user-friendly name can be used as an index property for a search or query.</p> <p> NOTE: The name does not have to be unique within a namespace.</p>
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name>structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID>. <LocalID> chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID> set to CIM.</p>
PrimaryUserName	Text that provides the name for the person responsible for managing the system.
PrimaryUserPhone	Telephone number for the person responsible for managing the system.
SystemLocation	Alphanumeric text that specifies where the system is, such as building and room.
SystemName	Alphanumeric text that uniquely identifies the system.

DCIM_AMTSettings

Property	Description
AMTSupported	Defines if Intel AMT is supported.
Description	Provides a textual description of the object.


Property	Description
IDEREnabled	Defines if IDE redirection is enabled.
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID>. <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID> set to CIM.</p>
SOLEnabled	Defines if Serial Over LAN capability is enabled.

DCIM_ASFSettings

Property	Description
ASFEnabled	Defines if Intel ASF is enabled.
Description	Provides a textual description of the object.
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID>:<LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID>. <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other</p>

Property	Description
	providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID> set to CIM.
StructureVersion	Defines the version of the Intel ASF structure.

DCIM_VProSettings


Property	Description
BIOSupportedMaximumVAVersion	Defines the maximum VA version supported by the BIOS. A value of 0 means the the highest version supported by BIOS is VA 2.6. A value of 1 means the the highest version supported by BIOS is VA 3.0.
Description	Provides a textual description of the object.
ElementName	<p>The user-friendly name for this instance of SettingData. In addition, the user-friendly name can be used as an index property for a search or query.</p> <p> NOTE: The name does not have to be unique within a namespace.</p>
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>
LTTXTEnabledState	<p>Defines CPU LT/TXT enabled state for vPro brand.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • .. = DMTF Reserved

Property	Description
	<ul style="list-style-type: none"> 32768..65535 = Vendor Reserved
SMXState	<p>Defines CPU SMX state for vPro brand.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 2 = Enabled 3 = Disabled .. = DMTF Reserved 32768..65535 = Vendor Reserved
SPIFlashhasPlatformDataRegionReserved	<p>Defines if SPI flash has a platform data region reserved.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 2 = Enabled 3 = Disabled .. = DMTF Reserved 32768..65535 = Vendor Reserved
SupportedBIOSsetup	<p>SupportedBIOSsetup defines if BIOS setup properties are supported.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 2 = SupportsMEinBIOSSetup — Defines if ME is supported in BIOS setup. 3 = SupportsTPMinBIOSSetup — Defines if TPM is supported in BIOS setup. 4 = SupportsTXTinBIOSSetup — Defines if TXT is supported in BIOS setup. 5 = SupportsVAExtensions — Defines if VA extensions are supported by the BIOS. 6 = SupportsVTdinBIOSSetup — Defines if VT-d is supported in BIOS setup. 7 = SupportsVTxinBIOSSetup — Defines if VT-x is supported in BIOS setup. .. = DMTF Reserved 32768..65535 = Vendor Reserved
TXTStateInMCHState	<p>Defines TXT state in MCH for vPro brand.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 2 = Enabled 3 = Disabled .. = DMTF Reserved 32768..65535 = Vendor Reserved
VMXState	<p>Defines CPU VMX state for vPro brand.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 2 = Enabled 3 = Disabled

Property	Description
	<ul style="list-style-type: none"> .. = DMTF Reserved 32768..65535 = Vendor Reserved
VProCharacteristics	<p>VProCharacteristics defines if VPro setup properties are supported.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 2 = CPUSupportsVTx — CPUSupportsVTx:Defines if the CPU supports VT-x for vPro brand. 3 = MCHSupportForVTd — MCHSupportForVTd:Defines if the MCH supports TXT for vPro brand. 4 = LTTXTCapability — LTTXTCapability:Defines CPU LT/TXT capability for vPro brand. 5 = SupportsTPMOnBoard — SupportsTPMOnBoard:Defines if an on board TPM is supported for vPro brand. .. = DMTF Reserved 32768..65535 = Vendor Reserved
VTdState	<p>Defines VT-d state for vPro brand.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 2 = Enabled 3 = Disabled .. = DMTF Reserved 32768..65535 = Vendor Reserved
VTxEnabledState	<p>Defines CPU VT-x state for vPro brand.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 2 = Enabled 3 = Disabled .. = DMTF Reserved 32768..65535 = Vendor Reserved

DCIM_AlertIndicationSettingData

Property	Description
AlertCategory	<p>The identifying information of the entity (instance) for which this Indication is generated. The property contains the path of an instance, encoded as a string parameter — if the instance is modeled in the CIM Schema. If not a CIM instance, the property contains some identifying string that names the entity for which the Alert is generated. The path or identifying string is formatted per the AlertingElementFormat property.</p>
AlertType	<p>Primary classification of the Indication.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 1 = Other — The Indication's OtherAlertType property conveys its classification. Use of Other in an enumeration is a standard CIM

Property	Description
	<p>convention. It means that the current Indication does not fit into the categories described by this enumeration.</p> <ul style="list-style-type: none"> • 2 = Communications Alert — An Indication of this type is principally associated with the procedures and/or processes required to convey information from one point to another. • 3 = Quality of Service Alert — An Indication of this type is principally associated with a degradation or errors in the performance or function of an entity. • 4 = Processing Error — An Indication of this type is principally associated with a software or processing fault. • 5 = Device Alert — An Indication of this type is principally associated with an equipment or hardware fault. • 6 = Environmental Alert — An Indication of this type is principally associated with a condition relating to an enclosure in which the hardware resides, or other environmental considerations. • 7 = Model Change — The Indication addresses changes in the Information Model. For example, it may embed a Lifecycle Indication to convey the specific model change being alerted. • 8 = Security Alert — An Indication of this type is associated with security violations, detection of viruses, and similar issues.
ElementName	<p>The user-friendly name for this instance of SettingData. In addition, the user-friendly name can be used as an index property for a search or query.</p> <p> NOTE: The name does not have to be unique within a namespace.</p>
EventID	<p>The identification number for events of this type.</p>
IndicationIdentifier	<p>An identifier for the Alert indication. This property is similar to a key value in that it can be used for identification, when correlating Alert indications (see the Correlated indications array). Its value should be unique as long as Alert correlations are reported, but may be reused or left NULL if no future Alert indications will reference it in their Correlated indications array.</p>
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure</p>

Property	Description
	that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID> set to CIM.LocalOnly.
LocalOnly	This property shows if the events from this the event source should be reported to the local indication consumer only or should be reported to CIMOM as an indication. TRUE for reporting to local consumer only, and FALSE for reporting as an indication.
MaxDisplayNotifications	The maximum number of indications of this type that will be sent to the local display.
MaxNTEventLogNotifications	The maximum number of indications of this type that will be sent to the local display.
Name	The label by which the Configuration object is known.
OtherAlertType	A string describing the Alert type - used when the Alert type property is set to 1, Other State Change .
PollEnabled	This property shows if status-polling of the event source is enabled or not. TRUE for enable, and FALSE for disabled.
PollingInterval	The polling interval for event source, in seconds.
ProbableCause	An enumerated value that describes the probable cause of the situation which resulted in the AlertIndication. Possible values are: <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Adapter/Card Error • 3 = Application Subsystem Failure • 4 = Bandwidth Reduced • 5 = Connection Establishment Error • 6 = Communications Protocol Error • 7 = Communications Subsystem Failure • 8 = Configuration/Customization Error • 9 = Congestion • 10 = Corrupt Data • 11 = CPU Cycles Limit Exceeded • 12 = Dataset/Modem Error • 13 = Degraded Signal • 14 = DTE-DCE Interface Error • 15 = Enclosure Door Open • 16 = Equipment Malfunction • 17 = Excessive Vibration • 18 = File Format Error • 19 = Fire Detected


Property	Description
	<ul style="list-style-type: none"> • 20 = Flood Detected • 21 = Framing Error • 22 = HVAC Problem • 23 = Humidity Unacceptable • 24 = I/O Device Error • 25 = Input Device Error • 26 = LAN Error • 27 = Non-Toxic Leak Detected • 28 = Local Node Transmission Error • 29 = Loss of Frame • 30 = Loss of Signal • 31 = Material Supply Exhausted • 32 = Multiplexer Problem • 33 = Out of Memory • 34 = Output Device Error • 35 = Performance Degraded • 36 = Power Problem • 37 = Pressure Unacceptable • 38 = Processor Problem (Internal Machine Error) • 39 = Pump Failure • 40 = Queue Size Exceeded • 41 = Receive Failure • 42 = Receiver Failure • 43 = Remote Node Transmission Error • 44 = Resource at or Nearing Capacity • 45 = Response Time Excessive • 46 = Retransmission Rate Excessive • 47 = Software Error • 48 = Software Program Abnormally Terminated • 49 = Software Program Error (Incorrect Results) • 50 = Storage Capacity Problem • 51 = Temperature Unacceptable • 52 = Threshold Crossed • 53 = Timing Problem • 54 = Toxic Leak Detected • 55 = Transmit Failure • 56 = Transmitter Failure • 57 = Underlying Resource Unavailable • 58 = Version MisMatch • 59 = Previous Alert Cleared • 60 = Login Attempts Failed • 61 = Software Virus Detected • 62 = Hardware Security Breached • 63 = Denial of Service Detected • 64 = Security Credential MisMatch

Property	Description
	<ul style="list-style-type: none"> • 65 = Unauthorized Access • 66 = Alarm Received • 67 = Loss of Pointer • 68 = Payload Mismatch • 69 = Transmission Error • 70 = Excessive Error Rate • 71 = Trace Problem • 72 = Element Unavailable • 73 = Element Missing • 74 = Loss of Multi Frame • 75 = Broadcast Channel Failure • 76 = Invalid Message Received • 77 = Routing Failure • 78 = Backplane Failure • 79 = Identifier Duplication • 80 = Protection Path Failure • 81 = Sync Loss or Mismatch • 82 = Terminal Problem • 83 = Real Time Clock Failure • 84 = Antenna Failure • 85 = Battery Charging Failure • 86 = Disk Failure • 87 = Frequency Hopping Failure • 88 = Loss of Redundancy • 89 = Power Supply Failure • 90 = Signal Quality Problem • 91 = Battery Discharging • 92 = Battery Failure • 93 = Commercial Power Problem • 94 = Fan Failure • 95 = Engine Failure • 96 = Sensor Failure • 97 = Fuse Failure • 98 = Generator Failure • 99 = Low Battery • 100 = Low Fuel • 101 = Low Water • 102 = Explosive Gas • 103 = High Winds • 104 = Ice Buildup • 105 = Smoke • 106 = Memory Mismatch • 107 = Out of CPU Cycles • 108 = Software Environment Problem • 109 = Software Download Failure

Property	Description
	<ul style="list-style-type: none"> • 110 = Element Reinitialized • 111 = Timeout • 112 = Logging Problems • 113 = Leak Detected • 114 = Protection Mechanism Failure • 115 = Protecting Resource Failure • 116 = Database Inconsistency • 117 = Authentication Failure • 118 = Breach of Confidentiality • 119 = Cable Tamper • 120 = Delayed Information • 121 = Duplicate Information • 122 = Information Missing • 123 = Information Modification • 124 = Information Out of Sequence • 125 = Key Expired • 126 = Non-Repudiation Failure • 127 = Out of Hours Activity • 128 = Out of Service • 129 = Procedural Error • 130 = Unexpected Information

StartDelay The start delay before polling the event source, in seconds.

DCIM_HDDAlertIndicationSettingData

Property	Description
ElementName	<p>The user-friendly name for this instance of SettingData. In addition, the user-friendly name can be used as an index property for a search or query.</p> <p> NOTE: The name does not have to be unique within a namespace.</p>
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the</p>


Property	Description
	first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.

DCIM_BaseMetricValue

Property	Description
Duration	Property that represents the time duration over which this metric value is valid. This property should not exist for timestamps that apply only to a point in time but should be defined for values that are considered valid for a certain time period (ex. sampling). If the Duration property exists and is non null, the TimeStamp is to be considered the end of the interval.
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. In order to ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID>. <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID> set to CIM.</p>
MetricDefinitionId	The key of the BaseMetricDefinition instance for this CIM_BaseMetricValue instance value.
MetricValue	The value of the metric represented as a string. Its original data type is specified in CIM_BaseMetricDefinition.
TimeStamp	Identifies the time when the value of a metric instance is computed. Note that this is different from the time when the instance is created. For a given CIM_BaseMetricValue instance, the TimeStamp changes whenever a new measurement snapshot is taken if Volatile is true. A managment application may establish a time series of metric data by

Property	Description
	retrieving the instances of CIM_BaseMetricValue and sorting them according to their TimeStamp.
Volatile	If true, Volatile indicates that the value for the next point in time may use the same object and just change its properties (such as the value or timestamp). If false, the existing objects remain unchanged and a new object is created for the new point in time.

DCIM_LogEntry

Property	Description
CreationTimeStamp	A LogEntry may include a timestamp for the entry.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>
RecordData	A string containing LogRecord data. If the corresponding RecordFormat property is <empty>, or cannot be parsed according to the recommended format, RecordData should be interpreted as a free-form string. If the RecordFormat property contains parseable format information (as recommended in the RecordFormat

Property	Description
	Description qualifier), the RecordData string SHOULD be parsed in accordance with this format. In this case, RecordData SHOULD begin with the delimiter character and this character SHOULD be used to separate substrings in the manner described. The RecordData string can then be parsed by the data consumer and appropriately typed.
RecordFormat	<p>A string describing the data structure of the information in the property, RecordData. If the RecordFormat string is <empty>, RecordData should be interpreted as a free-form string.</p> <p>To describe the data structure of RecordData, the RecordFormat string should be constructed as follows:</p>
RecordID	RecordID may be used to provide a representation of log entry ordering or pointers/handles for log entries.

DCIM_IndicatorLEDCapabilities

Property	Description
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>
SupportedActivationStates	<p>SupportedActivationStates indicates the supported activation states for the associated IndicatorLED. See CIM_IndicatorLED.ActivationState for descriptions of the values.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Lit • 3 = Blinking • 4 = Off • 5 = Control Pattern • .. = DMTF Reserved

Property	Description
SupportedColors	<ul style="list-style-type: none"> • 32768..65535 = Vendor Reserved <p>This property indicates the colors supported by the associated instance of CIM_IndicatorLED.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 1 = Other • 3 = White • 4 = Red • 5 = Green • 6 = Blue • 7 = Orange • 8 = Yellow • 9 = Black • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
SupportedControlModes	<p>SupportedControlModes indicates the control modes supported for the LED. See CIM_IndicatorLED.CurrentControlMode for more information.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Automatic • 3 = Manual • 4 = Test • .. = DMTF Reserved • 32768..65535 = Vendor Reserved
SupportedControlPatterns	<p>SupportedControlPatterns describes the control patterns supported by the associated LED. The values of SupportedControlPatterns may be an exact match for values allowed for CIM_IndicatorLED.ControlPatterns or may indicate general categories of behavior. The interpretation of value is specific to the business entity identified by <OrgID>. Each value of SupportedControlPatterns is constructed using the following preferred algorithm: <OrgID>::<Pattern>Where <OrgID> and <Pattern> are separated by two colons (::), and where <OrgID> includes a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the ControlPattern or that is a registered ID assigned to the business entity by a recognized global authority. <Pattern> is chosen by the business entity and is not reused to identify different underlying (real-world) behaviors. If the behavior specified for the LED adheres to a standard or proprietary specification, <Pattern> is a uniquely assigned value identifying the behavior. If the behavior for the LED is described using a standard or proprietary grammar, <Pattern> is prefixed with a uniquely assigned identifier for the grammar.</p>
SupportedIndicatedConditions	<p>The conditions that may be indicated by the LED. See CIM_IndicatorLED.IndicatedCondition for a description of the values.</p>

Property	Description
	<p>Possible values are:</p> <ul style="list-style-type: none"> • 1 = Other • 3 = Location • 4 = Attention • 5 = Activity • 6 = Powered On • 7 = Fault • .. = DMTF Reserved • 32768..65535 = Vendor Reserved

DCIM_ProcessorCapabilities


Property	Description
ElementNameEditSupported	Boolean indicating whether the ElementName can be modified.
ElementNameMask	This string expresses the restrictions on ElementName. The mask is expressed as a regular expression. See DMTF standard ABNF with the Profile Users Guide, appendix C for the regular expression syntax permitted. Since the ElementNameMask can describe the maximum length of the ElementName, then the requirements expressed in this property takes precedence of any length expressed in MaxElementNameLen.
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>
NumberOfHardwareThreads	Number of hardware threads available for the processor. May be obtained from SMBIOS v2.5 4 offset 25h.

Property	Description
NumberOfProcessorCores	Number of processor cores available for processor. This number would not include cores disabled by hardware and may be obtained from SMBIOS 2.5 Type 4 offset 23h.

DCIM_AccountManagementCapabilities


Property	Description
ElementNameEditSupported	Boolean indicating whether the ElementName can be modified.
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. In order to ensure uniqueness within the NameSpace, the value of InstanceID SHOULD be constructed using the following preferred algorithm:</p> <p><OrgID>:<LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon ':', and where MUST include a copyrighted, trademarked or otherwise unique name that is owned by the business entity creating/defining the InstanceID, or is a registered ID that is assigned to the business entity by a recognized global authority (This is similar to the <Schema_Name>.<Class_Name> structure of Schema class names.) In addition, to ensure uniqueness MUST NOT contain a colon (':'). When using this algorithm, the first colon to appear in InstanceID MUST appear between <OrgID> and <LocalID>. <LocalID> is chosen by the business entity and SHOULD not be re-used to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity MUST assure that the resultant InstanceID is not re-used across any InstanceIDs produced by this or other providers for this instance's NameSpace. For DMTF defined instances, the preferred algorithm MUST be used with the <OrgID> set to 'CIM'.</p>
OperationsSupported	<p>OperationsSupported describes the type of operations that are supported for an Account associated with the AccountManagementService.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Create — Indicates the AccountManagementService may be used to create new accounts. • 3 = Modify — Indicates that the associated Accounts may be modified. • 4 = Delete — Indicates that associated Accounts may be deleted. • .. = DMTF Reserved • 0x8000..0xFFFF = Vendor Reserved

DCIM_BootServiceCapabilities

Property	Description
BootStringsSupported	<p>An enumeration indicating the boot string properties in the CIM_BootSourceSetting which are supported. If the array contains a value, then all the BootSourceSetting instances managed by the service are guaranteed to have a non-null value for the corresponding property. Since this is an array, multiple values may be specified.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 2 = BootString• 3 = BIOSBootString• 4 = StructuredBootString
ElementName	<p>The user friendly name for this instance of Capabilities. In addition, the user friendly name can be used as an index property for a search of query.</p> <p> NOTE: Name does not have to be unique within a namespace.</p>
ElementNameEditSupported	Boolean indicating whether the ElementName can be modified.
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. In order to ensure uniqueness within the NameSpace, the value of InstanceID SHOULD be constructed using the following preferred algorithm: <OrgID> : <LocalID> Where <OrgID> and <LocalID> are separated by a colon ':', and where <OrgID> MUST include a copyrighted, trademarked or otherwise unique name that is owned by the business entity creating/defining the InstanceID, or is a registered ID that is assigned to the business entity by a recognized global authority (This is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness <OrgID> MUST NOT contain a colon (:). When using this algorithm, the first colon to appear in InstanceID MUST appear between <OrgID> and <LocalID>. <LocalID> is chosen by the business entity and SHOULD not be re-used to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity MUST assure that the resultant InstanceID is not re-used across any InstanceIDs produced by this or other providers for this instance's NameSpace. For DMTF defined instances, the preferred algorithm MUST be used with the <OrgID> set to 'CIM'.</p>

DCIM_PlatformWatchdogServiceCapabilities

Property	Description
ActionOnExpirationSupported	ActionOnExpirationSupported indicates the actions which can be performed when the watchdog timer expires. See CIM_PlatformWatchdogService.ActionOnExpiration for a description of the values.

Property	Description
	<p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = None - Status Only • 3 = System Reset • 4 = System Power Off • 5 = System Power Off, then On • 6 = Generate System NonMaskableInterrupt (NMI) • 7 = Generate System Management Interrupt (SMI) • 8 = Reset Monitored Entity
ElementName	<p>The user friendly name for this instance of Capabilities. In addition, the user friendly name can be used as a index property for a search of query.</p> <p> NOTE: Name does not have to be unique within a namespace.</p>
ElementNameEditSupported	<p>Boolean indicating whether the ElementName can be modified.</p>
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>
LastExpirationDataSupported	<p>LastExpirationDataSupported indicates the data which is provided on the last expiration of the watchdog timer. The values in the enumeration are: A value set to 2 (Time) indicates that the time of the last expiration is provided.</p>
RequestedStatesSupported	<p>RequestedStatesSupported indicates the possible states that can be requested when using the method RequestStateChange on the EnabledLogicalElement.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled


Property	Description
	<ul style="list-style-type: none"> • 4 = Shut Down • 6 = Offline • 7 = Test • 8 = Defer • 9 = Quiesce • 10 = Reboot • 11 = Reset

WatchdogTimerDataSupported WatchdogTimerDataSupported indicates the data which is provided on the value of the watchdog timer.

Possible values are:

- 2 = Current Value — Indicates that the time of the current value of the timer is provided.
- 3 = Timer Resolution — Indicates that the timer resolution for the last expiration is provided.

