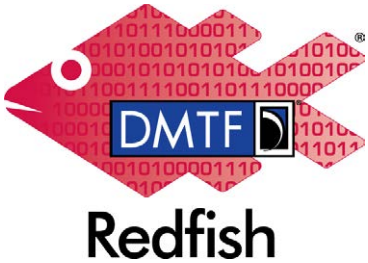


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# Redfish Resource and Schema Guide

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| | | | |
|---|---|---|---|
| **DisplayName** | string | read-only (null) | The user-readable display string of the attribute in the defined 'Language'. |
| **DisplayOrder** | number | read-only (null) | The numeric value describing the ascending order that the attribute is displayed relative to other attributes. |
| **GrayOut** | boolean | read-only (null) | The gray-out state of this attribute. |
| **HelpText** | string | read-only (null) | The help text for the attribute. |
| **Hidden** | boolean | read-only (null) | The hidden state of this attribute. |
| **Immutable** | boolean | read-only (null) | Defines whether this attribute is immutable or not. |
| **IsSystemUniqueProperty** | boolean | read-only (null) | Defines whether this attribute is unique for this system and should not be replicated. |
| **LowerBound** | number | read-only (null) | The lower limit of the value of an attribute of type 'Integer'. |
| **MaxLength** | number | read-only (null) | The maximum character length of the value of an attribute of type 'String'. |
| **MenuPath** | string | read-only (null) | A path that describes the menu hierarchy of this attribute. |
| **MinLength** | number | read-only (null) | The minimum character length of the value of an attribute of type 'String'. |
| **ReadOnly** | boolean | read-only (null) | The read-only state of this attribute. |
| **ScalarIncrement** | number | read-only (null) | The amount to increment or decrement the value of an attribute of type 'Integer' each time a user requests a value change. |
| **Type** | string (enum) | read-only | The type of the attribute.<br>*See Type in Property Details, below, for the possible values of this property.* |
| **UpperBound** | number | read-only (null) | The upper limit of the value of an attribute of type 'Integer'. |
| **Value** [ { | array | read-only | The array containing possible values for attributes of type 'Enumeration'. |
| **ValueDisplayName** | string | read-only (null) | A user-readable display string of the value of the attribute in the defined 'Language'. |
| **ValueName**<br>} ] | string | read-only (null) | The value name of the attribute. |
| **ValueExpression** | string | read-only (null) | A regular expression that is used to validate the value of the attribute. This is only applicable to attributes of type 'String' or 'Integer'. |
| **WarningText** | string | read-only (null) | The warning text for changing the attribute. |
| **WriteOnly** | boolean | read-only | Defines whether this attribute is write-only. Such attributes |

| | | | |
|---|---|---|---|
| } ] | | (null) | revert back to their initial value after settings are applied. |
| **Dependencies** [ { | array | read-only | The array containing a list of dependencies of attributes on this component. |
| **Dependency** { | object | | |
| **MapFrom** [ { | array | read-only | Array of the map-from conditions for mapping dependency. |
| **MapFromAttribute** | string | read-only | The attribute that is used to evaluate this dependency expression. |
| **MapFromCondition** | string (enum) | read-only | The condition that is used to evaluate this dependency expression.<br>*See MapFromCondition in Property Details, below, for the possible values of this property.* |
| **MapFromProperty** | string (enum) | read-only | The meta-data property of the attribute specified in MapFromAttribute that is used to evaluate this dependency expression.<br>*See MapFromProperty in Property Details, below, for the possible values of this property.* |
| **MapFromValue** | string, boolean, number | read-only (null) | The value that the is used property specified in MapFromProperty that is used to evaluate this dependency expression. |
| **MapTerms**<br>} ] | string (enum) | read-only | The logical term used to combine two or more MapFrom conditions in this dependency expression.<br>*See MapTerms in Property Details, below, for the possible values of this property.* |
| **MapToAttribute** | string | read-only | The Name of the attribute that is affected by this dependency expression. |
| **MapToProperty** | string (enum) | read-only | The meta-data property of the attribute specified in MapFromAttribute that is used to evaluate this dependency expression.<br>*See MapToProperty in Property Details, below, for the possible values of this property.* |
| **MapToValue**<br>} | string, boolean, number | read-only (null) | The value that MapToProperty is changed to if the dependency expression evaluates to true. |
| **DependencyFor** | string | read-only | The AttributeName of the attribute whose change triggers the evaluation of this dependency expression. |
| **Type**<br>} ] | string (enum) | read-only | The type of the dependency structure.<br>*See Type in Property Details, below, for the possible values of this property.* |
| **Menus** [ { | array | read-only | The array containing the attributes menus and their hierarchy. |
| **DisplayName** | string | read-only (null) | The user-readable display string of this menu in the defined 'Language'. |
| **DisplayOrder** | number | read-only (null) | The numeric value describing the ascending order in which this menu is displayed relative to other menus. |
| **GrayOut** | boolean | read-only (null) | The gray-out state of this menu. A grayed-only menu is not accessible in user interfaces. |

