



**Redfish**

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# Redfish Resource and Schema Guide

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# Overview

The Redfish standard comprises a set of specifications maintained by the Redfish Forum, a working group within the DMTF. The standard defines a protocol that uses RESTful interfaces to provide access to data and operations associated with the management of systems and networks. One of the strengths of the Redfish protocol is that it works with a wide range of servers: from stand-alone servers to rack-mount and bladed environments to large-scale data centers and cloud environments.

The Redfish standard addresses several key issues for infrastructures that require scalability. Large infrastructures often consist of many simple servers of different makes and types. This hyper-scale usage model requires a new approach to systems management. The Redfish Scalable Platforms Management ("Redfish") protocol addresses these needs by providing a standard protocol based on out-of-band systems management.

With the above goals in mind, the Redfish protocol was designed as an open industry standard to meet scalability requirements in multi-vendor deployments. It easily integrates with commonly used tools, using RESTful interfaces to perform operations and using JSON and OData formats for data payloads.

## Historical Reference

This version of the Redfish Resource and Schema Guide was created to allow for historical comparison to previous releases of the Redfish Schema bundle (DSP8010). The latest version of this document, available from the Redfish Standards website, contains up-to-date schema contents, as well as common property definitions, example payloads, and additional material to explain the Redfish data model. This version of the document should only be used as a historical reference.

## Where can I find more information?

The following web sites provide more information about the Redfish standard:

- **Redfish Developer Hub:** <http://redfish.dmtf.org> Resources for developers building applications using Redfish. Contains an interactive schema explorer, hosted schema and other links.
- **Redfish User Forum:** <http://www.redfishforum.com> User forum monitored by DMTF Redfish personnel to answer questions about any Redfish-related topics.
- **DMTF Github Repositories:** <http://www.github.com/DMTF> Open source tools and libraries for working with the Redfish API.
- **Redfish Standards:** <http://www.dmtf.org/standards/redfish> Schemas, specs, mockups, white papers, FAQ, educational material and more.
- **DMTF Redfish Forum** (Working group that maintains the Redfish standard): <http://www.dmtf.org/standards/spmf> Companies involved, upcoming schedules and future work, charter, and information about joining.

# Using this guide

Every Redfish API response consists of a JSON payload containing properties that are strictly defined by a schema for that resource. The schema defining a particular resource can be determined from the value of the "@odata.type" property returned in every Redfish response. This guide details the definitions for every Redfish standard schema.

Each schema section contains:

- The name, version and description of the schema.
- A table defining each property with additional details for those properties when needed.
- A listing of the available Actions defined for the schema.

The property-level details include:

Column	Purpose
Property Name	The name of the JSON property as it will appear (case sensitive) in the JSON payload. For properties added to the schema after the initial release (v1.0.0), the version that the property was added will be shown in parenthesis. Properties that have been deprecated will also be indicated (along with the version where the deprecation occurred).
Type	The JSON data type(s) for the property. This can include boolean, number, string or object. String types that use defined enumerations will state "(enum)". Number types will state their units where used.
Attributes	Designates whether the property is read-only or read-write (if supported by the implementation), and whether a 'null' value may be returned by the Service if the value of the property is temporarily unavailable.
Description	The description of the property, as copied directly from the schema 'Description' definition.

# Reference Guide

This guide was produced using the contents of the schema files from DMTF Redfish Schema bundle DSP8010 and merged with supplemental text using the DMTF's [Redfish Documentation Generator](#).

## AccountService 1.2.1

Account Service contains properties common to all user accounts, such as password requirements, and control features such as account lockout. It also contains links to the collections of Manager Accounts and Roles.

<b>AccountLockoutCounterResetAfter</b>	number (seconds)	read-write	The interval of time in seconds since the last failed login attempt at which point the lockout threshold counter for the account is reset to zero. Must be less than or equal to AccountLockoutDuration.
<b>AccountLockoutDuration</b>	number (seconds)	read-write (null)	The time in seconds an account is locked after the account lockout threshold is met. Must be >= AccountLockoutResetAfter. If set to 0, no lockout will occur.
<b>AccountLockoutThreshold</b>	number	read-write (null)	The number of failed login attempts before a user account is locked for a specified duration (0=never locked).
<b>Accounts {</b>	object		Link to a collection of Manager Accounts.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>Actions (v1.2+) {}</b>	object		The available actions for this resource.
<b>AuthFailureLoggingThreshold</b>	number	read-write	This is the number of authorization failures that need to occur before the failure attempt is logged to the manager log.
<b>MaxPasswordLength</b>	number	read-only	This is the maximum password length for this service.
<b>MinPasswordLength</b>	number	read-only	This is the minimum password length for this service.
<b>PrivilegeMap {</b>	object		A reference to the Privilege mapping defining the privileges needed to perform a requested operation on a URI associated with this service.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>Roles {</b>	object		Link to a collection of Roles.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>ServiceEnabled</b>	boolean	read-write (null)	This indicates whether this service is enabled. If this is set to false, the AccountService is disabled. This means no users can be created, deleted or modified. Any service attempting to access the Account Service, like the Session Service, will fail accessing. Thus new sessions cannot be started with the service disabled (though established sessions may still continue operating). Note: this does not affect Basic AUTH connections.
<b>Status { }</b>	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.

## ActionInfo 1.0.2

ActionInfo describes the parameters and other information necessary to perform a Redfish Action to a particular Action target. As parameter support may differ between implementations and even among instances of a resource, this data can be used to ensure Action requests from applications contain supported parameters.

<b>Parameters [ {</b>	array	read-write	The parameters associated with the specified Redfish Action.
<b>AllowableValues [ ]</b>	array	read-only	A list of values for this parameter supported by this Action target.

	(string, null)		
<b>DataType</b>	string (enum)	read-only (null)	The JSON property type used for this parameter. See <a href="#">DataType</a> in Property Details, below, for the possible values of this property.
<b>Name</b>	string	read-only	The name of the parameter for this Action.
<b>ObjectDataType</b>	string	read-only (null)	The OData Type of an object-based parameter.
<b>Required</b> }]	boolean	read-only	Indicates whether the parameter is required to perform this Action.

## Property Details

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### DataType:

The JSON property type used for this parameter.

string	Description
Boolean	A boolean (true or false).
Number	A number.
NumberArray	An array of numbers.
Object	An embedded JSON object.
ObjectArray	An array of JSON objects.
String	A string.
StringArray	An array of strings.

## AttributeRegistry 1.1.0

An Attribute Registry is a set of key-value pairs which are specific to a particular implementation or product, such that creating standardized property names would be impractical. This schema describes the structure of a Registry, and also includes mechanisms for building user interfaces (menus) allowing consistent navigation of the contents.

<b>Actions (v1.1+){}</b>	object		The available actions for this resource.
<b>Language</b>	string	read-only required	This is the RFC 5646 compliant language code for the registry.
<b>OwningEntity</b>	string	read-only required	This is the organization or company that publishes this registry.
<b>RegistryEntries {</b>	object		List of all attributes and their metadata for this component.
<b>Attributes [ {</b>	array	read-write	The array containing the attributes and their possible values.
<b>AttributeName</b>	string	read-only	The unique name of the attribute.
<b>CurrentValue</b>	string, boolean, number	read-only (null)	Placeholder of the current value of the attribute.
<b>DefaultValue</b>	string, boolean, number	read-only (null)	The default current value of the attribute.
<b>DisplayName</b>	string	read-only (null)	The user-readable display string of the attribute in the defined 'Language'.
<b>DisplayOrder</b>	number	read-only (null)	The numeric value describing the ascending order that the attribute is displayed relative to other attributes.
<b>GrayOut</b>	boolean	read-only	The gray-out state of this attribute.

		(null)	
<b>HelpText</b>	string	read-only (null)	The help text for the attribute.
<b>Hidden</b>	boolean	read-only (null)	The hidden state of this attribute.
<b>Immutable</b>	boolean	read-only (null)	Defines whether this attribute is immutable or not.
<b>IsSystemUniqueProperty</b>	boolean	read-only (null)	Defines whether this attribute is unique for this system and should not be replicated.
<b>LowerBound</b>	number	read-only (null)	The lower limit of the value of an attribute of type 'Integer'.
<b>MaxLength</b>	number	read-only (null)	The maximum character length of the value of an attribute of type 'String'.
<b>MenuPath</b>	string	read-only (null)	A path that describes the menu hierarchy of this attribute.
<b>MinLength</b>	number	read-only (null)	The minimum character length of the value of an attribute of type 'String'.
<b>ReadOnly</b>	boolean	read-only (null)	The read-only state of this attribute.
<b>ScalarIncrement</b>	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.
<b>Type</b>	string (enum)	read-only	The type of the attribute. See <a href="#">Type</a> in Property Details, below, for the possible values of this property.
<b>UpperBound</b>	number	read-only (null)	The upper limit of the value of an attribute of type 'Integer'.
<b>Value [ {</b>	array	read-write	The array containing possible values for attributes of type 'Enumeration'.
<b>  ValueDisplayName</b>	string	read-only (null)	A user-readable display string of the value of the attribute in the defined 'Language'.
<b>  ValueName</b>	string	read-only (null)	The value name of the attribute.
<b>} ]</b>			
<b>ValueExpression</b>	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'.
<b>WarningText</b>	string	read-only (null)	The warning text for changing the attribute.
<b>WriteOnly</b>	boolean	read-only (null)	Defines whether this attribute is write-only. Such attributes revert back to their initial value after settings are applied.
<b>Dependencies [ {</b>	array	read-write	The array containing a list of dependencies of attributes on this component.
<b>  Dependency {</b>	object		The dependency expression for one or more Attributes in this Attribute Registry.
<b>} ]</b>			
<b>MapFrom [ {</b>	array	read-write	Array of the map-from conditions for mapping dependency.
<b>  MapFromAttribute</b>	string	read-only	The attribute that is used to evaluate this dependency expression.
<b>  MapFromCondition</b>	string (enum)	read-only	The condition that is used to evaluate this dependency expression. See <a href="#">MapFromCondition</a> in Property Details, below, for the possible values of this property.
<b>} ]</b>			
<b>MapFromProperty</b>	string (enum)	read-only	The meta-data property of the attribute specified in MapFromAttribute that is used to evaluate this dependency expression. See <a href="#">MapFromProperty</a> in Property Details, below, for the possible values of this property.

			<i>values of this property.</i>
<b>MapFromValue</b>	string, boolean, number	read-only (null)	The value that the is used property specified in MapFromProperty that is used to evaluate this dependency expression.
<b>MapTerms</b> }]	string (enum)	read-only	The logical term used to combine two or more MapFrom conditions in this dependency expression. See <a href="#">MapTerms</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>MapToAttribute</b>	string	read-only	The Name of the attribute that is affected by this dependency expression.
<b>MapToProperty</b>	string (enum)	read-only	The meta-data property of the attribute specified in MapFromAttribute that is used to evaluate this dependency expression. See <a href="#">MapToProperty</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>MapToValue</b> }	string, boolean, number	read-only (null)	The value that MapToProperty is changed to if the dependency expression evaluates to true.
<b>DependencyFor</b>	string	read-only	The AttributeName of the attribute whose change triggers the evaluation of this dependency expression.
<b>Type</b> }]	string (enum)	read-only	The type of the dependency structure. See <a href="#">Type</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>Menus</b> [ {	array	read-write	The array containing the attributes menus and their hierarchy.
<b>DisplayName</b>	string	read-only (null)	The user-readable display string of this menu in the defined 'Language'.
<b>DisplayOrder</b>	number	read-only (null)	The numeric value describing the ascending order in which this menu is displayed relative to other menus.
<b>GrayOut</b>	boolean	read-only (null)	The gray-out state of this menu. A grayed-only menu is not accessible in user interfaces.
<b>MenuName</b>	string	read-only	The unique name string of this menu.
<b>MenuPath</b>	string	read-only (null)	A path that describes this menu hierarchy relative to other menus.
<b>ReadOnly</b> }]	boolean	read-only (null)	The read-only state of this menu.
<b>RegistryVersion</b>	string	read-only required	This is the attribute registry version which is used in the middle portion of a AttributeRegistry.
<b>SupportedSystems</b> [ {	array	read-write	Array of systems supported by this attribute registry.
<b>FirmwareVersion</b> (v1.1+)	string	read-only (null)	Firmware version.
<b>ProductName</b>	string	read-only (null)	The product name of the system.
<b>SystemId</b> }]	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 1.0.2

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. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
#Bios.ResetBios {}	object		This action is used to reset the BIOS attributes to default. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
AttributeRegistry	string	read-only (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

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**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 1.5.1

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 {}	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. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
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. See <a href="#">ChassisType</a> in Property Details, below, for the possible values of this property.

<b>DepthMm (v1.4+)</b>	number (mm)	read-only (null)	The depth of the chassis.
<b>HeightMm (v1.4+)</b>	number (mm)	read-only (null)	The height of the chassis.
<b>IndicatorLED</b>	string (enum)	read-write (null)	The state of the indicator LED, used to identify the chassis. See <a href="#">IndicatorLED</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>Links {</b>	object		Contains references to other resources that are related to this resource.
<b>ComputerSystems [ {</b>	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.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>ContainedBy {</b>	object		A reference to the chassis that this chassis is contained by.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>Contains [ {</b>	array	read-only	An array of references to any other chassis that this chassis has in it.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>CooledBy [ {</b>	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.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>Drives (v1.2+) [ {</b>	array	read-only	An array of references to the disk drives located in this Chassis.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>ManagedBy [ {</b>	array	read-only	An array of references to the Managers responsible for managing this chassis.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>ManagersInChassis (v1.2+) [ {</b>	array	read-only	An array of references to the managers located in this Chassis.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>PCIeDevices (v1.4+) [ {</b>	array	read-only	An array of references to the PCIe Devices located in this Chassis.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>PoweredBy [ {</b>	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 Power Supplies.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>ResourceBlocks (v1.5+) [ {</b>	array	read-only	An array of references to the Resource Blocks located in this Chassis.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>Storage (v1.2+) [ {</b>	array	read-only	An array of references to the storage subsystems connected to or inside this Chassis.

<b>@odata.id</b> }] }	string	read-only	The unique identifier for a resource.
<b>Location (v1.2+)</b> { }	object		See the <a href="https://redfish.dmtf.org/schemas/v1/Resource.v1_1_0.json">redfish.dmtf.org/schemas/v1/Resource.v1_1_0.json</a> schema for details on this property.
<b>LogServices {</b>	object		A reference to the logs for this chassis.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>Manufacturer</b>	string	read-only (null)	This is the manufacturer of this chassis.
<b>Model</b>	string	read-only (null)	This is the model number for the chassis.
<b>NetworkAdapters {</b>	object		A reference to the collection of Network Adapters associated with this chassis.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>PartNumber</b>	string	read-only (null)	The part number for this chassis.
<b>PhysicalSecurity (v1.1+)</b> { }	object		The state of the physical security sensor.
<b>IntrusionSensor</b>	string (enum)	read-write (null)	This indicates the known state of the physical security sensor, such as if it is hardware intrusion detected. See <a href="#">IntrusionSensor</a> in Property Details, below, for the possible values of this property.
<b>IntrusionSensorNumber</b>	number	read-only (null)	A numerical identifier to represent the physical security sensor.
<b>IntrusionSensorReArm</b> }	string (enum)	read-only (null)	This indicates how the Normal state to be restored. See <a href="#">IntrusionSensorReArm</a> in Property Details, below, for the possible values of this property.
<b>Power {</b>	object		A reference to the power properties (power supplies, power policies, sensors) for this chassis.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>PowerState (v1.1+)</b>	string (enum)	read-only (null)	This is the current power state of the chassis. See <a href="#">PowerState</a> in Property Details, below, for the possible values of this property.
<b>SerialNumber</b>	string	read-only (null)	The serial number for this chassis.
<b>SKU</b>	string	read-only (null)	This is the SKU for this chassis.
<b>Status { }</b>	object		This type describes the status and health of a resource and its children. See the <a href="https://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Thermal {</b>	object		A reference to the thermal properties (fans, cooling, sensors) for this chassis.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>WeightKg (v1.4+)</b>	number (kg)	read-only (null)	The weight of the chassis.
<b>WidthMm (v1.4+)</b>	number (mm)	read-only (null)	The width of the chassis.

## 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

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### 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.
RackGroup (v1.4+)	A group of racks which form a single entity or share infrastructure.
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 (deprecated v1.5)	The state of the Indicator LED cannot be determined. <i>Deprecated v1.5+. This value has been Deprecated in favor of returning null if the state is unknown.</i>
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**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.

## CompositionService 1.0.0

This is the schema definition for the Composition Service. It represents the properties for the service itself and has links to the actual list of resources available for composition.

<b>Actions { }</b>	object		The available actions for this resource.
<b>ResourceBlocks { }</b>	object		The resource blocks available on the service.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>ResourceZones { }</b>	object		The resource zones available on the service.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>ServiceEnabled</b>	boolean	read-write (null)	This indicates whether this service is enabled.
<b>Status { }</b>	object		This type describes the status and health of a resource and its children. See the <a href="http://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.

## ComputerSystem 1.4.1

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.