DCIM_DHPCCapabilities


Property	Description
ElementName	<p>The user friendly name for this instance of Capabilities. In addition, the user friendly name can be used as an index property for a search of query.</p> <p> NOTE: Name does not have to be unique within a namespace.</p>
ElementNameEditSupported	<p>Boolean indicating whether the ElementName can be modified.</p>
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>

DCIM_PowerUtilizationManagementCapabilities

Property	Description
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>
RequiredCustomSettings	<p>Array of custom power utilization algorithm settings required by the RequestPowerUtilizationAlgorithm and RequestPowerUtilizationAlgorithmEl methods' CustomSettingNames parameter, if the RequestedAlgorithm parameter has value of 2 (Custom Settings Based).</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = CPUPowerMode • 3 = MemoryPowerMode • 4 = OtherMemoryPowerMode • 5 = FanPowerMode
SupportedMethods	<p>Each enumeration corresponds to support for the like-named method of the MetricService.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • .. = DMTF Reserved • 32768 = RequestPowerUtilizationLimit • 32769 = RequestPowerUtilizationAlgorithm • 32770 = RequestPowerUtilizationAlgorithmEl • 32771..65535 = Vendor Specific
SupportedRequestedAlgorithms	<p>Array of power utilization algorithms supported by the RequestPowerUtilizationAlgorithm and</p>

Property	Description
	RequestPowerUtilizationAlgorithmEl methods RequestedAlgorithm parameter of the associated Service.
SupportedUtilizationLimitUnits	Array of programmatic units for power utilization limit supported by the RequestPowerUtilizationLimit method's UtilizationLimit parameter.

DCIM_EnabledLogicalElementCapabilities

Property	Description
ElementName	<p>The user friendly name for this instance of Capabilities. In addition, the user friendly name can be used as a index property for a search of query.</p> <p> NOTE: Name does not have to be unique within a namespace.</p>
ElementNameEditSupported	Boolean indicating whether the ElementName can be modified.
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>
RequestedStatesSupported	<p>RequestedStatesSupported indicates the possible states that can be requested when using the method RequestStateChange on the EnabledLogicalElement.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Enabled • 3 = Disabled • 4 = Shut Down • 6 = Offline • 7 = Test • 8 = Defer

Property	Description
	<ul style="list-style-type: none"> • 9 = Quiesce • 10 = Reboot • 11 = Reset

DCIM_ButtonCapabilities

Property	Description
ElementNameEditSupported	Boolean indicating whether the ElementName can be modified.

InstanceID

Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following **preferred** algorithm:

<OrgID> : <LocalID>

Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above **preferred** algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the **preferred** algorithm must be used with the <OrgID>set to CIM.

RequestedStatesSupported

RequestedStatesSupported indicates the possible states that can be requested when using the method RequestStateChange on the EnabledLogicalElement.

Possible values are:


- 2 = Enabled
- 3 = Disabled
- 4 = Shut Down
- 6 = Offline
- 7 = Test
- 8 = Defer
- 9 = Quiesce
- 10 = Reboot
- 11 = Reset

DCIM_LCDPanelCapabilities

Property	Description
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>
SupportedDisplayDataCategories	<p>Identifies the category of data to be displayed on the LCD Panel.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 2 = None• 3 = User Specified• 4 = Default• 5 = IPv4 Address• 6 = IDRAC MAC Address• 7 = Service Tag• 8 = System Name• 9 = IPv6 Address• 10 = Ambient• 11 = System Power


DCIM_PowerManagementCapabilities

Property	Description
ElementName	<p>The user friendly name for this instance of Capabilities. In addition, the user friendly name can be used as an index property for a search of query.</p>

Property	Description
InstanceID	<p data-bbox="624 247 1390 279"> NOTE: Name does not have to be unique within a namespace.</p> <p data-bbox="624 310 1390 415">Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p data-bbox="624 443 847 468"><OrgID> : <LocalID></p> <p data-bbox="624 495 1390 919">Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>
PowerChangeCapabilities	<p data-bbox="624 957 1390 1035">An enumeration indicating the specific power-related capabilities of a managed element. Since this is an array, multiple values may be specified.</p> <p data-bbox="624 1062 836 1087">Possible values are:</p> <ul data-bbox="624 1115 1390 1675" style="list-style-type: none"> <li data-bbox="624 1115 815 1140">• 0 = Unknown <li data-bbox="624 1150 767 1176">• 1 = Other <li data-bbox="624 1186 1390 1255">• 2 = Power Saving Modes Entered Automatically — Indicates that a managed element can change its power state based on usage or other criteria <li data-bbox="624 1266 1198 1318">• 3 = Power State Settable — Indicates that the RequestPowerStateChange method is supported <li data-bbox="624 1329 1326 1398">• 4 = Power Cycling Supported — Indicates that the RequestPowerStateChange method can be invoked with the PowerState input variable set to Power Cycle (Off Soft) <li data-bbox="624 1409 1358 1528">• 5 = Timed Power On Supported — Indicates that the RequestPowerStateChange method can be invoked with the PowerState input variable set to 'Power On' and the Time parameter set to a specific date and time, or interval, for power on. <li data-bbox="624 1539 1086 1564">• 6 = Off Hard Power Cycling Supported <li data-bbox="624 1575 927 1600">• 7 = HW Reset Supported <li data-bbox="624 1610 1390 1675">• 8 = Graceful Shutdown Supported — Indicates that the managed element can be sent a hardware signal requesting an orderly shutdown prior to the requested power state change.


Property	Description
PowerStatesSupported	<p>An enumeration that indicates the power states supported by a managed element. Because this is an array, multiple values can be specified. The current values in the enumeration are:</p> <ul style="list-style-type: none"> • 2 = On — Corresponds to ACPI state G0 or S0 or D0. • 3 = Sleep - Light — Corresponds to ACPI state G1, S1/S2, or D1. • 4 = Sleep - Deep — Corresponds to ACPI state G1, S3, or D2. • 5 = Power Cycle (Off - Soft) — Corresponds to ACPI state G2, S5, or D3, but where the managed element is set to return to power state On at a pre-determined time. • 6 = Off — Hard, corresponding to ACPI state G3, S5, or D3. • 7 = Hibernate (Off - Soft) — Corresponds to ACPI state S4, where the state of the managed element is preserved and will be recovered upon powering on. • 8 = Off — Soft, corresponding to ACPI state G2, S5, or D3. • 9 = Power Cycle (Off-Hard) — Corresponds to the managed element reaching the ACPI state G3 followed by ACPI state S0. • 10 = Master Bus Reset, corresponds to the system reaching ACPI state S5 followed by ACPI state S0. This is used to represent system master bus reset. • 11 = Diagnostic Interrupt (NMI) — Corresponds to the system reaching ACPI state S5 followed by ACPI state S0. This is used to represent system non-maskable interrupt. • 12 = Off - Soft Graceful — Equivalent to Off Soft but preceded by a request to the managed element to perform an orderly shutdown. • 13 = Off - Hard Graceful — Equivalent to Off Hard but preceded by a request to the managed element to perform an orderly shutdown. • 14 = Master Bus Rest Graceful — Equivalent to Master Bus Reset but preceded by a request to the managed element to perform an orderly shutdown. • 15 = Power Cycle (Off - Soft Graceful) — Equivalent to Power Cycle (Off - Soft) but preceded by a request to the managed element to perform an orderly shutdown. • 16 = Power Cycle (Off - Hard Graceful) — Equivalent to Power Cycle (Off - Hard) but preceded by a request to the managed element to perform an orderly shutdown. • .. = DMTF Reserved. • 0x7FFF..0xFFFF = Vendor Specific.

DCIM_PhysicalAssetCapabilities

Property	Description
ElementName	<p>The user friendly name for this instance of Capabilities. In addition, the user friendly name can be used as an index property for a search of query.</p> <p> NOTE: Name does not have to be unique within a namespace.</p>
FRUInfoSupported	<p>Boolean indicating whether the PartNumber, Serial Number, Model, Manufacturer, and SKU properties of PhysicalElement are non-null,</p>


Property	Description
	non-blank values, and the availability of the complete FRU information.
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>

DCIM_RoleBasedManagementCapabilities

Property	Description
ElementName	<p>The user friendly name for this instance of Capabilities. In addition, the user friendly name can be used as a index property for a search of query.</p> <p> NOTE: Name does not have to be unique within a namespace.</p>
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the</p>

Property	Description
	above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.
SharedPrivilegeSupported	Set to TRUE if this PrivilegeManagementService supports association of multiple subjects or targets to a particular Privilege. If False, the AssignAccess method supports at most one entry each in the Subjects and Targets parameters.

DCIM_AllocationCapabilities

Property	Description
ElementName	The user friendly name for this instance of Capabilities. In addition, the user friendly name can be used as a index property for a search of query.  NOTE: Name does not have to be unique within a namespace.
InstanceID	Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. In order to ensure uniqueness within the NameSpace, the value of InstanceID SHOULD be constructed using the following preferred algorithm: <OrgID> : <LocalID> Where <OrgID> and <LocalID> are separated by a colon ':', and where <OrgID> MUST include a copyrighted, trademarked or otherwise unique name that is owned by the business entity creating/defining the InstanceID, or is a registered ID that is assigned to the business entity by a recognized global authority (This is similar to the <Schema Name> _<Class Name> structure of Schema class names.) In addition, to ensure uniqueness <OrgID> MUST NOT contain a colon (':'). When using this algorithm, the first colon to appear in InstanceID MUST appear between <OrgID> and <LocalID>. <LocalID> is chosen by the business entity and SHOULD not be re-used to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity MUST assure that the resultant InstanceID is not re-used across any InstanceIDs produced by this or other providers for this instance's NameSpace. For DMTF defined instances, the 'preferred' algorithm MUST be used with the <OrgID> set to 'CIM'.
ResourceType	The type of resource this allocation setting represents. Possible values are: <ul style="list-style-type: none"> • 1 = Other • 2 = Computer System • 3 = Processor • 4 = Memory • 5 = IDE Controller • 6 = Parallel SCSI HBA

Property	Description
	<ul style="list-style-type: none"> • 7 = FC HBA • 8 = iSCSI HBA • 9 = IB HCA • 10 = Ethernet Adapter • 11 = Other Network Adapter • 12 = I/O Slot • 13 = I/O Device • 14 = Floppy Drive • 15 = CD Drive • 16 = DVD drive • 17 = Disk Drive • 18 = Tape Drive • 19 = Storage Extent • 20 = Other Storage Device • 21 = Serial port • 22 = Parallel port • 23 = USB Controller • 24 = Graphics controller • 25 = IEEE 1394 Controller • 26 = Partitionable Unit • 27 = Base Partitionable Unit • 28 = Power • 29 = Cooling Capacity • 30 = Ethernet Switch Port • 31 = Logical Disk • 32 = Storage Volume • 33 = Ethernet Connection • .. = DMTF reserved • 0x8000..0xFFFF = Vendor Reserved
SharingMode	<p data-bbox="624 1266 1238 1291">Indicates how access to underlying resource is granted.</p> <p data-bbox="624 1318 839 1344">Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Dedicated — Exclusive access to underlying resource • 3 = Shared — Shared use of underlying resource. • .. = DMTF reserved • 0x8000..0xFFFF = Vendor Reserved <p data-bbox="624 1591 1350 1617">Actual quantity is controlled by min, max size, weights, and so on.</p>

DCIM_BIOSServiceCapabilities

Property	Description
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. In order to ensure uniqueness within the NameSpace, the value of InstanceID SHOULD be constructed using the following preferred algorithm: <OrgID> : <LocalID> Where <OrgID>and <LocalID> are separated by a colon ':', and where <OrgID> MUST include a copyrighted, trademarked or otherwise unique name that is owned by the business entity creating/defining the InstanceID, or is a registered ID that is assigned to the business entity by a recognized global authority (This is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness <OrgID> MUST NOT contain a colon (':'). When using this algorithm, the first colon to appear in InstanceID MUST appear between <OrgID>and <LocalID>. <LocalID> is chosen by the business entity and SHOULD not be re-used to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity MUST assure that the resultant InstanceID is not re-used across any InstanceIDs produced by this or other providers for this instance's NameSpace. For DMTF defined instances, the preferred algorithm MUST be used with the <OrgID> set to 'CIM'.</p>
MethodsSupported	<p>This property advertises the methods that are supported by the service .</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 0 = SetBIOSAttribute• 1 = RestoreBIOSDefaults• 2 = SetBIOSAttributeEmbeddedInstance• 3 = ReadRawBIOSData• 4 = WriteRawBIOSData• 5 = SetBIOSAttributes• 6..65535 = DMTF Reserved• 65536..4294967295 = Vendor Specified


DCIM_SoftwareInstallationServiceCapabilities

Property	Description
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned</p>

Property	Description
	<p>to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>
SupportedAsynchronousActions	<p>Enumeration indicating what operations will be executed as asynchronous jobs. If an operation is included in both this and SupportedSynchronousActions then the underlying implementation is indicating that it may or may not create a job. If a Job is created, then the methods in SoftwareInstallationService return a reference to that Job as the Job parameter.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Defer target/system reset • 3 = Force installation • 4 = Install • 5 = Update • 6 = Repair • 7 = Reboot • 8 = Password • 9 = Uninstall • 10 = Log • 11 = SilentMode • 12 = AdministrativeMode • .. = DMTF Reserved • 32768..65535 = Vendor Specific
SupportedInstallOptions	<p>An enumeration indicating the specific install related options supported by this service. Since this is an array, multiple values may be specified. See the InstallOptions parameter of the SoftwareInstallationService.InstallFromSoftwareIdentity method for the description of these values.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = Defer target/system reset • 3 = Force installation • 4 = Install • 5 = Update • 6 = Repair • 7 = Reboot • 8 = Password • 9 = Uninstall

Property	Description
	<ul style="list-style-type: none"> • 10 = Log • 11 = SilentMode • 12 = AdministrativeMode • .. = DMTF Reserved • 32768..65535 = Vendor Specific
SupportedTargetTypes	An array containing a list of SoftwareIdentity.TargetType properties that this service 'knows' how to install. TargetType is an application specific string which is invariant across version or name changes of the SoftwareIdentity and so can be used by a client to select Software Identities compatible with this service. If the service is generic (for example an OS installer), this array will be empty.
SupportedURISchemes	<p>This property lists the URI schemes supported by the SoftwareInstallationService.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 2 = data • 3 = file • 4 = ftp • 5 = http • 6 = https • 7 = nfs • 8 = tftp • .. = DMTF Reserved • 0x8000..0xFFFF = Vendor Specific

DCIM_ConcreteCollection

Property	Description
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p>


Property	Description
	Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.

DCIM_RedundancySet

Property	Description
ElementName	<p>ElementName A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>

Property	Description
MinNumberNeeded	MinNumberNeeded indicates the smallest number of elements that MUST be operational in order to function. For example, in an N+1 redundancy relationship, the MinNumberNeeded property is set equal to N. In a 'LimitedSparing' environment, this property is meaningless and SHOULD be set to zero.
RedundancyStatus	<p>RedundancyStatus provides information on the state of the RedundancyGroup.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = DMTF Reserved • 2 = Fully Redundant — Indicates that all of the configured redundancy is still available • 3 = Degraded Redundancy — Indicates that some configured elements are degraded, missing or failed but that the number of elements in the set is still greater than the minimum required (MinNumberNeeded); • 4 = Redundancy Lost — Indicates that sufficient configured elements are missing or failed that no redundancy is available and the next failure experienced will cause overall failure. • 5 = Overall Failure — Indicates that there has been an overall failure of the RedundancySet.
TypeOfSet	<p>TypeOfSet provides information on the type of redundancy. - N+1 (=2) indicates all members are active, are unaware and function independent of one another. However, there exist at least one extra member to achieve functionality. Sparing is implied (i.e. each member can be a spare for the other(s)). An example of N+1 is a system that has 2 power supplies, but needs only 1 power supply to functioning properly.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = N+1 • 3 = Load Balanced — Indicates all members are active. However, their functionality is not independent of each other. Their functioning is determined by some sort of load balancing algorithm (implemented in hardware and/or software). Sparing is implied (i.e. each member can be a spare for the other(s)). • 4 = Sparing — Indicates that all members are active and are aware of each others. However, their functionality is independent until failover. Each member can be a spare for the other(s). • 5 = Limited Sparing — Indicates that all members are active, and they may or may not be aware of each and they are not spares for each other. Instead, their redundancy is indicated by the IsSpare relationship. • .. = DMTF Reserved • 0x8000.. = Vendor Reserved


DCIM_Role

Property	Description
CommonName	A Common Name is a (possibly ambiguous) name by which the role is commonly known in some limited scope (such as an organization) and conforms to the naming conventions of the country or culture with which it is associated.
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.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
Name	The Name property defines the label by which the object is known. In the case of an LDAP-derived instance, the Name property value may be set to the distinguished name of the LDAP-accessed object instance.
RoleCharacteristics	<p>RoleCharacteristics provides descriptive information about the intended usage of the Role.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 2 = Static• 3 = Opaque• .. = DMTF Reserved• 32000..65535 = Vendor Specific <p>When the value 2 Static is specified, no modification to the role is allowed. Any requests by client to change the privileges or the scope of the role by modifying the associated instances of CIM_Privilege or referencing associations fails.</p> <p>When the value 2 Static is not specified, the instance of CIM_Role may be modified by a client. The modification may include changing the scope of the role or rights granted. When the value 3 Opaque is specified, the rights granted by the CIM_Role instance is not explicitly modeled through aggregation of instances of CIM_Privilege.</p> <p>When the value 3 Opaque is not specified, the rights granted by the instance of CIM_Role is explicitly modeled through aggregation of instances of CIM_Privilege.</p>

DCIM_IndicationSettingCollection

Property	Description
ElementName	Human user oriented identifier for this instance.
InstanceID	<p>Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. To ensure uniqueness within the NameSpace, the value of InstanceID should be constructed using the following preferred algorithm:</p> <p><OrgID> : <LocalID></p> <p>Where <OrgID> and <LocalID> are separated by a colon (:), and where <OrgID> must include a copyrighted, trademarked, or otherwise unique name that is owned by the business entity that is creating or defining the InstanceID or that is a registered ID assigned to the business entity by a recognized global authority. (This requirement is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness, <OrgID> must not contain a colon (:). When using this algorithm, the first colon to appear in InstanceID must appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and should not be reused to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity must assure that the resulting InstanceID is not reused across any InstanceIDs produced by this or other providers for the NameSpace of this instance. For DMTF-defined instances, the preferred algorithm must be used with the <OrgID>set to CIM.</p>
Name	The name of the product-defined event sources.
OccurrencesCount	Defines TXT state in MCH for vPro brand (on/off).

DCIM_ConfigurationCapacity

Property	Description
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
Increment	Increment in which Elements must be added or removed.
MaximumCapacity	Maximum number of Elements of type, ObjectType, that may be installed.

Property	Description
Name	The inherited Name serves as a part of the Configuration Capacity object key.
ObjectType	<p>The type of object (power supply, fan, disk drive, ...) whose capacities are indicated. This information is part of the class' key.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Other • 1 = Processors • 2 = Power Supplies • 3 = Fans • 4 = Batteries • 5 = I/O Slots • 6 = Memory Slots • 7 = MediaAccessDevices (Drives) • 8 = StorageMediaLocation Slots • 9 = StorageMediaLocation Magazines • 10 = StorageMediaLocation Panels • 11 = StorageMediaLocation InterLibrary Ports • 12 = StorageMediaLocation Limited Access Ports • 13 = Doors • 14 = MediaTransferDevice Pickers • 15 = MediaTransferDevice Changers • 16 = LabelReaders • 17 = Contained Chassis • 18 = Connected Chassis • 19 = Connected Frames • 20 = Front Side I/O Slots • 21 = Back Side I/O Slots • 22 = Cache Memory • 23 = NVS Memory • 24 = Volatile Memory • 25 = Multi-Purpose
UsedCapacity	This property defines the total capacity in use.
VendorCompatibilityStrings	<p>An array of strings that identifies the compatibility of the elements within the configuration capacity. This allows vendors to provide information to the system administrators by providing sufficient information to request the appropriate hardware that can populate the configuration. In order to ensure uniqueness within the NameSpace, each value defined by the vendor for use in the VendorCompatibilityStrings property SHOULD be constructed using the following preferred algorithm:</p> <p><OrgID>:<LocalID></p>

Property	Description
	Where <OrgID> and <LocalID> are separated by a colon ':', and where <OrgID> MUST include a copyrighted, trademarked or otherwise unique name that is owned by the business entity creating/defining the InstanceID, or is a registered ID that is assigned to the business entity by a recognized global authority (This is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness <OrgID> MUST NOT contain a colon (:). When using this algorithm, the first colon to appear in InstanceID MUST appear between <OrgID>and <LocalID>. <LocalID> is chosen by the business entity and SHOULD not be re-used to identify different underlying (real-world) elements.

DCIM_Location

Property	Description
Address	Address is a free-form string indicating a street, building, or other type of address for the location of the PhysicalElement.
Altitude	The altitude at which the managed resource is located .
Building	Free form string identifying the building in which the managed element resides.
Campus	Free form string identifying the campus in which the managed element resides.
ChangeableType	<p>Enumeration indicating intended usage of the DCIM_Location instance.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Not Changeable – Persistent – Indicates the instance of DCIM_Location reports read only location information and is not modifiable. • 1 = Changeable – Transient – Indicates the DCIM_Location reports location information that may be modified by the client but is not persisted. • 2 = Changeable – Persistent – Indicates the DCIM_Location reports location information that may be modified by the client that is persisted. • 3 = Not Changeable – Transient – Indicates the instance of DCIM_Location reports read only location information and is not modifiable.
City	Free form string identifying the city in which the managed element resides.
Country	Free form string identifying the Countryin which the managed element resides.
ElementName	Human user oriented identifier for this instance.