| | | | |
|---|---|---|---|
| **MenuName** | string | read-only | The unique name string of this menu. |
| **MenuPath** | string | read-only (null) | A path that describes this menu hierarchy relative to other menus. |
| **ReadOnly**<br>} ]<br>} | boolean | read-only (null) | The read-only state of this menu. |
| **RegistryVersion** | string | read-only required | This is the attribute registry version which is used in the middle portion of a AttributeRegistry. |
| **SupportedSystems** [ { | array | read-write | Array of systems supported by this attribute registry. |
| **ProductName** | string | read-only (null) | Firmware version. |
| **SystemId**<br>} ] | string | read-only (null) | The system ID of the system. |

## Property Details

**MapFromCondition:**

The condition that is used to evaluate this dependency expression.

| string | Description |
|---|---|
| EQU | The logical operation for 'Equal'. |
| GEQ | The logical operation for 'Greater than or Equal'. |
| GTR | The logical operation for 'Greater than'. |
| LEQ | The logical operation for 'Less than or Equal'. |
| LSS | The logical operation for 'Less than'. |
| NEQ | The logical operation for 'Not Equal'. |

**MapFromProperty:**

The meta-data property of the attribute specified in MapFromAttribute that is used to evaluate this dependency expression.

| string | Description |
|---|---|
| CurrentValue | The dependency on an attribute's CurrentValue. |
| DefaultValue | The dependency on an attribute's DefaultValue. |
| GrayOut | The dependency on an attribute's GrayOut state. |
| Hidden | The dependency on an attribute's Hidden state. |
| LowerBound | The dependency on an attribute's LowerBound. |
| MaxLength | The dependency on an attribute's MaxLength. |
| MinLength | The dependency on an attribute's MinLength. |
| ReadOnly | The dependency on an attribute's ReadOnly state. |
| ScalarIncrement | The dependency on an attribute's ScalarIncrement. |

| | |
|---|---|
| UpperBound | The dependency on an attribute's UpperBound. |
| WriteOnly | The dependency on an attribute's WriteOnly state. |

**MapTerms:**

The logical term used to combine two or more MapFrom conditions in this dependency expression.

| string | Description |
|---|---|
| AND | The operation used for logical 'AND' of dependency terms. |
| OR | The operation used for logical 'OR' of dependency terms. |

**MapToProperty:**

The meta-data property of the attribute specified in MapFromAttribute that is used to evaluate this dependency expression.

| string | Description |
|---|---|
| CurrentValue | The dependency that affects an attribute's CurrentValue. |
| DefaultValue | The dependency that affects an attribute's DefaultValue. |
| DisplayName | The dependency that affects an attribute's DisplayName. |
| DisplayOrder | The dependency that affects an attribute's DisplayName. |
| GrayOut | The dependency that affects an attribute's GrayOut state. |
| HelpText | The dependency that affects an attribute's HelpText. |
| Hidden | The dependency that affects an attribute's Hidden state. |
| Immutable | The dependency that affects an attribute's Immutable state. |
| LowerBound | The dependency that affects an attribute's LowerBound. |
| MaxLength | The dependency that affects an attribute's MaxLength. |
| MinLength | The dependency that affects an attribute's MinLength. |
| ReadOnly | The dependency that affects an attribute's ReadOnly state. |
| ScalarIncrement | The dependency that affects an attribute's ScalarIncrement. |
| UpperBound | The dependency that affects an attribute's UpperBound. |
| ValueExpression | The dependency that affects an attribute's ValueExpression. |
| WarningText | The dependency that affects an attribute's WarningText. |
| WriteOnly | The dependency that affects an attribute's WriteOnly state. |

**Type:**

The type of the dependency structure.

| string | Description |
|---|---|
| Map | A simple mapping dependency. The attribute value or state is changed to the mapped value if the condition evaluates to true. |

# Bios 1.0.0

Bios contains properties surrounding a BIOS Attribute Registry (where the system-specific BIOS attributes are described) and the Actions needed to perform changes to BIOS settings, which typically require a system reset to apply.

| | | | |
|---|---|---|---|
| **Actions** { | object | | The available actions for this resource. |
| **#Bios.ChangePassword** { } | object | | This action is used to change the BIOS passwords.<br>*For more information, see the Action Details section below.* |
| **#Bios.ResetBios** { }<br>} | object | | This action is used to reset the BIOS attributes to default.<br>*For more information, see the Action Details section below.* |
| **AttributeRegistry** | string | read-write (null) | The Resource ID of the Attribute Registry for the BIOS Attributes resource. |
| **Attributes** { } | object | | This is the manufacturer/provider specific list of BIOS attributes. |

## Action Details

**ChangePassword**

This action is used to change the BIOS passwords.