<b>Actions {</b>	object		The available actions for this resource.
<b>#ComputerSystem.Reset { }</b>	object		This action is used to reset the system. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
<b>AssetTag</b>	string	read-write (null)	The user definable tag that can be used to track this computer system for inventory or other client purposes.
<b>Bios {</b>	object		A reference to the BIOS settings associated with this system.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>BiosVersion</b>	string	read-only (null)	The version of the system BIOS or primary system firmware.
<b>Boot {</b>	object		Information about the boot settings for this system.
<b>BootSourceOverrideEnabled</b>	string (enum)	read-write (null)	Describes the state of the Boot Source Override feature. <i>See <a href="#">BootSourceOverrideEnabled</a> in Property Details, below, for the possible values of this property.</i>
<b>BootSourceOverrideMode (v1.1+)</b>	string (enum)	read-write (null)	The BIOS Boot Mode (either Legacy or UEFI) to be used when BootSourceOverrideTarget boot source is booted from. <i>See <a href="#">BootSourceOverrideMode</a> in Property Details, below, for the possible values of this property.</i>
<b>BootSourceOverrideTarget</b>	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. <i>See <a href="#">BootSourceOverrideTarget</a> in Property Details, below, for the possible values of this property.</i>
<b>UefiTargtBootSourceOverride</b>	string	read-write (null)	This property is the UEFI Device Path of the device to boot from when BootSourceOverrideSupported is UefiTgt.
<b>EthernetInterfaces {</b>	object		A reference to the collection of Ethernet interfaces associated with this system.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>HostedServices (v1.2+) {</b>	object		The services that this computer system supports.
<b>Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>StorageServices</b>		read-only	A reference to a collection of storage services supported by this computer system.
<b>HostingRoles (v1.2+) [ ]</b>	array (string (enum))	read-only	The hosting roles that this computer system supports. The enumerations of HostingRoles specify different features that the hosting ComputerSystem supports. <i>See <a href="#">HostingRoles</a> in Property Details, below, for the possible values of this property.</i>
<b>HostName</b>	string	read-write (null)	The DNS Host Name, without any domain information.
<b>IndicatorLED</b>	string (enum)	read-write (null)	The state of the indicator LED, used to identify the system. <i>See <a href="#">IndicatorLED</a> in Property Details, below, for the possible values of this property.</i>
<b>Links {</b>	object		Contains references to other resources that are related to this resource.
<b>Chassis [ {</b>	array	read-only	An array of references to the chassis in which this system is contained.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.

}]				
<b>CooledBy</b> [ {	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 }]	string	read-only	The unique identifier for a resource.	
<b>Endpoints</b> (v1.2+) [ {	array	read-only	An array of references to the endpoints that connect to this system.	
@odata.id }]	string	read-only	The unique identifier for a resource.	
<b>ManagedBy</b> [ {	array	read-only	An array of references to the Managers responsible for this system.	
@odata.id }]	string	read-only	The unique identifier for a resource.	
<b>Oem</b> { }	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="http://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.	
<b>PoweredBy</b> [ {	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 Power Supplies.	
@odata.id }]	string	read-only	The unique identifier for a resource.	
<b>ResourceBlocks</b> (v1.4+) [ {	array	read-write	An array of references to the Resource Blocks that are used in this Computer System.	
@odata.id }]	string	read-only	The unique identifier for a resource.	
<b>LogServices</b> { }	object		A reference to the collection of Log Services associated with this system.	
@odata.id }	string	read-only	The unique identifier for a resource.	
<b>Manufacturer</b>	string	read-only (null)	The manufacturer or OEM of this system.	
<b>Memory</b> { }	object		A reference to the collection of Memory associated with this system.	
@odata.id }	string	read-only	The unique identifier for a resource.	
<b>MemoryDomains</b> { }	object	(null)	A reference to the collection of Memory Domains associated with this system.	
@odata.id }	string	read-only	The unique identifier for a resource.	
<b>MemorySummary</b> { }	object		This object describes the central memory of the system in general detail.	
<b>MemoryMirroring</b> (v1.1+)	string (enum)	read-only (null)	The ability and type of memory mirroring supported by this system. See <a href="#">MemoryMirroring</a> in Property Details, below, for the possible values of this property.	
<b>Status</b> {}	object		This type describes the status and health of a resource and its children. See the <a href="http://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.	
<b>TotalSystemMemoryGiB</b>	number	read-only (null)	The total configured operating system-accessible memory (RAM), measured in GiB.	

<b>TotalSystemPersistentMemoryGiB (v1.4+)</b>	number	read-only (null)	The total configured, system-accessible persistent memory, measured in GiB.
<b>Model</b>	string	read-only (null)	The model number for this system.
<b>NetworkInterfaces {</b>	object		A reference to the collection of Network Interfaces associated with this system.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>PartNumber</b>	string	read-only (null)	The part number for this system.
<b>PCIeDevices (v1.2+)[] {</b>	array	read-only	A reference to a collection of PCIe Devices used by this computer system.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>PCIeFunctions (v1.2+)[] {</b>	array	read-only	A reference to a collection of PCIe Functions used by this computer system.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>PowerState</b>	string (enum)	read-only (null)	This is the current power state of the system. See <a href="#">PowerState</a> in Property Details, below, for the possible values of this property.
<b>Processors {</b>	object		A reference to the collection of Processors associated with this system.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>ProcessorSummary {</b>	object		This object describes the central processors of the system in general detail.
<b>Count</b>	number	read-only (null)	The number of processors in the system.
<b>Model</b>	string	read-only (null)	The processor model for the primary or majority of processors in this system.
<b>Status {}</b>	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>SecureBoot {</b>	object		A reference to the UEFI SecureBoot resource associated with this system.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>SerialNumber</b>	string	read-only (null)	The serial number for this system.
<b>SimpleStorage {</b>	object		A reference to the collection of storage devices associated with this system.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>SKU</b>	string	read-only (null)	The manufacturer SKU for this system.
<b>Status {}</b>	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Storage {</b>	object		A reference to the collection of storage devices associated with

				this system.
<b>@odata.id</b>	string	read-only		The unique identifier for a resource.
<b>SystemType</b>	string (enum)	read-only		The type of computer system represented by this resource. See <a href="#">SystemType</a> in Property Details, below, for the possible values of this property.
<b>TrustedModules (v1.1+)</b> [ {	array	read-write		This object describes the array of Trusted Modules in the system.
<b>FirmwareVersion</b>	string	read-only (null)		The firmware version of this Trusted Module.
<b>FirmwareVersion2 (v1.3+)</b>	string	read-only (null)		The 2nd firmware version of this Trusted Module, if applicable.
<b>InterfaceType</b>	string (enum)	read-only (null)		This property indicates the interface type of the Trusted Module. See <a href="#">InterfaceType</a> in Property Details, below, for the possible values of this property.
<b>InterfaceTypeSelection (v1.3+)</b>	string (enum)	read-only (null)		The Interface Type selection supported by this Trusted Module. See <a href="#">InterfaceTypeSelection</a> in Property Details, below, for the possible values of this property.
<b>Oem {}</b>	object			See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Status {}</b>	object			This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>UUID</b>	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 hosting 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 (deprecated v1.4)	The state of the Indicator LED cannot be determined. <i>Deprecated v1.4+. This value has been Deprecated in favor of returning null if the state is unknown.</i>

**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.

**InterfaceTypeSelection:**

The Interface Type selection supported by this Trusted Module.

string	Description

BiosSetting	The TrustedModule supports switching InterfaceType via platform software, such as a BIOS configuration Attribute.
FirmwareUpdate	The TrustedModule supports switching InterfaceType via a firmware update.
None	The TrustedModule does not support switching the InterfaceType.
OemMethod	The TrustedModule supports switching InterfaceType via an OEM proprietary mechanism.

**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
Composed (v1.4+)	A computer system that has been created by binding resource blocks together.
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 1.2.0

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

<b>Actions {</b>	object		The available actions for this resource.
<b>#Drive.SecureErase { }</b>	object		This action is used to securely erase the contents of the drive. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
<b>AssetTag</b>	string	read-write (null)	The user assigned asset tag for this drive.
<b>BlockSizeBytes</b>	number	read-only	The size of the smallest addressable unit (Block) of this drive in bytes.

	(bytes)	(null)	
<b>CapableSpeedGbs</b>	number (Gbit/s)	read-only (null)	The speed which this drive can communicate to a storage controller in ideal conditions in Gigabits per second.
<b>CapacityBytes</b>	number (bytes)	read-only (null)	The size in bytes of this Drive.
<b>EncryptionAbility</b>	string (enum)	read-only (null)	The encryption abilities of this drive. See <a href="#">EncryptionAbility</a> in Property Details, below, for the possible values of this property.
<b>EncryptionStatus</b>	string (enum)	read-only (null)	The status of the encryption of this drive. See <a href="#">EncryptionStatus</a> in Property Details, below, for the possible values of this property.
<b>FailurePredicted</b>	boolean	read-only (null)	Is this drive currently predicting a failure in the near future.
<b>HotspareType</b>	string (enum)	read-only (null)	The type of hotspare this drive is currently serving as. See <a href="#">HotspareType</a> in Property Details, below, for the possible values of this property.
<b>Identifiers [ {} ]</b>	array (object)		The Durable names for the drive. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.v1_1_0.json</a> schema for details on this property.
<b>IndicatorLED</b>	string (enum)	read-write (null)	The state of the indicator LED, used to identify the drive. See <a href="#">IndicatorLED</a> in Property Details, below, for the possible values of this property.
<b>Links {</b>	object		Contains references to other resources that are related to this resource.
<b>Chassis (v1.2+) {</b>	object		A reference to the Chassis which contains this Drive.
<b>    @odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>Endpoints (v1.1+) [ {</b>	array	read-only	An array of references to the endpoints that connect to this drive.
<b>    @odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Volumes [ {</b>	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.
<b>    @odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>Location [ {} ]</b>	array (object)		The Location of the drive. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.v1_1_0.json</a> schema for details on this property.
<b>Manufacturer</b>	string	read-only (null)	This is the manufacturer of this drive.
<b>MediaType</b>	string (enum)	read-only (null)	The type of media contained in this drive. See <a href="#">MediaType</a> in Property Details, below, for the possible values of this property.
<b>Model</b>	string	read-only (null)	This is the model number for the drive.
<b>NegotiatedSpeedGbs</b>	number (Gbit/s)	read-only (null)	The speed which this drive is currently communicating to the storage controller in Gigabits per second.
<b>Operations [ {} ]</b>	array (object)		The operations currently running on the Drive. See the <a href="#">redfish.dmtf.org/schemas/v1/Volume.v1_0_0.json</a> schema for details on this property.

<b>PartNumber</b>	string	read-only (null)	The part number for this drive.
<b>PredictedMediaLifeLeftPercent</b>	number	read-only (null)	The percentage of reads and writes that are predicted to still be available for the media.
<b>Protocol</b>	string (enum)	read-only (null)	The protocol this drive is using to communicate to the storage controller. See <a href="#">Protocol</a> in Property Details, below, for the possible values of this property.
<b>Revision</b>	string	read-only (null)	The revision of this Drive. This is typically the firmware/hardware version of the drive.
<b>RotationSpeedRPM</b>	number (RPM)	read-only (null)	The rotation speed of this Drive in Revolutions per Minute (RPM).
<b>SerialNumber</b>	string	read-only (null)	The serial number for this drive.
<b>SKU</b>	string	read-only (null)	This is the SKU for this drive.
<b>Status { }</b>	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>StatusIndicator</b>	string (enum)	read-write (null)	The state of the status indicator, used to communicate status information about this drive. See <a href="#">StatusIndicator</a> in Property Details, below, for the possible values of this property.

## Action Details

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### SecureErase

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

(This action takes no parameters.)

## Property Details

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### 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 encryption 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.
Unencrypted (deprecated v1.2)	The drive is not currently encrypted. <i>Deprecated v1.2+. This value has been Deprecated in favor of Unencrypted.</i>
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
FCoE	Fibre Channel over Ethernet
FTP	File Transfer Protocol
HTTP	Hypertext Transport Protocol
HTTPS	Secure Hypertext Transport Protocol
iSCSI	Internet SCSI
NFSv3	Network File System version 3
NFSv4	Network File System version 4
NVMe	Non-Volatile Memory Express
NVMeOverFabrics	NVMe over Fabrics
PCIe	PCI Express (Vendor Proprietary)
SAS	Serial Attached SCSI
SATA	Serial AT Attachment
SFTP	Secure File Transfer Protocol
SMB	Server Message Block (aka CIFS Common Internet File System)
UHCI	Universal Host Controller Interface

USB

Universal Serial Bus

**StatusIndicator:**

The state of the status indicator, used to communicate status information about this drive.

string	Description
Fail	The drive has failed.
Hotspare	The drive is marked to be automatically rebuilt and used as a replacement for a failed drive.
InACriticalArray	The array that this drive is a part of is degraded.
InAFailedArray	The array that this drive is a part of is failed.
OK	The drive is OK.
PredictiveFailureAnalysis	The drive is still working but predicted to fail soon.
Rebuild	The drive is being rebuilt.

## Endpoint 1.0.2

This is the schema definition for the Endpoint resource. It represents the properties of an entity that sends or receives protocol defined messages over a transport.

<b>Actions { }</b>	object		The Actions object contains the available custom actions on this resource.
<b>ConnectedEntities [ {</b>	array	read-write	All the entities connected to this endpoint.
<b>EntityLink</b>		read-only (null)	A link to the associated entity.
<b>EntityPcid {</b>	object	(null)	The PCI ID of the connected entity.
<b>DeviceId</b>	string	read-only (null)	The Device ID of this PCIe function.
<b>SubsystemId</b>	string	read-only (null)	The Subsystem ID of this PCIe function.
<b>SubsystemVendorId</b>	string	read-only (null)	The Subsystem Vendor ID of this PCIe function.
<b>VendorId</b> }	string	read-only (null)	The Vendor ID of this PCIe function.
<b>EntityRole</b>	string (enum)	read-only (null)	The role of the connected entity. <i>See <a href="#">EntityRole</a> in Property Details, below, for the possible values of this property.</i>
<b>EntityType</b>	string (enum)	read-only (null)	The type of the connected entity. <i>See <a href="#">EntityType</a> in Property Details, below, for the possible values of this property.</i>
<b>Identifiers [ { } ]</b>	array (object)	(null)	Identifiers for the remote entity. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.v1_1_0.json</a> schema for details on this property.
<b>Oem { }</b>	object	(null)	See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>PciClassCode</b>	string	read-only (null)	The Class Code, Subclass code, and Programming Interface code of this PCIe function.
<b>PciFunctionNumber</b> }]	number	read-only (null)	The PCI ID of the connected entity.
<b>EndpointProtocol</b>	string (enum)	read-only (null)	The protocol supported by this endpoint. <i>See <a href="#">EndpointProtocol</a> in Property Details, below, for the possible values of this property.</i>

			<i>this property.</i>
<b>HostReservationMemoryBytes</b>	number (bytes)	read-only (null)	The amount of memory in Bytes that the Host should allocate to connect to this endpoint.
<b>Identifiers [ {} ]</b>	array (object)	(null)	Identifiers for this endpoint. See the <a href="https://redfish.dmtf.org/schemas/v1/Resource.v1_1_0.json">redfish.dmtf.org/schemas/v1/Resource.v1_1_0.json</a> schema for details on this property.
<b>Links {</b>	object		The links object contains the links to other resources that are related to this resource.
<b>MutuallyExclusiveEndpoints [ {} ]</b>	array	read-only	An array of references to the endpoints that may not be used in zones if this endpoint is used in a zone.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Oem {}</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="https://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Ports [ {} ]</b>	array	read-only	An array of references to the physical ports associated with this endpoint.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>PcId {</b>	object	(null)	The PCI ID of the endpoint.
<b>DeviceId</b>	string	read-only (null)	The Device ID of this PCIe function.
<b>SubsystemId</b>	string	read-only (null)	The Subsystem ID of this PCIe function.
<b>SubsystemVendorId</b>	string	read-only (null)	The Subsystem Vendor ID of this PCIe function.
<b>VendorId</b>	string	read-only (null)	The Vendor ID of this PCIe function.
<b>Redundancy [ {} ]</b>	array	read-write	Redundancy information for the lower level endpoints supporting this endpoint.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Status {}</b>	object	(null)	This type describes the status and health of a resource and its children. See the <a href="https://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.

## Property Details

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### EndpointProtocol:

The protocol supported by this endpoint.

string	Description
AHCI	Advanced Host Controller Interface
FC	Fibre Channel
FCoE	Fibre Channel over Ethernet
FTP	File Transfer Protocol
HTTP	Hypertext Transport Protocol
HTTPS	Secure Hypertext Transport Protocol
iSCSI	Internet SCSI

NFSv3	Network File System version 3
NFSv4	Network File System version 4
NVMe	Non-Volatile Memory Express
NVMeOverFabrics	NVMe over Fabrics
PCIe	PCI Express (Vendor Proprietary)
SAS	Serial Attached SCSI
SATA	Serial AT Attachment
SFTP	Secure File Transfer Protocol
SMB	Server Message Block (aka CIFS Common Internet File System)
UHCI	Universal Host Controller Interface
USB	Universal Serial Bus

**EntityRole:**

The role of the connected entity.

string	Description
Both	The entity is acting as both an initiator and a target.
Initiator	The entity is acting as an initiator.
Target	The entity is acting as a target.

**EntityType:**

The type of the connected entity.

string	Description
Bridge	The entity is a PCI(e) bridge.
DisplayController	The entity is a display controller.
Drive	The entity is a disk drive. The EntityLink property (if present) should be a Drive.Drive entity.
NetworkController	The entity is a network controller. The EntityLink property (if present) should be an EthernetInterface.EthernetInterface entity.
Processor	The entity is a processor device.
RootComplex	The entity is a PCI(e) root complex. The EntityLink property (if present) should be a ComputerSystem.ComputerSystem entity.
StorageExpander	The entity is a storage expander. The EntityLink property (if present) should be a Chassis.Chassis entity.
StorageInitiator	The entity is a storage initiator. The EntityLink property (if present) should be a Storage.StorageController entity.