Property	Description
Floor	Free form string identifying the floor in which the managed element resides.
GPSLatitude	The latitude at which the managed resource is located.
GPSLongitude	The longitude at which the managed resource is located.
MaxStringLength	If ChangeableType has the value 1 or 2 , MaxStringLength specifies the maximum length for any property that may be modified by a client.
Name	Name is a free-form string defining a label for the Location. It is a part of the key for the object.
PhysicalPosition	Position is a free-form string that indicates the placement of a PhysicalElement. It can specify slot information on a HostingBoard, mounting site in a Cabinet, or latitude and longitude information, for example, from a GPS. It is part of the key of the Location object.
PostalCode	Free form string specifying postal code in which the managed element resides.
Province	Free form string identifying the province in which the managed element resides.
Rack	Free form string identifying the rack in which the managed element resides.
RackCluster	Free form string identifying the rack cluster in which the managed element resides.
RackTheta	Free form string identifying the rack theta.
RackUnit	A rack unit is a standard measurement of height used to denote the amount of space a physical component occupies in a rack. Rack capacity may be expressed in terms rack units. When used to indicate location, rack units indicate an offset from the bottom of rack. Thus RackUnit identifies a particular offset from the bottom of the rack that is occupied by the managed resource. It is implementation specific whether the rack unit reported is the highest, lowest, or intermediate rack unit occupied by the managed resource.
Row	Free form string identifying the row in which the managed element resides.
State	Free form string identifying the state in which the managed element resides.
StreetAddressOne	Free form string for the first line of a street address.
StreetAddressTwo	Free form string for the second line of a street address. Uses of this property include consistency with form based address entry, or if the number of characters in the street address exceed MaxStringLength.

DCIM_BIOSEnumeration

Property	Description
AttributeName	A string identifying the structured element name for a BIOS attribute using the format <OrgID> : <identifier> in which <OrgID>, does contain a colon (:). The value of <OrgID> is a copyrighted, trademarked or otherwise unique name that is owned by the entity defining the <identifier>, or is a registered ID that is assigned to the entity by a recognized global authority. For DMTF defined identifiers, the <OrgID> is set to DMTF and the <identifier> is specified in the BIOS Attribute Registry. <identifier>
CurrentValue	An array of strings representing the current value or values of the BIOS Attribute.
InstanceID	Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. In order to ensure uniqueness within the NameSpace, the value of InstanceID SHOULD be constructed using the following preferred algorithm: <OrgID> : <LocalID> Where <LocalID> and <OrgID> are separated by a colon ;, and where <OrgID> MUST include a copyrighted, trademarked or otherwise unique name that is owned by the business entity creating/ defining the InstanceID, or is a registered ID that is assigned to the business entity by a recognized global authority (This is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness <OrgID> MUST NOT contain a colon (:). When using this algorithm, the first colon to appear in InstanceID MUST appear between <OrgID> and <LocalID>. <LocalID> is chosen by the business entity and SHOULD not be re-used to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity MUST assure that the resultant InstanceID is not re-used across any InstanceIDs produced by this or other providers for this instance's NameSpace. For DMTF defined instances, the preferred algorithm MUST be used with the <OrgID> set to CIM .
IsReadOnly	This property specifies if the underlying system BIOS or BIOSService will not allow the Attribute to be modified through calls to the methods CIM_BIOSService.SetBIOSAttribute or CIM_BIOSService.SetBIOSDefaults. This does not mean the Attribute can not be modified through other means. Only that the CIM interface is not capable of making a change.
PossibleValues	An array of strings containing possible value definitions for the Attribute. The first element SHOULD not be NULL and there SHOULD be no NULL or empty string elements intermixed with populated array element values. A Value of NULL indicates an element's value is unknown.
PossibleValuesDescription	An array of free-form strings providing explanations and details behind the entries in the CIM_BIOSEnumeration.PossibleValues array. Note that each entry of this array is related to the entry in PossibleValues array that is located at the same index.

DCIM_BIOSPassword

Property	Description
AttributeName	A string identifying the structured element name for a BIOS attribute using the format <OrgID> : <identifier> in which <OrgID> , does contain a colon (:). The value of <OrgID> is a copyrighted, trademarked or otherwise unique name that is owned by the entity defining the <identifier> , or is a registered ID that is assigned to the entity by a recognized global authority. For DMTF defined identifiers, the <OrgID> is set to DMTF and the <identifier> is specified in the BIOS Attribute Registry.
CurrentValue	CurrentValue returns an empty array.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
InstanceID	Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. In order to ensure uniqueness within the NameSpace, the value of InstanceID SHOULD be constructed using the following preferred algorithm: <OrgID> : <LocalID> Where <OrgID> and <LocalID> are separated by a colon ' : ',and where <OrgID> MUST include a copyrighted, trademarked or otherwise unique name that is owned by the business entity creating/defining the InstanceID, or is a registered ID that is assigned to the business entity by a recognized global authority (This is similar to the <Schema Name>_<Class Name> structure of Schema class names.) In addition, to ensure uniqueness <OrgID> MUST NOT contain a colon (:). When using this algorithm, the first colon to appear in InstanceID MUST appear between <OrgID> and <LocalID> . <LocalID> is chosen by the business entity and SHOULD not be re-used to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity MUST assure that the resultant InstanceID is not re-used across any InstanceIDs produced by this or other providers for this instance's NameSpace. For DMTF defined instances, the preferred algorithm MUST be used with the <OrgID> set to CIM .
MaxLength	This property specifies the maximum string length allowed when modifying this BIOS attribute. A value of NULL defines the maximum length is unknown. A value of 0 defines the maximum length as 18446744073709551615, the limitation of the property definition as uint64.
MinLength	This property specifies the minimum string length allowed when modifying this BIOS attribute. A value of NULL is defined as zero.


Property	Description
PendingValue	PendingValue returns an empty array.

DCIM_BIOSString

Property	Description
AttributeName	A string identifying the structured element name for a BIOS attribute using the format (:) in which , does contain a colon (:). The value of is a copyrighted, trademarked or otherwise unique name that is owned by the entity defining the , or is a registered ID that is assigned to the entity by a recognized global authority. For DMTF defined identifiers, the is set to DMTF and the is specified in the BIOS Attribute Registry.
CurrentValue	An array of strings representing the current value or values of the BIOS Attribute.
InstanceID	Within the scope of the instantiating Namespace, InstanceID opaquely and uniquely identifies an instance of this class. In order to ensure uniqueness within the NameSpace, the value of InstanceID SHOULD be constructed using the following preferred algorithm: :Where and are separated by a colon (:), and where MUST include a copyrighted, trademarked or otherwise unique name that is owned by the business entity creating/defining the InstanceID, or is a registered ID that is assigned to the business entity by a recognized global authority (This is similar to the _ structure of Schema class names.) In addition, to ensure uniqueness MUST NOT contain a colon (:). When using this algorithm, the first colon to appear in InstanceID MUST appear between and . is chosen by the business entity and SHOULD not be re-used to identify different underlying (real-world) elements. If the above preferred algorithm is not used, the defining entity MUST assure that the resultant InstanceID is not re-used across any InstanceIDs produced by this or other providers for this instance's NameSpace. For DMTF defined instances, the preferred algorithm MUST be used with the set to CIM .
MaxLength	This property specifies the maximum string length allowed when modifying this BIOS attribute. A value of NULL defines the maximum length is unknown. A value of 0 defines the maximum length as 18446744073709551615, the limitation of the property definition as uint64.
StringType	The StringType property provides management applications with information defining implementation's capabilities regarding string values. A value of ASCII indicates a plain text formatting with no tabs formatting or bolds, plain text. A value of hex indicates a simple encoding of the numerals 0 to 9 and the letters A to F and is not case sensitive. A value of unicode indicates fully multi-lingual text support. A string BIOS Attribute with value of regex is a regular expression and the CIM_BIOSString.ValueExpression is applied to values represented and any value that is attempted to be set by invoking SetBIOSAttribute(). Possible values are: <ul style="list-style-type: none"> • 0 = Unknown • 2 = ASCII

Property	Description
	<ul style="list-style-type: none"> • 3 = hex • 4 = unicode • 5 = regex .. = DMTF Reserved • 65536..4294967295 = Vendor Reserved

DCIM_MemoryError


Property	Description
DeviceCreationClassName	The scoping StorageExtent's CreationClassName.
DeviceID	The scoping StorageExtent's DeviceID.
ElementName	<p>A user-friendly name for the object. This property allows each instance to define a user-friendly name in addition to its key properties, identity data, and description information.</p> <p> NOTE: The Name property of ManagedSystemElement is also defined as a user-friendly name. But, it is often subclassed to be a Key. It is not reasonable that the same property can convey both identity and a user-friendly name, without inconsistencies. Where Name exists and is not a Key (such as for instances of LogicalDevice), the same information can be present in both the Name and ElementName properties.</p>
ErrorInfo	<p>An integer enumeration describing the type of error that occurred most recently. For example, single (value = 6) or double bit errors (7) can be specified using this property. The values, 12 – 14, are undefined in the CIM Schema since in DMI, they mix the semantics of the type of error and whether it was correctable or not. The latter is indicated in the property, CorrectableError.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = OK • 3 = Bad Read • 4 = Parity Error • 5 = Single-Bit Error • 6 = Double-Bit Error • 7 = Multi-Bit Error • 8 = Nibble Error • 9 = Checksum Error • 10 = CRC Error • 32768 = DIMM Disabled via Spare Activation
StartingAddress	Specifies the address of the memory error. The type of error is described by the ErrorInfo property. If the ErrorInfo property is equal to 3, OK , then this property has no meaning.

Property	Description
SystemCreationClassName	The scoping System's CreationClassName.
SystemName	The scoping System's Name.

DCIM_IdentityContext

Property	Description
ElementInContext	An Identity whose context is defined.
ElementProvidingContext	The ManagedElement that provides context or scope for the Identity.

DCIM_OrderedComponent

Property	Description
AssignedSequence	<p>AssignedSequence is an unsigned integer n that indicates the relative order of ManagedElement instances. When n is a positive integer, it indicates a place in the sequence of members, with smaller integers indicating earlier positions in the sequence. The special value 0 indicates don't care. If two or more members have the same non-zero sequence number, then the ordering between those members is irrelevant, but they must all be ordered at the appropriate place in the overall sequence. A series of examples will make ordering of members clearer: If all members have the same sequence number, regardless of whether it is 0 or non-zero, any order is acceptable. o The values: 1:MEMBER A 2:MEMBER B 1:MEMBER C 3:MEMBER D indicate two acceptable orders: A,C,B,D or C,A,B,D, since A and C can be ordered in either sequence, but only at the 1 position.</p> <p> NOTE: The non-zero sequence numbers need not start with 1, and they need not be consecutive. All that matters is their relative magnitude.</p>
GroupComponent	The parent element in the association.
PartComponent	The child element in the association.

DCIM_Container

Property	Description
GroupComponent	The PhysicalPackage that contains other PhysicalElements, including other Packages.
LocationWithinContainer	A free-form string representing the positioning of the PhysicalElement within the PhysicalPackage. Information relative to stationary elements in the Container (for example, second drive bay from the top), angles, altitudes and other data may be recorded in this property. This string could supplement or be used in place of instantiating the CIM_Location object.

Property	Description
PartComponent	The PhysicalElement which is contained in the Package.

DCIM_ConcreteComponent

Property	Description
GroupComponent	The parent element in the association.
PartComponent	The child element in the association.

DCIM_SystemDevice

Property	Description
GroupComponent	The aggregating system also provides name scoping for the Account.
PartComponent	The subordinate Account.

DCIM_AccountOnSystem

Property	Description
GroupComponent	The aggregating system also provides name scoping for the Account.
PartComponent	The subordinate Account.

DCIM_InstalledOS

Property	Description
GroupComponent	The ComputerSystem.
PartComponent	The OperatingSystem installed on the ComputerSystem.
PrimaryOS	Boolean indicating that the OperatingSystem is the default OS for the ComputerSystem.

DCIM_SystemBIOS

Property	Description
GroupComponent	The ComputerSystem that boots from the BIOS.
PartComponent	The System's BIOS.

DCIM_SystemComponent

Property	Description
GroupComponent	The parent System in the Association.
PartComponent	The child element that is a component of a System.

DCIM_SettingsDefineCapabilities

Property	Description
GroupComponent	The Capabilities instance.
PartComponent	A Setting used to define the associated Capabilities instance.
PropertyPolicy	<p>PropertyPolicy defines whether or not the non-null, non-key properties of the associated SettingData instance are treated independently or as a correlated set. For instance, an independent set of maximum properties may be defined, when there is no relationship between each property. On the other hand, several correlated sets of maximum properties may need to be defined when the maximum values of each are dependent on some of the others.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 0 = Independent• 1 = Correlated• 2.. = DMTF Reserved
ValueRange	<p>The ValueRange property indicates further semantics on the interpretation of all non-null, non-key properties of the Component SettingData. Minimums, Maximums, and Increments, are only evaluated against non-null, non-key, non-enumerated, non-boolean, numeric properties of the SettingData instance. Each property of that set is mathematically comparable to other instances of that property.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 0 = Point — Indicates that this SettingData instance provides a single set of values.• 1 = Minimums — Indicates that this SettingData instance provides minimum values for evaluated properties. When used with PropertyPolicy = Independent, only one such setting per particular SettingData instance is specified for any Capabilities. Unless restricted by a Maximums on the same set of properties, all values that compare higher than the specified values are also considered to be supported by the associated capabilities instance.• 2 = Maximums — Indicates that this SettingData instance provides maximum values for evaluated properties. When used with PropertyPolicy = Independent, only one such setting per particular SettingData instance is specified for any Capabilities. Unless restricted by a Minimums on the same set of properties, all values that compare lower than the specified values are also considered to be supported by the associated capabilities instance.

Property	Description
	<ul style="list-style-type: none"> 3 = Increments — Indicates that this SettingData instance provides increment values for evaluated properties. For the associated Capabilities, if an evaluated property currently has no corresponding minimums or maximums, then the property has no affect. Otherwise, for each evaluated property: its value x is between the minimum and maximum, inclusively, and has the property that both the result of maximum minus x and the result of x minus minimum are each an integer multiple of the increment. If either minimum or maximum is not specified and the other is, then the missing value is respectively assumed to be the lowest or highest supported value for the property's data-type. Additionally, if both a minimum and a maximum are specified for an evaluated property, then the result of maximum minus minimum is an integer multiple of the increment. 4.. = DMTF Reserved
ValueRole	<p>The ValueRole property indicates further semantics on the interpretation of the non-null, non-key properties of the Component SettingData.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Default — Indicates that property values of the component SettingData instance will be used as default values, when a new SettingData instance is created for elements whose capabilities are defined by the associated Capabilities instance. Across instances of settingdata, for particular properties having the same semantic purpose, at most one such settingdata instance is specified as a default. 1 = Optimal — Indicates that the SettingData instance represents optimal setting values for elements associated with the associated capabilities instance. Multiple component SettingData instances may be declared as optimal. 2 = Mean — Indicates that the non-null, non-key, non-enumerated, non-boolean, numeric properties of the associated SettingData instance represents an average point along some dimension. For different combinations of SettingData properties, multiple component SettingData instances may be declared as Mean. 3 = Supported — Indicates that the non-null, non-key properties of the Component SettingData instance represents a set of supported property values that are not otherwise qualified. 4.. = DMTF Reserved

DCIM_DeviceSAPImplementation

Property	Description
Antecedent	The LogicalDevice.
Dependent	The ServiceAccessPoint implemented using the LogicalDevice.

DCIM_HostedAccessPoint

Property	Description
Antecedent	The hosting System.
Dependent	The SAPs that are hosted on this System.

DCIM_HostedCollection

Property	Description
Antecedent	The scoping system.
Dependent	The collection defined in the context of a system.

DCIM_HostedService

Property	Description
Antecedent	The hosting System.
Dependent	The Service hosted on the System.

DCIM_VideoHeadOnController

Property	Description
Antecedent	The video device that includes the head.
Dependent	The head on the video device.

DCIM_SAPSAPDependency

Property	Description
Antecedent	The required ServiceAccessPoint.
Dependent	The ServiceAccessPoint that is dependent on an underlying SAP.

DCIM_ReferencedProfile

Property	Description
Antecedent	The RegisteredProfile that is referenced by the Dependent Profile.
Dependent	A RegisteredProfile that references other profiles.

DCIM_MetricDefForME

Property	Description
Antecedent	The CIM_ManagedElement that can have metrics of this type associated with it.
Dependent	A CIM_BaseMetricDefinition for a CIM_ManagedElement.
MetricCollectionEnabled	<p>MetricCollectionEnabled indicates whether the metric defined by the referenced CIM_BaseMetricDefinition is being collected for the referenced CIM_ManagedElement.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 2 = Enabled — Indicates the metric is being collected.• 3 = Disabled — Indicates the metric is not being collected.• 4 = Reserved .. = DMTF Reserved• 32768..65535 = Vendor Reserved <p>When collection of a metric is reenabled, the metric is re-initialized such that any values for a current access metric reflect data collected after the time at which collection was reenabled.</p>
RecordedSince	<p>If a metric is being collected for an instance of CIM_ManagedElement, the RecordedSince indicates when the capturing of the metric began. If MetricCollectionEnabled is 3 (Disabled), the RecordedSince property has a value of 99990101000000.000000+000. A value of NULL indicates the beginning of the metric capture period is unknown.</p>

DCIM_MetricForME

Property	Description
Antecedent	ManagedElement to which the metric values belong.
Dependent	A metric value for the ManagedElement.

DCIM_MetricInstance

Property	Description
Antecedent	The CIM_BaseMetricDefinition for this particular CIM_BaseMetricValue.
Dependent	A CIM_BaseMetricValue instance holding the Value.

DCIM_ElementInConnector

Property	Description
Antecedent	The Connector into which the Element is inserted.
Dependent	The Element in the Connector.

DCIM_Docked

Property	Description
Antecedent	The Docking Station Chassis.
Dependent	The System Chassis.

DCIM_ConcreteDependency

Property	Description
Antecedent	Antecedent represents the independent object in this association.
Dependent	Dependent represents the object that is dependent on the Antecedent.

DCIM_Realizes

Property	Description
Antecedent	The physical component that implements the Device.
Dependent	The LogicalDevice.

DCIM_ComputerSystemPackage

Property	Description
Antecedent	Antecedent The PhysicalPackage(s) that realize a Unitary ComputerSystem.
Dependent	The UnitaryComputerSystem.
PlatformGUID	A Globally Unique Identifier for the System's Package.

DCIM_RunningOS

Property	Description
Antecedent	The OperatingSystem currently running on the ComputerSystem.
Dependent	The ComputerSystem.

DCIM_UseOfLog

Property	Description
Antecedent	The Log.
Dependent	The ManagedSystemElement whose information is recorded in the Log.
RecordedData	A free-form string describing the use of the Log by the ManagedSystemElement.

DCIM_AssociatedIndicatorLED

Property	Description
Antecedent	The ManagedSystemElement that has an associated LED.
Dependent	The LED.

DCIM_AssociatedCacheMemory

Property	Description
Antecedent	Memory installed on or associated with a Device.
Associativity	<p>An integer enumeration defining the system cache associativity. For example, 5 indicates a fully associative cache.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 0 = Unknown• 1 = Other• 2 = Direct Mapped• 3 = 2-way Set-Associative• 4 = 4-way Set-Associative• 5 = Fully Associative• 6 = 8-way Set-Associative• 7 = 16-way Set-Associative

Property	Description
CacheType	<p>Defines whether this is for instruction caching (value = 2), data caching (value = 3) or both (value = 4, Unified). Also, Other (1) and Unknown (0) can be defined.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Instruction • 3 = Data • 4 = Unified
Dependent	The LogicalElement.
ReadPolicy	<p>Policy that is employed by the Cache for handling read requests. For example, Read, Read-Ahead or both can be specified using the values, 2, 3 or 4, respectively. If the read policy is determined individually (ie, for each request), then the value 5 (Determination per I/O) should be specified. Other (1) and Unknown (0) are also valid values.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Read • 3 = Read-Ahead • 4 = Read and Read-Ahead • 5 = Determination Per I/O
WritePolicy	<p>Defines whether this is write-back (value = 2) or write-through (value = 3) Cache, or whether this information Varies with Address (4) or is defined individually for each I/O (5). Also, Other and Unknown (0) can be specified.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Read • 3 = Read-Ahead • 4 = Read and Read-Ahead • 5 = Determination Per I/O

DCIM_AssociatedSensor

Property	Description
Antecedent	The Sensor.
Dependent	The ManagedSystemElement for which information is measured by the Sensor.

DCIM_RemoteAccessAvailableToElement

Property	Description
Antecedent	The remote server or system.
Dependent	The EnabledLogicalElement which has knowledge of the remote server or system.
IsDefault	Indicates that this access information is defined as a default configuration for the system.
OrderOfAccess	When an element is accessing remote services and systems, it MAY be necessary to order those accesses. This property defines that ordering — where lower numbers indicate a higher priority for access. A value of 0 (default) indicates that ordering does not apply. If multiple RemoteAccessPoint instances have the same value for OrderOfAccess, then these AccessPoints MAY be used in any sequence defined by the implementation.

DCIM_ServiceServiceDependency

Property	Description
Antecedent	The required Service
Dependent	The Service that is dependent on an underlying Service.

DCIM_DeviceConnection

Property	Description
Antecedent	A LogicalElement's Software Asset.
Dependent	The ManagedElement that requires or uses the software.

DCIM_ElementSoftwareIdentity


Property	Description
Antecedent	A LogicalElement's Software Asset.
Dependent	The ManagedElement that requires or uses the software.


DCIM_ElementCapabilities

Property	Description
Capabilities	The Capabilities object associated with the element.
ManagedElement	The managed element.