(This action takes no parameters.)

**ResetBios**

This action is used to reset the BIOS attributes to default.

(This action takes no parameters.)

# Chassis 1.3.0

A Chassis represents the physical components for any system. This resource represents the sheet-metal confined spaces and logical zones like racks, enclosures, chassis and all other containers. Subsystems (like sensors), which operate outside of a system's data plane (meaning the resources are not accessible to software running on the system) are linked either directly or indirectly through this resource.

| | | | |
|---|---|---|---|
| **Actions** { | object | | The available actions for this resource. |
| **#Chassis.Reset** { }<br>} | object | | This action is used to reset the chassis. This action resets the chassis, not Systems or other contained resources, although side effects may occur which affect those resources.<br>*For more information, see the Action Details section below.* |
| **AssetTag** | string | read-write (null) | The user assigned asset tag for this chassis. |
| **ChassisType** | string (enum) | read-only required | This property indicates the type of physical form factor of this resource.<br>*See ChassisType in Property Details, below, for the possible values of this property.* |
| **IndicatorLED** | string (enum) | read-write (null) | The state of the indicator LED, used to identify the chassis.<br>*See IndicatorLED in Property Details, below, for the possible values of this property.* |
| **Links** { | object | | Contains references to other resources that are related to this resource. |

| | | | |
|---|---|---|---|
| **ComputerSystems** [ { | array | read-only | An array of references to the computer systems contained in this chassis. This will only reference ComputerSystems that are directly and wholly contained in this chassis. |
| **@odata.id**<br>} ] | string | read-only | Link to a ComputerSystem resource. See the Links section and the ComputerSystem schema for details. |
| **ContainedBy** { | object | | A reference to the chassis that this chassis is contained by. |
| **@odata.id**<br>} | string | read-only | Link to another Chassis resource. |
| **Contains** [ { | array | read-only | An array of references to any other chassis that this chassis has in it. |
| **@odata.id**<br>} ] | string | read-only | Link to another Chassis resource. |
| **CooledBy** [ { | array | read-only | An array of ID[s] of resources that cool this chassis. Normally the ID will be a chassis or a specific set of fans. |
| **@odata.id**<br>} ] | string | read-only | The unique identifier for a resource. |
| **Drives** *(v1.2+)* [ { | array | read-only | An array of references to the disk drives located in this Chassis. |
| **@odata.id**<br>} ] | string | read-only | Link to a Drive resource. See the Links section and the Drive schema for details. |
| **ManagedBy** [ { | array | read-only | An array of references to the Managers responsible for managing this chassis. |
| **@odata.id**<br>} ] | string | read-only | Link to a Manager resource. See the Links section and the Manager schema for details. |
| **ManagersInChassis** *(v1.2+)* [ { | array | read-only | An array of references to the managers located in this Chassis. |
| **@odata.id**<br>} ] | string | read-only | Link to a Manager resource. See the Links section and the Manager schema for details. |
| **Oem** { } | object | | See the OEM object definition in the Common properties section. See the Resource schema for details on this property. |
| **PoweredBy** [ { | array | read-only | An array of ID[s] of resources that power this chassis. Normally the ID will be a chassis or a specific set of powerSupplies |
| **@odata.id**<br>} ] | string | read-only | The unique identifier for a resource. |
| **Storage** *(v1.2+)* [ { | array | read-only | An array of references to the storage subsystems connected to or inside this Chassis. |
| **@odata.id**<br>} ]<br>} | string | read-only | Link to a Storage resource. See the Links section and the Storage schema for details. |
| **Location** *(v1.2+)* { } | object | | See the v1_1_0.v1_1_0 schema for details on this property. |
| **LogServices** { | object | | A reference to the logs for this chassis. Contains a link to a resource. |