## EthernetInterface 1.3.0

This schema defines a simple ethernet NIC resource.

Actions (v1.3+) { }	object		The available actions for this resource.
AutoNeg	boolean	read-write (null)	This indicates if the speed and duplex are automatically negotiated and configured on this interface.
FQDN	string	read-write (null)	This is the complete, fully qualified domain name obtained by DNS for this interface.
FullDuplex	boolean	read-write	This indicates if the interface is in Full Duplex mode or not.

		(null)	
<b>HostName</b>	string	read-write (null)	The DNS Host Name, without any domain information.
<b>InterfaceEnabled</b>	boolean	read-write (null)	This indicates whether this interface is enabled.
<b>IPv4Addresses [ {} ]</b>	array (object)		The IPv4 addresses assigned to this interface. See the <a href="https://redfish.dmtf.org/schemas/v1/IPAddresses.v1_0_0.json">redfish.dmtf.org/schemas/v1/IPAddresses.v1_0_0.json</a> schema for details on this property.
<b>IPv6Addresses [ {} ]</b>	array (object)		This array of objects enumerates all of the currently assigned IPv6 addresses on this interface. See the <a href="https://redfish.dmtf.org/schemas/v1/IPAddresses.v1_0_0.json">redfish.dmtf.org/schemas/v1/IPAddresses.v1_0_0.json</a> schema for details on this property.
<b>IPv6AddressPolicyTable [ {</b>	array	read-write	An array representing the RFC 6724 Address Selection Policy Table.
<b>Label</b>	number	read-write (null)	The IPv6 Label (as defined in RFC 6724 section 2.1).
<b>Precedence</b>	number	read-write (null)	The IPv6 Precedence (as defined in RFC 6724 section 2.1).
<b>Prefix }]</b>	string	read-write (null)	The IPv6 Address Prefix (as defined in RFC 6724 section 2.1).
<b>IPv6DefaultGateway</b>	string	read-only (null)	This is the IPv6 default gateway address that is currently in use on this interface.
<b>IPv6StaticAddresses [ {} ]</b>	array (object)		This array of objects represents all of the IPv6 static addresses to be assigned on this interface. This object represents a single IPv6 static address to be assigned on a network interface. See the <a href="https://redfish.dmtf.org/schemas/v1/IPAddresses.v1_0_0.json">redfish.dmtf.org/schemas/v1/IPAddresses.v1_0_0.json</a> schema for details on this property.
<b>Links (v1.1+){</b>	object		Contains references to other resources that are related to this resource.
<b>Chassis (v1.3+){</b>	object		A reference to the Chassis which contains this Ethernet Interface.
<b>@odata.id }</b>	string	read-only	The unique identifier for a resource.
<b>Endpoints [ {</b>	array	read-only	An array of references to the endpoints that connect to this ethernet interface.
<b>@odata.id }]</b>	string	read-only	The unique identifier for a resource.
<b>HostInterface (v1.2+){</b>	object		This is a reference to a Host Interface that is associated with this Ethernet Interface.
<b>@odata.id }</b>	string	read-only	The unique identifier for a resource.
<b>Oem { } }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="https://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>LinkStatus (v1.1+)</b>	string (enum)	read-only (null)	The link status of this interface (port). See <a href="#">LinkStatus</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>MACAddress</b>	string	read-write (null)	This is the currently configured MAC address of the (logical port) interface.
<b>MaxIPv6StaticAddresses</b>	number	read-only (null)	This indicates the maximum number of Static IPv6 addresses that can be configured on this interface.
<b>MTUSize</b>	number	read-write (null)	This is the currently configured Maximum Transmission Unit (MTU) in bytes on this interface.
<b>NameServers [ ]</b>	array (string)	read-only	This represents DNS name servers that are currently in use on this interface.
<b>PermanentMACAddress</b>	string	read-only (null)	This is the permanent MAC address assigned to this interface (port).

<b>SpeedMbps</b>	number (Mbit/s)	read-write (null)	This is the current speed in Mbps of this interface.
<b>Status { }</b>	object	(null)	This type describes the status and health of a resource and its children. See the <a href="http://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>UefiDevicePath</b>	string	read-only (null)	The UEFI device path for this interface.
<b>VLAN { }</b>	object	(null)	If this Network Interface supports more than one VLAN, this property will not be present and the client should look for VLANs collection in the link section of this resource. See the <a href="http://redfish.dmtf.org/schemas/v1/VLanNetworkInterface.v1_0_0.json">redfish.dmtf.org/schemas/v1/VLanNetworkInterface.v1_0_0.json</a> schema for details on this property.
<b>VLANs { }</b>	object		This is a reference to a collection of VLANs and is only used if the interface supports more than one VLANs.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.

## Property Details

### LinkStatus:

The link status of this interface (port).

string	Description
LinkDown	There is no link on this interface, but the interface is connected.
LinkUp	The link is available for communication on this interface.
NoLink	There is no link or connection detected on this interface.

## Event 1.2.0

The Event schema describes the JSON payload received by an Event Destination (which has subscribed to event notification) when events occurs. This resource contains data about event(s), including descriptions, severity and MessageId reference to a Message Registry that can be accessed for further information.

<b>Actions (v1.2+) { }</b>	object		The available actions for this resource.
<b>Context (v1.1+)</b>	string	read-only	A context can be supplied at subscription time. This property is the context value supplied by the subscriber.
<b>Events [ { }</b>	array	read-write required	Each event in this array has a set of properties that describe the event. Since this is an array, more than one event can be sent simultaneously.
<b>Actions (v1.2+) { }</b>	object		The available actions for this resource.
<b>Context (deprecated v1.2)</b>	string	read-only	A context can be supplied at subscription time. This property is the context value supplied by the subscriber. <i>Deprecated v1.2+. Events are triggered independently from subscriptions to those events. This property has been Deprecated in favor of Event.v1_0_2.Event.Context</i>
<b>EventId</b>	string	read-only	This is a unique instance identifier of an event.
<b>EventTimestamp</b>	string	read-only	This is time the event occurred.
<b>EventType</b>	string (enum)	read-only	This indicates the type of event sent, according to the definitions in the EventService. <i>See <a href="#">EventType</a> in Property Details, below, for the possible values of this property.</i>
<b>MemberId</b>	string	read-only	This is the identifier for the member within the collection.
<b>Message</b>	string	read-only	This is the human readable message, if provided.
<b>MessageArgs [ ]</b>	array (string)	read-only	This array of message arguments are substituted for the arguments in the message when looked up in the message registry.
<b>MessageId</b>	string	read-only	This is the key for this message which can be used to look up the message in a

			message registry.
<b>Oem {}</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>OriginOfCondition {}</b>	object		This indicates the resource that originated the condition that caused the event to be generated.
<b>@odata.id {}</b>	string	read-only	The unique identifier for a resource.
<b>Severity []</b>	string	read-only	This is the severity of the event.

## Property Details

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### EventType:

This indicates the type of event sent, according to the definitions in the EventService.

string	Description
Alert	A condition exists which requires attention.
ResourceAdded	A resource has been added.
ResourceRemoved	A resource has been removed.
ResourceUpdated	The value of this resource has been updated.
StatusChange	The status of this resource has changed.

## EventDestination 1.2.1

An Event Destination describes the target of an event subscription, including the types of events subscribed and context to provide to the target in the Event payload.

<b>Actions (v1.2+) {}</b>	object		The available actions for this resource.
<b>Context</b>	string	read-write required (null)	A client-supplied string that is stored with the event destination subscription.
<b>Destination</b>	string	read-only required on create	The URI of the destination Event Service.
<b>EventTypes []</b>	array (string (enum))	read-only	This property shall contain the types of events that shall be sent to the destination. See <a href="#">EventTypes</a> in Property Details, below, for the possible values of this property.
<b>HttpHeaders [ {} ]</b>	array	read-write	This is for setting HTTP headers, such as authorization information. This object will be null on a GET.
<b>MessageIds (v1.1+) []</b>	array (string, null)	read-only	A list of MessageIds that the service will only send. If this property is absent or the array is empty, then Events with any MessageId will be sent to the subscriber.
<b>OriginResources (v1.1+) [ {} ]</b>	array	read-only	A list of resources for which the service will only send related events. If this property is absent or the array is empty, then Events originating from any resource will be sent to the subscriber.
<b>@odata.id []</b>	string	read-only	The unique identifier for a resource.
<b>Protocol</b>	string (enum)	read-only required on create	The protocol type of the event connection. See <a href="#">Protocol</a> in Property Details, below, for the possible values of this property.

## Property Details

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**EventTypes:**

This property shall contain the types of events that shall be sent to the destination.

string	Description
Alert	A condition exists which requires attention
ResourceAdded	A resource has been added
ResourceRemoved	A resource has been removed
ResourceUpdated	The value of this resource has been updated
StatusChange	The status of this resource has changed

**Protocol:**

The protocol type of the event connection.

string
Redfish

## EventService 1.0.5

The Event Service resource contains properties for managing event subscriptions and generates the events sent to subscribers. The resource has links to the actual collection of subscriptions (called Event Destinations).

<b>Actions {</b>	object		The available actions for this resource.
<b>#EventService.SubmitTestEvent {}</b>	object		This action is used to generate a test event. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
<b>DeliveryRetryAttempts</b>	number	read-only	This is the number of attempts an event posting is retried before the subscription is terminated. This retry is at the service level, meaning the HTTP POST to the Event Destination was returned by the HTTP operation as unsuccessful (4xx or 5xx return code) or an HTTP timeout occurred this many times before the Event Destination subscription is terminated.
<b>DeliveryRetryIntervalSeconds</b>	number (seconds)	read-only	This represents the number of seconds between retry attempts for sending any given Event.
<b>EventTypesForSubscription [ ]</b>	array (string (enum))	read-only	This is the types of Events that can be subscribed to. See <a href="#">EventTypesForSubscription</a> in Property Details, below, for the possible values of this property.
<b>ServiceEnabled</b>	boolean	read-write (null)	This indicates whether this service is enabled.
<b>Status {}</b>	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Subscriptions {</b>	object		This is a reference to a collection of Event Destination resources.
<b>@odata.id {}</b>	string	read-only	The unique identifier for a resource.

### Action Details

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**SubmitTestEvent**

This action is used to generate a test event.

(This action takes no parameters.)

### Property Details

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**EventTypesForSubscription:**

This is the types of Events that can be subscribed to.

string	Description
Alert	A condition exists which requires attention
ResourceAdded	A resource has been added
ResourceRemoved	A resource has been removed
ResourceUpdated	The value of this resource has been updated
StatusChange	The status of this resource has changed

## Fabric 1.0.2

Fabric contains properties describing a simple fabric consisting of one or more switches, zero or more endpoints, and zero or more zones.

<b>Actions { }</b>	object		The available actions for this resource.
<b>Endpoints { }</b>	object		A collection of references to the endpoints contained in this fabric.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>FabricType</b>	string (enum)	read-only (null)	The protocol being sent over this fabric. See <a href="#">FabricType in Property Details</a> , below, for the possible values of this property.
<b>Links { }</b>	object		Contains references to other resources that are related to this resource.
<b>Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>MaxZones</b>	number	read-only (null)	The value of this property shall contain the maximum number of zones the switch can currently configure.
<b>Status { }</b>	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Switches { }</b>	object		A collection of references to the switches contained in this fabric.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Zones { }</b>	object		A collection of references to the zones contained in this fabric.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.

### Property Details

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#### FabricType:

The protocol being sent over this fabric.

string	Description
AHCI	Advanced Host Controller Interface
FC	Fibre Channel
FCoE	Fibre Channel over Ethernet
FTP	File Transfer Protocol
HTTP	Hypertext Transport Protocol
HTTPS	Secure Hypertext Transport Protocol
iSCSI	Internet SCSI
NFSv3	Network File System version 3

NFSv4	Network File System version 4
NVMe	Non-Volatile Memory Express
NVMeOverFabrics	NVMe over Fabrics
PCIe	PCI Express (Vendor Proprietary)
SAS	Serial Attached SCSI
SATA	Serial AT Attachment
SFTP	Secure File Transfer Protocol
SMB	Server Message Block (aka CIFS Common Internet File System)
UHCI	Universal Host Controller Interface
USB	Universal Serial Bus

## HostInterface 1.1.0

This schema defines a Host Interface resource.

<b>Actions</b> (v1.1+) { }	object		The available actions for this resource.
<b>AuthenticationModes</b> [ ]	array (string (enum))	read-write	This indicates the authentication modes available on this interface. See <a href="#">AuthenticationModes</a> in Property Details, below, for the possible values of this property.
<b>ExternallyAccessible</b>	boolean	read-only (null)	This indicates whether this interface is accessible by external entities.
<b>FirmwareAuthEnabled</b>	boolean	read-write (null)	This indicates whether this firmware authentication is enabled for this interface.
<b>FirmwareAuthRoleId</b>	string	read-write	This property contains the Role for firmware authentication on this interface.
<b>HostEthernetInterfaces</b> { }	object		This is a reference to a collection of NICs that Computer Systems use for network communication with this Host Interface.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>HostInterfaceType</b>	string (enum)	read-only (null)	This indicates the Host Interface type for this interface. See <a href="#">HostInterfaceType</a> in Property Details, below, for the possible values of this property.
<b>InterfaceEnabled</b>	boolean	read-write (null)	This indicates whether this interface is enabled.
<b>KernelAuthEnabled</b>	boolean	read-write (null)	This indicates whether this kernel authentication is enabled for this interface.
<b>KernelAuthRoleId</b>	string	read-write	This property contains the Role for kernel authentication on this interface.
<b>Links</b> { }	object		Contains references to other resources that are related to this resource.
<b>ComputerSystems</b> [ { } ]	array	read-only	An array of references to the Computer Systems connected to this Host Interface.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>FirmwareAuthRole</b> { }	object		A reference to the Role object defining Privileges for this Host Interface when using firmware authentication.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>KernelAuthRole</b> { }	object		A reference to the Role object defining Privileges for this Host Interface when using kernel authentication.

<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>ManagerEthernetInterface { }</b>	object		This is a reference to a single NIC that this Manager uses for network communication with this Host Interface.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>NetworkProtocol { }</b>	object		This is a reference to the network services and their settings that the Manager controls. It is here that clients will find network configuration options as well as network services.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Status { }</b>	object	(null)	This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.

## Property Details

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### AuthenticationModes:

This indicates the authentication modes available on this interface.

string	Description
AuthNone	Requests without any sort of authentication are allowed.
BasicAuth	Requests using HTTP Basic Authentication are allowed.
OemAuth	Requests using OEM authentication mechanisms are allowed.
RedfishSessionAuth	Requests using Redfish Session Authentication are allowed.

### HostInterfaceType:

This indicates the Host Interface type for this interface.

string	Description
NetworkHostInterface	This interface is a Network Host Interface.

## JsonSchemaFile 1.1.0

This is the schema definition for the Schema File locator resource.

<b>Actions (v1.1+){ }</b>	object		The available actions for this resource.
<b>Languages [ ]</b>	array (string)	read-only required	Language codes for the schemas available.
<b>Location [ { }</b>	array	read-write required	Location information for this schema file.
<b>ArchiveFile</b>	string	read-only	If the schema is hosted on the service in an archive file, this is the name of the file within the archive.
<b>ArchiveUri</b>	string	read-only	If the schema is hosted on the service in an archive file, this is the link to the archive file.
<b>Language</b>	string	read-only	The language code for the file the schema is in.
<b>PublicationUri</b>	string	read-only	Link to publicly available (canonical) URI for schema.
<b>Uri { } ]</b>	string	read-only	Link to locally available URI for schema.
<b>Schema</b>	string	read-only required	The @odata.type name this schema describes.

## LogEntry 1.2.0

This resource defines the record format for a log. It is designed to be used for SEL logs (from IPMI) as well as Event Logs and OEM-specific log formats. The EntryType field indicates the type of log and the resource includes several additional properties dependent on the EntryType.

<b>Actions (v1.2+){ }</b>	object		The available actions for this resource.
<b>Created</b>	string	read-only	The time the log entry was created.
<b>EntryCode</b>	string (enum)	read-only (null)	If the EntryType is SEL, this will have the entry code for the log entry. See <a href="#">EntryCode</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>EntryType</b>	string (enum)	read-only required on create	This is the type of log entry. See <a href="#">EntryType</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>EventId (v1.1+)</b>	string	read-only	This is a unique instance identifier of an event.
<b>EventTimestamp (v1.1+)</b>	string	read-only	This is time the event occurred.
<b>EventType (v1.1+)</b>	string (enum)	read-only	This indicates the type of an event recorded in this log. See <a href="#">EventType</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>Links {</b>	object		Contains references to other resources that are related to this resource.
<b>Oem {}</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>OriginOfCondition {</b>	object		This is the URI of the resource that caused the log entry.
<b>} @odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Message</b>	string	read-only (null)	This property decodes from EntryType: If it is Event then it is a message string. Otherwise, it is SEL or Oem specific. In most cases, this will be the actual Log Entry.
<b>MessageArgs [ ]</b>	array (string)	read-only	The values of this property shall be any arguments for the message.
<b>MessageId</b>	string	read-only	This property decodes from EntryType: If it is Event then it is a message id. Otherwise, it is SEL or Oem specific. This value is only used for registries - for more information, see the specification.
<b>OemRecordFormat</b>	string	read-only (null)	If the entry type is Oem, this will contain more information about the record format from the Oem.
<b>SensorNumber</b>	number	read-only (null)	This property decodes from EntryType: If it is SEL, it is the sensor number; if Event then the count of events. Otherwise, it is Oem specific.
<b>SensorType</b>	string (enum)	read-only (null)	If the EntryType is SEL, this will have the sensor type that the log entry pertains to. See <a href="#">SensorType</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>Severity</b>	string (enum)	read-only (null)	This is the severity of the log entry. See <a href="#">Severity</a> in <i>Property Details</i> , below, for the possible values of this property.