DCIM_ElementSettingData


Property	Description
IsCurrent	<p>An enumerated integer that indicates that the referenced SettingData represents the last requested values for attributes of the Managed Element or that this information is unknown. Attributes of the SettingData itself indicate whether it represents the last configuration applied to the ManagedElement or is a transient snapshot of the requested settings. Current operational characteristics of a ManagedElement should be represented with properties of the ManagedElement. element or that this information is unknown. For a given ManagedElement and all instances of a SettingData subclass, there is at most one instance of ElementSettingData which references the ManagedElement and an instance of the SettingData sub-class where there is a specified non-null, non-key property of the SettingData sub-class, and the IsMaximum property on the referencing ElementSettingData instance has a value of Is Maximum or the IsMinimum property on the referencing ElementSettingData instance has a value of Is Minimum and the IsCurrent property on the referencing ElementSettingData instance has a value of Is Current. There is at most one instance of ElementSettingData which references a ManagedElement and an instance of a SettingData sub-class where the IsCurrent property has a value of Is Current and the IsMinimum property does not have a value of Is Minimum and the IsMaximum property does not have a value of Is Maximum.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 0 = Unknown• 1 = Is Current• 2 = Is Not Current
IsDefault	<p>An enumerated integer that indicates that the referenced setting is a default setting for the element or that this information is unknown.</p> <p>Possible values are:</p> <ul style="list-style-type: none">• 0 = Unknown

Property	Description
IsMaximum	<ul style="list-style-type: none"> • 1 = Is Default • 2 = Is Not Default <p>This property affects the interpretation of all non-null, non-enumerated, non-binary, numeric, non-key properties of the associated SettingData instance. All other properties of the associated SettingData instance are not affected by this property.</p> <p> NOTE: It is assumed that the semantics of each property of this set are designed to be compared mathematically. When IsMaximum = Is Maximum, this property indicates that the affected property values specified in the associated SettingData instance defines desired maximum setting values. The operational maximum values should be modeled as a properties of the CIM_ManagedElement instance. When IsMaximum = Is Not Maximum, this property indicates that the affected property values specified in the associated SettingData instance does not define desired maximum setting values. When IsMaximum = Unknown, this property indicates that the affected property values specified in the associated SettingData instance may correspond to maximum desired setting values. When IsMaximum = Not Applicable, this property indicates that the affected property values specified in the associated SettingData instance is not interpreted with respect to whether each defines a desired maximum.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Not Applicable • 2 = Is Maximum • 3 = Is Not Maximum
IsMinimum	<p>This property affects the interpretation of all non-null, non-enumerated, non-binary, numeric, non-key properties of the associated SettingData instance. All other properties of the associated SettingData instance are not affected by this property.</p>

Property	Description
	<p> NOTE: It is assumed that the semantics of each property of this set are designed to be compared mathematically. When <code>IsMinimum = Is Minimum</code>, this property indicates that the affected property values specified in the associated <code>SettingData</code> instance defines desired minimum setting values. The operational minimum values should be modeled as a properties of the <code>CIM_ManagedElement</code> instance. When <code>IsMinimum = Is Not Minimum</code>, this property indicates that the affected property values specified in the associated <code>SettingData</code> instance does not define desired minimum setting values. When <code>IsMinimum = Unknown</code>, this property indicates that the affected property values specified in the associated <code>SettingData</code> instance may correspond to minimum desired setting values. When <code>IsMinimum = Not Applicable</code>, this property indicates that the affected property values specified in the associated <code>SettingData</code> instance is not interpreted with respect to whether each defines a desired minimum.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Not Applicable • 2 = Is Minimum • 3 = Is Not Minimum
IsNext	<p>An enumerated integer indicating whether or not the referenced setting is the next setting to be applied. For example, the application could take place on a re-initialization, reset, reconfiguration request. This could be a permanent setting, or a setting used only one time, as indicated by the flag. If it is a permanent setting then the setting is applied every time the managed element reinitializes, until this flag is manually reset. However, if it is single use, then the flag is automatically cleared after the settings are applied. Also note that if this flag is specified (i.e. set to value other than Unknown), then this takes precedence over any <code>SettingData</code> that may have been specified as Default. For example: If the managed element is a computer system, and the value of this flag is Is Next, then the setting will be effective next time the system resets. And, unless this flag is changed, it will persist for subsequent system resets. However, if this flag is set to Is Next For Single Use, then this setting will only be used once and the flag would be reset after that to Is Not Next. So, in the above example, if the system reboots in a quick succession, the setting will not be used at the second reboot.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Is Next • 2 = Is Not Next • 3 = Is Next For Single Use
IsPending	<p>An enumerated integer that indicates whether or not the referenced <code>CIM_SettingData</code> instance represents outstanding changes to the configuration of the referenced <code>CIM_ManagedElement</code> that are</p>

Property	Description
	<p>known to be pending and are in the process of being applied. A value of 0 Unknown indicates that the referenced instance of CIM_SettingData may represent the last configuration applied to the referenced CIM_ManagedElement. A value of 2 (Is Pending) indicates that the referenced instance of CIM_SettingData represents outstanding changes to the configuration of the referenced CIM_ManagedElement that are known to be pending. A value of 3 (Is Not Pending) indicates that the referenced instance of CIM_SettingData does not represent outstanding changes to the configuration of the referenced CIM_ManagedElement.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 2 = Is Pending • 3 = Is Not Pending • .. = DMTF Reserved • 32768.. = Vendor Reserved
ManagedElement	The managed element.
SettingData	The SettingData object that is associated with the element.

DCIM_OrderedMemberOfCollection

Property	Description
AssignedSequence	<p>AssignedSequence is an unsigned integer n that indicates the relative position of members within a Collection. When n is a positive integer, it indicates a place in the sequence of members, with smaller integers indicating earlier positions in the sequence. The special value 0 indicates don't care. If two or more members have the same non-zero sequence number, then the ordering between those members is irrelevant, but they must all be ordered at the appropriate place in the overall sequence. A series of examples will make ordering of members clearer: If all members have the same sequence number, regardless of whether it is 0 or non-zero, any order is acceptable. The values are: 1:MEMBER A 2:MEMBER B 1:MEMBER C 3:MEMBER D indicate two acceptable orders: A,C,B,D or C,A,B,D, because A and C can be ordered in either sequence, but only at the 1 position.</p> <p> NOTE: The non-zero sequence numbers do not need to start with 1, and they do not need to be consecutive. However, the sequence numbers must reflect their relative magnitude.</p>
Collection	The Collection that aggregates members.
Member	The aggregated member of the Collection.

DCIM_MemberOfCollection

Property	Description
Collection	The Collection that aggregates members.
Member	The aggregated member of the Collection.

DCIM_OwningCollectionElement

Property	Description
OwnedElement	The Collection owned or controlled by the ManagedElement.
OwningElement	The ManagedElement acting as the 'owner' or object that is responsible for the control of the Collection.

DCIM_ElementConformsToProfile

Property	Description
ConformantStandard	The RegisteredProfile to which the ManagedElement conforms.
ManagedElement	The ManagedElement that conforms to the RegisteredProfile.

DCIM_RoleLimitedToTarget


Property	Description
DefiningRole	The Role whose target set is explicitly defined.
TargetElement	Reference to the target set that can be accessed from the Role.

DCIM_ElementCapacity

Property	Description
Capacity	PhysicalCapacity describes the minimum and maximum requirements, and ability to support different types of hardware for a PhysicalElement.
Element	The PhysicalElement being described.

DCIM_ServiceAffectsElement

Property	Description
AffectedElement	The Managed Element that is affected by the Service.
AffectingElement	The Service that is affecting the ManagedElement.

Property	Description
AssignedSequence	<p>AssignedSequence is an unsigned integer 'n' that indicates the relative sequence in which order the ManagedElement instances are affected by the Service, which is associated to the ManagedElement instances through this class. The implementation of the Service uses the relative sequence to order all the managed elements represented by ManagedElements associated through this class for servicing or prioritizing. When n is a positive integer, it indicates a place in the sequence of affected elements, with smaller integers indicating earlier positions in the sequence. NULL or the special value 0 indicates don't care. If two or more affected elements have the same non-zero sequence number, then the ordering between those elements is irrelevant, but they must all be serviced in the appropriate order in the overall sequence. A series of examples will make order of elements clearer: If all elements affected have the same sequence number, regardless of whether it is 0 or non-zero, any order is acceptable. The values, 1:ELEMENT A 2:ELEMENT B 1:ELEMENT C 3:ELEMENT D, indicate two acceptable orders: A,C,B,D or C,A,B,D, since A and C can be ordered in either sequence, but only at the 1 position.</p> <p> NOTE: The non-zero sequence numbers need not start with 1, and they need not be consecutive. All that matters is their relative magnitude.</p>
ElementEffects	<p>An enumeration that describes the effect on the ManagedElement. This array corresponds to the OtherElementEffectsDescriptions array, where the latter provides details that are related to the high-level effects enumerated by this property. Additional detail is required if the ElementEffects array contains the value 1 (Other).</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 = Unknown • 1 = Other • 2 = Exclusive Use — Indicates that no other Service may have this association to the element. • 3 = Performance Impact — Deprecated in favor of Consumes, Enhances Performance, or Degrades Performance. Execution of the Service may enhance or degrade the performance of the element. This may be as a side-effect of execution or as an intended consequence of methods provided by the Service. • 4 = Element Integrity — Deprecated in favor of Consumes, Enhances Integrity, or Degrades Integrity. Execution of the Service may enhance or degrade the integrity of the element. This may be as a side-effect of execution or as an intended consequence of methods provided by the Service. • 5 = Manages — The Service manages the element. • 6 = Consumes — Execution of the Service consumes some or all of the associated element as a consequence of running the Service. For example, the Service may consume CPU cycles, which may affect performance, or Storage which may affect both performance and integrity. (For instance, the lack of free storage can degrade integrity by reducing the ability to save state.) Consumes may be used alone or in conjunction with other values, in particular, Degrades Performance and Degrades Integrity. Manages and not Consumes should be used to reflect allocation services that may be provided by a Service.

Property	Description
	<ul style="list-style-type: none"> 7 = Enhances Integrity — The Service may enhance integrity of the associated element. 8 = Degrades Integrity — The Service may degrade integrity of the associated element. 9 = Enhances Performance — The Service may enhance performance of the associated element. 10 = Degrades Performance — The Service may degrade performance of the associated element. .. = DMTF Reserved 0x8000..0xFFFF = Vendor Reserved
OtherElementEffectsDescriptions	Provides details for the effect at the corresponding array position in ElementEffects. This information is required if ElementEffects contains the value 1 (Other).

DCIM_AssociatedPowerManagementService

Property	Description
OtherPowerState	A string describing the additional power management state of the element, used when the PowerState is set to the value 1, Other .
OtherRequestedPowerState	A string describing the additional power management state of the element, used when the RequestedPowerState is set to the value 1, Other .
PowerOnTime	The time when the element will be powered on again, used when the RequestedPowerState has the value 2, On, 5, Power Cycle (Off - Soft) or 6, Power Cycle (Off - Hard) .
PowerState	<p>The current power state of the associated Managed System Element.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 1 = Other 2 = On 3 = Sleep - Light 4 = Sleep -Deep 5 = Power Cycle (Off - Soft) 6 = Off - Hard 7 = Hibernate (Off - Soft) 8 = Off - Soft 9 = Power Cycle (Off-Hard) 10 = Master Bus Reset 11 = Diagnostic Interrupt (NMI) 12 = Off - Soft Graceful 13 = Off - Hard Graceful 14 = Master Bus Reset Graceful 15 = Power Cycle (Off - Soft Graceful) 16 = Power Cycle (Off - Hard Graceful)

Property	Description
	<ul style="list-style-type: none"> .. = DMTF Reserved 0x7FFF..0xFFFF = Vendor Specific
RequestedPowerState	<p>The desired or the last requested power state of the associated Managed System Element, irrespective of the mechanism through which the request was made. If the requested power state is unknown, then the property has the value of 0 Unknown. If the property has no meaning or is not supported, then the property has the value 12 Not Applicable.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> 0 = Unknown 1 = Other 2 = On 3 = Sleep - Light 4 = Sleep - _Deep 5 = Power Cycle (Off - Soft) 6 = Off - Hard 7 = Hibernate (Off - Soft) 8 = Off - Soft 9 = Power Cycle (Off-Hard) 10 = Master Bus Reset 11 = Diagnostic Interrupt (NMI) 12 = Not Applicable 13 = Off - Soft Graceful 14 = Off - Hard Graceful 15 = Master Bus Reset Graceful 16 = Power Cycle (Off - Soft Graceful) 17 = Power Cycle (Off - Hard Graceful) .. = DMTF Reserved 0x7FFF..0xFFFF = Vendor Specific
ServiceProvided	The Service that is available.
UserOfService	The ManagedElement that can use the Service.

DCIM_ServiceAvailableToElement

Property	Description
ServiceProvided	The Service that is available.
UserOfService	The ManagedElement that can use the Service.

DCIM_LogManagesRecord

Property	Description
Log	The Log.
Record	The record managed by the Log.

DCIM_InstalledSoftwareIdentity

Property	Description
InstalledSoftware	The SoftwareIdentity that is installed.
System	The system on which the software is installed.

DCIM_ConcretIdentity

Property	Description
SameElement	SameElement Another aspect of the ManagedElement.
SystemElement	One aspect of the ManagedElement. The use of 'System' in the name does not limit the scope of the association. This name is an artifact of the original definition of the association.

DCIM_SettingsDefineState

Property	Description
ManagedElement	The managed element.
SettingData	The SettingData object that provides additional information about the current state and configuration of the ManagedElement.

DCIM_ElementLocation

Property	Description
Element	The ManagedElement whose location is specified.
PhysicalLocation	The location of the element.

DCIM_CredentialContext

Property	Description
ElementInContext	A Credential whose context is defined.
ElementProvidingContext	The ManagedElement that provides context or scope for the Credential.



DCIM_OwningJobElement

Property	Description
OwnedElement	The Job created by the ManagedElement.
OwningElement	The ManagedElement responsible for the creation of the Job.

Tokens used in Dell Command | Monitor

Following is the list of Tokens used in Dell Command | Monitor.

Attribute Name	Description
AGP Slot	<p>Enables or disables the on-board AGP slot.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
AC Power Recovery Mode	<p>Sets AC Power Recovery Mode.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Last • On
Admin Setup Lockout	<p>If the value of Admin Setup Lockout is Enabled and the Admin Password is set, users will not be allowed to see any part of the Setup screens unless they enter the correct Admin Password. If the Admin password is NOT set and Admin Setup Lockout is Enabled, users will be able to access Setup normally.</p> <p>If the value of Admin Setup Lockout is Disabled and the Admin Password is or is not set, users will be allowed to enter Setup normally. However, many fields may still be inaccessible, depending on how other Setup security settings are configured.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Advanced Battery Charging Mode	<p>This configures all the batteries in the systems with Advance Battery Charging Mode to maximize the battery health.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 1– Disable • 2 – Enable

Attribute Name	Description
Adv Battery Charge Cfg Sun	<p data-bbox="628 249 1398 405"> NOTE: If Advanced Battery Charging Mode is disabled, Dell Command Monitor shows the instances for Adv Battery Charge Cfg with all '0' values. User cannot set the values in Adv Battery Charge Cfg. When the Advanced Battery Charging Mode is enabled, instances for Adv Battery Charge Cfg reports the data retrieved from BIOS.</p> <p data-bbox="628 443 1238 495">This attribute configures the Advanced Battery charging configuration for Sunday.</p> <p data-bbox="628 522 839 548">Possible values are:</p> <ul data-bbox="628 575 1046 701" style="list-style-type: none"> • 0 – 23 – Beginning of day Hour • 0 – 59 – Beginning of day Minute • 0 – 23 – Work Period Hour • 0 – 59 – Work Period Minute <p data-bbox="628 728 991 753">Attribute name for Set operation:</p> <ul data-bbox="628 760 1078 890" style="list-style-type: none"> • Adv Battery Charge Cfg Sun BodHour • Adv Battery Charge Cfg Sun BodMin • Adv Battery Charge Cfg Sun WpHour • Adv Battery Charge Cfg Sun WpMin <p data-bbox="628 917 1398 989"> NOTE: The values defined for Minute field are 0,15,30 and 45. In case you set any other value, the value is round to the lower defined value.</p>
Adv Battery Charge Cfg Mon	<p data-bbox="628 1031 1238 1083">This attribute configures the Advanced Battery charging configuration for Monday.</p> <p data-bbox="628 1110 839 1136">Possible values are:</p> <ul data-bbox="628 1163 1046 1289" style="list-style-type: none"> • 0 – 23 – Beginning of day Hour • 0 – 59 – Beginning of day Minute • 0 – 23 – Work Period Hour • 0 – 59 – Work Period Minute <p data-bbox="628 1316 991 1341">Attribute name for Set operation:</p> <ul data-bbox="628 1348 1078 1478" style="list-style-type: none"> • Adv Battery Charge Cfg Mon BodHour • Adv Battery Charge Cfg Mon BodMin • Adv Battery Charge Cfg Mon WpHour • Adv Battery Charge Cfg Mon WpMin
Adv Battery Charge Cfg Tue	<p data-bbox="628 1514 1238 1566">This attribute configures the Advanced Battery charging configuration for Tuesday.</p> <p data-bbox="628 1593 839 1619">Possible values are:</p> <ul data-bbox="628 1646 1046 1772" style="list-style-type: none"> • 0 – 23 – Beginning of day Hour • 0 – 59 – Beginning of day Minute • 0 – 23 – Work Period Hour • 0 – 59 – Work Period Minute

Attribute Name	Description
Adv Battery Charge Cfg Wed	<p data-bbox="628 243 991 268">Attribute name for Set operation:</p> <ul data-bbox="628 279 1078 407" style="list-style-type: none"> <li data-bbox="628 279 1078 304">• Adv Battery Charge Cfg Tue BodHour <li data-bbox="628 310 1078 336">• Adv Battery Charge Cfg Tue BodMin <li data-bbox="628 342 1078 367">• Adv Battery Charge Cfg Tue WpHour <li data-bbox="628 373 1078 399">• Adv Battery Charge Cfg Tue WpMin <p data-bbox="628 443 1241 491">This attribute configures the Advanced Battery charging configuration for Wednesday.</p> <p data-bbox="628 522 839 548">Possible values are:</p> <ul data-bbox="628 573 1046 701" style="list-style-type: none"> <li data-bbox="628 573 1046 598">• 0 – 23 – Beginning of day Hour <li data-bbox="628 604 1046 630">• 0 – 59 – Beginning of day Minute <li data-bbox="628 636 1046 661">• 0 – 23 – Work Period Hour <li data-bbox="628 667 1046 693">• 0 – 59 – Work Period Minute <p data-bbox="628 726 991 751">Attribute name for Set operation:</p> <ul data-bbox="628 762 1078 888" style="list-style-type: none"> <li data-bbox="628 762 1078 787">• Adv Battery Charge Cfg Wed BodHour <li data-bbox="628 793 1078 819">• Adv Battery Charge Cfg Wed BodMin <li data-bbox="628 825 1078 850">• Adv Battery Charge Cfg Wed WpHour <li data-bbox="628 856 1078 882">• Adv Battery Charge Cfg Wed WpMin
Adv Battery Charge Cfg Thu	<p data-bbox="628 926 1241 974">This attribute configures the Advanced Battery charging configuration for Thursday.</p> <p data-bbox="628 1005 839 1031">Possible values are:</p> <ul data-bbox="628 1056 1046 1184" style="list-style-type: none"> <li data-bbox="628 1056 1046 1081">• 0 – 23 – Beginning of day Hour <li data-bbox="628 1087 1046 1113">• 0 – 59 – Beginning of day Minute <li data-bbox="628 1119 1046 1144">• 0 – 23 – Work Period Hour <li data-bbox="628 1150 1046 1176">• 0 – 59 – Work Period Minute <p data-bbox="628 1209 991 1234">Attribute name for Set operation:</p> <ul data-bbox="628 1245 1078 1371" style="list-style-type: none"> <li data-bbox="628 1245 1078 1270">• Adv Battery Charge Cfg Thu BodHour <li data-bbox="628 1276 1078 1302">• Adv Battery Charge Cfg Thu BodMin <li data-bbox="628 1308 1078 1333">• Adv Battery Charge Cfg Thu WpHour <li data-bbox="628 1339 1078 1365">• Adv Battery Charge Cfg Thu WpMin
Adv Battery Charge Cfg Fri	<p data-bbox="628 1409 1241 1457">This attribute configures the Advanced Battery charging configuration for Friday.</p> <p data-bbox="628 1488 839 1514">Possible values are:</p> <ul data-bbox="628 1539 1046 1667" style="list-style-type: none"> <li data-bbox="628 1539 1046 1564">• 0 – 23 – Beginning of day Hour <li data-bbox="628 1570 1046 1596">• 0 – 59 – Beginning of day Minute <li data-bbox="628 1602 1046 1627">• 0 – 23 – Work Period Hour <li data-bbox="628 1633 1046 1659">• 0 – 59 – Work Period Minute <p data-bbox="628 1692 991 1717">Attribute name for Set operation:</p> <ul data-bbox="628 1728 1078 1785" style="list-style-type: none"> <li data-bbox="628 1728 1078 1753">• Adv Battery Charge Cfg Fri BodHour <li data-bbox="628 1759 1078 1785">• Adv Battery Charge Cfg Fri BodMin