| | | | |
|---|---|---|---|
| **@odata.id**<br>} | string | read-only | Link to Collection of LogService. See the LogService schema for details. |
| **Manufacturer** | string | read-only (null) | This is the manufacturer of this chassis. |
| **Model** | string | read-only (null) | This is the model number for the chassis. |
| **PartNumber** | string | read-only (null) | The part number for this chassis. |
| **PhysicalSecurity** *(v1.1+)* { | object | | The state of the physical security sensor. |
| **IntrusionSensor** | string (enum) | read-write (null) | This indicates the known state of the physical security sensor, such as if it is hardware intrusion detected. *See IntrusionSensor in Property Details, below, for the possible values of this property.* |
| **IntrusionSensorNumber** | number | read-only (null) | A numerical identifier to represent the physical security sensor. |
| **IntrusionSensorReArm**<br>} | string (enum) | read-only (null) | This indicates how the Normal state to be restored. *See IntrusionSensorReArm in Property Details, below, for the possible values of this property.* |
| **Power** { | object | | A reference to the power properties (power supplies, power policies, sensors) for this chassis. See the Power schema for details on this property. |
| **@odata.id**<br>} | string | read-only | Link to a Power resource. See the Links section and the Power schema for details. |
| **PowerState** *(v1.1+)* | string (enum) | read-only (null) | This is the current power state of the chassis. *See PowerState in Property Details, below, for the possible values of this property.* |
| **SerialNumber** | string | read-only (null) | The serial number for this chassis. |
| **SKU** | string | read-only (null) | This is the SKU for this chassis. |
| **Status** { } | object | | See the Resource schema for details on this property. |
| **Thermal** { | object | | A reference to the thermal properties (fans, cooling, sensors) for this chassis. See the Thermal schema for details on this property. |
| **@odata.id**<br>} | string | read-only | Link to a Thermal resource. See the Links section and the Thermal schema for details. |

## Action Details

**Reset**

This action is used to reset the chassis. This action resets the chassis, not Systems or other contained resources, although side effects may occur which affect those resources.

(This action takes no parameters.)

## Property Details

**ChassisType:**

This property indicates the type of physical form factor of this resource.

| string | Description |
|---|---|
| Blade | An enclosed or semi-enclosed, typically vertically-oriented, system chassis which must be plugged into a multi-system chassis to function normally |
| Card | A loose device or circuit board intended to be installed in a system or other enclosure |
| Cartridge | A small self-contained system intended to be plugged into a multi-system chassis |
| Component | A small chassis, card, or device which contains devices for a particular subsystem or function |
| Drawer | An enclosed or semi-enclosed, typically horizontally-oriented, system chassis which may be slid into a multi-system chassis. |
| Enclosure | A generic term for a chassis that does not fit any other description |
| Expansion | A chassis which expands the capabilities or capacity of another chassis |
| IPBasedDrive *(v1.3+)* | A chassis in a drive form factor with IP-based network connections. |
| Module | A small, typically removable, chassis or card which contains devices for a particular subsystem or function |
| Other | A chassis that does not fit any of these definitions |
| Pod | A collection of equipment racks in a large, likely transportable, container |
| Rack | An equipment rack, typically a 19-inch wide freestanding unit |
| RackMount | A single system chassis designed specifically for mounting in an equipment rack |
| Row | A collection of equipment racks |
| Shelf | An enclosed or semi-enclosed, typically horizontally-oriented, system chassis which must be plugged into a multi-system chassis to function normally |
| Sidecar | A chassis that mates mechanically with another chassis to expand its capabilities or capacity |
| Sled | An enclosed or semi-enclosed, system chassis which must be plugged into a multi-system chassis to function normally similar to a blade type chassis. |
| StandAlone | A single, free-standing system, commonly called a tower or desktop chassis |
| Zone | A logical division or portion of a physical chassis that contains multiple devices or systems that cannot be physically separated |

**IndicatorLED:**

The state of the indicator LED, used to identify the chassis.

| string | Description |
|---|---|
| Blinking | The Indicator LED is blinking. |
| Lit | The Indicator LED is lit. |
| Off | The Indicator LED is off. |
| Unknown | The state of the Indicator LED cannot be determined. Deprecated: Return null if state is unknown. |

**IntrusionSensor:**

This indicates the known state of the physical security sensor, such as if it is hardware intrusion detected.

| string | Description |
|---|---|
| HardwareIntrusion | A door, lock, or other mechanism protecting the internal system hardware from being accessed is detected as being in an insecure state. |
| Normal | No abnormal physical security conditions are detected at this time. |
| TamperingDetected | Physical tampering of the monitored entity is detected. |

**IntrusionSensorReArm:**

This indicates how the Normal state to be restored.

| string | Description |
|---|---|
| Automatic | This sensor would be restored to the Normal state automatically as no abnormal physical security conditions are detected. |
| Manual | This sensor would be restored to the Normal state by a manual re-arm. |

**PowerState:**

This is the current power state of the chassis.

| string | Description |
|---|---|
| Off | The components within the chassis has no power, except some components may continue to have AUX power such as management controller. |
| On | The components within the chassis has power on. |
| PoweringOff | A temporary state between On and Off. The components within the chassis can take time to process the power off action. |
| PoweringOn | A temporary state between Off and On. The components within the chassis can take time to process the power on action. |

# ComputerSystem 1.2.0

This schema defines a computer system and its respective properties. A computer system represents a machine (physical or virtual) and the local resources such as memory, cpu and other devices that can be accessed from that machine.