### Property Details

#### EntryCode:

If the EntryType is SEL, this will have the entry code for the log entry.

string
Assert
D0 Power State
D1 Power State
D2 Power State
D3 Power State
Deassert
Device Disabled
Device Enabled
Device Inserted / Device Present
Device Removed / Device Absent
Fully Redundant
Informational
Install Error
Limit Exceeded
Limit Not Exceeded
Lower Critical - going high
Lower Critical - going low
Lower Non-critical - going high
Lower Non-critical - going low
Lower Non-recoverable - going high
Lower Non-recoverable - going low
Monitor
Non-redundant:Insufficient Resources
Non-redundant:Sufficient Resources from Insufficient Resources
Non-redundant:Sufficient Resources from Redundant
Performance Lags
Performance Met
Predictive Failure asserted
Predictive Failure deasserted
Redundancy Degraded
Redundancy Degraded from Fully Redundant
Redundancy Degraded from Non-redundant
Redundancy Lost
State Asserted
State Deasserted
Transition to Active
Transition to Busy

Transition to Critical from less severe
Transition to Critical from Non-recoverable
Transition to Degraded
Transition to Idle
Transition to In Test
Transition to Non-Critical from more severe
Transition to Non-Critical from OK
Transition to Non-recoverable
Transition to Non-recoverable from less severe
Transition to Off Duty
Transition to Off Line
Transition to OK
Transition to On Line
Transition to Power Off
Transition to Power Save
Transition to Running
Upper Critical - going high
Upper Critical - going low
Upper Non-critical - going high
Upper Non-critical - going low
Upper Non-recoverable - going high
Upper Non-recoverable - going low

**EntryType:**

This is the type of log entry.

string
Event
Oem
SEL

**EventType:**

This indicates the type of an event recorded in this log.

string	Description
Alert	A condition exists which requires attention
ResourceAdded	A resource has been added
ResourceRemoved	A resource has been removed
ResourceUpdated	The value of this resource has been updated
StatusChange	The status of this resource has changed

**SensorType:**

If the EntryType is SEL, this will have the sensor type that the log entry pertains to.

string
Add-in Card
BaseOSBoot/InstallationStatus
Battery
Boot Error
Button/Switch
Cable/Interconnect
Chassis
ChipSet
CoolingDevice
Critical Interrupt
Current
Drive Slot/Bay
Entity Presence
Event Logging Disabled
Fan
FRUState
LAN
Management Subsystem Health
Memory
Microcontroller/Coprocessor
Module/Board
Monitor ASIC/IC
OS Stop/Shutdown
Other FRU
Other Units-based Sensor
Physical Chassis Security
Platform Alert
Platform Security Violation Attempt
POST Memory Resize
Power Supply / Converter
PowerUnit
Processor
Session Audit
Slot/Connector
System ACPI PowerState
System Event
System Firmware Progress

SystemBoot/Restart
Temperature
Terminator
Version Change
Voltage
Watchdog

**Severity:**

This is the severity of the log entry.

string
Critical
OK
Warning

## LogService 1.0.4

This resource represents the log service for the resource or service to which it is associated.

<b>Actions {</b>	object		The available actions for this resource.
<b>#LogService.ClearLog {}</b>	object		<i>For more information, see the <a href="#">Action Details</a> section below.</i>
<b>DateTime</b>	string	read-write (null)	The current DateTime (with offset) for the log service, used to set or read time.
<b>DateTimeLocalOffset</b>	string	read-write (null)	The time offset from UTC that the DateTime property is set to in format: +06:00 .
<b>Entries {</b>	object		References to the log entry collection.
<b>@odata.id {}</b>	string	read-only	The unique identifier for a resource.
<b>MaxNumberOfRecords</b>	number	read-only	The maximum number of log entries this service can have.
<b>OverWritePolicy</b>	string (enum)	read-only	The overwrite policy for this service that takes place when the log is full. See <a href="#">OverWritePolicy</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>ServiceEnabled</b>	boolean	read-write (null)	This indicates whether this service is enabled.
<b>Status { }</b>	object	(null)	This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.

---

### Action Details

**ClearLog**

(This action takes no parameters.)

---

### Property Details

**OverWritePolicy:**

The overwrite policy for this service that takes place when the log is full.

string	Description
NeverOverWrites	When full, new entries to the Log will be discarded.

Unknown	The overwrite policy is not known or is undefined.
WrapsWhenFull	When full, new entries to the Log will overwrite previous entries.

## Manager 1.3.2

This is the schema definition for a Manager. Examples of managers are BMCs, Enclosure Managers, Management Controllers and other subsystems assigned manageability functions.

<b>Actions {</b>	object		The available actions for this resource.
<b>#Manager.ForceFailover { }</b>	object		The ForceFailover action forces a failover of this manager to the manager used in the parameter. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
<b>#Manager.ModifyRedundancySet { }</b>	object		The ModifyRedundancySet operation is used to add or remove members to a redundant group of manager. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
<b>#Manager.Reset { }</b>	object		The reset action resets/reboots the manager. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
<b>CommandShell {</b>	object		Information about the Command Shell service provided by this manager.
<b>ConnectTypesSupported [ ]</b>	array (string (enum))	read-only	This object is used to enumerate the Command Shell connection types allowed by the implementation. See <a href="#">ConnectTypesSupported</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>MaxConcurrentSessions</b>	number	read-only	Indicates the maximum number of service sessions, regardless of protocol, this manager is able to support.
<b>ServiceEnabled</b>	boolean	read-write	Indicates if the service is enabled for this manager.
<b>DateTime</b>	string	read-write (null)	The current DateTime (with offset) for the manager, used to set or read time.
<b>DateTimeLocalOffset</b>	string	read-write (null)	The time offset from UTC that the DateTime property is set to in format: +06:00 .
<b>EthernetInterfaces {</b>	object		This is a reference to a collection of NICs that this manager uses for network communication. It is here that clients will find NIC configuration options and settings.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>FirmwareVersion</b>	string	read-only (null)	The firmware version of this Manager.
<b>GraphicalConsole {</b>	object		The value of this property shall contain the information about the Graphical Console (KVM-IP) service of this manager.
<b>ConnectTypesSupported [ ]</b>	array (string (enum))	read-only	This object is used to enumerate the Graphical Console connection types allowed by the implementation. See <a href="#">ConnectTypesSupported</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>MaxConcurrentSessions</b>	number	read-only	Indicates the maximum number of service sessions, regardless of protocol, this manager is able to support.
<b>ServiceEnabled</b>	boolean	read-write	Indicates if the service is enabled for this manager.
<b>HostInterfaces {</b>	object		This is a reference to a collection of Host Interfaces that this manager uses for local host communication. It is here that clients will find Host Interface configuration options and settings.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.

}				
<b>Links {</b>	object		Contains references to other resources that are related to this resource.	
<b>ManagerForChassis [ {</b>	array	read-only	This property is an array of references to the chassis that this manager has control over.	
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.	
<b>ManagerForServers [ {</b>	array	read-only	This property is an array of references to the systems that this manager has control over.	
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.	
<b>ManagerInChassis (v1.1+){</b>	object		This property is a reference to the chassis that this manager is located in.	
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.	
<b>Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.	
<b>LogServices {</b>	object		This is a reference to a collection of Logs used by the manager.	
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.	
<b>ManagerType</b>	string (enum)	read-only	This property represents the type of manager that this resource represents. See <a href="#">ManagerType</a> in <i>Property Details</i> , below, for the possible values of this property.	
<b>Model</b>	string	read-only (null)	The model information of this Manager as defined by the manufacturer.	
<b>NetworkProtocol {</b>	object		This is a reference to the network services and their settings that the manager controls. It is here that clients will find network configuration options as well as network services.	
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.	
<b>PowerState</b>	string (enum)	read-only (null)	This is the current power state of the Manager. See <a href="#">PowerState</a> in <i>Property Details</i> , below, for the possible values of this property.	
<b>Redundancy [ {</b>	array	read-write	Redundancy information for the managers of this system.	
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.	
<b>SerialConsole {</b>	object		Information about the Serial Console service provided by this manager.	
<b>ConnectTypesSupported [ ]</b>	array (string (enum))	read-only	This object is used to enumerate the Serial Console connection types allowed by the implementation. See <a href="#">ConnectTypesSupported</a> in <i>Property Details</i> , below, for the possible values of this property.	
<b>MaxConcurrentSessions</b>	number	read-only	Indicates the maximum number of service sessions, regardless of protocol, this manager is able to support.	
<b>ServiceEnabled</b> }	boolean	read-write	Indicates if the service is enabled for this manager.	
<b>SerialInterfaces {</b>	object		This is a reference to a collection of serial interfaces that this manager uses for serial and console communication. It is here that clients will find serial configuration options and settings.	

<code>@odata.id</code>	string	read-only	The unique identifier for a resource.
<code>ServiceEntryPointUUID</code>	string	read-only	The UUID of the Redfish Service provided by this manager.
<code>Status { }</code>	object		This type describes the status and health of a resource and its children. See the <a href="http://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<code>UUID</code>	string	read-only (null)	The Universal Unique Identifier (UUID) for this Manager.
<code>VirtualMedia { }</code>	object		This is a reference to the Virtual Media services for this particular manager.
<code>@odata.id</code>	string	read-only	The unique identifier for a resource.

## Action Details

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### ForceFailover

The ForceFailover action forces a failover of this manager to the manager used in the parameter.

(This action takes no parameters.)

### ModifyRedundancySet

The ModifyRedundancySet operation is used to add or remove members to a redundant group of manager.

(This action takes no parameters.)

### Reset

The reset action resets/reboots the manager.

(This action takes no parameters.)

## Property Details

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### ConnectTypesSupported:

This object is used to enumerate the Serial Console connection types allowed by the implementation.

string	Description
IPMI	The controller supports a Serial Console connection using the IPMI Serial-over-LAN (SOL) protocol.
Oem	The controller supports a Serial Console connection using an OEM-specific protocol.
SSH	The controller supports a Serial Console connection using the SSH protocol.
Telnet	The controller supports a Serial Console connection using the Telnet protocol.

### ManagerType:

This property represents the type of manager that this resource represents.

string	Description
AuxiliaryController	A controller which provides management functions for a particular subsystem or group of devices.
BMC	A controller which provides management functions for a single computer system.
EnclosureManager	A controller which provides management functions for a chassis or group of devices or systems.
ManagementController	A controller used primarily to monitor or manage the operation of a device or system.
RackManager	A controller which provides management functions for a whole or part of a rack.

### PowerState:

This is the current power state of the Manager.

string	Description
Off	The state is powered Off.

On	The state is powered On.		
PoweringOff	A temporary state between On and Off.		
PoweringOn	A temporary state between Off and On.		

## ManagerAccount 1.1.1

The user accounts, owned by a Manager, are defined in this resource. Changes to a Manager Account may affect the current Redfish service connection if this manager is responsible for the Redfish service.

<b>Actions (v1.1+){ }</b>	object		The available actions for this resource.
<b>Enabled</b>	boolean	read-write	This property is used by a User Administrator to disable an account w/o having to delete the user information. When set to true, the user can login. When set to false, the account is administratively disabled and the user cannot login.
<b>Links {</b>	object		Contains references to other resources that are related to this resource.
<b>Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Role {</b>	object		A reference to the Role object defining Privileges for this account--returned when the resource is read. The ID of the role is the same as property RoleId.
<b>} @odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Locked</b>	boolean	read-write	This property indicates that the account has been auto-locked by the account service because the lockout threshold has been exceeded. When set to true, the account is locked. A user admin can write the property to false to manually unlock, or the account service will unlock it once the lockout duration period has passed.
<b>Password</b>	string	read-write required on create (null)	This property is used with a PATCH or PUT to write the password for the account. This property is null on a GET.
<b>RoleId</b>	string	read-write required on create	This property contains the Role for this account.
<b>UserName</b>	string	read-write required on create	This property contains the user name for the account.

## ManagerNetworkProtocol 1.2.0

This resource is used to obtain or modify the network services managed by a given manager.

<b>Actions (v1.2+){ }</b>	object		The available actions for this resource.
<b>DHCP {</b>	object		Settings for this Manager's DHCP protocol support.
<b>Port</b>	number	read-write (null)	Indicates the protocol port.
<b>} ProtocolEnabled</b>	boolean	read-write (null)	Indicates if the protocol is enabled or disabled.
<b>FQDN</b>	string	read-only (null)	This is the fully qualified domain name for the manager obtained by DNS including the host name and top-level domain name.
<b>HostName</b>	string	read-only (null)	The DNS Host Name of this manager, without any domain information.
<b>HTTP {</b>	object		Settings for this Manager's HTTP protocol support.
<b>Port</b>	number	read-write (null)	Indicates the protocol port.

<b>ProtocolEnabled</b>	boolean	read-write (null)	Indicates if the protocol is enabled or disabled.
<b>HTTPS {</b>	object		Settings for this Manager's HTTPS protocol support.
<b>Port</b>	number	read-write (null)	Indicates the protocol port.
<b>ProtocolEnabled</b>	boolean	read-write (null)	Indicates if the protocol is enabled or disabled.
<b>IPMI {</b>	object		Settings for this Manager's IPMI-over-LAN protocol support.
<b>Port</b>	number	read-write (null)	Indicates the protocol port.
<b>ProtocolEnabled</b>	boolean	read-write (null)	Indicates if the protocol is enabled or disabled.
<b>KVMIP {</b>	object		Settings for this Manager's KVM-IP protocol support.
<b>Port</b>	number	read-write (null)	Indicates the protocol port.
<b>ProtocolEnabled</b>	boolean	read-write (null)	Indicates if the protocol is enabled or disabled.
<b>NTP (v1.2+) {</b>	object		Settings for this Manager's NTP protocol support.
<b>NTPServers [ ]</b>	array (string, null)	read-write	Indicates to which NTP servers this manager is subscribed.
<b>Port</b>	number	read-write (null)	Indicates the protocol port.
<b>ProtocolEnabled</b>	boolean	read-write (null)	Indicates if the protocol is enabled or disabled.
<b>SNMP {</b>	object		Settings for this Manager's SNMP support.
<b>Port</b>	number	read-write (null)	Indicates the protocol port.
<b>ProtocolEnabled</b>	boolean	read-write (null)	Indicates if the protocol is enabled or disabled.
<b>SSDP {</b>	object		Settings for this Manager's SSDP support.
<b>NotifyIPv6Scope</b>	string (enum)	read-write (null)	Indicates the scope for the IPv6 Notify messages for SSDP. See <a href="#">NotifyIPv6Scope</a> in Property Details, below, for the possible values of this property.
<b>NotifyMulticastIntervalSeconds</b>	number (seconds)	read-write (null)	Indicates how often the Multicast is done from this service for SSDP.
<b>NotifyTTL</b>	number	read-write (null)	Indicates the time to live hop count for SSDPs Notify messages.
<b>Port</b>	number	read-write (null)	Indicates the protocol port.
<b>ProtocolEnabled</b>	boolean	read-write (null)	Indicates if the protocol is enabled or disabled.
<b>SSH {</b>	object		Settings for this Manager's SSH (Secure Shell) protocol support.
<b>Port</b>	number	read-write (null)	Indicates the protocol port.
<b>ProtocolEnabled</b>	boolean	read-write (null)	Indicates if the protocol is enabled or disabled.
<b>Status { }</b>	object		This type describes the status and health of a resource and its children.

				See the <a href="http://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
Telnet {	object			Settings for this Manager's Telnet protocol support.
Port	number	read-write (null)		Indicates the protocol port.
ProtocolEnabled }	boolean	read-write (null)		Indicates if the protocol is enabled or disabled.
VirtualMedia {	object			Settings for this Manager's Virtual Media support.
Port	number	read-write (null)		Indicates the protocol port.
ProtocolEnabled }	boolean	read-write (null)		Indicates if the protocol is enabled or disabled.

## Property Details

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### NotifyIPv6Scope:

Indicates the scope for the IPv6 Notify messages for SSDP.

string	Description
Link	SSDP Notify messages are sent to addresses in the IPv6 Local Link scope.
Organization	SSDP Notify messages are sent to addresses in the IPv6 Local Organization scope.
Site	SSDP Notify messages are sent to addresses in the IPv6 Local Site scope.

## Memory 1.3.0

This is the schema definition for definition of a Memory and its configuration.

Actions {	object		The available actions for this resource.
#Memory.DisablePassphrase { }	object		Disable passphrase for given regions. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
#Memory.SecureEraseUnit { }	object		This defines the action for securely erasing given regions. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
#Memory.SetPassphrase { }	object		Set passphrase for the given regions. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
#Memory.UnlockUnit { }	object		This defines the action for unlocking given regions. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
AllocationAlignmentMiB (v1.2+)	number	read-only (null)	The boundary which memory regions are allocated on, measured in MiB.
AllocationIncrementMiB (v1.2+)	number	read-only (null)	The size of the smallest unit of allocation for a memory region, thus it is the multiple in which regions are actually reserved.
AllowedSpeedsMHz [ ]	array (number)	read-only	Speed bins supported by this Memory.
BaseModuleType	string (enum)	read-only (null)	The base module type of Memory. <i>See <a href="#">BaseModuleType</a> in Property Details, below, for the possible values of this property.</i>
BusWidthBits	number	read-only (null)	Bus Width in bits.
CapacityMiB	number (mebibytes)	read-only (null)	Memory Capacity in MiB.