Attribute Name	Description
Adv Battery Charge Cfg Sat	<ul style="list-style-type: none"> • Adv Battery Charge Cfg Fri WpHour • Adv Battery Charge Cfg Fri WpMin <p>This attribute configures the Advanced Battery charging configuration for Saturday.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 – 23 – Beginning of day Hour • 0 – 59 – Beginning of day Minute • 0 – 23 – Work Period Hour • 0 – 59 – Work Period Minute <p>Attribute name for Set operation:</p> <ul style="list-style-type: none"> • Adv Battery Charge Cfg Sat BodHour • Adv Battery Charge Cfg Sat BodMin • Adv Battery Charge Cfg Sat WpHour • Adv Battery Charge Cfg Sat WpMin
Ambient Light Sensor	<p>Enables or Disables the Ambient Light Sensor.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Adjacent Cache Line Prefetch	<p>If sets to Disable then the CPU will only fetch the cache line that contains the data currently required by the CPU.</p> <p>If sets to Enable then it enables the CPU to fetch the adjacent cache line in the other half of the sector.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
AudioMode	<p>Onboard audio mode. Disabled mode completely un-assigns the onboard hardware resources. Half duplex mode allows only record or playback. Full duplex mode can record and playback sounds simultaneously.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Half Duplex • Full Duplex
Auto On	<p>This property defines the auto-on configuration: disabled, everyday or weekdays (Monday – Friday).</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable

Attribute Name	Description
	<ul style="list-style-type: none"> • Everyday • Weekdays • Select days
Auto On Hour	This defines the hour when to turn on the system (0 – 23).
Auto On Minute	This defines the minutes when to turn on the system (0 – 59).
Auto-on Sunday	This defines that the system must be automatically turned on Sundays.
Auto-on Monday	This defines that the system must be automatically turned on Mondays.
Auto-on Tuesday	This defines that the system must be automatically turned on Tuesdays.
Auto-on Wednesday	This defines that the system must be automatically turned on Wednesdays.
Auto-on Thursday	This defines that the system must be automatically turned on Thursdays.
Auto-on Friday	This defines that the system must be automatically turned on Fridays.
Auto-on Saturday	This defines that the system must be automatically turned on Saturdays.
Back Camera	<p>Enables or disables the rearward facing camera.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable – Disables the rearward facing camera. • Enable – Enables the rearward facing camera.
Battery Slice Charge Configuration	<p>Configures the battery slice charging</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 1 - Standard Charge – Charges the battery over a long period of time • 2 - Express Charge – Switches the battery slice to Express Charge mode using the express charging algorithm
Bitsmart	<p>Enable/Disable the Bitsmart.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Bluetooth Devices	<p>Enable/Disable Bluetooth Devices</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable

Attribute Name	Description
Blink PSU LED 1	<p>Provides the alert for the PSU 1. The Power Supply Unit(PSU) 1 LED starts to blink when it is enabled.</p> <p>Possible value:</p> <ul style="list-style-type: none"> • Enable
Blink PSU LED 2	<p>Provides the alert for the PSU 2. The Power Supply Unit(PSU) 2 LED starts to blink when it is enabled.</p> <p>Possible value:</p> <ul style="list-style-type: none"> • Enable
BlockS3	<p>Enables or disables the Block S3 sleep state. If this option is Disabled, the system BIOS supports OSPM/ACPI S3 (suspend to RAM) operation. This moves the system authentication into the operating system and bypasses any Preboot Authentication on resume.</p> <p>If this option is Enabled, the system BIOS blocks all OSPM/ACPI S3 (suspend to RAM) requests and enforces Preboot Authentication on all non-S3 resumes.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Boot Mode	<p>Enables booting to Unified Extensible Firmware Interface (UEFI) capable operating systems. This ensures compatibility with operating systems that do not support UEFI.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Bios • UEFI
Boot-time Video	<p>Sets the Primary Video source.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • On board • Add-in
Boot Speed	<p>Sets CPU speed to default or compatible (low speed). This feature is implementation dependent. There is no set speed for Compatible, only that it is significantly slower than default. Some platforms implement this by turning off cache and others by STPCLK throttling.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Default • Compatible
Broadcom ASF	<p>Sets the ASF (Alert Standard Format) mode.</p>

Attribute Name	Description
	<p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable • Alert only • Dash and ASF
Bus Ratio	<p>Sets Bus Ratio.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Max • 6.0 • 7.0 • 7.5 • 8.0 • 8.5 • 9.0 • 9.5
Camera	<p>Enable/Disable Camera.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Cellular Radio	<p>Enables or Disables the cellular radio, that is, the WWAN module.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Charger	<p>This property define the charger details.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Chassis Intrusion	<p>Enables the system to detect and report Chassis Intrusion events to the system display on boot-up.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable • Silent
Chassis Intrusion Status	<p>This property shows the status of the system with regards to Chassis Intrusion (Detected or Not Detected). A value of Unknown indicates</p>

Attribute Name	Description
	<p>one of two things: either Chassis Intrusion is not supported by this system, or Chassis Intrusion event reporting has been disabled by the user. If the value is Detected, the user may set it to Not Detected to enable the system to receive the next event and to stop generating events for now.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Tripped • Door open • Door closed • Trip reset
Clear System Event Log	<p>Prevents or causes the system event log to be cleared in the next boot.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Cool and Quiet	<p>Enables or Disables AMD Cool and Quiet processor feature.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
CPU Virtualization Technology	<p>Enables or Disables CPU Virtualization.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Deep Sleep Control	<p>Configures the system power mode when the system is in S4 and S5 state. If set to S5only, the system moves to the lowest-Power Off mode only in S5 state. If set to S4 and S5 state, the system moves to the lowest-Power Off mode in both S4 and S5 states. When the system is in low-power mode, it turns off most of the power-consuming circuitry, to meet the 1 W power limit. It disables PME, USB power, etc.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • S5 only • S4 and S5 • Disable
Dell Reliable Memory Technology	<p>Configures the system to detect and correct the software errors in a block of RAM. When enabled, the system detects and corrects the software errors.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable

Attribute Name	Description
Dell Wyse P25 Bios Access	<ul style="list-style-type: none"> • Enable <p>Turns on or off the access to the BIOS setup through Dell Wyse P25 PCoIP client.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • On • Off
Diskette	<p>This property defines whether the built-in Floppy controller is enabled, auto or read-only.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Auto • Read Only • USB Internal
Dock Display Port 1 Video Source	<p>Configures the Dock Display Port 1 Video Source. This option enables or disables switchable graphics technologies.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Integrated • External
DRAM Prefetcher	<p>Prevents DRAM references from triggering DRAM prefetch requests./ Turns on the DRAM prefetch unit in the Northbridge.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Embedded SATA Controller	<p>Sets the Integrated SATA Controller.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Combined • ATA • AHCI • RAID • QDMA
Embedded Hypervisor	<p>Enables/disables the embedded SD Card port.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable


Attribute Name	Description
Enable Legacy Option ROMs	<p>Enables or disables detecting the BIOS and using the legacy expansion ROMs. This mode cannot be enabled with Secure Boot.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
e-SATA Ports	<p>Enable/disable e-SATA Ports</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Express Card	<p>This setting will enable the express card port, which allows the user to insert an express card into the slot and it will be configured.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Express Charge	<p>This property define the express charging.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable • Enable once
Extend Post Time	<p>Delays the time of action taken by the system after pressing function keys such as F2,F12, etc. during post time.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 – Does not delay the time of action. • 5 – Delays the time of action by five seconds. • 10 – Delays the time of action by ten seconds.
External Hotkey	<p>Sets the External Hotkey to Scroll Lock or Disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Scroll lock
External USB Ports	<p>Enable/disable external USB ports.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable

Attribute Name	Description
External WLAN Activity LED	<p>Enables or disables the external (lid-mounted) WLAN indicator LED.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable — LED does not displays the state of the WLAN source activity. • Enable — LED displays the state of the WLAN source activity.
F12 POST Display	<p>Enables or Disables the F12 key at POST.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
F2 POST Display	<p>Enables or Disables the F2 key at POST.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Fan Control Override	<p>Controls the speed of the fan. When enabled the fan runs at full speed. When disabled, the fan controller uses the system environmental data to set the fan at its optimal speed.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Fan Speed	<p>Sets the system fan speed.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Auto • High • Medium High • Medium Low • Low
Fault-Tolerant Memory	<p>Configures the system to detect and correct the software errors in a block of RAM. When enabled, the system detects and corrects the software errors.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Fn Lock	<p>Controls the behavior of the dual-function keys (<F1> — <F12>), when <Fn> key is pressed.</p>


Attribute Name	Description
Fn Lock Mode	<p>Possible values are:</p> <ul style="list-style-type: none"> • Disable — If disabled, holding the <Fn> key enables the secondary functions associated with the particular key. • Enable — If enabled, holding the <Fn> key enables the labeled functions of the keys (<F1> — <F12>). <p>Controls the behavior of the dual-function keys (<F1> — <F12>), when <Fn> key is pressed and when it is not.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable — Holding <Fn> key enables the secondary functions associated with the particular key • Enable — Without holding <Fn> key, the dual-function keys behave as labeled.
Force PXE on Next Boot	<p>Enables or disables the Force PXE on next boot in BIOS.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Front Panel USB Ports	<p>Enables or Disables the USB ports on the front of the chassis.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
FX100 BIOS Access	<p>Allows or blocks the remote user to access BIOS Setup via FX100 Portal.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • On • Off
General Purpose Encryption	<p>Enables or disables the general purpose encryption (GPE) on the system.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable
GPS Radio	<p>Enables or disables the internal GPS radio.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable
Hard Disk Acoustic Mode	<p>Sets the Hard Disk Acoustic Mode.</p>

Attribute Name	Description
	<p>Possible values are:</p> <ul style="list-style-type: none"> • Bypass • Quiet • Suggested • Performance
Hard-Disk Failover	<p>Specifies which devices in the Hard-Disk Drive Sequence menu are attempted in the boot sequence. When set to OFF, only the first device in the list is attempted. When set to ON, all devices are attempted in order, as listed in the Hard-Disk Drive Sequence.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Hardware Prefetcher	<p>Enable/Disable the CPU's HW prefetcher.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Hard Drive Free Fall Protection	<p>Enable/Disable hard drive free fall protection.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Hardware Prefetch Training on Software Prefetch	<p>Prevents hardware prefetcher from considering software prefetches when detecting strides for prefetch requests./Hardware prefetcher considers software prefetches when detecting strides for prefetch requests.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
HDD Protection	<p>If setting On, the HDD Protection OPROM will be loaded. If setting Off, the HDD Protection OPROM will be not loaded.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • On
HDD1 Fan Enable	<p>Enables or disables checking errors on the fan controller FAN_HDD1. If the fan controller detects a valid fan, it enables it automatically.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable

Attribute Name	Description
HDD2 Fan Enable	<ul style="list-style-type: none"> • Enable <p>Enables or disables checking errors on the fan controller FAN_HDD2. If the fan controller detects a valid fan, it enables it automatically.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
HDD3 Fan Enable	<p>Enables or disables checking errors on the fan controller FAN_HDD3. If the fan controller detects a valid fan, it enables it automatically.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Hot Undocking	<p>Enables or Disables warm and hot docking/undocking.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Hotkey to toggle WxAN Radio	<p>Enable/Disable hotkey to toggle WxAN radio.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Intel Smart Connect Technology	<p>Disables or enables the Intel Smart Connect technology.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Intel Platform Trust Technology	<p>Displays or hides the Intel Platform Trust Technology (PTT) device from the operating system on the next reboot. When disabled, the PTT device is not displayed to the operating system and no changes can be made to the PTT device or its content.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Intel Ready Mode Technology	<p>Enables or disables Intel Ready Mode Technology (iRMT).</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable

Attribute Name	Description
Intel Rapid Start Technology	<p>Disables or enables the Intel Rapid Start Technology (iFFS) feature within the BIOS.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Intel Rapid Start Technology Timer	<p>Allows configuring the time-out value for Intel Rapid Start Technology (IRST) mode.</p> <p>Possible value is:</p> <ul style="list-style-type: none"> • 0 – 999 <p> NOTE: The value for IRST is a nonfixed value, which may change depending on the configuration.</p>
Integrated RAID	<p>Enables or Disables the Integrated RAID Controller.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Integrated SAS	<p>Enables or Disables the Integrated SAS Controller.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Integrated USB Hub	<p>Sets the Integrated USB Hub to Compatible or High Speed.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Internal USB Port	<p>Enable/Disable the Internal USB.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
IDE	<p>This property defines whether the IDE controller is enabled or disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Auto
Instant ON	<p>Enable/Disable the Latitude on Instant ON feature.</p>

Attribute Name	Description
Keyboard Backlight Active Color	<p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable <p>Displays or sets an active color for the keyboard backlight for the rugged systems.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0— White • 1— Red • 2— Green • 3— Blue • 4 — Customcolor1 • 5— Customcolor2
Keyboard Backlight Custom Color 1	<p>Displays and configures the custom color 1 by specifying the Red, Green and Blue (RGB) values. The color can be selected using RGB components by mentioning it in 'R,G,B' format. Each color component value ranges from 0 to 255.</p> <p>Possible value is:</p> <ul style="list-style-type: none"> • 0–255, 0–255, 0–255 — Red, Green, Blue
Keyboard Backlight Custom Color 2	<p>Displays and configures the custom color 2 by specifying the Red, Green and Blue (RGB) values. The color can be selected using RGB components by mentioning it in 'R,G,B' format. Each color component value ranges from 0 to 255.</p> <p>Possible value is:</p> <ul style="list-style-type: none"> • 0–255, 0–255, 0–255 — Red, Green, Blue
Keyboard Backlight Enable Color	<p>Displays or enables the supported colors on the keyboard backlight for the rugged systems. Press Fn+C to switch among the enabled colors.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 — None • 1 — White • 2 — Red • 3 — Green • 4 — Blue • 5 — Customcolor1 • 6 — Customcolor2

Attribute Name	Description
	 NOTE: <ul style="list-style-type: none"> • You can enable multiple colors at a time. • If '0 – None' is selected, keyboard backlight color switching by pressing Fn+C will not be possible. The value '0 – None' cannot be combined with any other color.
Keyboard Backlight with AC	<p>Enables/Disables the keyboard backlight when the system is running on AC power / if an AC power adapter is plugged in. Note: If the keyboard backlight is disabled by pressing <Fn ><F10>, then the keyboard backlight stays off even if the AC power adapter is plugged in.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Keyboard Error Reporting	<p>Enable/Disable reporting of Keyboard errors by POST.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Keyboard Click	<p>Enable/Disable the keyboard to 'click' each time a key is pressed.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Keyboard Illumination	<p>Sets the Keyboard Illumination to Enable, Disable, or Auto.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable • Auto • 25 • 50 • 75 • 100
Keypad	<p>Changes the means of enabling the keypad.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • By numlock • BY FN key
Latitude ON	<p>Enable/Disable Latitude On.</p>

Attribute Name	Description
Latitude ON Flash	<p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable <p>Enable/Disable Latitude On Flash.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Limit CPUID Value	<p>Enables or Disables the Limit CPUID Value feature.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Management Driver	<p>Sets to Present: the system-management instrumentation sets this attribute when it loads to instruct that BIOS that operating system level software is handling any out-of-range management condition – if a critical threshold is passed, the driver takes responsibility for shutting down the operating system and powering off the system. The instrumentation is responsible for de-registering itself via the Absent attribute when it unloads. Implementation Note: To maintain compatibility with Dell Command Monitor, a BIOS that implements of this token via an Indexed I/O access method must ensure that an AND-mask of 0xFB and an OR-value of 0x04 maintains the present status— i.e. the status is in bit 2 of the indexed I/O location.</p> <p>Sets to Absent: this attribute indicates to the system BIOS that any system-management monitoring is its responsibility. If an out-of-range management condition occurs in the system, the BIOS powers off the system to prevent hardware damage. Implementation Note: To maintain compatibility with Dell Command Monitor, a BIOS that implements of this token via an Indexed I/O access method must ensure that an AND-mask of 0xFB and an OR-value of 0x00 maintains the absent status — i.e. the status is in bit 2 of the indexed I/O location.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Present • Absent
Media Card and 1394	<p>Enables or Disables the Media Card and 1394 devices.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Microphone	<p>Enable or disable notebook internal or external microphone.</p>

Attribute Name	Description
MiniPCI Device	<p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable <p>Enables or Disables the internal PCI device.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Multiple CPU Cores	<p>Enables or Disables Multiple CPU Core support on next boot. The Disabled state prevents the OS from seeing additional cores present on a single CPU package.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
MmioAbove4Gb	<p>Enables or disables the Memory mapped I/O above 4GB option.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Module Bay Device	<p>Enables or Disables the Module Bay Device.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Module Bay Battery Charge Configuration	<p>Configures the module bay battery charging.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 1 - Standard Charge — Charges the battery over a long period of time • 2 - Express Charge — Switches the module bay battery to Express Charge mode using the express charging algorithm
Mouse	<p>Sets the Pointing Device.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Monitor Toggling	<p>Enables or Disables Monitor Toggling.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable




Attribute Name	Description
Multi-Display	<ul style="list-style-type: none"> • Enable <p>Enables or disables the multi-display feature, that is integrated and add-in Gfx.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
NIC	<p>This property defines whether the built-in NIC is enabled or disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable • Enable non PXE • Enable iSCSI • Enable RPL • Enable image server
NIC 2	<p>This property defines whether the built-in NIC2 is enabled or disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable • Enable non PXE • Enable iSCSI • Enable RPL • Enable image server
Network Activity LED	<p>This selection will allow the Activity LED to be controlled by an ACPI OS and driver/ set Activity LED as a wireless LAN radio on/off indicator/ force the Activity LED to be always OFF.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable ACPI OS control • Wireless LAN Indicator
Node Interleaving	<p>Enables or Disables Node Interleave.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
NMI Button	<p>Enables or Disables the NMI Button.</p>

Attribute Name	Description
Num Lock	<p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable <p>Enables or Disables Num Lock.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
On Reader	<p>Enables or Disables the Reader feature.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Onboard 1394	<p>Enables or Disables on-board 1394 controller on next boot.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Onboard Modem	<p>Enables or Disables the Onboard Modem.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Onboard Unmanaged NIC	<p>Configures the state of the Onboard Unmanaged Network Interface Card (NIC).</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable — Disables the secondary, unmanaged network interface card. • Enable — Enables the secondary, unmanaged network interface card. • Enabled with PXE — Enables the secondary, unmanaged network interface card and supports the preboot execution environment for network boot.
On-board Serial ATA 2 Controller	<p>Enable or disables on-board Serial ATA 2 controller.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable
On-Screen Buttons	<p>Configures the onscreen display (OSD) of All-In-One systems.</p>

Attribute Name	Description
Optical Drive Controller	<p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable <p>Enable/Disable the Optical Drive Controller.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable
Optimus	<p>Enables or disables the Optimus.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enabled • Disabled
Optional Boot Sequence	<p>Allows or prevents the installation of Windows operating system on client systems with more than one operating system volume.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enabled • Disabled
OpRomUIProtection	<p>Prompts you to enter the administrator password to enter the OptionROM user interface if the password has been set.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable
OROM Keyboard Access	<p>Sets an option to enter the Option ROM Configuration screens using hotkeys during boot.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable • Onetime Enable — Allows configuring the access to Option ROM using hotkeys during system startup.
OS Install Mode	<p>Enables or Disables OS Install Mode (Limit System Memory feature).</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable
Parallel Mode	<p>This property defines the parallel port mode.</p>

Attribute Name	Description
	<p>Possible values are:</p> <ul style="list-style-type: none"> • AT • PS2 • ECP • EPP • ECP DMA1 • ECP DMA3
Parallel Port	<p>This property defines the parallel port configuration.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • LPT1 • LPT2 • LPT3
PartComponent	<p>This defines the boot sequence for the next system boot. Boot Sequence information can be found under the class DCM_OrderedComponent.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Diskette first • HD only • Device list • CDROM first
Password Bypass	<p>Sets the Password Bypass feature to one of the supported settings.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Reboot • Resume • Reboot and resume
Password Status Lock	<p>Password Status lock/unlock.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Locked • Unlocked
PC Card	<p>Enables or Disables the PC Card.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
PC Card and 1394	<p>Enables or Disables the PC Card and 1394 devices.</p>

Attribute Name	Description
Pci Resource Allocation Ratio	<p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable <p>Allocates PCI resources, buses, memory-mapped I/O (MMIO) space, and I/O space. If set to Allocate Evenly, equal amount of memory is allocated to all the resources when two CPUs are installed. When set to Allocate More to CPU1, larger amount of device-specific memory is allocated, which in turn reduces the usable memory on a system with a 32-bit operating system.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Allocate Evenly • Allocate More to CPU1
Pci Mmio Space Size	<p>It allows you to reserve large or small device-specific memory regions to decrease or increase the usable memory on systems with a 32-bit operating system.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Small — Allocates a small region of memory to PCI memory mapped I/O. • Large — Allocates a large region of memory to PCI memory mapped I/O. This reserves the large device specific memory regions, but reduces the amount of usable memory in 32-bit operating system.
PCI Slots	<p>Enables or Disables the PC Card.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Pen Missing Indication	<p>Enables or Disables the Missing Pen Indication.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Pen Resume On	<p>Enables or Disables the Resume On Pen setting.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Peak Shift	<p>Peak Shift can be used to minimize AC consumption during peak power times of day. For each weekday listed, set a start and end time to run in Peak Shift mode. During these times the system will run from the battery even if the AC is attached as long as the battery stays above the threshold specified in the Battery threshold field.</p>

Attribute Name	Description
Peak Shift Sun	<p data-bbox="628 243 1374 348">After the end time specified the system will run from AC if attached but will not charge the battery. The system will again function normally using AC and recharging the battery after the Charge Start time is specified.</p> <p data-bbox="628 373 839 399">Possible values are:</p> <ul data-bbox="628 424 791 487" style="list-style-type: none"> • 1 – Disable • 2 – Enable <p data-bbox="628 516 1374 541">This attribute configures the power usage configuration for Sunday.</p> <p data-bbox="628 567 839 592">Possible values are:</p> <ul data-bbox="628 617 976 823" style="list-style-type: none"> • 0 – 23 – Start Hour • 0 – 59 – Start Minute • 0 – 23 – End Hour • 0 – 59 – End Minute • 0 – 23 – Charge Start Hour • 0 – 59 – Charge Start Min <p data-bbox="628 848 999 873">Attribute names for Set operation:</p> <ul data-bbox="628 886 1015 1079" style="list-style-type: none"> • Peak Shift Sun StartHour • Peak Shift Sun StartMin • Peak Shift Sun EndHour • Peak Shift Sun EndMin • Peak Shift Sun ChargeStartHour • Peak Shift Sun ChargeStartMin <p data-bbox="628 1104 1374 1180"> NOTE: To use Peak Shift mode, the values of Peak Shift Start Time, Peak Shift End Time, Peak Shift Charge Start Time, and Peak Shift battery threshold are necessary.</p> <p data-bbox="628 1205 1374 1306"> NOTE: It is recommended to input values as per the following: Start Time <= End Time <= Charge Start Time. Dell Command Monitor can set the out-of-range values. BIOS behavior is unknown at this point of time for such values.</p> <p data-bbox="628 1331 1374 1398"> NOTE: The values defined for Minute field are 0,15,30 and 45. In case you set any other value, the value is round to the lower defined value.</p>
Peak Shift Mon	<p data-bbox="628 1436 1374 1461">This attribute configures the power usage configuration for Monday.</p> <p data-bbox="628 1486 839 1512">Possible values are:</p> <ul data-bbox="628 1537 976 1743" style="list-style-type: none"> • 0 – 23 – Start Hour • 0 – 59 – Start Minute • 0 – 23 – End Hour • 0 – 59 – End Minute • 0 – 23 – Charge Start Hour • 0 – 59 – Charge Start Min


Attribute Name	Description
	Attribute names for Set operation: <ul style="list-style-type: none"> • Peak Shift Mon StartHour • Peak Shift Mon StartMin • Peak Shift Mon EndHour • Peak Shift Mon EndMin • Peak Shift Mon ChargeStartHour • Peak Shift Mon ChargeStartMin
Peak Shift Tue	This attribute configures the power usage configuration for Tuesday. <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 – 23 – Start Hour • 0 – 59 – Start Minute • 0 – 23 – End Hour • 0 – 59 – End Minute • 0 – 23 – Charge Start Hour • 0 – 59 – Charge Start Min Attribute names for Set operation: <ul style="list-style-type: none"> • Peak Shift Tue StartHour • Peak Shift Tue StartMin • Peak Shift Tue EndHour • Peak Shift Tue EndMin • Peak Shift Tue ChargeStartHour • Peak Shift Tue ChargeStartMin
Peak Shift Wed	This attribute configures the power usage configuration for Wednesday. <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 – 23 – Start Hour • 0 – 59 – Start Minute • 0 – 23 – End Hour • 0 – 59 – End Minute • 0 – 23 – Charge Start Hour • 0 – 59 – Charge Start Min Attribute names for Set operation: <ul style="list-style-type: none"> • Peak Shift Wed StartHour • Peak Shift Wed StartMin • Peak Shift Wed EndHour • Peak Shift Wed EndMin • Peak Shift Wed ChargeStartHour • Peak Shift Wed ChargeStartMin
Peak Shift Thu	This attribute configures the power usage configuration for Thursday.