| | | | |
|---|---|---|---|
| **Actions** { | object | | The available actions for this resource. |
| **#ComputerSystem.Reset** { }<br>} | object | | This action is used to reset the system.<br>*For more information, see the Action Details section below.* |
| **AssetTag** | string | read-write (null) | The user definable tag that can be used to track this computer system for inventory or other client purposes |
| **Bios** *(v1.1+)* { | object | | A reference to the BIOS settings associated with this system. See the Bios schema for details on this property. |
| **@odata.id**<br>} | string | read-only | Link to a Bios resource. See the Links section and the Bios schema for details. |
| **BiosVersion** | string | read-write (null) | The version of the system BIOS or primary system firmware. |

| | | | |
|---|---|---|---|
| **Boot** { | object | | Information about the boot settings for this system |
| **BootSourceOverrideEnabled** | string (enum) | read-write (null) | Describes the state of the Boot Source Override feature *See BootSourceOverrideEnabled in Property Details, below, for the possible values of this property.* |
| **BootSourceOverrideMode** *(v1.1+)* | string (enum) | read-write (null) | The BIOS Boot Mode (either Legacy or UEFI) to be used when BootSourceOverrideTarget boot source is booted from. *See BootSourceOverrideMode in Property Details, below, for the possible values of this property.* |
| **BootSourceOverrideTarget** | string (enum) | read-write (null) | The current boot source to be used at next boot instead of the normal boot device, if BootSourceOverrideEnabled is true. *See BootSourceOverrideTarget in Property Details, below, for the possible values of this property.* |
| **UefiTargetBootSourceOverride** } | string | read-write (null) | This property is the UEFI Device Path of the device to boot from when BootSourceOverrideSupported is UefiTarget. |
| **EthernetInterfaces** { | object | | A reference to the collection of Ethernet interfaces associated with this system Contains a link to a resource. |
| **@odata.id** } | string | read-only | Link to Collection of EthernetInterface. See the EthernetInterface schema for details. |
| **HostedServices** *(v1.2+)* { | object | | The services that this computer system supports. |
| **Oem** { } | object | | See the OEM object definition in the Common properties section. See the Resource schema for details on this property. |
| **StorageServices** } | | read-write | A reference to a collection of storage services supported by this computer system |
| **HostingRoles** *(v1.2+)* [ ] | array (string (enum)) | read-write | The hosing roles that this computer system supports. The enumerations of HostingRoles specify different features that the hosting ComputerSystem supports. *See HostingRoles in Property Details, below, for the possible values of this property.* |
| **HostName** | string | read-write (null) | The DNS Host Name, without any domain information |
| **IndicatorLED** | string (enum) | read-write (null) | The state of the indicator LED, used to identify the system *See IndicatorLED in Property Details, below, for the possible values of this property.* |
| **Links** { | object | | Contains references to other resources that are related to this resource. |
| **Chassis** [ { | array | read-only | An array of references to the chassis in which this system is contained |
| **@odata.id** } ] | string | read-only | Link to a Chassis resource. See the Links section and the Chassis schema for details. |
| **CooledBy** [ { | array | read-only | An array of ID[s] of resources that cool this computer system. Normally the ID will be a chassis or a specific |

| | | | |
|---|---|---|---|
| | | | set of fans. |
| **@odata.id**<br>} ] | string | read-only | The unique identifier for a resource. |
| **Endpoints** *(v1.2+)* [ { | array | read-only | An array of references to the endpoints that connect to this system. |
| **@odata.id**<br>} ] | string | read-only | Link to a Endpoint resource. See the Links section and the Endpoint schema for details. |
| **ManagedBy** [ { | array | read-only | An array of references to the Managers responsible for this system |
| **@odata.id**<br>} ] | string | read-only | Link to a Manager resource. See the Links section and the Manager schema for details. |
| **Oem** { } | object | | See the OEM object definition in the Common properties section. See the Resource schema for details on this property. |
| **PoweredBy** [ { | array | read-only | An array of ID[s] of resources that power this computer system. Normally the ID will be a chassis or a specific set of powerSupplies |
| **@odata.id**<br>} ]<br>} | string | read-only | The unique identifier for a resource. |
| **LogServices** { | object | | A reference to the collection of Log Services associated with this system Contains a link to a resource. |
| **@odata.id**<br>} | string | read-only | Link to Collection of LogService. See the LogService schema for details. |
| **Manufacturer** | string | read-only (null) | The manufacturer or OEM of this system. |
| **Memory** *(v1.1+)* { | object | | A reference to the collection of Memory associated with this system Contains a link to a resource. |
| **@odata.id**<br>} | string | read-only | Link to Collection of Memory. See the Memory schema for details. |
| **MemoryDomains** { | object | (null) | A reference to the collection of Memory Domains associated with this system. Contains a link to a resource. |
| **@odata.id**<br>} | string | read-only | Link to Collection of MemoryDomain. See the MemoryDomain schema for details. |
| **MemorySummary** { | object | | This object describes the central memory of the system in general detail. |
| **MemoryMirroring** *(v1.1+)* | string (enum) | read-only (null) | The ability and type of memory mirroring supported by this system.<br>*See MemoryMirroring in Property Details, below, for the possible values of this property.* |
| **Status** { } | object | | See the Resource schema for details on this property. |
| **TotalSystemMemoryGiB**<br>} | number | read-only (null) | The total installed, operating system-accessible memory (RAM), measured in GiB. |
| | | | |