<b>DataWidthBits</b>	number	read-only (null)	Data Width in bits.
<b>DeviceID (deprecated v1.3)</b>	string	read-only (null)	Device ID. <i>Deprecated v1.3+. This property has been Deprecated in favor of Memory.v1_3_0.ModuleProductID</i>
<b>DeviceLocator</b>	string	read-only (null)	Location of the Memory in the platform.
<b>ErrorCorrection</b>	string (enum)	read-only (null)	Error correction scheme supported for this memory. See <a href="#">ErrorCorrection</a> in Property Details, below, for the possible values of this property.
<b>FirmwareApiVersion</b>	string	read-only (null)	Version of API supported by the firmware.
<b>FirmwareRevision</b>	string	read-only (null)	Revision of firmware on the Memory controller.
<b>FunctionClasses [ ]</b>	array (string)	read-only	Function Classes by the Memory.
<b>IsRankSpareEnabled</b>	boolean	read-only (null)	Rank spare enabled status.
<b>IsSpareDeviceEnabled</b>	boolean	read-only (null)	Spare device enabled status.
<b>Links (v1.2+) {</b>	object		Contains references to other resources that are related to this resource.
<b>Chassis {</b>	object		A reference to the Chassis which contains this Memory.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>Oem {}</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="http://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Manufacturer</b>	string	read-only (null)	The Memory manufacturer.
<b>MaxTDPMilliWatts [ ]</b>	array (number)	read-only	Maximum TDPs in milli Watts.
<b>MemoryDeviceType</b>	string (enum)	read-only (null)	Type details of the Memory. See <a href="#">MemoryDeviceType</a> in Property Details, below, for the possible values of this property.
<b>MemoryLocation {</b>	object		Memory connection information to sockets and memory controllers.
<b>Channel</b>	number	read-only (null)	Channel number in which Memory is connected.
<b>MemoryController</b>	number	read-only (null)	Memory controller number in which Memory is connected.
<b>Slot</b>	number	read-only (null)	Slot number in which Memory is connected.
<b>Socket</b>	number	read-only (null)	Socket number in which Memory is connected.
<b>MemoryMedia [ ]</b>	array (string (enum))	read-only	Media of this Memory. See <a href="#">MemoryMedia</a> in Property Details, below, for the possible values of this property.
<b>MemorySubsystemControllerManufacturerID (v1.3+)</b>	string	read-only (null)	The manufacturer ID of the memory subsystem controller of this memory module.
<b>MemorySubsystemControllerProductID (v1.3+)</b>	string	read-only	The product ID of the memory subsystem controller of this

		(null)	memory module.
<b>MemoryType</b>	string (enum)	read-only (null)	The type of Memory. See <a href="#">MemoryType</a> in Property Details, below, for the possible values of this property.
<b>Metrics {</b>	object		A reference to the Metrics associated with this Memory.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>ModuleManufacturerID (v1.3+)</b>	string	read-only (null)	The manufacturer ID of this memory module.
<b>ModuleProductID (v1.3+)</b>	string	read-only (null)	The product ID of this memory module.
<b>OperatingMemoryModes [ ]</b>	array (string (enum))	read-only	Memory modes supported by the Memory. See <a href="#">OperatingMemoryModes</a> in Property Details, below, for the possible values of this property.
<b>OperatingSpeedMhz</b>	number	read-only (null)	Operating speed of Memory in MHz.
<b>PartNumber</b>	string	read-only (null)	The product part number of this device.
<b>PersistentRegionNumberLimit (v1.2+)</b>	number	read-only (null)	Total number of persistent regions this Memory can support.
<b>PersistentRegionSizeLimitMiB</b>	number	read-only (null)	Total size of persistent regions in MiB.
<b>PersistentRegionSizeMaxMiB (v1.2+)</b>	number	read-only (null)	Maximum size of a single persistent region in MiB.
<b>PowerManagementPolicy {</b>	object		Power management policy information.
<b>AveragePowerBudgetMilliWatts</b>	number (milliWatts)	read-only (null)	Average power budget in milli watts.
<b>MaxTDPMilliWatts</b>	number (milliWatts)	read-only (null)	Maximum TDP in milli watts.
<b>PeakPowerBudgetMilliWatts</b>	number (milliWatts)	read-only (null)	Peak power budget in milli watts.
<b>PolicyEnabled</b> }	boolean	read-only (null)	Power management policy enabled status.
<b>RankCount</b>	number	read-only (null)	Number of ranks available in the Memory.
<b>Regions [ {</b>	array	read-write	Memory regions information within the Memory.
<b>MemoryClassification</b>	string (enum)	read-only (null)	Classification of memory occupied by the given memory region. See <a href="#">MemoryClassification</a> in Property Details, below, for the possible values of this property.
<b>OffsetMiB</b>	number (mebibytes)	read-only (null)	Offset with in the Memory that corresponds to the starting of this memory region in MiB.
<b>PassphraseState</b>	boolean	read-only (null)	State of the passphrase for this region.
<b>RegionId</b>	string	read-only (null)	Unique region ID representing a specific region within the Memory.
<b>SizeMiB</b> }]	number (mebibytes)	read-only (null)	Size of this memory region in MiB.
<b>SecurityCapabilities {</b>	object		This object contains security capabilities of the Memory.

<b>MaxPassphraseCount</b>	number	read-only (null)	Maximum number of passphrases supported for this Memory.
<b>PassphraseCapable</b>	boolean	read-only (null)	Memory passphrase set capability.
<b>SecurityStates [ ]</b> }	array (string (enum))	read-only	Security states supported by the Memory. See <a href="#">SecurityStates</a> in Property Details, below, for the possible values of this property.
<b>SerialNumber</b>	string	read-only (null)	The product serial number of this device.
<b>SpareDeviceCount</b>	number	read-only (null)	Number of unused spare devices available in the Memory.
<b>Status (v1.1+) { }</b>	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>SubsystemDeviceID (deprecated v1.3)</b>	string	read-only (null)	Subsystem Device ID. Deprecated v1.3+. This property has been Deprecated in favor of <a href="#">Memory.v1_3_0.MemorySubsystemControllerProductID</a>
<b>SubsystemVendorID (deprecated v1.3)</b>	string	read-only (null)	SubSystem Vendor ID. Deprecated v1.3+. This property has been Deprecated in favor of <a href="#">Memory.v1_3_0.MemorySubsystemControllerManufacturerID</a>
<b>VendorID (deprecated v1.3)</b>	string	read-only (null)	Vendor ID. Deprecated v1.3+. This property has been Deprecated in favor of <a href="#">Memory.v1_3_0.ModuleManufacturerID</a>
<b>VolatileRegionNumberLimit (v1.2+)</b>	number	read-only (null)	Total number of volatile regions this Memory can support.
<b>VolatileRegionSizeLimitMiB</b>	number	read-only (null)	Total size of volatile regions in MiB.
<b>VolatileRegionSizeMaxMiB (v1.2+)</b>	number	read-only (null)	Maximum size of a single volatile region in MiB.

## Action Details

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### **DisablePassphrase**

Disable passphrase for given regions.

(This action takes no parameters.)

### **SecureEraseUnit**

This defines the action for securely erasing given regions.

(This action takes no parameters.)

### **SetPassphrase**

Set passphrase for the given regions.

(This action takes no parameters.)

### **UnlockUnit**

This defines the action for unlocking given regions.

(This action takes no parameters.)

## Property Details

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### **BaseModuleType:**

The base module type of Memory.

string	Description
LRDIMM	Load Reduced.

Mini_RDIMM	Mini_RDIMM.
Mini_UDIMM	Mini_UDIMM.
RDIMM	Registered DIMM.
SO_DIMM	SO_DIMM.
SO_DIMM_16b	SO_DIMM_16b.
SO_DIMM_32b	SO_DIMM_32b.
SO_RDIMM_72b	SO_RDIMM_72b.
SO_UDIMM_72b	SO_UDIMM_72b.
UDIMM	UDIMM.

**ErrorCorrection:**

Error correction scheme supported for this memory.

string	Description
AddressParity	Address Parity errors can be corrected.
MultiBitECC	Multi-bit Data errors can be corrected by ECC.
NoECC	No ECC available.
SingleBitECC	Single bit Data error can be corrected by ECC.

**MemoryClassification:**

Classification of memory occupied by the given memory region.

string	Description
Block	Block accesible memory.
ByteAccessiblePersistent	Byte accessible persistent memory.
Volatile	Volatile memory.

**MemoryDeviceType:**

Type details of the Memory.

string	Description
DDR	DDR.
DDR2	DDR2.
DDR2_SDRAM	DDR2 SDRAM.
DDR2_SDRAM_FB_DIMM	DDR2 SDRAM FB_DIMM.
DDR2_SDRAM_FB_DIMM_PROBE	DDR2 SDRAM FB_DIMM PROBE.
DDR3	DDR3.
DDR3_SDRAM	DDR3 SDRAM.
DDR4	DDR4.
DDR4_SDRAM	DDR4 SDRAM.
DDR4E_SDRAM	DDR4E SDRAM.
DDR_SDRAM	DDR SDRAM.
DDR_SGRAM	DDR SGRAM.
EDO	EDO.

FastPageMode	Fast Page Mode.
LPDDR3_SDRAM	LPDDR3 SDRAM.
LPDDR4_SDRAM	LPDDR4 SDRAM.
PipelinedNibble	Pipelined Nibble.
ROM	ROM.
SDRAM	SDRAM.

**MemoryMedia:**

Media of this Memory.

string	Description
DRAM	DRAM media.
NAND	NAND media.
Proprietary	Proprietary media.

**MemoryType:**

The type of Memory.

string	Description
DRAM	The memory module is composed of volatile memory.
NVDIMM_F	The memory module is composed of non-volatile memory.
NVDIMM_N	The memory module is composed of volatile memory backed by non-volatile memory.
NVDIMM_P	The memory module is composed of a combination of non-volatile and volatile memory.

**OperatingMemoryModes:**

Memory modes supported by the Memory.

string	Description
Block	Block accessible system memory.
PMEM	Persistent memory, byte accesible through system address space.
Volatile	Volatile memory.

**SecurityStates:**

Security states supported by the Memory.

string	Description
Disabled	Secure mode is disabled.
Enabled	Secure mode is enabled.
Frozen	Secure state is frozen and can not be modified until reset.
Locked	Secure mode is enabled and access to the data is locked.
Passphraselimit	Number of attempts to unlock the Memory exceeded limit.
Unlocked	Secure mode is enabled and access to the data is unlocked.

## MemoryChunks 1.1.0

This is the schema definition of a Memory Chunk and its configuration.

Actions (v1.1+) {}	object	The available actions for this resource.
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<b>AddressRangeType</b>	string (enum)	read-only (null)	Memory type of this memory chunk. See <a href="#">AddressRangeType</a> in Property Details, below, for the possible values of this property.
<b>InterleaveSets [ {</b>	array	read-write	This is the interleave sets for the memory chunk.
<b>Memory {</b>	object		Describes a memory device of the interleave set.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>MemoryLevel</b>	number	read-only (null)	Level of the interleave set for multi-level tiered memory.
<b>OffsetMiB</b>	number	read-only (null)	Offset within the DIMM that corresponds to the start of this memory region, with units in MiB.
<b>RegionId</b>	string	read-only (null)	DIMM region identifier.
<b>SizeMiB</b> }]	number	read-only (null)	Size of this memory region in MiB.
<b>IsMirrorEnabled</b>	boolean	read-only (null)	Mirror Enabled status.
<b>IsSpare</b>	boolean	read-only (null)	Spare enabled status.
<b>MemoryChunkSizeMiB</b>	number	read-only (null)	Size of the memory chunk in MiB.

## Property Details

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### AddressRangeType:

Memory type of this memory chunk.

string	Description
Block	Block accessible memory.
PMEM	Byte accessible persistent memory.
Volatile	Volatile memory.

## MemoryDomain 1.2.0

This is the schema definition of a Memory Domain and its configuration. Memory Domains are used to indicate to the client which Memory (DIMMs) can be grouped together in Memory Chunks to form interleave sets or otherwise grouped together.

<b>Actions (v1.2+){} { }</b>	object		The available actions for this resource.
<b>AllowsBlockProvisioning</b>	boolean	read-only (null)	Indicates if this Memory Domain supports the provisioning of blocks of memory.
<b>AllowsMemoryChunkCreation</b>	boolean	read-only (null)	Indicates if this Memory Domain supports the creation of Memory Chunks.
<b>AllowsMirroring (v1.1+)</b>	boolean	read-only (null)	Indicates if this Memory Domain supports the creation of Memory Chunks with mirroring enabled.
<b>AllowsSparing (v1.1+)</b>	boolean	read-only (null)	Indicates if this Memory Domain supports the creation of Memory Chunks with sparing enabled.
<b>InterleavableMemorySets [ {</b>	array	read-write	This is the interleave sets for the memory chunk.
<b>MemorySet [ {</b>	array	read-only	This is the collection of memory for a particular interleave set.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.

}] }]			
<b>MemoryChunks {</b>	object	(null)	A reference to the collection of Memory Chunks associated with this Memory Domain.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.

## MemoryMetrics 1.1.2

MemoryMetrics contains usage and health statistics for a single Memory module or device instance.

<b>Actions {</b>	object		The available actions for this resource.
<b>#MemoryMetrics.ClearCurrentPeriod { }</b>	object		This sets the CurrentPeriod object values to zero. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
<b>BlockSizeBytes</b>	number (bytes)	read-only (null)	Block size in bytes.
<b>CurrentPeriod {</b>	object		This object contains the Memory metrics since last reset or ClearCurrentPeriod action.
<b>BlocksRead</b>	number	read-only (null)	Number of blocks read since reset.
<b>BlocksWritten</b>	number	read-only (null)	Number of blocks written since reset.
<b>HealthData {</b>	object		This object describes the health information of the memory.
<b>AlarmTrips {</b>	object		Alarm trip information about the memory.
<b>AddressParityError</b>	boolean	read-only (null)	Address parity error detected status.
<b>CorrectableECCError</b>	boolean	read-only (null)	Correctable data error threshold crossing alarm trip detected status.
<b>SpareBlock</b>	boolean	read-only (null)	Spare block capacity crossing alarm trip detected status.
<b>Temperature</b>	boolean	read-only (null)	Temperature threshold crossing alarm trip detected status.
<b>UncorrectableECCError</b>	boolean	read-only (null)	Uncorrectable data error threshold crossing alarm trip detected status.
<b>DataLossDetected</b>	boolean	read-only (null)	Data loss detection status.
<b>LastShutdownSuccess</b>	boolean	read-only (null)	Status of last shutdown.
<b>PerformanceDegraded</b>	boolean	read-only (null)	Performance degraded mode status.
<b>PredictedMediaLifeLeftPercent (v1.1+)</b>	number	read-only (null)	The percentage of reads and writes that are predicted to still be available for the media.
<b>RemainingSpareBlockPercentage</b>	number	read-only (null)	Remaining spare blocks in percentage.
<b>LifeTime {</b>	object		This object contains the Memory metrics for the lifetime of the Memory.
<b>BlocksRead</b>	number	read-only (null)	Number of blocks read for the lifetime of the Memory.
<b>BlocksWritten</b>	number	read-only	Number of blocks written for the lifetime of the Memory.

{}		(null)	
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## Action Details

### ClearCurrentPeriod

This sets the CurrentPeriod object values to zero.

(This action takes no parameters.)

## MessageRegistry 1.1.0

This is the schema definition for all Message Registries. It represents the properties for the registries themselves. The MessageID is formed per the Redfish specification. It consists of the RegistryPrefix concatenated with the version concatenated with the unique identifier for the message registry entry.

<b>Actions</b> (v1.1+) { }	object		The available actions for this resource.
<b>Language</b>	string	read-only required	This is the RFC 5646 compliant language code for the registry.
<b>Messages</b> {}	object	required	The pattern property indicates that a free-form string is the unique identifier for the message within the registry.
<b>OwningEntity</b>	string	read-only required	This is the organization or company that publishes this registry.
<b>RegistryPrefix</b>	string	read-only required	This is the single word prefix used to form a messageID structure.
<b>RegistryVersion</b>	string	read-only required	This is the message registry version which is used in the middle portion of a messageID.

## MessageRegistryFile 1.1.0

This is the schema definition for the Schema File locator resource.

<b>Actions</b> (v1.1+) { }	object		The available actions for this resource.
<b>Languages</b> []	array (string)	read-only required	Language codes for the schemas available.
<b>Location</b> [ {	array	read-write required	Location information for this schema file.
<b>ArchiveFile</b>	string	read-only	If the schema is hosted on the service in an archive file, this is the name of the file within the archive.
<b>ArchiveUri</b>	string	read-only	If the schema is hosted on the service in an archive file, this is the link to the archive file.
<b>Language</b>	string	read-only	The language code for the file the schema is in.
<b>PublicationUri</b>	string	read-only	Link to publicly available (canonical) URI for schema.
<b>Uri</b> } ]	string	read-only	Link to locally available URI for schema.
<b>Registry</b>	string	read-only required	The Registry Name, Major and Minor version used in MessageID construction.

## NetworkAdapter 1.0.1

A NetworkAdapter represents the physical network adapter capable of connecting to a computer network. Examples include but are not limited to Ethernet, Fibre Channel, and converged network adapters.