Attribute Name	Description
	<p>Possible values are:</p> <ul style="list-style-type: none"> • 0 – 23 – Start Hour • 0 – 59 – Start Minute • 0 – 23 – End Hour • 0 – 59 – End Minute • 0 – 23 – Charge Start Hour • 0 – 59 – Charge Start Min <p>Attribute names for Set operation:</p> <ul style="list-style-type: none"> • Peak Shift Thu StartHour • Peak Shift Thu StartMin • Peak Shift Thu EndHour • Peak Shift Thu EndMin • Peak Shift Thu ChargeStartHour • Peak Shift Thu ChargeStartMin
Peak Shift Fri	<p>This attribute configures the power usage configuration for Friday.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 – 23 – Start Hour • 0 – 59 – Start Minute • 0 – 23 – End Hour • 0 – 59 – End Minute • 0 – 23 – Charge Start Hour • 0 – 59 – Charge Start Min <p>Attribute names for Set operation:</p> <ul style="list-style-type: none"> • Peak Shift Fri StartHour • Peak Shift Fri StartMin • Peak Shift Fri EndHour • Peak Shift Fri EndMin • Peak Shift Fri ChargeStartHour • Peak Shift Fri ChargeStartMin
Peak Shift Sat	<p>This attribute configures the power usage configuration for Saturday.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 – 23 – Start Hour • 0 – 59 – Start Minute • 0 – 23 – End Hour • 0 – 59 – End Minute • 0 – 23 – Charge Start Hour • 0 – 59 – Charge Start Min <p>Attribute names for Set operation:</p> <ul style="list-style-type: none"> • Peak Shift Sat StartHour

Attribute Name	Description
	<ul style="list-style-type: none"> • Peak Shift Sat StartMin • Peak Shift Sat EndHour • Peak Shift Sat EndMin • Peak Shift Sat ChargeStartHour • Peak Shift Sat ChargeStartMin
Peak Shift Battery Threshold	<p>If Battery stays above the threshold system will run from battery even if AC is attached during the times as configured in Start/End/Charge Start time.</p> <p>Possible value is based on user input.</p> <ul style="list-style-type: none"> • >= 15% Possible Value <= 100%. <p>Attribute name for Set operation:</p> <ul style="list-style-type: none"> • Peak Shift Battery Threshold
Pointing Device	<p>This property defines whether the built-in pointing device port is enabled or disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • External serial • External PS2 • SW TPAD
POST Help Desk Key	<p>Enables or Disables POST MEBx Key.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • On • Off
POST MEBx Key Setting	<p>Enables or Disables POST MEBx Key.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • On • Off
POST Testing	<p>Enables or Disables fast booting.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Min • Max • Auto
Power Management	<p>This property defines the power management settings.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Min • Regular


Attribute Name	Description
Processor CMP	<ul style="list-style-type: none"> • Max <p>Rolls the number of enabled cores in each processor. By default, the maximum number of cores per processor will be enabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • All • 1 • 2 • 4 • 6 • 8 • 10 • 12 • 14 • 16
Processor Execute Disable	<p>Enables or Disables the No Execute (NX) flag.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Processor HT Assist	<p>Allow user the ability to disable the Probe Filter chipset option from BIOS setup. There are some applications that may have lower performance with the chipset feature enabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Processor Virtualization Technology	<p>Enables or Disables CPU Virtualization.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Processor C State Control	<p>Enable/Disable the C States Control.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable
Processor Core Based Turbo Mode	<p>Enables or Disables Single Core Turbo Mode.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable

Attribute Name	Description
Processor Logical Processor (HyperThreading)	<ul style="list-style-type: none"> • Enable <p>Enables or Disables hyperthreading on next boot. On some Dell platforms, this property will show Enabled or Disabled despite the platform not supporting hyperthreading. The platforms in question are those that support Multi-Core processor technology, but do not support hyperthreading. In this case, the property actually toggles the multi-core capability on and off, rather than hyperthreading.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable
Primary Battery Charge Configuration	<p>Configures the primary battery charging.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 1 = Standard Charge – Charges the battery over a long period of time • 2 = Express Charge – Switches the primary battery to Express Charge mode using the express charging algorithm • 3 = AC Use – Recommended setting for users who primarily operate the battery when it is plugged in • 4 = Auto Charge – The battery places itself in a mode based on periodic evaluation of customer usage to deliver the best balance of capacity • 5 = Custom Charge – The battery starts and stops charging based on the user input
Primary Battery Custom Charge Limit	<p>Charges the battery based on the user input.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 1 = Primary Battery Custom Charge Start Limit – Is applicable to the DCIM_BIOSService for setting the start limit for charging the battery. • 2 = Primary Battery Custom Charge Stop Limit – Is applicable to the DCIM_BIOSService for setting the stop limit for charging the battery. <p>Possible values for the Start and Stop limit are:</p> <ul style="list-style-type: none"> • Start limit = 50 – 95 • Stop limit = 55 – 100 • Granularity – Dead band in binary format. For example, if the dead band is 5%, the stop charging value is 5% greater than the start charging value, but is not allowed exceed 100.
Primary IDE Channel, Master Device	<p>Enables or Disables primary Parallel ATA master channel.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Auto

Attribute Name	Description
Primary IDE Channel, Slave Device	<p>Enables or Disables primary Parallel ATA slave channel.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Primary Video Device Slot	<p>Configures the slot for primary video display.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • 0 – Sets the onboard video device slot as primary video device slot. • 1-15 – Sets the specified slot number as a primary video device slot. • 255 – Scans PCI buses and uses the first video device slot, found with video card as a primary video device slot. <p> NOTE: If a video card is not available in the specified slot number, the system will scan the PCI buses and uses the first video device slot, found with video card as a primary video device.</p>
Prompt On Error	<p>Enable/Disable the Prompt on Error.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Rear Single USB	<p>This feature will allow the users to electrically enable or disable the Rear Single USB ports. If disabled, they are unusable in any OS.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • On
Rear Dual USB 2nd stack	<p>Enable/Disable the Rear Dual USB 2nd stack.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Rear Quad USB	<p>This feature will allow the users to electrically enable or disable the Rear Quad USB ports. If disabled, they are unusable in any OS.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Rear USB Ports	<p>Enables or disables all the rear ports.</p>

Attribute Name	Description
	<p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Radio Transmission	<p>Enables or Disables the radio transmission (MiniPCI Wireless or Bluetooth module).</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Rugged Dock Non-Video Devices	<p>Enables or disables all the non-video devices (serial, audio, LAN, and USB ports) on a rugged dock.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Sata Controllers	<p>Enable/Disable all SATA Controllers.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
SATA DIPM	<p>This property will allow users to disable or enable the feature that allows SATA HDDs to initiate link power management transitions.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Secondary IDE Channel, Master Device	<p>Enables or Disables secondary Parallel ATA master channel.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Auto
Secondary IDE Channel, Slave Device	<p>Enables or Disables secondary Parallel ATA slave channel.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Auto
Selective USB	<p>Enable Selective USB feature to disable all USB ports, except for the 2 Selective USB ports. This option will allow only keyboard/mouse connected to the Selective USB ports for the boot process to continue.</p>

Attribute Name	Description
	<p>Disable Selective USB feature to resume normal USB status and normal boot procedure.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
SATA Port 0	<p>Enables or Disables Serial ATA channel 1.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Auto
SATA Port 1	<p>Enables or Disables Serial ATA channel 2.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Auto
SATA Port 2	<p>Enables or Disables Serial ATA channel 3.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Auto
SATA Port 3	<p>Enables or Disables Serial ATA channel 4.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Auto
SATA Port 4	<p>Enables or Disables Serial ATA channel 5.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Auto
SATA Port 5	<p>Enables or Disables Serial ATA channel 6.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Auto
SATA Port 6	<p>Enables or Disables Serial ATA channel 7.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off

Attribute Name	Description
SATA Port 7	<ul style="list-style-type: none"> • Auto <p>Enables or Disables Serial ATA channel 8.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Auto
Secure Boot	<p>The BIOS performs a Secure Boot authentication while attempting to boot from a UEFI partition. It refers to this setting to decide on the POST behavior.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enable — When enabled, BIOS only performs Secure Boot and boot in UEFI mode without loading the Compatibility Support Model (CSM). <p> NOTE: You can disable secure boot only from the BIOS setup screen.</p>
Serial Communications	<p>Sets the Serial Communication.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • On without console redirection • On with console redirection (COM1) • On with console redirection (COM2) • On with console redirection
Serial Port 1	<p>This property defines the serial port 1 configuration.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Auto • COM2 • COM3 • COM4
Serial Port 2	<p>This property defines the serial port 2 configuration.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Auto • COM2 • COM4
SERR DMI Message	<p>Enables or Disables SERR DMI Messages.</p>

Attribute Name	Description
Set CMOS To Default	<p>Possible values are:</p> <ul style="list-style-type: none"> • Off • On <p>Request or don't request a default of CMOS values on the next boot.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Side USB Ports	<p>Enables or disables all the side ports.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Signed Firmware Update	<p>Enforces the verification of digital signatures in the BIOS update payload before updating the BIOS. Once enabled, the system BIOS cannot be updated to any revision that does not contain a valid digital signature.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
SmartCard Reader	<p>Enables or Disables the Smart Card Reader.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Enable
SMART Errors	<p>Enables or Disables SMART Errors.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Sound Device	<p>Status of the system's built-in sound device.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Speaker	<p>The volume of the speaker.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable

Attribute Name	Description
SpeedStep	<ul style="list-style-type: none"> • Low • Medium • High <p>Sets SpeedStep to Automatic, Disabled, Max Performance, or Max Battery.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Maximum performance • Maximum battery life • Auto
Splash Screen	<p>Enable/Disable the Splash Screen.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Spread Spectrum	<p>Tokens Used in Dell Command Monitor.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable
SR-IOV Global	<p>Enable/Disable BIOS support for SRIOV devices.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Standby State	<p>Selects the power management suspend mode.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Standby S1 • Standby S3
Stealth Mode	<p>Enables or disables the pre-programmed stealth mode of operation of the system.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable — The system elements operate in the normal mode. • Enable — The system elements operate in the pre-programmed stealth mode. <p>For example,</p> <ul style="list-style-type: none"> • If stealth mode is enabled and the device stealth mode is set to Turn off, it turns the device off while pressing Fn+F7 keys.

Attribute Name	Description
	<ul style="list-style-type: none"> • If the stealth mode is enabled and the device stealth mode is set to Unchanged, then the device retains its status and remains unchanged while pressing Fn+F7 keys. • If the stealth mode is disabled, then the state of the device cannot be changed by the individual device stealth modes. <p>Following are the system elements that have effect of stealth mode on them:</p> <ul style="list-style-type: none"> • Stealth Mode Quiet Bluetooth • Stealth Mode Quiet Fans • Stealth Mode Quiet GPS • Stealth Mode Quiet LCD • Stealth Mode Quiet LEDs • Stealth Mode Quiet Speakers • Stealth Mode Quiet WLAN • Stealth Mode Quiet WWAN • Stealth Mode WiGig Radio
Stealth Mode Quiet Bluetooth	<p>Configures the state of the bluetooth radio depending on the Stealth mode is enabled or disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Turn off - Turns off the bluetooth radio if the stealth mode is enabled. • Unchanged - Retains the current state of the bluetooth.
Stealth Mode Quiet Fans	<p>Configures the state of the fans depending on the Stealth mode is enabled or disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Turn off - Turns off the fan if the stealth mode is enabled. • Unchanged - Retains the current state of the fan.
Stealth Mode Quiet GPS	<p>Configures the state of the GPS radio depending on the Stealth mode is enabled or disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Turn off - Turns off the GPS radio if the stealth mode is enabled. • Unchanged - Retains the current state of the GPS radio.
Stealth Mode Quiet LCD	<p>Configures the state of the LCD screen backlight depending on the Stealth mode is enabled or disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Turn off - Turns off the LCD screen backlight if the stealth mode is enabled.. • Unchanged - Retains the current state of the LCD screen backlight.

Attribute Name	Description
Stealth Mode Quiet LEDs	<p>Configures the state of the LEDs depending on the Stealth mode is enabled or disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Turn off - Turns off the system LEDs if the stealth mode is enabled. • Unchanged - Retains the current state of the system LEDs.
Stealth Mode Quiet Speakers	<p>Configures the state of the onboard speakers depending on the Stealth mode is enabled or disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Turn off - Turns off the onboard speakers if the stealth mode is enabled. • Unchanged - Retains the current state of the onboard speakers.
Stealth Mode Quiet WLAN	<p>Configures the state of the WLAN (and WiGig) radio depending on the Stealth mode is enabled or disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Turn off - Turns off the WLAN if the stealth mode is enabled. • Unchanged - Retains the current state of the WLAN.
Stealth Mode Quiet WWAN	<p>Configures the state of the WWAN (and WiGig) radio depending on the Stealth mode is enabled or disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Turn off - Turns off the WWAN (and WiGig) radio if the stealth mode is enabled. • Unchanged - Retains the current state of the WWAN (and WiGig) radio.
Stealth Mode WiGig Radio	<p>Configures or displays the state of Wireless Gigabit Alliance (WiGig) radio depending on the Unobtrusive mode or stealth mode is enabled or disabled.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Turn off - Turns off the WiGig radio if the Unobtrusive mode or stealth mode is enabled. • Unchanged - Retains the current state of the Wigig radio.
Strong Password	<p>Enable/Disable Strong Password.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Surround View	<p>This feature will allow user to enable SurroundView that allow user to use an additional AMD PCIE video card in conjunction with the</p>

Attribute Name	Description
	<p>onboard graphics card which would give you ability to use multiple monitors at once. Notes: it's only for AMD platform/ disable SurroundView thatdisable multiple monitor support with additional AMD PCIE video card. Notes: it's only for AMD platform.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Switchable Graphics	<p>Configures the Switchable Graphics technology.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Tablet Buttons	<p>Enables or Disables Tablet Buttons.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
TCM Visibility	<p>Hides or unhides the TCM from the operating system on the next boot.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Hidden • Visible
Tertiary IDE Channel, Master Device	<p>Enables or Disables tertiary Parallel ATA master channel.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Auto
Tertiary IDE Channel, Slave Device	<p>Enables or Disables tertiary Parallel ATA master channel.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Auto
Trusted Execution	<p>New processor execution mode and BIOS hooks to enable a protected execution environment and main memory protection.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • On • Off
Trusted Platform Module	<p>Enables or Disables the Trusted Platform Module (TPM).</p>

Attribute Name	Description
Trusted Platform Module Activation	<p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable <p>This property is used to activate the TPM if it is deactivated, unowned and a BIOS Admin password is set and has been verified; otherwise this property reports the status of the TPM Activation BIOS option.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Deactivate • Activate
TPM PPI ACPI Support	<p>Enables or disables the TPM ACPI physical presence commands.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable
TPM PPI Provision Override	<p>Enables or disables the physical presence for the ACPI TPM PPI provision operations.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable
TPM PPI Deprovision Override	<p>Enables or disables the physical presence for the ACPI TPM PPI deprovision operations.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable
UART Power Down	<p>Allow the operating system to power down or Prohibit OS from powering down UART.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
UEFI Network Stack	<p>Possible values are:</p> <ul style="list-style-type: none"> • Enable — UEFI networking protocols are available permitting preOS image of the network, including PXE. • Disable — UEFI networking protocols are not available in the preOS environment and network boot by PXE is disabled. This setting will improve boot times.
Unobtrusive Mode	<p>Enables or disables the <Fn> key combination, which controls the light emissions from the system.</p>

Attribute Name	Description
USB	<p>Possible values are:</p> <ul style="list-style-type: none"> • Disable — Disables the <fn> key combination • Enable — Enables the <fn> key combination <p>Enables, Disables, or sets the system's USB port to No Boot (if supported).</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable • No boot
USB Emulation	<p>Enables or Disables USB keyboard and mouse support for Operating systems that do not natively support USB keyboards and mice.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Enable • Disable
USB Flash Drive Emulation	<p>Possible values are:</p> <ul style="list-style-type: none"> • Auto • Floppy • HD only
USB Port 0	<p>Enables or Disables USB Port 00.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB Port 1	<p>Enables or Disables USB Port 01.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB Port 2	<p>Enables or Disables USB Port 02.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB Port 3	<p>Enables or Disables USB Port 03.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable

Attribute Name	Description
USB Port 4	<ul style="list-style-type: none"> • Enable <p>Enables or Disables USB Port 04.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB Port 5	<p>Enables or Disables USB Port 05.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB Port 6	<p>Enables or Disables USB Port 06.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB Port 7	<p>Enables or Disables USB Port 07.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB Port 8	<p>Enables or Disables USB Port 08.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB Port 9	<p>Enables or Disables USB Port 09.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB Port 10	<p>Enables or Disables USB Port 10.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB Port 11	<p>Enables or Disables USB Port 11.</p>

Attribute Name	Description
USB Port 12	<p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable <p>Enables or Disables USB Port 12.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB Port 13	<p>Enables or Disables USB Port 13.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB Port 14	<p>Enables or Disables USB Port 14.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB Port 15	<p>Enables or Disables USB Port 15.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB Port 20	<p>Enables or Disables USB Port 20.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB Port 21	<p>Enables or Disables USB Port 21.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB Port 22	<p>Enables or Disables USB Port 22.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable

Attribute Name	Description
USB Port 23	<p>Enables or Disables USB Port 23.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB 3.0	<p>Enable or Disable USB 3.0</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
USB PowerShare	<p>Enable/Disable the USB PowerShare feature.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
User Accessible USB Ports	<p>Enables or Disables user accessible USB ports.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • All off • Back only • All on
USB Wake Support	<p>Enables or Disables USB Wake setting.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Video Expansion	<p>Enables or Disables Video Expansion.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Video Memory Size	<p>Enables or Disables Video Expansion.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Off • Auto • 1MB • 8MB • 16MB • 32MB • 64MB

Attribute Name	Description
VT for Direct IO	<ul style="list-style-type: none"> • 128MB • 256MB • 512MB • 1GB <p>Intel Virtualization Technology for Direct I/O (VT-d) – new chipset feature that enhances I/O support (DMA) when running a Virtual Machine Monitor.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Wake On LAN	<p>Defines the wake-on-LAN feature. This property defines whether Wakeup On LAN is disabled, enabled for on-board NIC only or enabled for add-in NIC only. If Enabled with boot to NIC option is selected, the system boots from the NIC boot-ROM upon a remote wakeup.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable_AIC • Enable_OnBoard • Enable All • LAN or WLAN • WLAN only • LAN with PXE boot
Wake-On-LAN Boot Override	<p>If enabled then when the system powers on due to a Wake-on-LAN event, the NIC boot-ROM is automatically given the highest boot priority, pre-pending the PXE boot-ROM to the system's current boot sequence. If the system powers on due to some other event, this selection does not influence the boot sequence. If disabled then the boot override feature is disabled and the system boot sequence is in effect for all types of system power on.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Watchdog Timer	<p>The system will/will not reboot/reset if the watchdog timer expires</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Wake-On-LAN Boot Override	<p>If enabled then when the system powers on due to a Wake-on-LAN event, the NIC boot-ROM is automatically given the highest boot priority, pre-pending the PXE boot-ROM to the system's current boot</p>

Attribute Name	Description
	<p>sequence. If the system powers on due to some other event, this selection does not influence the boot sequence. If disabled then the boot override feature is disabled and the system boot sequence is in effect for all types of system power on.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Watchdog Timer	<p>The system will/will not reboot/reset if the watchdog timer expires</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Wireless Adapter	<p>Enable/Disable Wireless Adapter.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Wireless Device	<p>If disabled then wireless devices are always disabled.</p> <p>If set to APP then wireless devices can be controlled by an application such as QuickSet</p> <p>If set to Hotkey then wireless devices can be controlled by an application such as QuickSet</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • APP • Hotkey
WiFi Catcher Changes	<p>Permits or Denies WiFi Catcher changes. If the administrator password is not set, this setting will have no effect.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Deny • Permit
WiFi Locator	<p>Enables or Disables the WiFi Locator.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Wireless LAN	<p>Enables or Disables the wireless LAN module.</p>

Attribute Name	Description
	<p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Wireless Radio Control Switch	<p>Enables or disables the Wireless Gigabit (WiGig) radio control switch on the dock.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Wireless Switch Bluetooth Control	<p>Enables or Disables wireless switch Bluetooth control.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Wireless Switch Cellular Control	<p>Enables or Disables wireless switch cellular control. This switch has no effect on the state of the cellular radio for systems with a physical wireless on/off switch.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Wireless Switch Change	<p>Permits or Denies Wireless Switch changes. If the administrator password is not set, this setting will have no effect.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Deny • Permit
Wireless Switch Wireless LAN Control	<p>Enables or Disables wireless switch wireless LAN control. This switch has no effect on the state of the wireless LAN radio for systems with a physical wireless on/off switch.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
Wireless Switch WLAN-WIGIG Control	<p>Enables or disables the effect of physical wireless switch on wireless LAN and WiGig radio.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable — The wireless physical switch does not effect the wireless LAN and WiGig radios.