| | | | |
|---|---|---|---|
| **Model** | string | read-only (null) | The model number for this system |
| **PartNumber** | string | read-only (null) | The part number for this system |
| **PCIeDevices** *(v1.2+)* [ { | array | read-only | A reference to a collection of PCIe Devices used by this computer system |
| **@odata.id**<br>} ] | string | read-only | Link to a PCIeDevice resource. See the Links section and the PCIeDevice schema for details. |
| **PCIeFunctions** *(v1.2+)* [ { | array | read-only | A reference to a collection of PCIe Functions used by this computer system |
| **@odata.id**<br>} ] | string | read-only | Link to a PCIeFunction resource. See the Links section and the PCIeFunction schema for details. |
| **PowerState** | string (enum) | read-only (null) | This is the current power state of the system<br>*See PowerState in Property Details, below, for the possible values of this property.* |
| **Processors** { | object | | A reference to the collection of Processors associated with this system Contains a link to a resource. |
| **@odata.id**<br>} | string | read-only | Link to Collection of Processor. See the Processor schema for details. |
| **ProcessorSummary** { | object | | This object describes the central processors of the system in general detail. |
| **Count** | number | read-only (null) | The number of processors in the system. |
| **Model** | string | read-only (null) | The processor model for the primary or majority of processors in this system. |
| **Status** { }<br>} | object | | See the Resource schema for details on this property. |
| **SecureBoot** *(v1.1+)* { | object | | A reference to the UEFI SecureBoot resource associated with this system. See the SecureBoot schema for details on this property. |
| **@odata.id**<br>} | string | read-only | Link to a SecureBoot resource. See the Links section and the SecureBoot schema for details. |
| **SerialNumber** | string | read-only (null) | The serial number for this system |
| **SimpleStorage** { | object | | A reference to the collection of storage devices associated with this system Contains a link to a resource. |
| **@odata.id**<br>} | string | read-only | Link to Collection of SimpleStorage. See the SimpleStorage schema for details. |
| **SKU** | string | read-only (null) | The manufacturer SKU for this system |
| **Status** { } | object | | See the Resource schema for details on this property. |
| **Storage** *(v1.1+)* { | object | | A reference to the collection of storage devices associated with this system Contains a link to a |

| | | | |
|---|---|---|---|
| | | | resource. |
| **@odata.id**<br>} | string | read-only | Link to Collection of Storage. See the Storage schema for details. |
| **SystemType** | string (enum) | read-only | The type of computer system represented by this resource.<br>*See SystemType in Property Details, below, for the possible values of this property.* |
| **TrustedModules** *(v1.1+)* [ { | array | read-write | This object describes the array of Trusted Modules in the system. |
| **FirmwareVersion** | string | read-only (null) | The firmware version of this Trusted Module |
| **InterfaceType** | string (enum) | read-only (null) | This property indicates the interface type of the Trusted Module.<br>*See InterfaceType in Property Details, below, for the possible values of this property.* |
| **Oem** { } | object | | See the OEM object definition in the Common properties section. See the Resource schema for details on this property. |
| **Status** { }<br>} ] | object | | See the Resource schema for details on this property. |
| **UUID** | string | read-only (null) | The universal unique identifier (UUID) for this system |

## Action Details

**Reset**

This action is used to reset the system.

(This action takes no parameters.)

## Property Details

**BootSourceOverrideEnabled:**

Describes the state of the Boot Source Override feature

| string | Description |
|---|---|
| Continuous | The system will boot to the target specified in the BootSourceOverrideTarget until this property is set to Disabled. |
| Disabled | The system will boot normally. |
| Once | On its next boot cycle, the system will boot (one time) to the Boot Source Override Target. The value of BootSourceOverrideEnabled is then reset back to Disabled. |

**BootSourceOverrideMode:**

The BIOS Boot Mode (either Legacy or UEFI) to be used when BootSourceOverrideTarget boot source is booted from.

| string | Description |
|---|---|
| Legacy | The system will boot in non-UEFI boot mode to the Boot Source Override Target. |
| UEFI | The system will boot in UEFI boot mode to the Boot Source Override Target. |

**BootSourceOverrideTarget:**

The current boot source to be used at next boot instead of the normal boot device, if BootSourceOverrideEnabled is true.