<b>Actions</b> {	object		The available actions for this resource.
}			

<b>#NetworkAdapter.ResetSettingsToDefault { }</b>	object		This action is to clear the settings back to factory defaults. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
<b>Controllers [ {</b>	array	read-write	The set of network controllers ASICs that make up this NetworkAdapter.
<b>ControllerCapabilities {</b>	object	(null)	The capabilities of this controller.
<b>DataCenterBridging {</b>	object	(null)	Data Center Bridging (DCB) for this controller.
<b>  Capable }</b>	boolean	read-only (null)	Whether this controller is capable of Data Center Bridging (DCB).
<b>NetworkDeviceFunctionCount</b>	number	read-only (null)	The maximum number of physical functions available on this controller.
<b>NetworkPortCount</b>	number	read-only (null)	The number of physical ports on this controller.
<b>NPIV {</b>	object	(null)	N_Port ID Virtualization (NPIV) capabilities for this controller.
<b>  MaxDeviceLogins</b>	number	read-only (null)	The maximum number of N_Port ID Virtualization (NPIV) logins allowed simultaneously from all ports on this controller.
<b>  MaxPortLogins }</b>	number	read-only (null)	The maximum number of N_Port ID Virtualization (NPIV) logins allowed per physical port on this controller.
<b>VirtualizationOffload {</b>	object	(null)	Virtualization offload for this controller.
<b>SRIOV {</b>	object	(null)	Single-Root Input/Output Virtualization (SR-IOV) capabilities.
<b>  SRIOVVEPACapable }</b>	boolean	read-only (null)	Whether this controller supports Single Root Input/Output Virtualization (SR-IOV) in Virtual Ethernet Port Aggregator (VEPA) mode.
<b>VirtualFunction {</b>	object	(null)	A virtual function of a controller.
<b>DeviceMaxCount</b>	number	read-only (null)	The maximum number of Virtual Functions (VFs) supported by this controller.
<b>MinAssignmentGroupSize</b>	number	read-only (null)	The minimum number of Virtual Functions (VFs) that can be allocated or moved between physical functions for this controller.
<b>  NetworkPortMaxCount }</b>	number	read-only (null)	The maximum number of Virtual Functions (VFs) supported per network port for this controller.
<b>FirmwarePackageVersion</b>	string	read-only (null)	The version of the user-facing firmware package.
<b>Links {</b>	object		Links.
<b>  NetworkDeviceFunctions [ {</b>	array	read-only	Contains the members of this collection.
<b>    @odata.id } ]</b>	string	read-only	The unique identifier for a resource.
<b>  NetworkPorts [ {</b>	array	read-only	Contains the members of this collection.
<b>    @odata.id } ]</b>	string	read-only	The unique identifier for a resource.
<b>  Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>  PCIeDevices [ {</b>	array	read-only	Contains the members of this collection.
<b>    @odata.id } ] }</b>	string	read-only	The unique identifier for a resource.

}]				
<b>Manufacturer</b>	string	read-only (null)	The manufacturer or OEM of this network adapter.	
<b>Model</b>	string	read-only (null)	The model string for this network adapter.	
<b>NetworkDeviceFunctions {</b>	object		Contains the members of this collection.	
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.	
<b>NetworkPorts {</b>	object		Contains the members of this collection.	
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.	
<b>PartNumber</b>	string	read-only (null)	Part number for this network adapter.	
<b>SerialNumber</b>	string	read-only (null)	The serial number for this network adapter.	
<b>SKU</b>	string	read-only (null)	The manufacturer SKU for this network adapter.	
<b>Status { }</b>	object	(null)	This type describes the status and health of a resource and its children. See the <a href="http://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.	

## Action Details

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### **ResetSettingsToDefault**

This action is to clear the settings back to factory defaults.

(This action takes no parameters.)

## NetworkDeviceFunction 1.1.0

A Network Device Function represents a logical interface exposed by the network adapter.

<b>Actions (v1.1+) { }</b>	object		The available actions for this resource.
<b>AssignablePhysicalPorts [ {</b>	array	read-only	Contains the members of this collection.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>BootMode</b>	string (enum)	read-write (null)	The boot mode configured for this network device function. See <a href="#">BootMode</a> in Property Details, below, for the possible values of this property.
<b>DeviceEnabled</b>	boolean	read-write (null)	Whether the network device function is enabled.
<b>Ethernet {</b>	object	(null)	Ethernet.
<b>MACAddress</b>	string	read-write (null)	This is the currently configured MAC address of the (logical port) network device function.
<b>MTUSize</b>	number	read-write (null)	The Maximum Transmission Unit (MTU) configured for this network device function.
<b>PermanentMACAddress</b> }	string	read-only (null)	This is the permanent MAC address assigned to this network device function (physical function).
<b>FibreChannel {</b>	object	(null)	Fibre Channel.
<b>AllowFIPVLANDDiscovery</b>	boolean	read-write	Whether the FCoE Initialization Protocol (FIP) is used for populating the

		(null)	FCoE VLAN Id.
<b>BootTargets</b> [ {	array	read-write	An array of Fibre Channel boot targets configured for this network device function.
<b>BootPriority</b>	number	read-write (null)	The relative priority for this entry in the boot targets array.
<b>LUNID</b>	string	read-write (null)	The Logical Unit Number (LUN) ID to boot from on the device referred to by the corresponding WWPN.
<b>WWPN</b> } ]	string	read-write (null)	The World-Wide Port Name to boot from.
<b>FCoEActiveVLANId</b>	number	read-only (null)	The active FCoE VLAN ID.
<b>FCoELocalVLANId</b>	number	read-write (null)	The locally configured FCoE VLAN ID.
<b>PermanentWWNN</b>	string	read-only (null)	This is the permanent WWNN address assigned to this network device function (physical function).
<b>PermanentWWPN</b>	string	read-only (null)	This is the permanent WWPN address assigned to this network device function (physical function).
<b>WWNN</b>	string	read-write (null)	This is the currently configured WWNN address of the network device function (physical function).
<b>WWNSource</b>	string (enum)	read-write (null)	The configuration source of the WWNs for this connection (WWPN and WWNN). See <a href="#">WWNSource</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>WWPN</b> }	string	read-write (null)	This is the currently configured WWPN address of the network device function (physical function).
<b>iSCSIBoot</b> {	object	(null)	iSCSI Boot.
<b>AuthenticationMethod</b>	string (enum)	read-write (null)	The iSCSI boot authentication method for this network device function. See <a href="#">AuthenticationMethod</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>CHAPSecret</b>	string	read-write (null)	The shared secret for CHAP authentication.
<b>CHAPUsername</b>	string	read-write (null)	The username for CHAP authentication.
<b>InitiatorDefaultGateway</b>	string	read-write (null)	The IPv6 or IPv4 iSCSI boot default gateway.
<b>InitiatorIPAddress</b>	string	read-write (null)	The IPv6 or IPv4 address of the iSCSI initiator.
<b>InitiatorName</b>	string	read-write (null)	The iSCSI initiator name.
<b>InitiatorNetmask</b>	string	read-write (null)	The IPv6 or IPv4 netmask of the iSCSI boot initiator.
<b>IPAddressType</b>	string (enum)	read-write (null)	The type of IP address (IPv6 or IPv4) being populated in the iSCSIBoot IP address fields. See <a href="#">IPAddressType</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>IPMaskDNSViaDHCP</b>	boolean	read-write (null)	Whether the iSCSI boot initiator uses DHCP to obtain the initiator name, IP address, and netmask.
<b>MutualCHAPSecret</b>	string	read-write (null)	The CHAP Secret for 2-way CHAP authentication.
<b>MutualCHAPUsername</b>	string	read-write	The CHAP Username for 2-way CHAP authentication.

		(null)	
<b>PrimaryDNS</b>	string	read-write (null)	The IPv6 or IPv4 address of the primary DNS server for the iSCSI boot initiator.
<b>PrimaryLUN</b>	number	read-write (null)	The logical unit number (LUN) for the primary iSCSI boot target.
<b>PrimaryTargetIPAddress</b>	string	read-write (null)	The IP address (IPv6 or IPv4) for the primary iSCSI boot target.
<b>PrimaryTargetName</b>	string	read-write (null)	The name of the iSCSI primary boot target.
<b>PrimaryTargetTCPPort</b>	number	read-write (null)	The TCP port for the primary iSCSI boot target.
<b>PrimaryVLANEnable</b>	boolean	read-write (null)	This indicates if the primary VLAN is enabled.
<b>PrimaryVLANId</b>	number	read-write (null)	The 802.1q VLAN ID to use for iSCSI boot from the primary target.
<b>RouterAdvertisementEnabled</b>	boolean	read-write (null)	Whether IPv6 router advertisement is enabled for the iSCSI boot target.
<b>SecondaryDNS</b>	string	read-write (null)	The IPv6 or IPv4 address of the secondary DNS server for the iSCSI boot initiator.
<b>SecondaryLUN</b>	number	read-write (null)	The logical unit number (LUN) for the secondary iSCSI boot target.
<b>SecondaryTargetIPAddress</b>	string	read-write (null)	The IP address (IPv6 or IPv4) for the secondary iSCSI boot target.
<b>SecondaryTargetName</b>	string	read-write (null)	The name of the iSCSI secondary boot target.
<b>SecondaryTargetTCPPort</b>	number	read-write (null)	The TCP port for the secondary iSCSI boot target.
<b>SecondaryVLANEnable</b>	boolean	read-write (null)	This indicates if the secondary VLAN is enabled.
<b>SecondaryVLANId</b>	number	read-write (null)	The 802.1q VLAN ID to use for iSCSI boot from the secondary target.
<b>TargetInfoViaDHCP</b>	boolean	read-write (null)	Whether the iSCSI boot target name, LUN, IP address, and netmask should be obtained from DHCP.
<b>Links {</b>	object		Links.
<b>PCIeFunction {</b>	object		Contains the members of this collection.
<b>} @odata.id</b>	string	read-only	The unique identifier for a resource.
<b>MaxVirtualFunctions</b>	number	read-only (null)	The number of virtual functions (VFs) that are available for this Network Device Function.
<b>NetDevFuncCapabilities [ ]</b>	array (string (enum))	read-only (null)	Capabilities of this network device function. See <a href="#">NetDevFuncCapabilities</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>NetDevFuncType</b>	string (enum)	read-write (null)	The configured capability of this network device function. See <a href="#">NetDevFuncType</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>PhysicalPortAssignment {</b>	object		Contains the members of this collection.
<b>} @odata.id</b>	string	read-only	The unique identifier for a resource.

Status { }	object	(null)	This type describes the status and health of a resource and its children. See the <a href="http://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
VirtualFunctionsEnabled	boolean	read-only (null)	Whether Single Root I/O Virtualization (SR-IOV) Virtual Functions (VFs) are enabled for this Network Device Function.

## Property Details

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### AuthenticationMethod:

The iSCSI boot authentication method for this network device function.

string	Description
CHAP	iSCSI Challenge Handshake Authentication Protocol (CHAP) authentication is used.
MutualCHAP	iSCSI Mutual Challenge Handshake Authentication Protocol (CHAP) authentication is used.
None	No iSCSI authentication is used.

### BootMode:

The boot mode configured for this network device function.

string	Description
Disabled	Do not indicate to UEFI/BIOS that this device is bootable.
FibreChannel	Boot this device using the embedded Fibre Channel support and configuration. Only applicable if the NetworkDeviceFunctionType is set to FibreChannel.
FibreChannelOverEthernet	Boot this device using the embedded Fibre Channel over Ethernet (FCoE) boot support and configuration. Only applicable if the NetworkDeviceFunctionType is set to FibreChannelOverEthernet.
iSCSI	Boot this device using the embedded iSCSI boot support and configuration. Only applicable if the NetworkDeviceFunctionType is set to iSCSI.
PXE	Boot this device using the embedded PXE support. Only applicable if the NetworkDeviceFunctionType is set to Ethernet.

### IPAddressType:

The type of IP address (IPv6 or IPv4) being populated in the iSCSIBoot IP address fields.

string	Description
IPv4	IPv4 addressing is used for all IP-fields in this object.
IPv6	IPv6 addressing is used for all IP-fields in this object.

### NetDevFuncCapabilities:

Capabilities of this network device function.

string	Description
Disabled	Neither enumerated nor visible to the operating system.
Ethernet	Appears to the operating system as an Ethernet device.
FibreChannel	Appears to the operating system as a Fibre Channel device.
FibreChannelOverEthernet	Appears to the operating system as an FCoE device.
iSCSI	Appears to the operating system as an iSCSI device.

### NetDevFuncType:

The configured capability of this network device function.

string	Description

Disabled	Neither enumerated nor visible to the operating system.
Ethernet	Appears to the operating system as an Ethernet device.
FibreChannel	Appears to the operating system as a Fibre Channel device.
FibreChannelOverEthernet	Appears to the operating system as an FCoE device.
iSCSI	Appears to the operating system as an iSCSI device.

**WWNSource:**

The configuration source of the WWNs for this connection (WWPN and WWNN).

string	Description
ConfiguredLocally	The set of FC/FCoE boot targets was applied locally through API or UI.
ProvidedByFabric	The set of FC/FCoE boot targets was applied by the Fibre Channel fabric.

## NetworkInterface 1.1.0

A NetworkInterface contains references linking NetworkAdapter, NetworkPort, and NetworkDeviceFunction resources and represents the functionality available to the containing system.

<b>Actions (v1.1+){}</b>	object		The available actions for this resource.
<b>Links {</b>	object		Links.
<b>NetworkAdapter {</b>	object		Contains the members of this collection.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>}</b>			
<b>Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>NetworkDeviceFunctions {</b>	object		Contains the members of this collection.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>}</b>			
<b>NetworkPorts {</b>	object		Contains the members of this collection.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>}</b>			
<b>Status { }</b>	object	(null)	This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.

## NetworkPort 1.1.0

A Network Port represents a discrete physical port capable of connecting to a network.

<b>Actions (v1.1+){}</b>	object		The available actions for this resource.
<b>ActiveLinkTechnology</b>	string (enum)	read-write (null)	Network Port Active Link Technology. See <a href="#">ActiveLinkTechnology</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>AssociatedNetworkAddresses [ ]</b>	array (string, null)	read-only	The array of configured network addresses (MAC or WWN) that are associated with this Network Port, including the programmed address of the lowest numbered Network Device Function, the configured but not active address if applicable, the address for hardware port teaming, or other network addresses.
<b>EEEEnabled</b>	boolean	read-write (null)	Whether IEEE 802.3az Energy Efficient Ethernet (EEE) is enabled for this network port.

<b>FlowControlConfiguration</b>	string (enum)	read-write (null)	The locally configured 802.3x flow control setting for this network port. See <a href="#">FlowControlConfiguration</a> in Property Details, below, for the possible values of this property.
<b>FlowControlStatus</b>	string (enum)	read-only (null)	The 802.3x flow control behavior negotiated with the link partner for this network port (Ethernet-only). See <a href="#">FlowControlStatus</a> in Property Details, below, for the possible values of this property.
<b>LinkStatus</b>	string (enum)	read-only (null)	The status of the link between this port and its link partner. See <a href="#">LinkStatus</a> in Property Details, below, for the possible values of this property.
<b>NetDevFuncMaxBWAlloc [ {</b>	array	read-write	The array of maximum bandwidth allocation percentages for the Network Device Functions associated with this port.
<b>    MaxBWAllocPercent</b>	number	read-write (null)	The maximum bandwidth allocation percentage allocated to the corresponding network device function instance.
<b>    NetworkDeviceFunction {</b>	object		Contains the members of this collection.
<b>        @odata.id</b> } }]	string	read-only	The unique identifier for a resource.
<b>NetDevFuncMinBWAlloc [ {</b>	array	read-write	The array of minimum bandwidth allocation percentages for the Network Device Functions associated with this port.
<b>    MinBWAllocPercent</b>	number	read-write (null)	The minimum bandwidth allocation percentage allocated to the corresponding network device function instance.
<b>    NetworkDeviceFunction {</b>	object		Contains the members of this collection.
<b>        @odata.id</b> } }]	string	read-only	The unique identifier for a resource.
<b>PhysicalPortNumber</b>	string	read-only (null)	The physical port number label for this port.
<b>PortMaximumMTU</b>	number	read-only (null)	The largest maximum transmission unit (MTU) that can be configured for this network port.
<b>SignalDetected</b>	boolean	read-only (null)	Whether or not the port has detected enough signal on enough lanes to establish link.
<b>Status { }</b>	object	(null)	This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>SupportedEthernetCapabilities [ ]</b>	array (string (enum))	read-only (null)	The set of Ethernet capabilities that this port supports. See <a href="#">SupportedEthernetCapabilities</a> in Property Details, below, for the possible values of this property.
<b>SupportedLinkCapabilities [ {</b>	array	read-write	The self-described link capabilities of this port.
<b>    LinkNetworkTechnology</b>	string (enum)	read-only (null)	The self-described link network technology capabilities of this port. See <a href="#">LinkNetworkTechnology</a> in Property Details, below, for the possible values of this property.
<b>    LinkSpeedMbps</b> }]	number	read-only (null)	The speed of the link in Mbps when this link network technology is active.
<b>WakeOnLANEnabled</b>	boolean	read-write (null)	Whether Wake on LAN (WoL) is enabled for this network port.

## Property Details

### ActiveLinkTechnology:

Network Port Active Link Technology.

string	Description
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Ethernet	The port is capable of connecting to an Ethernet network.
FibreChannel	The port is capable of connecting to a Fibre Channel network.
InfiniBand	The port is capable of connecting to an InfiniBand network.