Attribute Name	Description
Wireless UWB	<ul style="list-style-type: none"> • Enable — If the wireless physical switch is on, turns the wireless LAN on and WiGig radio on. If the wireless switch is off, turns the wireless LAN on and WiGig radio off. <p>Enable/Disable UWB card.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable
WxAN Radio	<p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • WLAN on • WWAN on • If set to Disable then it disables both WLAN and WWAN; • If set to WLAN ON then it toggles between WLAN radio on and WWAN radio off; • If set to WWAN ON then it toggles between WWAN radio on and WLAN radio off.
Wireless Switch GPS On WWAN Radio	<p>Enables or disables the effect of physical wireless switch on the GPS radio of the wireless WAN card.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable — If disabled, wireless switch does not have any effect on the state of the GPS radio of the wireless WAN card. • Enable — If enabled, wireless switch turns the GPS radio of the wireless WAN card on or off.
WWAN Connection Auto Sense	<p>When the WWAN is enabled, this token enables the feature that automatically turns off the WWAN when it is connected to the network.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> • Disable • Enable

Alerts in Dell Command | Monitor

Alerts are generated when a system's state of interest changes. There are two basic types of alerting: local alerting to the current computer user and remote alerting to a management application. Dell Command | Monitor handles both types of alerting.

The Distributed Management Task Force (DMTF) has released the Alert Standard Format (ASF), which defines alerting and remote control interfaces that enable management of networked systems when their operating system is absent. This includes a networked computer that has an inactive or inoperable operating system or that is in a low-power system sleep state. The ASF specification is available at www.dmtf.org. ASF documentation is provided with systems that support ASF.

ASF handles remote alerting for environmental events, which are detected by sensors, such as temperature, electrical, and fan probes, and chassis intrusion sensors. ASF also handles additional alerting in the operating-system-absent environment. By default, Dell Command | Monitor handles remote alerting for all events.

ASF 2.0 adds important security measures to the ASF standard, which defines alerting and remote control interfaces to proactively manage networked devices when their operating system is absent. The first industry specification for operating system absent management, ASF allows a network administrator to be alerted to failures of specific components within a networked device, thereby minimizing on-site maintenance while maximizing remote visibility of and access to local systems. Without ASF, operating system absent problems require manual intervention to force a reboot of the system.

There are three settings in the system BIOS that Dell Command | Monitor allows for configuration:

- Off — All ASF 2.0 features are turned off
- Alert Only — ASF 2.0 alert is the only feature that is turned on
- On — Alerts and remote control are turned on

The system network interface card (NIC) and basic input/output system (BIOS) support ASF 2.0. If the BIOS allows for any ASF 2.0 configuration, then the BIOS settings are exposed through the Microsoft Windows Management Instrumentation (WMI) by Dell Command | Monitor.

Dell Command | Monitor alerting

Local alerting involves displaying user messages and writing to the Windows event log. Remote alerting is accomplished through WMI indications. When Dell Command | Monitor detects an event, it generates an alert, which can be transmitted through the WMI service to a remote management application that is subscribed to that alert type.

When an alert is generated, Dell Command | Monitor supports four types of notification:


- NT event log
- WMI event
- SNMP traps

In Dell Command | Monitor, each type of event (for example, CurrentProbe, TemperatureProbe, Smart, and so on) that gets logged is provided with a unique event ID number. The events have unique IDs to allow log scraping; this way you can programmatically look at the event log and determine what Dell Command | Monitor events have occurred.

You are also provided with an option to receive either a single alert or a limited number of alerts of the occurrence of an event, of a given type. You can mask out specific events and can generate single alert messages for only those events.

Dell Command | Monitor recognizes the following eight WMI severity levels (represented by integers 0 through 7):

- UNKNOWN = 0
- OTHER = 1
- INFORMATION = 2
- WARNING_DEGRADED = 3
- MINOR = 4
- MAJOR = 5
- CRITICAL = 6
- FATAL_NONRECOVERABLE = 7

 **NOTE:** Events with CRITICAL severity will cause Dell Command | Monitor to shut down the local system after a 60-second delay.

The lowest WMI severity level that Dell Command | Monitor sends is WARNING_DEGRADED and the highest is CRITICAL. The severities of Dell Command | Monitor events are listed in Table 2-1. Dell Command | Monitor sends local alerting and remote alerting for all the listed events.

Table 1. Events Polled by Dell Command | Monitor

Dell Command Monitor Event (Windows Event Log Number)	Description
AlertTemperatureProbeWarning (1053)	Temperature probe has detected a warning value.
AlertTemperatureProbeFailure (1054)	Temperature probe has detected a failure value.
AlertTemperatureProbeNonRecoverable (1055)	Temperature probe has detected a non-recoverable value.
FanProbe (1103)	A cooling device has exceeded a minor threshold.
AlertCoolingDeviceFailure (1104)	Cooling device sensor has detected a failure value.
AlertCoolingDeviceNonRecoverable (1105)	Cooling device sensor has detected a non-recoverable value.
AlertVoltageProbeWarning (1153)	Voltage probe has detected a warning value.
AlertVoltageProbeFailure (1154)	Voltage probe has detected a failure value.
AlertVoltageProbeNonRecoverable (1155)	Voltage probe has detected a non-recoverable value.
CurrentProbe (1203)	An electrical current probe has exceeded a minor threshold. One of the hard-disk drive is running out of free space.
AlertAmperageProbeFailure (1204)	Amperage probe has detected a failure value.
AlertAmperageProbeNonRecoverable (1205)	Amperage probe has detected a non-recoverable value.
ChassisIntrusionNormal (1252)	Chassis intrusion has returned to normal.
ChassisIntrusion (1254)	System chassis intrusion alert.
EccMemory (1403)	A memory checksum failure has occurred.
RAIDControllerFailure (1801)	A RAID controller has failed.
RAIDControllerOffline (1802)	A RAID controller is offline.
RAIDControllerPowerOff (1803)	A RAID controller is turned off.
AlertRaidControllerDegraded (1804)	A Raid controller has degraded.
PhysicalDiskDegraded (1811)	A physical hard-disk drive is degraded.
AlertPhysicalDiskRebuilding (1812)	A physical hard-disk drive is rebuilding.

Dell Command Monitor Event (Windows Event Log Number)	Description
PhysicalDiskFailed (1813)	A physical hard-disk drive has failed.
PhysicalDiskOffline (1814)	A physical hard-disk drive is offline.
VirtualDiskDegraded (1821)	A virtual hard-disk drive is degraded.
VirtualDiskRebuilding (1822)	A virtual hard-disk drive is rebuilding.
VirtualDiskFailed (1823)	A virtual hard-disk drive has failed.
VirtualDiskOffline (1824)	A virtual hard-disk drive is offline.
NumberOfDisksIncreased (2030)	A hard-disk drive has been added.
NumberOfDisksDecreased (2031)	A hard-disk drive has been removed.
MemorySizeIncreased (2032)	The memory size has been increased.
MemorySizeDecreased (2033)	The memory size has been decreased.
DiskCapacity (2034)	In the current version, two user-defined thresholds are used. An event is generated only when the conditions of both thresholds are met. The first threshold, expressed as an absolute value in megabytes, specifies the size of the hard-disk drive to be monitored. Hard-disk drives with a capacity smaller than the specified size are ignored. The second threshold is expressed as a percentage of the hard-disk drive size. An event is generated when the available free space on one of the monitored hard-disk drives falls below this percentage
NumberOfProcessorsIncreased (2035)	Number of processors on the system has increased
NumberOfProcessorsDecreased (2036)	A processor has been removed.
HDD Smart Failure(2037)	A hard-disk drive condition has occurred that may eventually lead to a hard-disk drive failure.
DiskSizeIncreased (2038)	The size of at least one hard-disk drive has increased.
DiskSizeDecreased (2039)	The size of at least one hard-disk drive has decreased.

Sample scripts and BIOS settings

This section provides sample scripts for various functionalities in Dell Command | Monitor.

Getting BIOS settings

Below is a sample VBScript to get the current list of BIOS Settings on a client system.

```
*****
```

```
'*** Name: SampleGetBBIOSSettings.vbs
```

```
'*** Purpose: To get the current list of BIOS Settings on a Dell OMCI 8.0 client.
```

```
'*** Usage: cscript.exe /nologo SampleGetBBIOSSettings.vbs <systemname>
```

```
'*** This sample script is provided as an example only, and has not been
```

```
'*** tested, nor is warranted in any way by Dell; Dell disclaims any
```

```
'*** liability in connection therewith. Dell provides no technical
```

```
'*** support with regard to such scripting. For more information on WMI
```

```
'*** scripting, refer to applicable Microsoft documentation.
```

```
*****
```

```

*** Declare variables

Dim objWMIService
Dim strComputerName
Dim strNameSpace
Dim strClassName
Dim ColSystem
Dim fso
Dim txtfile
Dim outString
Dim iTKVal
Dim ArrayItem
Dim objInstance
Dim strSpecialTK1
Dim strSpecialTK2

*** Check that the right executable was used to run the script

*** and that all parameters were passed

If (LCase(Right(WScript.FullName, 11)) = "wscript.exe" ) Or _
(Wscript.Arguments.Count < 1) Then
Call Usage()
WScript.Quit
End If

*** Initialize variables

Set fso = CreateObject("Scripting.FileSystemObject")
strComputerName = WScript.Arguments(0)
outString = ""
strNameSpace = "root/dcim/sysman"
strClassName = "DCIM_BIOSEnumeration"
strSpecialTK1 = "Auto On Hour"
strSpecialTK2 = "Auto On Minute"
iTKVal = -1
ArrayItem = 0

*** Establish a connection to the dcim\sysman namespace

```

```

*** Retrieve the instance of DCIM_BIOSEnumeration class

Set objWMIService = GetObject("winmgmts:{impersonationLevel=impersonate," &
AuthenticationLevel=pktprivacy}\\\" & strComputerName & "\" &
strNameSpace)

*** Set up the output file

set txtfile = fso.Createtextfile("BIOS_Output.csv", true)
Set ColSystem=objWMIService.execquery ("Select * from " & strClassName)
outString = ""
For each objInstance in ColSystem
*** Check every instance

iTKVal = objInstance.Properties_.Item("CurrentValue").Value(0)

*** Auto On Hour and Auto On Minutes don't have PossibleValues and PossibleValuesDescription
properties

if (objInstance.AttributeName <> strSpecialTK1) and (objInstance.AttributeName
<> strSpecialTK2) Then

For Each element in objInstance.Properties_.Item("PossibleValues").Value
if (objInstance.Properties_.Item("PossibleValues").Value(ArrayItem) = iTKVal)
Then

outString = outString & objInstance.AttributeName & ", " &
(objInstance.Properties_.Item
("PossibleValuesDescription").Value(ArrayItem)) & VbCrLf
end if

ArrayItem = ArrayItem + 1
Next
else

*** Auto On Hour and Auto On Minutes token copy the current value directly

outString = outString & objInstance.AttributeName & ", " & iTKVal & VbCrLf
end if

ArrayItem = 0
Next

txtfile.WriteLine outString

*** Close the file

txtfile.close

```

```

'*** If any errors occurred, let the user know

If Err.Number <> 0 Then
WScript.Echo "Enabling Trusted Platform Module failed."
End If

'*** Sub used to display the correct usage of the script

Sub Usage()
Dim strMessage
strMessage = "incorrect syntax. You should run: " & vbCRLF & _
"cscrip.exe /nologo SampleGetBIOSSettings.vbs <systemname>"
WScript.Echo strMessage
WScript.Echo strMessage
End Sub

'=====
====

' End

'=====
====

```

Changing BIOS password

Below is a sample VBScript that changes the BIOS password on a Dell Command | Monitor client.

```

*****

```

```

'*** Name: SampleSetAdminPassword.vbs

```

```

'*** Purpose: To Set/Change the BIOS Admin password on a Dell OMCI client.

```

```

'*** Usage: cscrip.exe //nologo SampleSetAdminPassword.vbs <systemname>

```

```

'***

```

```

'*** This sample script is provided as an example only, and has not been

```

```

'*** tested, nor is warranted in any way by Dell; Dell disclaims any

```

```

'*** liability in connection therewith. Dell provides no technical

```

```


'*** support with regard to such scripting. For more information on WMI

```

```

'*** scripting, refer to applicable Microsoft documentation.

```

 **NOTE:** Replace <old_password> and <new_password> in line 45 and 44 '***' (inside the quotes) with the desired values.

Option Explicit

*** Declare variables

Dim strNameSpace

Dim strComputerName

Dim strClassName

Dim objInstance

Dim strAttributeName(2)

Dim strAttributeValue(2)

Dim strAuthorizationToken

Dim returnValue

Dim objWMIService

Dim ColSystem

Dim oInParams

*** Check that the right executable was used to run the script

*** and that all parameters were passed

If (LCase(Right(WScript.FullName, 11)) = "wscript.exe") Or _

(Wscript.Arguments.Count < 1) Then

Call Usage()

WScript.Quit

End If

*** Initialize variables

strNameSpace = "root/dcim/sysman"

strComputerName = WScript.Arguments(0)

strClassName = "DCIM_BIOSService"

strAttributeName(0) = "AdminPwd"

strAttributeValue(0) = "<new_password>"

strAuthorizationToken = "<old_password>"

returnValue = 0

```

*** Retrieve the instance of DCIM_BIOSService class

Set objWMIService = GetObject("winmgmts:{impersonationLevel=impersonate," & _
"AuthenticationLevel=pktprivacy}\\\" & strComputerName & "\" & _
strNameSpace)

Set ColSystem=objWMIService.execquery ("Select * from " & strClassName)

For each objInstance in ColSystem

Set oInParams=
objInstance.Methods_("SetBIOSAttributes").InParameters.SpawnInstance_
oInParams.AttributeName = strAttributeName
oInParams.AttributeValue = strAttributeValue
oInParams.AuthorizationToken = strAuthorizationToken

Set returnValue = objInstance.ExecMethod_("SetBIOSAttributes", oInParams)

Next

*** If any errors occurred, let the user know

If Err.Number <> 0 Then
WScript.Echo "Change admin password failed."
End If

*** Sub used to display the correct usage of the script

Sub Usage()
Dim strMessage
strMessage = "incorrect syntax. You should run: " & vbCRLF & _
"cscript.exe /nologo SampleSetAdminPassword.vbs <systemname>"
WScript.Echo strMessage
End Sub

'=====
====

' End

'=====
====

```

Clear chassis intrusion status

Below is a sample VBScript that clears the chassis intrusion status of a system. This script can be run locally or remotely using the name of the system.

*** Name: SampleChassisIntrusionClear.vbs

'*** Purpose: To clear the chassis intrusion status on a Dell OMCI client.

'*** Usage: cscript.exe //nologo SampleChassisIntrusionClear.vbs <systemname>

'***


'*** This sample script is provided as an example only, and has not been

'*** tested, nor is warranted in any way by Dell; Dell disclaims any

'*** liability in connection therewith. Dell provides no technical

'*** support with regard to such scripting. For more information on WMI

'*** scripting, refer to applicable Microsoft documentation.

 **NOTE:** Replace <Password>in line 57 (inside the quotes) with the desired values if there is any password set in the system. If both passwords (Admin and Boot) are set please replace it with Admin Password. If there is no password set in the system please leave it as empty.

Option Explicit

'*** Declare variables

Dim strNameSpace

Dim strComputerName

Dim strClassName

Dim strKeyValue

Dim objInstance

Dim strPropName

Dim oInParams

Dim objWMIService

Dim returnValue

Dim ColSystem

Dim strAttributeName (2)

Dim strAttributeValue (2)

Dim strAuthorizationToken

'*** Check that the right executable was used to run the script and that all parameters were passed.

If (LCase(Right(WScript.FullName, 11)) = "wscript.exe") Or _

(Wscript.Arguments.Count < 1) Then

Call Usage()

WScript.Quit

End If

```

*** Initialize variables

strNameSpace = "root/dcim/sysman"
strComputerName = WScript.Arguments(0)
strClassName = "DCIM_BIOSService"
strAttributeName(0) = "Chassis Intrusion Status"
*** All possible values for Chassis Intrusion Status are as follows:

*** 1 = Tripped (Read-only)

*** 2 = Door open (Read-only)

*** 3 = Door closed (Read-only)

*** 4 = Trip reset (Write-only)

strAttributeValue(0) = "4"
strAuthorizationToken = "<Password>"
returnValue = 0

*** Retrieve the instance of DCIM_BIOSService class

Set objWMIService = GetObject("winmgmts:{impersonationLevel=impersonate," &
"AuthenticationLevel=pktprivacy}\\\" & strComputerName & "\" &
strNameSpace)

Set ColSystem=objWMIService.execquery ("Select * from " & strClassName)
For each objInstance in ColSystem
Set oInParams=
objInstance.Methods_("SetBIOSAttributes").InParameters.SpawnInstance_
oInParams.AttributeName = strAttributeName
oInParams.AttributeValue = strAttributeValue
oInParams.AuthorizationToken = strAuthorizationToken
Set returnValue = objInstance.ExecMethod_("SetBIOSAttributes", oInParams)
Next

*** If any errors occurred, let the user know

If Err.Number <> 0 Then
WScript.Echo "Clear chassis intrusion failed."
End If

```

```
'*** Sub used to display the correct usage of the script

Sub Usage()
Dim strMessage
strMessage = "incorrect syntax. You should run: " & vbCRLF & _
"cscrip.exe /nologo SampleChassisIntrusionClear.vbs <systemname>"
WScript.Echo strMessage
End Sub

'=====
====

' End


'=====
====
```

Enabling Wakeup On LAN

Below is a sample VBScript that enables Wakeup On LAN on a Dell Command | Monitor client.

```
*****
```

```
'*** Name: SampleWuOLEnable.vbs
'*** Purpose: To clear the chassis intrusion status on a Dell OMCI client.
'*** Usage: cscrip.exe //nologo SampleWuOLEnable.vbs <systemname>
'*** This sample script is provided as an example only, and has not been
'*** tested, nor is warranted in any way by Dell; Dell disclaims any
'*** liability in connection therewith. Dell provides no technical
'*** support with regard to such scripting. For more information on WMI
'*** scripting, refer to applicable Microsoft documentation.
```

 **NOTE:** Replace <Password> in line 57 (inside the quotes) with the desired values if there is any password set in the system. If both passwords (Admin and Boot) are set please replace it with Admin Password. If there is no password set in the system please leave it as empty.

```
*****
```

```
Option Explicit
```

```

*** Declare variables

Dim strNameSpace
Dim strComputerName
Dim strClassName
Dim strKeyValue
Dim objInstance
Dim strPropName
Dim strPropValue
Dim oInParams
Dim oInParams
Dim objWMIService
Dim returnValue
Dim ColSystem
Dim strAttributeName(2)
Dim strAttributeValue(2)
Dim strAuthorizationToken

*** Check that the right executable was used to run the script and that all parameters were passed.

If (ICase(Right(WScript.FullName, 11)) = "wscript.exe" ) Or _
(Wscript.Arguments.Count < 1) Then
Call Usage()
WScript.Quit
End If

*** Initialize variables

strNameSpace = "root/dcim/sysman"
strComputerName = WScript.Arguments(0)
strClassName = "DCIM_BIOSService"
strAttributeName(0) = "Wake On LAN"

*** All possible values for WOL are as follows:

*** 1 = Disable

*** 2 = Add-in

*** 3 = On board

*** 4 = LAN

*** 5 = PXE boot enable