| string | Description |
|---|---|
| BiosSetup | Boot to the BIOS Setup Utility |
| Cd | Boot from the CD/DVD disc |
| Diags | Boot the manufacturer's Diagnostics program |
| Floppy | Boot from the floppy disk drive |
| Hdd | Boot from a hard drive |
| None | Boot from the normal boot device |
| Pxe | Boot from the Pre-Boot EXecution (PXE) environment |
| RemoteDrive *(v1.2+)* | Boot from a remote drive (e.g. iSCSI) |
| SDCard | Boot from an SD Card |
| UefiHttp | Boot from a UEFI HTTP network location |
| UefiShell | Boot to the UEFI Shell |
| UefiTarget | Boot to the UEFI Device specified in the UefiTargetBootSourceOverride property |
| Usb | Boot from a USB device as specified by the system BIOS |
| Utilities | Boot the manufacturer's Utilities program(s) |

**HostingRoles:**

The hosing roles that this computer system supports. The enumerations of HostingRoles specify different features that the hosting ComputerSystem supports.

| string | Description |
|---|---|
| ApplicationServer | The system hosts functionality that supports general purpose applications. |
| StorageServer | The system hosts functionality that supports the system acting as a storage server. |
| Switch | The system hosts functionality that supports the system acting as a switch. |

**IndicatorLED:**

The state of the indicator LED, used to identify the system

| string | Description |
|---|---|
| Blinking | The Indicator LED is blinking. |
| Lit | The Indicator LED is lit. |
| Off | The Indicator LED is off. |
| Unknown | The state of the Indicator LED cannot be determined. Deprecated: Return null if state is unknown. |

**InterfaceType:**

This property indicates the interface type of the Trusted Module.

| string | Description |
|---|---|
| TCM1_0 | Trusted Cryptography Module (TCM) 1.0 |
| TPM1_2 | Trusted Platform Module (TPM) 1.2 |
| TPM2_0 | Trusted Platform Module (TPM) 2.0 |

**MemoryMirroring:**

The ability and type of memory mirroring supported by this system.

| string | Description |
|---|---|
| DIMM | The system supports DIMM mirroring at the DIMM level. Individual DIMMs can be mirrored. |
| Hybrid | The system supports a hybrid mirroring at the system and DIMM levels. Individual DIMMs can be mirrored. |
| None | The system does not support DIMM mirroring. |
| System | The system supports DIMM mirroring at the System level. Individual DIMMs are not paired for mirroring in this mode. |

**PowerState:**

This is the current power state of the system

| string | Description |
|---|---|
| Off | The system is powered off, although some components may continue to have AUX power such as management controller. |
| On | The system is powered on. |
| PoweringOff | A temporary state between On and Off. The power off action can take time while the OS is in the shutdown process. |
| PoweringOn | A temporary state between Off and On. This temporary state can be very short. |

**SystemType:**

The type of computer system represented by this resource.

| string | Description |
|---|---|
| OS | An operating system instance |
| Physical | A computer system |
| PhysicallyPartitioned | A hardware-based partition of a computer system |
| Virtual | A virtual machine instance running on this system |
| VirtuallyPartitioned | A virtual or software-based partition of a computer system |

# Drive 1.1.0

Drive contains properties describing a single physical disk drive for any system, along with links to associated Volumes.

| | | | |
|---|---|---|---|
| **Actions** { | object | | The available actions for this resource. |
| | | | |

| | | | |
|---|---|---|---|
| **#Drive.SecureErase** { } } | object | | This action is used to securely erase the contents of the drive. *For more information, see the Action Details section below.* |
| **AssetTag** | string | read-write (null) | The user assigned asset tag for this drive. |
| **BlockSizeBytes** | number (bytes) | read-only (null) | The size of the smallest addressible unit (Block) of this drive in bytes |
| **CapableSpeedGbs** | number (Gbit/s) | read-only (null) | The speed which this drive can communicate to a storage controller in ideal conditions in Gigabits per second |
| **CapacityBytes** | number (bytes) | read-only (null) | The size in bytes of this Drive |
| **EncryptionAbility** | string (enum) | read-only (null) | The encryption abilities of this drive *See EncryptionAbility in Property Details, below, for the possible values of this property.* |
| **EncryptionStatus** | string (enum) | read-only (null) | The status of the encrytion of this drive *See EncryptionStatus in Property Details, below, for the possible values of this property.* |
| **FailurePredicted** | boolean | read-only (null) | Is this drive currently predicting a failure in the near future |
| **HotspareType** | string (enum) | read-only (null) | The type of hotspare this drive is currently serving as *See HotspareType in Property Details, below, for the possible values of this property.* |
| **Identifiers** [ { } ] | array (object) | | The Durable names for the drive See the v1_1_0.v1_1_0 schema for details on this property. |
| **IndicatorLED** | string (enum) | read-write (null) | The state of the indicator LED, used to identify the drive. *See IndicatorLED in Property Details, below, for the possible values of this property.* |
| **Links** { | object | | Contains references to other resources that are related to this resource. |
| **Endpoints** *(v1.1+)* [ { | array | read-only | An array of references to the endpoints that connect to this drive. |
| **@odata.id** } ] | string | read-only | Link to a Endpoint resource. See the Links section and the Endpoint schema for details. |
| **Oem** { } | object | | See the OEM object definition in the Common properties section. See the Resource schema for details on this property. |
| **Volumes** [ { | array | read-only | An array of references to the volumes contained in this drive. This will reference Volumes that are either wholly or only partly contained by this drive. |
| **@odata.id** } ] } | string | read-only | Link to a Volume resource. See the Links section and the Volume schema for details. |
| **Location** [ { } ] | array (object) | | The Location of the drive See the v1_1_0.v1_1_0 schema for details on this property. |
| **Manufacturer** | string | read-only (null) | This is the manufacturer of this drive. |
| **MediaType** | string | read-only | The type of media contained in this drive |