**FlowControlConfiguration:**

The locally configured 802.3x flow control setting for this network port.

string	Description
None	No IEEE 802.3x flow control is enabled on this port.
RX	IEEE 802.3x flow control may be initiated by the link partner.
TX	IEEE 802.3x flow control may be initiated by this station.
TX_RX	IEEE 802.3x flow control may be initiated by this station or the link partner.

**FlowControlStatus:**

The 802.3x flow control behavior negotiated with the link partner for this network port (Ethernet-only).

string	Description
None	No IEEE 802.3x flow control is enabled on this port.
RX	IEEE 802.3x flow control may be initiated by the link partner.
TX	IEEE 802.3x flow control may be initiated by this station.
TX_RX	IEEE 802.3x flow control may be initiated by this station or the link partner.

**LinkNetworkTechnology:**

The self-described link network technology capabilities of this port.

string	Description
Ethernet	The port is capable of connecting to an Ethernet network.
FibreChannel	The port is capable of connecting to a Fibre Channel network.
InfiniBand	The port is capable of connecting to an InfiniBand network.

**LinkStatus:**

The status of the link between this port and its link partner.

string	Description
Down	The port is enabled but link is down.
Up	The port is enabled and link is good (up).

**SupportedEthernetCapabilities:**

The set of Ethernet capabilities that this port supports.

string	Description
EEE	IEEE 802.3az Energy Efficient Ethernet (EEE) is supported on this port.
WakeOnLAN	Wake on LAN (WoL) is supported on this port.

## PCIeDevice 1.1.0

This is the schema definition for the PCIeDevice resource. It represents the properties of a PCIeDevice attached to a System.

<b>Actions</b> (v1.1+) { }	object		The available actions for this resource.
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<b>AssetTag</b>	string	read-write (null)	The user assigned asset tag for this PCIe device.
<b>DeviceType</b>	string (enum)	read-only	The device type for this PCIe device. See <a href="#">DeviceType</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>FirmwareVersion</b>	string	read-only (null)	The version of firmware for this PCIe device.
<b>Links {</b>	object		The links object contains the links to other resources that are related to this resource.
<b>Chassis [ {</b>	array	read-only	An array of references to the chassis in which the PCIe device is contained.
<b>@odata.id }]</b>	string	read-only	The unique identifier for a resource.
<b>Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="http://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>PCIeFunctions [ {</b>	array	read-only	An array of references to PCIeFunctions exposed by this device.
<b>@odata.id }]</b>	string	read-only	The unique identifier for a resource.
<b>Manufacturer</b>	string	read-only (null)	This is the manufacturer of this PCIe device.
<b>Model</b>	string	read-only (null)	This is the model number for the PCIe device.
<b>PartNumber</b>	string	read-only (null)	The part number for this PCIe device.
<b>SerialNumber</b>	string	read-only (null)	The serial number for this PCIe device.
<b>SKU</b>	string	read-only (null)	This is the SKU for this PCIe device.
<b>Status { }</b>	object	(null)	This type describes the status and health of a resource and its children. See the <a href="http://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.

## Property Details

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### DeviceType:

The device type for this PCIe device.

string	Description
MultiFunction	A multi-function PCIe device.
Simulated	A PCIe device which is not currently physically present, but is being simulated by the PCIe infrastructure.
SingleFunction	A single-function PCIe device.

## PCIeFunction 1.1.0

This is the schema definition for the PCIeFunction resource. It represents the properties of a PCIeFunction attached to a System.

<b>Actions (v1.1+) { }</b>	object		The available actions for this resource.
<b>ClassCode</b>	string	read-only (null)	The Class Code of this PCIe function.
<b>DeviceClass</b>	string (enum)	read-only	The class for this PCIe Function. See <a href="#">DeviceClass</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>DeviceId</b>	string	read-only (null)	The Device ID of this PCIe function.

<b>FunctionId</b>	number	read-only (null)	The the PCIe Function identifier.
<b>FunctionType</b>	string (enum)	read-only	The type of the PCIe Function. See <a href="#">FunctionType</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>Links {</b>	object		The links object contains the links to other resources that are related to this resource.
<b>Drives [ {</b>	array	read-only	An array of references to the drives which the PCIe device produces.
<b>@odata.id</b> <code>}]</code>	string	read-only	The unique identifier for a resource.
<b>EthernetInterfaces [ {</b>	array	read-only	An array of references to the ethernet interfaces which the PCIe device produces.
<b>@odata.id</b> <code>} ]</code>	string	read-only	The unique identifier for a resource.
<b>Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>PCIeDevice {</b>	object	(null)	A reference to the PCIeDevice on which this function resides.
<b>@odata.id</b> <code>}</code>	string	read-only	The unique identifier for a resource.
<b>StorageControllers [ {</b>	array	read-only	An array of references to the storage controllers which the PCIe device produces.
<b>@odata.id</b> <code>} ]</code>	string	read-only	The unique identifier for a resource.
<b>RevisionId</b>	string	read-only (null)	The Revision ID of this PCIe function.
<b>Status { }</b>	object	(null)	This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>SubsystemId</b>	string	read-only (null)	The Subsystem ID of this PCIe function.
<b>SubsystemVendorId</b>	string	read-only (null)	The Subsystem Vendor ID of this PCIe function.
<b>VendorId</b>	string	read-only (null)	The Vendor ID of this PCIe function.

## Property Details

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### DeviceClass:

The class for this PCIe Function.

string	Description
Bridge	A bridge.
CommunicationController	A communication controller.
Coprocessor	A coprocessor.
DisplayController	A display controller.
DockingStation	A docking station.
EncryptionController	An encryption controller.
GenericSystemPeripheral	A generic system peripheral.
InputDeviceController	An input device controller.
IntelligentController	An intelligent controller.
MassStorageController	A mass storage controller.

MemoryController	A memory controller.
MultimediaController	A multimedia controller.
NetworkController	A network controller.
NonEssentialInstrumentation	A non-essential instrumentation.
Other	A other class. The function Device Class Id needs to be verified.
ProcessingAccelerators	A processing accelerators.
Processor	A processor.
SatelliteCommunicationsController	A satellite communications controller.
SerialBusController	A serial bus controller.
SignalProcessingController	A signal processing controller.
UnassignedClass	An unassigned class.
UnclassifiedDevice	An unclassified device.
WirelessController	A wireless controller.

**FunctionType:**

The type of the PCIe Function.

string	Description
Physical	A physical PCIe function.
Virtual	A virtual PCIe function.

## Port 1.0.2

Port contains properties describing a port of a switch.

<b>Actions {</b>	object		The available actions for this resource.
<b>#Port.Reset { }</b>	object		This action is used to reset this switch. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
<b>CurrentSpeedGbps</b>	number (Gbit/s)	read-only (null)	The current speed of this port.
<b>Links {</b>	object		Contains references to other resources that are related to this resource.
<b>AssociatedEndpoints [ {</b>	array	read-only	An array of references to the endpoints that connect to the switch through this port.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>ConnectedSwitches [ {</b>	array	read-only	An array of references to the switches that connect to the switch through this port.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>ConnectedSwitchPorts [ {</b>	array	read-only	An array of references to the ports that connect to the switch through this port.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>MaxSpeedGbps</b>	number (Gbit/s)	read-only (null)	The maximum speed of this port as currently configured.

<b>PortId</b>	string	read-only (null)	This is the label of this port on the physical switch package.
<b>PortProtocol</b>	string (enum)	read-only (null)	The protocol being sent over this port. See <a href="#">PortProtocol</a> in Property Details, below, for the possible values of this property.
<b>PortType</b>	string (enum)	read-only (null)	This is the type of this port. See <a href="#">PortType</a> in Property Details, below, for the possible values of this property.
<b>Status { }</b>	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Width</b>	number	read-only (null)	The number of lanes, phys, or other physical transport links that this port contains.

## Action Details

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### Reset

This action is used to reset this switch.

(This action takes no parameters.)

## Property Details

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### PortProtocol:

The protocol being sent over this port.

string	Description
AHCI	Advanced Host Controller Interface
FC	Fibre Channel
FCoE	Fibre Channel over Ethernet
FTP	File Transfer Protocol
HTTP	Hypertext Transport Protocol
HTTPS	Secure Hypertext Transport Protocol
iSCSI	Internet SCSI
NFSv3	Network File System version 3
NFSv4	Network File System version 4
NVMe	Non-Volatile Memory Express
NVMeOverFabrics	NVMe over Fabrics
PCIe	PCI Express (Vendor Proprietary)
SAS	Serial Attached SCSI
SATA	Serial AT Attachment
SFTP	Secure File Transfer Protocol
SMB	Server Message Block (aka CIFS Common Internet File System)
UHCI	Universal Host Controller Interface
USB	Universal Serial Bus

### PortType:

This is the type of this port.

string	Description
BidirectionalPort	This port connects to any type of device.

DownstreamPort	This port connects to a target device.
InterswitchPort	This port connects to another switch.
ManagementPort	This port connects to a switch manager.
UnconfiguredPort	This port has not yet been configured.
UpstreamPort	This port connects to a host device.

## Power 1.4.0

This is the schema definition for the Power Metrics. It represents the properties for Power Consumption and Power Limiting.

<b>Actions</b> (v1.3+) { }	object		The available actions for this resource.	
<b>PowerControl</b> [ {	array	read-write	This is the definition for power control function (power reading/limiting).	
<b>Actions</b> (v1.3+) { }	object		The available actions for this resource.	
<b>MemberId</b>	string	read-only	This is the identifier for the member within the collection.	
<b>Name</b>	string	read-only (null)	Power Control Function name.	
<b>Oem</b> { }	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.	
<b>PhysicalContext</b> (v1.4+)	string (enum)	read-only	Describes the area, device, or set of devices to which this power control applies. See <a href="#">PhysicalContext</a> in Property Details, below, for the possible values of this property.	
<b>PowerAllocatedWatts</b>	number (Watts)	read-only (null)	The total amount of power that has been allocated (or budgeted) to chassis resources.	
<b>PowerAvailableWatts</b>	number (Watts)	read-only (null)	The amount of power not already budgeted and therefore available for additional allocation. (powerCapacity - powerAllocated). This indicates how much reserve power capacity is left.	
<b>PowerCapacityWatts</b>	number (Watts)	read-only (null)	The total amount of power available to the chassis for allocation. This may be the power supply capacity, or power budget assigned to the chassis from an upstream chassis.	
<b>PowerConsumedWatts</b>	number (Watts)	read-only (null)	The actual power being consumed by the chassis.	
<b>PowerLimit</b> { }	object		Power limit status and configuration information for this chassis.	
<b>CorrectionInMs</b>	number (ms)	read-write	The time required for the limiting process to reduce power consumption to below the limit.	
<b>LimitException</b>	string (enum)	read-write	The action that is taken if the power cannot be maintained below the LimitInWatts. See <a href="#">LimitException</a> in Property Details, below, for the possible values of this property.	
}	<b>LimitInWatts</b>	number (Watts)	read-write (null)	The Power limit in watts. Set to null to disable power capping.
<b>PowerMetrics</b> { }	object		Power readings for this chassis.	
<b>AverageConsumedWatts</b>	number (Watts)	read-only (null)	The average power level over the measurement window (the last IntervalInMin minutes).	
<b>IntervalInMin</b>	number (min)	read-only (null)	The time interval (or window) in which the PowerMetrics are measured over.	
<b>MaxConsumedWatts</b>	number (Watts)	read-only (null)	The highest power consumption level that has occurred over the measurement window (the last IntervalInMin minutes).	

<b>MinConsumedWatts</b>	number (Watts)	read-only (null)	The lowest power consumption level over the measurement window (the last IntervallnMin minutes).
<b>PowerRequestedWatts</b>	number (Watts)	read-only (null)	The potential power that the chassis resources are requesting which may be higher than the current level being consumed since requested power includes budget that the chassis resource wants for future use.
<b>RelatedItem [ {</b>	array	read-only	The ID(s) of the resources associated with this Power Limit.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>Status {}</b> }]	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>PowerSupplies [ {</b>	array	read-write	Details of the power supplies associated with this system or device.
<b>Actions (v1.3+) { }</b>	object		The available actions for this resource.
<b>FirmwareVersion</b>	string	read-only (null)	The firmware version for this Power Supply.
<b>IndicatorLED (v1.2+)</b>	string (enum)	read-write (null)	The state of the indicator LED, used to identify the power supply. See <a href="#">IndicatorLED</a> in Property Details, below, for the possible values of this property.
<b>InputRanges (v1.1+) [ {</b>	array	read-write	This is the input ranges that the power supply can use.
<b>InputType</b>	string (enum)	read-only (null)	The Input type (AC or DC). See <a href="#">InputType</a> in Property Details, below, for the possible values of this property.
<b>MaximumFrequencyHz</b>	number (Hz)	read-only (null)	The maximum line input frequency at which this power supply input range is effective.
<b>MaximumVoltage</b>	number (Volts)	read-only (null)	The maximum line input voltage at which this power supply input range is effective.
<b>MinimumFrequencyHz</b>	number (Hz)	read-only (null)	The minimum line input frequency at which this power supply input range is effective.
<b>MinimumVoltage</b>	number (Volts)	read-only (null)	The minimum line input voltage at which this power supply input range is effective.
<b>Oem {}</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>OutputWattage</b> }]	number (Watts)	read-only (null)	The maximum capacity of this Power Supply when operating in this input range.
<b>LastPowerOutputWatts</b>	number (Watts)	read-only (null)	The average power output of this Power Supply.
<b>LineInputVoltage</b>	number (Volts)	read-only (null)	The line input voltage at which the Power Supply is operating.
<b>LineInputVoltageType</b>	string (enum)	read-only (null)	The line voltage type supported as an input to this Power Supply. See <a href="#">LineInputVoltageType</a> in Property Details, below, for the possible values of this property.
<b>Manufacturer (v1.1+)</b>	string	read-only (null)	This is the manufacturer of this power supply.
<b>MemberId</b>	string	read-only	This is the identifier for the member within the collection.
<b>Model</b>	string	read-only (null)	The model number for this Power Supply.
<b>Name</b>	string	read-only (null)	The name of the Power Supply.

<b>Oem {}</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>PartNumber</b>	string	read-only (null)	The part number for this Power Supply.
<b>PowerCapacityWatts</b>	number (Watts)	read-only (null)	The maximum capacity of this Power Supply.
<b>PowerSupplyType</b>	string (enum)	read-only (null)	The Power Supply type (AC or DC). See <a href="#">PowerSupplyType</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>Redundancy [ {</b>	array	read-write	A reference to a set of Redundancy entities that provide redundant services for this resource. See the <a href="#">Redundancy</a> object definition in the Common objects section.
<b>    @odata.id }]</b>	string	read-only	The unique identifier for a resource.
<b>RelatedItem [ {</b>	array	read-write	The ID(s) of the resources associated with this Power Limit.
<b>    @odata.id }]</b>	string	read-only	The unique identifier for a resource.
<b>SerialNumber</b>	string	read-only (null)	The serial number for this Power Supply.
<b>SparePartNumber</b>	string	read-only (null)	The spare part number for this Power Supply.
<b>Status {} }]</b>	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Redundancy [ {</b>	array	read-write	Redundancy information for the power subsystem of this system or device.
<b>    @odata.id }]</b>	string	read-only	The unique identifier for a resource.
<b>Voltages [ {</b>	array	read-write	This is the definition for voltage sensors.
<b>Actions (v1.3+) {}</b>	object		The available actions for this resource.
<b>LowerThresholdCritical</b>	number (Volts)	read-only (null)	Below normal range but not yet fatal.
<b>LowerThresholdFatal</b>	number (Volts)	read-only (null)	Below normal range and is fatal.
<b>LowerThresholdNonCritical</b>	number (Volts)	read-only (null)	Below normal range.
<b>MaxReadingRange</b>	number (Volts)	read-only (null)	Maximum value for this Voltage sensor.
<b>MemberId</b>	string	read-only	This is the identifier for the member within the collection.
<b>MinReadingRange</b>	number (Volts)	read-only (null)	Minimum value for this Voltage sensor.
<b>Name</b>	string	read-only (null)	Voltage sensor name.
<b>Oem {}</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>PhysicalContext</b>	string (enum)	read-only	Describes the area or device to which this voltage measurement applies. See <a href="#">PhysicalContext</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>ReadingVolts</b>	number	read-only	The present reading of the voltage sensor.

	(Volts)	(null)	
<b>RelatedItem</b> [ {	array	read-only	Describes the areas or devices to which this voltage measurement applies.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>SensorNumber</b>	number	read-only (null)	A numerical identifier to represent the voltage sensor.
<b>Status</b> {}	object		This type describes the status and health of a resource and its children. See the <a href="http://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>UpperThresholdCritical</b>	number (Volts)	read-only (null)	Above normal range but not yet fatal.
<b>UpperThresholdFatal</b>	number (Volts)	read-only (null)	Above normal range and is fatal.
<b>UpperThresholdNonCritical</b> }]	number (Volts)	read-only (null)	Above normal range.

## Property Details

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### IndicatorLED:

The state of the indicator LED, used to identify the power supply.

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

### InputType:

The Input type (AC or DC).

string	Description
AC	Alternating Current (AC) input range.
DC	Direct Current (DC) input range.

### LimitException:

The action that is taken if the power cannot be maintained below the LimitInWatts.

string	Description
HardPowerOff	Turn the power off immediately when the limit is exceeded.
LogEventOnly	Log an event when the limit is exceeded, but take no further action.
NoAction	Take no action when the limit is exceeded.
Oem	Take an OEM-defined action.