```

```

'*** 6 = LAN or WLAN

'*** 7 = WLAN only

strAttributeValue(0) = "4"
strAuthorizationToken = "<Password>"
returnValue = 0

'*** Retrieve the instance of DCIM_BIOSService class

Set objWMIService = GetObject("winmgmts:{impersonationLevel=impersonate," & _
"AuthenticationLevel=pktprivacy}\\\" & strComputerName & "\" & _
strNameSpace)

Set ColSystem=objWMIService.execquery ("Select * from " & strClassName)
For each objInstance in ColSystem
Set oInParams=
objInstance.Methods_("SetBIOSAttributes").InParameters.SpawnInstance_
oInParams.AttributeName = strAttributeName
oInParams.AttributeValue = strAttributeValue
oInParams.AuthorizationToken = strAuthorizationToken
Set returnValue = objInstance.ExecMethod_("SetBIOSAttributes", oInParams)
Next

'*** If any errors occurred, let the user know

If Err.Number <> 0 Then
WScript.Echo "Enabling Wake On LAN failed."
End If

'*** Sub used to display the correct usage of the script

Sub Usage()
Dim strMessage
strMessage = "incorrect syntax. You should run: " & vbCRLF & _
"cscrip.exe /nologo SampleWuOLEnable.vbs <systemname>"
WScript.Echo strMessage
End Sub

'=====
====

' End

'=====
====

```

Remote system shutdown

Below is a sample VBScript that shuts down a Dell Command | Monitor client remotely.

```
*****
*** Name: SampleShutdown.vbs
*** Purpose: To clear the chassis intrusion status on a Dell OMCI client.
*** Usage: cscript.exe //nologo SampleShutdown.vbs <systemname>
*** This sample script is provided as an example only, and has not been
*** tested, nor is warranted in any way by Dell; Dell disclaims any
*** liability in connection therewith. Dell provides no technical
*** support with regard to such scripting. For more information on WMI
*** scripting, refer to applicable Microsoft documentation.
*****

Option Explicit
*** Declare variables

Dim strNameSpace
Dim strComputerName
Dim strClassName
Dim strKeyValue
Dim objInstance
Dim strPropName
Dim strPropValue
Dim oInParams
Dim objWMIService
Dim returnValue
Dim ColSystem

*** Check that the right executable was used to run the script and that all parameters were passed

If (LCase(Right(WScript.FullName, 11)) = "wscript.exe" ) Or _
(Wscript.Arguments.Count < 1) Then
Call Usage()
WScript.Quit
End If
```

```

*** Initialize variables

strNameSpace = "root/dcim/sysman"
strComputerName = WScript.Arguments(0)
strClassName = "DCIM_ComputerSystem"
returnValue = 0

*** Retrieve the instance of DCIM_ComputerSystem class

Set objWMIService = GetObject("winmgmts:{impersonationLevel=impersonate," & _
"AuthenticationLevel=pktprivacy}\\\" & strComputerName & "\" & _strNameSpace)
Set ColSystem=objWMIService.execquery ("Select * from " & strClassName)
For each objInstance in ColSystem

Set oInParams=
objInstance.Methods_("RequestStateChange").InParameters.SpawnInstance_
oInParams.RequestedState = 3

Set returnValue = objInstance.ExecMethod_("RequestStateChange", oInParams)
Next

*** If any errors occurred, let the user know

If Err.Number <> 0 Then
WScript.Echo "Operation failed."
End If

*** Sub used to display the correct usage of the script

Sub Usage()
Dim strMessage
strMessage = "incorrect syntax. You should run: " & vbCRLF & _
"cscrip.exe /nologo SampleShutdown.vbs <systemname>"
WScript.Echo strMessage
End Sub

'=====
====

' End

'=====
====

```

Remote system restart

Below is a sample VBScript that restarts a Dell Command | Monitor client remotely.

```

*****

```

'*** Name: SampleRestart.vbs

'*** Purpose: To clear the chassis intrusion status on a Dell OMCI client.

'*** Usage: cscript.exe //nologo SampleRestart.vbs <systemname>

'*** This sample script is provided as an example only, and has not been tested, nor is warranted in any way by Dell; Dell disclaims any liability in connection therewith. Dell provides no technical support with regard to such scripting. For more information on WMI scripting, refer to applicable Microsoft documentation.

Option Explicit

'*** Declare variables

```
Dim strNameSpace
Dim strComputerName
Dim strClassName
Dim strKeyValue
Dim objInstance
Dim strPropName
Dim strPropValue
Dim oInParams
Dim objWMIService
Dim returnValue
Dim ColSystem
```

'*** Check that the right executable was used to run the script and that all parameters were passed.

```
If (LCase(Right(WScript.FullName, 11)) = "wscript.exe" ) Or _
(Wscript.Arguments.Count < 1) Then
Call Usage()
WScript.Quit
End If
```

'*** Initialize variables

```
strNameSpace = "root/dcim/sysman"
strComputerName = WScript.Arguments(0)
strClassName = "DCIM_ComputerSystem"
returnValue = 0
```

```

'*** Retrieve the instance of DCIM_ComputerSystem class

Set objWMIService = GetObject("winmgmts:{impersonationLevel=impersonate," & _
"AuthenticationLevel=pktprivacy}\\.\" & strComputerName & "\" & _
strNameSpace)

Set ColSystem=objWMIService.execquery ("Select * from " & strClassName)
For each objInstance in ColSystem

Set oInParams=
objInstance.Methods_("RequestStateChange").InParameters.SpawnInstance_
oInParams.RequestedState = 11

Set returnValue = objInstance.ExecMethod_("RequestStateChange", oInParams)

Next

'*** If any errors occurred, let the user know

If Err.Number <> 0 Then
WScript.Echo "System restart failed."
End If

'*** Sub used to display the correct usage of the script

Sub Usage()
Dim strMessage
strMessage = "incorrect syntax. You should run: " & vbCRLF & _
"cscript.exe /nologo SampleRestart.vbs <systemname>"
WScript.Echo strMessage
End Sub

'=====
====

' End

'=====
====

```

Enabling PXE Boot on the next reboot

Below is a sample VBScript that forces a Dell Command | Monitor client to boot to PXE on next reboot.

```

*****

```

```

'*** Name: SampleForcePXE.vbs

```

```

'*** Purpose: To clear the chassis intrusion status on a Dell OMCI client.


```

```

'*** Usage: cscript.exe //nologo SampleForcePXE.vbs <systemname>

```

'*** This sample script is provided as an example only, and has not been
'*** tested, nor is warranted in any way by Dell; Dell disclaims any
'*** liability in connection therewith. Dell provides no technical
'*** support with regard to such scripting. For more information on WMI
'*** scripting, refer to applicable Microsoft documentation.

 **NOTE:** Replace <Password> in line 53 (inside the quotes) with the desired values if there is any password set in the system. If both passwords (Admin and Boot) are set please replace it with Admin Password. If there is no password set in the system please leave it as empty.

Option Explicit

'*** Declare variables

Dim strNameSpace

Dim strComputerName

Dim strClassName

Dim strKeyValue

Dim objInstance

Dim strPropName

Dim strPropValue

Dim oInParams

Dim objWMIService

Dim returnValue

Dim ColSystem

Dim strAttributeName(2)

Dim strAttributeValue(2)

Dim strAuthorizationToken

'*** Check that the right executable was used to run the script and that all parameters were passed.

If (LCase(Right(WScript.FullName, 11)) = "wscript.exe") Or _

(Wscript.Arguments.Count < 1) Then

Call Usage()

WScript.Quit

End If

```

*** Initialize variables

strNameSpace = "root/dcim/sysman"
strComputerName = WScript.Arguments(0)
strClassName = "DCIM_BIOSService"
strAttributeName = "Force PXE on Next Boot"
*** All possible values for Force PXE on Next Boot are as follows:

*** 1 = Disable

*** 2 = Enable

strAttributeValue = "2"
strAuthorizationToken = "<Password>"
returnValue = 0

*** Retrieve the instance of DCIM_BIOSService class

Set objWMIService = GetObject("winmgmts:{impersonationLevel=impersonate," & _
"AuthenticationLevel=pktprivacy}\\\" & strComputerName & "\" & _
strNameSpace)
Set ColSystem=objWMIService.execquery ("Select * from " & strClassName)
For each objInstance in ColSystem
Set oInParams=
objInstance.Methods_("SetBIOSAttributes").InParameters.SpawnInstance_
oInParams.AttributeName = strAttributeName
oInParams.AttributeValue = strAttributeValue
oInParams.AuthorizationToken = strAuthorizationToken
Set returnValue = objInstance.ExecMethod_("SetBIOSAttributes", oInParams)
Next

*** If any errors occurred, let the user know

If Err.Number <> 0 Then
WScript.Echo "Enabling Force PXE on Next Boot failed."
End If

*** Sub used to display the correct usage of the script

Sub Usage()
Dim strMessage
strMessage = "incorrect syntax. You should run: " & vbCRLF & _
"cscrip.exe /nologo SampleForcePXE.vbs <systemname>"
WScript.Echo strMessage
End Sub

```

```
'=====
====
' End
'=====
====
```

System summary

Below is a sample VBScript that contains details of the system summary.

```
*****
```

```
*** Name: SampleSystemSummary.vbs
```

```
*** Purpose: To check for BIOS Admin/Boot Password on a Dell OMCI client.
```

```
*** Usage: cscript.exe //nologo SampleSystemSummary.vbs <systemname>
```

```
*** This sample script is provided as an example only, and has not been
```

```
*** tested, nor is warranted in any way by Dell; Dell disclaims any
```

```
*** liability in connection therewith. Dell provides no technical
```

```
*** support with regard to such scripting. For more information on WMI
```

```
*** scripting, refer to applicable Microsoft documentation.
```

```
*****
```

```
Option Explicit
```

```
*** Declare variables
```

```
Dim strNameSpace
```

```
Dim strComputerName
```

```
Dim strClassName
```

```
Dim strClassNameBIOS
```

```
Dim strKeyValueChassis
```

```
Dim objInstance
```

```
Dim ColSystem
```

```
Dim objWMIService
```

```
Dim strMessage
```

```

'*** Check that the right executable was used to run the script and that all parameters were passed

If (LCase(Right(WScript.FullName, 11)) = "wscript.exe" ) Or _
(WScript.Arguments.Count < 1) Then
Call Usage()
WScript.Quit
End If

'*** Initialize variables

strNameSpace = "root/dcim/sysman"
strComputerName = WScript.Arguments(0)
strClassName = "DCIM_Chassis"
strClassNameBIOS = "DCIM_BIOSElement"
strKeyValueChassis = "DCIM_Chassis"

'*** Retrieve the instance of DCIM_Chassis class (there should only be 1 instance)

'*** Establish a connection to the dcim\sysman namespace

Set objWMIService = GetObject("winmgmts:{impersonationLevel=impersonate," & _
"AuthenticationLevel=pktprivacy}\" & strComputerName & "\" & _
strNameSpace)

Set ColSystem=objWMIService.execquery ("Select * from " & strClassName)
For each objInstance in ColSystem
if (objInstance.CreationClassName = strKeyValueChassis) Then
strMessage = "Asset Tag: "
strMessage = strMessage & objInstance.Properties_.Item("Tag").Value
strMessage = strMessage & vbCRLF & "Service Tag: "
strMessage = strMessage & objInstance.Properties_.Item("ElementName").Value
End if
Next

'*** Retrieve all instances of DCIM_BIOSElement (there should only be 1 instance).

Set ColSystem=objWMIService.execquery ("Select * from " & strClassNameBIOS)
For each objInstance in ColSystem
strMessage = strMessage & vbCRLF & "BIOS Version: "
strMessage = strMessage & objInstance.Properties_.Item("Version").Value
Next

'*** Display the results

WScript.Echo strMessage

```

```

'*** Sub used to display the correct usage of the script

Sub Usage()
Dim strMessage
strMessage = "incorrect syntax. You should run: " & vbCRLF & _
"cscrip.exe //nologo SampleSystemSummary.vbs <systemname>"
WScript.Echo strMessage
End Sub

'=====
====

' End

'=====
====

```

Sample Get RAID type

Below is a sample VBScript that contains details of the sample GetRAID type.

```

*****
'*** Name: SampleGetRAIDType.vbs
'*** Purpose: To get the current list of BIOS Settings on a Dell OMCI 8.2.1 client.
'*** Usage: cscrip.exe /nologo SampleGetRAIDType.vbs <systemname>
'*** This sample script is provided as an example only, and has not been
'***tested, nor is warranted in any way by Dell; Dell disclaims any
'***liability in connection therewith. Dell provides no technical
'*** support with regard to such scripting. For more information on WMI
'***scripting, refer to applicable Microsoft documentation.
*****

```

```

***Declare variables

Dim objWMIService
Dim strComputerName
Dim strNameSpace
Dim strClassName
Dim ColSystem
Dim fso
Dim txtfile
Dim outString
Dim iTKVal
Dim ArrayItem
Dim objInstance

*** Check that the right executable was used to run the script and that all parameters were passed

If (LCase(Right(WScript.FullName, 11)) = "wscript.exe" ) Or _
(Wscript.Arguments.Count < 1) Then
Call Usage()
WScript.Quit
End If

*** Initialize variables

Set fso = CreateObject("Scripting.FileSystemObject")
strComputerName = WScript.Arguments(0)
outString = ""
strNameSpace = "root/dcim/sysman"
strClassName = "DCIM_VirtualDiskView"
iTKVal = -1
ArrayItem = 0

*** Establish a connection to the dcim/sysman namespace

*** Retrieve the instance of DCIM_ControllerView class

Set objWMIService = GetObject("winmgmts:{impersonationLevel=impersonate," &
"AuthenticationLevel=pktprivacy}\\\" & strComputerName & "\" & _strNameSpace)

```

```

*** Set up the output file

Set ColSystem=objWMIService.execquery ("Select * from " & strClassName)
outString = "RAID Type = "
For Each objItem in ColSystem
For Each p in objItem.Properties_
If p.Name = "RAIDTypes" Then
Select Case p.Value
Case 1
outString = outString & "No RAID" & VbCrLf
Case 2
outString = outString & "RAID0" & VbCrLf
Case 4
outString = outString & "RAID1" & VbCrLf
Case 64
outString = outString & "RAID5" & VbCrLf
Case 128
outString = outString & "RAID6" & VbCrLf
Case 2048
outString = outString & "RAID10" & VbCrLf
Case 8192
outString = outString & "RAID50" & VbCrLf
Case 16384
outString = outString & "RAID60" & VbCrLf
Case Else
outString = outString & "UNSUPPORTED" & VbCrLf
End Select
End If
Next
Next
Wscript.Stdout.WriteLine outString
*** If any errors occurred, let the user know

If Err.Number <> 0 Then
WScript.Echo "Enabling Trusted Platform Module failed."
End If

```

```

'*** Sub used to display the correct usage of the script

Sub Usage ()
Dim strMessage
strMessage = "incorrect syntax. You should run: " & vbCRLF & _
"cscrip.exe /nologo SampleGetRAIDType.vbs <systemname>"
WScript.Echo strMessage
End Sub

'=====
====

' End

'=====
====

```

Sample Get RAID settings

Below is a sample VBScript that contains details of the sample GetRAID settings.

```

*****

```

```

'*** Name: SampleGetRAIDSettings.vbs

```

```

'*** Purpose: To get the current list of BIOS Settings on a Dell OMCI 8.2.1 client.

```

```

'*** Usage: cscrip.exe /nologo SampleGetRAIDSettings.vbs <systemname>

```

```

'*** This sample script is provided as an example only, and has not been

```

```

'*** tested, nor is warranted in any way by Dell; Dell disclaims any

```

```

'*** liability in connection therewith. Dell provides no technical

```

```

'*** support with regard to such scripting. For more information on WMI

```

```

'*** scripting, refer to applicable Microsoft documentation.

```

```

*****

```

```

*** Declare variables

Dim objWMIService
Dim strComputerName
Dim strNameSpace
Dim strClassName
Dim ColSystem
Dim fso
Dim txtfile
Dim outString
Dim iTKVal
Dim ArrayItem
Dim objInstance
Dim SupportedListCV(5)
SupportedListCV(0) = "InstanceID"
SupportedListCV(1) = "PrimaryStatus"
SupportedListCV(2) = "ControllerFirmwareVersion"
SupportedListCV(3) = "BusType"
SupportedListCV(4) = "Device"
SupportedListCV(5) = "ProductName"

*** Check that the right executable was used to run the script and that all parameters were passed

If (LCase(Right(WScript.FullName, 11)) = "wscript.exe" ) Or _
(Wscript.Arguments.Count < 1) Then
Call Usage()
WScript.Quit
End If

*** Initialize variables

Set fso = CreateObject("Scripting.FileSystemObject")
strComputerName = WScript.Arguments(0)
outString = ""
strNameSpace = "root/dcim/sysman"
strClassName = "DCIM_ControllerView"
iTKVal = -1
ArrayItem = 0

*** Establish a connection to the dcim/sysman namespace

```

```

*** Retrieve the instance of DCIM_ControllerView class

Set objWMIService = GetObject("winmgmts:{impersonationLevel=impersonate," & _
"AuthenticationLevel=pktprivacy}\\\" & strComputerName & "\" & _
strNameSpace)

*** Set up the output file

set txtfile = fso.Createtextfile("RAID_Output.csv", true)
Set ColSystem=objWMIService.execquery ("Select * from " & strClassName)
outString = ""
For Each objItem in ColSystem
For Each p in objItem.Properties_
For Each obj in SupportedListCV
If p.Name = obj Then
' Display the values of the Name and Value properties of the SWbemProperty
object
outString = outString & p.Name & "," & p.Value & VbCrLf
End If
Next
Next
Next
Next

txtfile.WriteLine outString

*** Close the file

txtfile.close

*** If any errors occurred, let the user know

If Err.Number <> 0 Then
WScript.Echo "Enabling Trusted Platform Module failed."
End If

*** Sub used to display the correct usage of the script

Sub Usage()
Dim strMessage
strMessage = "incorrect syntax. You should run: " & vbCRLF & _
"cscript.exe /nologo SampleGetRAIDSettings.vbs <systemname>"
WScript.Echo strMessage
End Sub

'=====
=====

```

' End

'=====

Sample Get RAID status

Below is a sample VBScript that contains details of the sample GetRAID status.

*** Name: SampleGetRAIDStatus.vbs

*** Purpose: To get the current list of BIOS Settings on a Dell OMCI 8.2.1 client.

*** Usage: cscript.exe /nologo SampleGetRAIDStatus.vbs <systemname>

*** This sample script is provided as an example only, and has not been

*** tested, nor is warranted in any way by Dell; Dell disclaims any

*** liability in connection therewith. Dell provides no technical

*** support with regard to such scripting. For more information on WMI

*** scripting, refer to applicable Microsoft documentation.

***Declare variables

Dim objWMIService

Dim strComputerName

Dim strNameSpace

Dim strClassName

Dim ColSystem

Dim fso

Dim txtfile

Dim outString

Dim iTKVal

Dim ArrayItem

Dim objInstance

*** Check that the right executable was used to run the script and that all parameters were passed

```
If (LCase(Right(WScript.FullName, 11)) = "wscript.exe" ) Or _  
(Wscript.Arguments.Count < 1) Then  
Call Usage()  
WScript.Quit  
End If
```

*** Initialize variables

```
Set fso = CreateObject("Scripting.FileSystemObject")  
strComputerName = WScript.Arguments(0)  
outString = ""  
strNameSpace = "root/dcim/sysman"  
strClassName = "DCIM_VirtualDiskView"  
iTKVal = -1  
ArrayItem = 0
```

*** Establish a connection to the dcim/sysman namespace

*** Retrieve the instance of DCIM_ControllerView class

```
Set objWMIService = GetObject("winmgmts:{impersonationLevel=impersonate," &_  
"AuthenticationLevel=pktprivacy}\\\" & strComputerName & "\" &_  
strNameSpace)
```

*** Set up the output file

```
Set ColSystem=objWMIService.execquery ("Select * from " & strClassName)
```

```
outString = "RAID Status = "
```

```
For Each objItem in ColSystem
```

```
For Each p in objItem.Properties_
```

```
If p.Name = "RAIDStatus" Then
```

```
Select Case p.Value
```

```
Case 0
```

```
outString = outString & "Unknown" & VbCrLf
```

```
Case 1
```

```
outString = outString & "Ready" & VbCrLf
```

```
Case 2
```

```
outString = outString & "Online" & VbCrLf
```

```
Case 3
```

```
outString = outString & "Foreign" & VbCrLf
```

```
Case 4
```

```
outString = outString & "Offline" & VbCrLf
```

```
Case 5
```

```
outString = outString & "Blocked" & VbCrLf
```

```
Case 6
```

```
outString = outString & "Failed" & VbCrLf
```

```
Case 7
```

```
outString = outString & "Degraded" & VbCrLf
```

```
Case 8
```

```
outString = outString & "Rebuilding" & VbCrLf
```

```
End Select
```

```
End If
```

```
Next
```

```
Next
```

```
Wscript.Stdout.WriteLine outString
```

*** If any errors occurred, let the user know

```
If Err.Number <> 0 Then
```

```
WScript.Echo "Enabling Trusted Platform Module failed."
```

```
End If
```

*** Sub used to display the correct usage of the script

```
Sub Usage()
```

```
Dim strMessage
```

```
strMessage = "incorrect syntax. You should run: " & vbCRLF & _
```

```
"cscript.exe /nologo SampleGetRAIDStatus.vbs <systemname>"
```

```
WScript.Echo strMessage
```

```
End Sub
```

```
'=====
====
```

```
' End
```

```
'=====
====
```