| | | | |
|---|---|---|---|
| | (enum) | (null) | *See MediaType in Property Details, below, for the possible values of this property.* |
| **Model** | string | read-only (null) | This is the model number for the drive. |
| **NegotiatedSpeedGbs** | number (Gbit/s) | read-only (null) | The speed which this drive is currently communicating to the storage controller in Gigabits per second |
| **Operations** [ { } ] | array (object) | | The operations currently running on the Drive See the Volume.v1_0_0 schema for details on this property. |
| **PartNumber** | string | read-only (null) | The part number for this drive. |
| **PredictedMediaLifeLeftPercent** | number | read-only (null) | The percentage of reads and writes that are predicted to still be available for the media |
| **Protocol** | string (enum) | read-only (null) | The protocol this drive is using to communicate to the storage controller<br>*See Protocol in Property Details, below, for the possible values of this property.* |
| **Revision** | string | read-only (null) | The revision of this Drive |
| **RotationSpeedRPM** | number (RPM) | read-only (null) | The rotation speed of this Drive in Revolutions per Minute (RPM) |
| **SerialNumber** | string | read-only (null) | The serial number for this drive. |
| **SKU** | string | read-only (null) | This is the SKU for this drive. |
| **Status** { } | object | | See the Resource schema for details on this property. |
| **StatusIndicator** | string (enum) | read-write (null) | The state of the status indicator, used to communicate status information about this drive.<br>*See StatusIndicator in Property Details, below, for the possible values of this property.* |

## Action Details

**SecureErase**

This action is used to securely erase the contents of the drive.

(This action takes no parameters.)

## Property Details

**EncryptionAbility:**

The encryption abilities of this drive

| string | Description |
|---|---|
| None | The drive is not capable of self encryption |
| Other | The drive is capable of self encryption through some other means |
| SelfEncryptingDrive | The drive is capable of self encryption per the Trusted Computing Group's Self Encrypting Drive Standard |

**EncryptionStatus:**

The status of the encrytion of this drive

| string | Description |
|---|---|
| Foreign | The drive is currently encrypted, the data is not accessible to the user, and the system requires user intervention to expose the data |
| Locked | The drive is currently encrypted and the data is not accessible to the user, however the system has the ability to unlock the drive automatically |
| Unecrypted | The drive is not currently encrypted. Deprecated: Use Unencrypted |
| Unencrypted *(v1.1+)* | The drive is not currently encrypted |
| Unlocked | The drive is currently encrypted but the data is accessible to the user unencrypted |

**HotspareType:**

The type of hotspare this drive is currently serving as

| string | Description |
|---|---|
| Chassis | The drive is currently serving as a hotspare for all other drives in the chassis |
| Dedicated | The drive is currently serving as a hotspare for a user defined set of drives |
| Global | The drive is currently serving as a hotspare for all other drives in the storage system |
| None | The drive is not currently a hotspare |

**IndicatorLED:**

The state of the indicator LED, used to identify the drive.

| string | Description |
|---|---|
| Blinking | The Indicator LED is blinking. |
| Lit | The Indicator LED is lit. |
| Off | The Indicator LED is off. |

**MediaType:**

The type of media contained in this drive

| string | Description |
|---|---|
| HDD | The drive media type is traditional magnetic platters |
| SMR | The drive media type is shingled magnetic recording |
| SSD | The drive media type is solid state or flash memory |

**Protocol:**

The protocol this drive is using to communicate to the storage controller

| string | Description |
|---|---|
| AHCI | Advanced Host Controller Interface |
| FC | Fibre Channel |