### LineInputVoltageType:

The line voltage type supported as an input to this Power Supply.

string	Description
AC120V	AC 120V nominal input.
AC240V	AC 240V nominal input.
AC277V	AC 277V nominal input.
ACandDCWideRange	Wide range AC or DC input.

ACHighLine (deprecated v1.3)	277V AC input. <i>Deprecated v1.3+. This value has been Deprecated in favor of AC277V.</i>
ACLowLine (deprecated v1.3)	100-127V AC input. <i>Deprecated v1.3+. This value has been Deprecated in favor of AC120V.</i>
ACMidLine (deprecated v1.3)	200-240V AC input. <i>Deprecated v1.3+. This value has been Deprecated in favor of AC240V.</i>
ACWideRange	Wide range AC input.
DC240V	DC 240V nominal input.
DC380V	High Voltage DC input (380V).
DCNeg48V	-48V DC input.
Unknown	The power supply line input voltage type cannot be determined.

**PhysicalContext:**

Describes the area or device to which this voltage measurement applies.

string	Description
Back	The back of the chassis
Backplane	A backplane within the chassis
ComputeBay	Within a compute bay
CPU	A Processor (CPU)
Exhaust	The exhaust point of the chassis
ExpansionBay	Within an expansion bay
Front	The front of the chassis
GPU	A Graphics Processor (GPU)
Intake	The intake point of the chassis
Lower	The lower portion of the chassis
NetworkBay	Within a networking bay
NetworkingDevice	A networking device
PowerSupply	A power supply
PowerSupplyBay	Within a power supply bay
Room	The room
StorageBay	Within a storage bay
StorageDevice	A storage device
SystemBoard	The system board (PCB)
Upper	The upper portion of the chassis
VoltageRegulator	A voltage regulator device

**PowerSupplyType:**

The Power Supply type (AC or DC).

string	Description
AC	Alternating Current (AC) power supply.
ACorDC	Power Supply supports both DC or AC.
DC	Direct Current (DC) power supply.
Unknown	The power supply type cannot be determined.

## PrivilegeRegistry 1.1.0

This is the schema definition for Operation to Privilege mapping.

<b>Actions (v1.1+){}</b>	object		The available actions for this resource.
<b>Mappings [ {</b>	array	read-write	
<b>Entity</b>	string	read-only	Indicates entity name. e.g., Manager.
<b>OperationMap {</b>	object		List mapping between HTTP method and privilege required for entity.
<b>DELETE [ {</b>	array	read-write	Indicates privilege required for HTTP DELETE operation.
<b>    Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>GET [ {</b>	array	read-write	Indicates privilege required for HTTP GET operation.
<b>    Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>HEAD [ {</b>	array	read-write	Indicates privilege required for HTTP HEAD operation.
<b>    Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>PATCH [ {</b>	array	read-write	Indicates privilege required for HTTP PATCH operation.
<b>    Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>POST [ {</b>	array	read-write	Indicates privilege required for HTTP POST operation.
<b>    Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>PUT [ {</b>	array	read-write	Indicates privilege required for HTTP PUT operation.
<b>    Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>PropertyOverrides [ {</b>	array	read-write	Indicates privilege overrides of property or element within a entity.
<b>OperationMap {</b>	object	(null)	List mapping between HTTP operation and privilege needed to perform operation.
<b>DELETE [ {</b>	array	read-write	Indicates privilege required for HTTP DELETE operation.
<b>    Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>GET [ {</b>	array	read-write	Indicates privilege required for HTTP GET operation.
<b>    Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>HEAD [ {</b>	array	read-write	Indicates privilege required for HTTP HEAD operation.
<b>    Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>PATCH [ {</b>	array	read-write	Indicates privilege required for HTTP PATCH operation.
<b>    Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>POST [ {</b>	array	read-write	Indicates privilege required for HTTP POST operation.
<b>    Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.

<b>PUT [ {</b>	array	read-write	Indicates privilege required for HTTP PUT operation.
<b>    } ] Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>    } ] Targets [ ]</b>	array (string, null)	read-only	Indicates the URI or Entity.
<b>    } ] ResourceURIOverrides [ {</b>	array	read-write	Indicates privilege overrides of Resource URI.
<b>    } ] OperationMap {</b>	object	(null)	List mapping between HTTP operation and privilege needed to perform operation.
<b>    } ] DELETE [ {</b>	array	read-write	Indicates privilege required for HTTP DELETE operation.
<b>    } ] Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>    } ] GET [ {</b>	array	read-write	Indicates privilege required for HTTP GET operation.
<b>    } ] Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>    } ] HEAD [ {</b>	array	read-write	Indicates privilege required for HTTP HEAD operation.
<b>    } ] Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>    } ] PATCH [ {</b>	array	read-write	Indicates privilege required for HTTP PATCH operation.
<b>    } ] Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>    } ] POST [ {</b>	array	read-write	Indicates privilege required for HTTP POST operation.
<b>    } ] Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>    } ] PUT [ {</b>	array	read-write	Indicates privilege required for HTTP PUT operation.
<b>    } ] Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>    } ] Targets [ ]</b>	array (string, null)	read-only	Indicates the URI or Entity.
<b>    } ] SubordinateOverrides [ {</b>	array	read-write	Indicates privilege overrides of subordinate resource.
<b>    } ] OperationMap {</b>	object	(null)	List mapping between HTTP operation and privilege needed to perform operation.
<b>    } ] DELETE [ {</b>	array	read-write	Indicates privilege required for HTTP DELETE operation.
<b>    } ] Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>    } ] GET [ {</b>	array	read-write	Indicates privilege required for HTTP GET operation.
<b>    } ] Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>    } ] HEAD [ {</b>	array	read-write	Indicates privilege required for HTTP HEAD operation.
<b>    } ] Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>    } ] PATCH [ {</b>	array	read-write	Indicates privilege required for HTTP PATCH operation.
<b>    } ] Privilege [ ]</b>	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.

<b>POST [ {</b>	array	read-write	Indicates privilege required for HTTP POST operation.
<b>    Privilege [ ]</b> }]	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>PUT [ {</b>	array	read-write	Indicates privilege required for HTTP PUT operation.
<b>    Privilege [ ]</b> }]	array (string)	read-only	Lists the privileges that are allowed to perform the given type of HTTP operation on the entity type.
<b>Targets [ ]</b> }]	array (string, null)	read-only	Indicates the URI or Entity.
<b>OEMPrivilegesUsed [ ]</b>	array (string)	read-only	Lists the set of OEM Privileges used in building this mapping.
<b>PrivilegesUsed [ ]</b>	array (string (enum))	read-only	Lists the set of Redfish standard privileges used in building this mapping. See <a href="#">PrivilegesUsed</a> in Property Details, below, for the possible values of this property.

## Property Details

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### PrivilegesUsed:

Lists the set of Redfish standard privileges used in building this mapping.

string	Description
ConfigureComponents	Able to configure components managed by this service.
ConfigureManager	Able to configure Manager resources.
ConfigureSelf	Able to change the password for the current user Account.
ConfigureUsers	Able to configure Users and their Accounts.
Login	Able to log into the service and read resources.

## Processor 1.1.0

This is the schema definition for the Processor resource. It represents the properties of a processor attached to a System.

<b>Actions (v1.1+) { }</b>	object		The available actions for this resource.
<b>InstructionSet</b>	string (enum)	read-only (null)	The instruction set of the processor. See <a href="#">InstructionSet</a> in Property Details, below, for the possible values of this property.
<b>Links (v1.1+) { }</b>	object		Contains references to other resources that are related to this resource.
<b>Chassis {</b>	object		A reference to the Chassis which contains this Processor.
<b>    @odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>    Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Manufacturer</b>	string	read-only (null)	The processor manufacturer.
<b>MaxSpeedMHz</b>	number	read-only (null)	The maximum clock speed of the processor.
<b>Model</b>	string	read-only (null)	The product model number of this device.
<b>ProcessorArchitecture</b>	string (enum)	read-only (null)	The architecture of the processor. See <a href="#">ProcessorArchitecture</a> in Property Details, below, for the possible values of this property.

<b>ProcessorId {</b>	object		Identification information for this processor.
<b>EffectiveFamily</b>	string	read-only (null)	The effective Family for this processor.
<b>EffectiveModel</b>	string	read-only (null)	The effective Model for this processor.
<b>IdentificationRegisters</b>	string	read-only (null)	The contents of the Identification Registers (CPUID) for this processor.
<b>MicrocodeInfo</b>	string	read-only (null)	The Microcode Information for this processor.
<b>Step</b>	string	read-only (null)	The Step value for this processor.
<b>VendorId</b> }	string	read-only (null)	The Vendor Identification for this processor.
<b>ProcessorType</b>	string (enum)	read-only (null)	The type of processor. See <a href="#">ProcessorType</a> in Property Details, below, for the possible values of this property.
<b>Socket</b>	string	read-only (null)	The socket or location of the processor.
<b>Status { }</b>	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>TotalCores</b>	number	read-only (null)	The total number of cores contained in this processor.
<b>TotalThreads</b>	number	read-only (null)	The total number of execution threads supported by this processor.

## Property Details

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### InstructionSet:

The instruction set of the processor.

string	Description
ARM-A32	ARM 32-bit.
ARM-A64	ARM 64-bit.
IA-64	Intel IA-64.
MIPS32	MIPS 32-bit.
MIPS64	MIPS 64-bit.
OEM	OEM-defined.
x86	x86 32-bit.
x86-64	x86 64-bit.

### ProcessorArchitecture:

The architecture of the processor.

string	Description
ARM	ARM.
IA-64	Intel Itanium.
MIPS	MIPS.
OEM	OEM-defined.

x86	x86 or x86-64.
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**ProcessorType:**

The type of processor.

string	Description
Accelerator	An Accelerator.
CPU	A Central Processing Unit.
DSP	A Digital Signal Processor.
FPGA	A Field Programmable Gate Array.
GPU	A Graphics Processing Unit.
OEM	An OEM-defined Processing Unit.

## ResourceBlock 1.0.0

This schema defines a Resource Block resource.

<b>Actions { }</b>	object		The available actions for this resource.
<b>CompositionStatus { }</b>	object	required	This property describes the composition status details for this Resource Block.
<b>CompositionState</b>	string (enum)	read-only required (null)	This property represents the current state of the Resource Block from a composition perspective. See <a href="#">CompositionState</a> in Property Details, below, for the possible values of this property.
<b>Reserved { }</b>	boolean	read-write (null)	This represents if the Resource Block is reserved by any client.
<b>ComputerSystems [ { } ]</b>	array	read-only	An array of references to the Computer Systems available in this Resource Block.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>EthernetInterfaces [ { } ]</b>	array	read-only	An array of references to the Ethernet Interfaces available in this Resource Block.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Links { }</b>	object		Contains references to other resources that are related to this resource.
<b>Chassis [ { } ]</b>	array	read-only	An array of references to the Chassis in which this Resource Block is contained.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>ComputerSystems [ { } ]</b>	array	read-only	An array of references to the Computer Systems that are composed from this Resource Block.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Zones [ { } ]</b>	array	read-only	An array of references to the Zones in which this Resource Block is bound.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Memory [ { } ]</b>	array	read-only	An array of references to the Memory available in this Resource Block.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.

<b>NetworkInterfaces [ {</b>	array	read-only	An array of references to the Network Interfaces available in this Resource Block.
<b>} ] @odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Processors [ {</b>	array	read-only	An array of references to the Processors available in this Resource Block.
<b>} ] @odata.id</b>	string	read-only	The unique identifier for a resource.
<b>ResourceBlockType [ ]</b>	array (string (enum))	read-only	This property represents the types of resources available on this Resource Block. See <a href="#">ResourceBlockType</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>SimpleStorage [ {</b>	array	read-only	An array of references to the Simple Storage available in this Resource Block.
<b>} ] @odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Status { }</b>	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Storage [ {</b>	array	read-only	An array of references to the Storage available in this Resource Block.
<b>} ] @odata.id</b>	string	read-only	The unique identifier for a resource.

## Property Details

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### CompositionState:

This property represents the current state of the Resource Block from a composition perspective.

string	Description
Composed	Final successful state of a Resource Block which has participated in composition.
Composing	Intermediate state indicating composition is in progress.
Failed	The final composition resulted in failure and manual intervention is required to fix it.
Unused	Indicates the Resource Block is free and can participate in composition.

### ResourceBlockType:

This property represents the types of resources available on this Resource Block.

string	Description
Compute	This Resource Block contains both Processor and Memory resources in a manner that creates a compute complex.
ComputerSystem	This Resource Block contains ComputerSystem resources.
Memory	This Resource Block contains Memory resources.
Network	This Resource Block contains Network resources, such as Ethernet Interfaces.
Processor	This Resource Block contains Processor resources.
Storage	This Resource Block contains Storage resources, such as Storage and Simple Storage.

## Role 1.2.0

This resource defines a user role to be used in conjunction with a Manager Account.

<b>Actions (v1.1+) { }</b>	object		The available actions for this resource.
<b>AssignedPrivileges [ ]</b>	array (string (enum))	read-write	The redfish privileges that this role includes. See <a href="#">AssignedPrivileges</a> in <i>Property Details</i> , below, for the possible values of this property.

<b>IsPredefined</b>	boolean	read-only	This property is used to indicate if the Role is one of the Redfish Predefined Roles vs a Custom role.
<b>OemPrivileges [ ]</b>	array (string)	read-write	The OEM privileges that this role includes.
<b>RoleId (v1.2+)</b>	string	read-only required on create	This property contains the name of the Role.

## Property Details

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### AssignedPrivileges:

The redfish privileges that this role includes.

string	Description
ConfigureComponents	Able to configure components managed by this service.
ConfigureManager	Able to configure Manager resources.
ConfigureSelf	Able to change the password for the current user Account.
ConfigureUsers	Able to configure Users and their Accounts.
Login	Able to log into the service and read resources.

## SecureBoot 1.0.2

This resource contains UEFI Secure Boot information. It represents properties for managing the UEFI Secure Boot functionality of a system.

<b>Actions {</b>	object		The available actions for this resource.
<b>#SecureBoot.ResetKeys { }</b>	object		This action is used to reset the Secure Boot keys. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
<b>SecureBootCurrentBoot</b>	string (enum)	read-only (null)	Secure Boot state during the current boot cycle. <i>See <a href="#">SecureBootCurrentBoot</a> in Property Details, below, for the possible values of this property.</i>
<b>SecureBootEnable</b>	boolean	read-write (null)	Enable or disable UEFI Secure Boot (takes effect on next boot).
<b>SecureBootMode</b>	string (enum)	read-only (null)	Current Secure Boot Mode. <i>See <a href="#">SecureBootMode</a> in Property Details, below, for the possible values of this property.</i>

## Action Details

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### ResetKeys

This action is used to reset the Secure Boot keys.

(This action takes no parameters.)

## Property Details

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### SecureBootCurrentBoot:

Secure Boot state during the current boot cycle.

string	Description
Disabled	Secure Boot is currently disabled.
Enabled	Secure Boot is currently enabled.

### SecureBootMode:

Current Secure Boot Mode.

string	Description

AuditMode	Secure Boot is currently in Audit Mode.
DeployedMode	Secure Boot is currently in Deployed Mode.
SetupMode	Secure Boot is currently in Setup Mode.
UserMode	Secure Boot is currently in User Mode.

## SerialInterface 1.1.1

This schema defines an asynchronous serial interface resource.

<b>Actions (v1.1+){ }</b>	object		The available actions for this resource.
<b>BitRate</b>	string (enum)	read-write	The receive and transmit rate of data flow, typically in bits-per-second (bps), over the serial connection. See <a href="#">BitRate</a> in Property Details, below, for the possible values of this property.
<b>ConnectorType</b>	string (enum)	read-only	The type of connector used for this interface. See <a href="#">ConnectorType</a> in Property Details, below, for the possible values of this property.
<b>DataBits</b>	string (enum)	read-write	The number of data bits that will follow the start bit over the serial connection. See <a href="#">DataBits</a> in Property Details, below, for the possible values of this property.
<b>FlowControl</b>	string (enum)	read-write	The type of flow control, if any, that will be imposed on the serial connection. See <a href="#">FlowControl</a> in Property Details, below, for the possible values of this property.
<b>InterfaceEnabled</b>	boolean	read-write (null)	This indicates whether this interface is enabled.
<b>Parity</b>	string (enum)	read-write	The type of parity used by the sender and receiver in order to detect errors over the serial connection. See <a href="#">Parity</a> in Property Details, below, for the possible values of this property.
<b>PinOut</b>	string (enum)	read-only (null)	The physical pin configuration needed for a serial connector. See <a href="#">PinOut</a> in Property Details, below, for the possible values of this property.
<b>SignalType</b>	string (enum)	read-only	The type of signal used for the communication connection - RS232 or RS485. See <a href="#">SignalType</a> in Property Details, below, for the possible values of this property.
<b>StopBits</b>	string (enum)	read-write	The period of time before the next start bit is transmitted. See <a href="#">StopBits</a> in Property Details, below, for the possible values of this property.

### Property Details

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#### BitRate:

The receive and transmit rate of data flow, typically in bits-per-second (bps), over the serial connection.

string
115200
1200
19200
230400
2400
38400
4800
57600
9600

#### ConnectorType:

The type of connector used for this interface.

<b>string</b>
DB25 Female
DB25 Male
DB9 Female
DB9 Male
mUSB
RJ11
RJ45
USB
uUSB

#### **DataBits:**

The number of data bits that will follow the start bit over the serial connection.

<b>string</b>
5
6
7
8

#### **FlowControl:**

The type of flow control, if any, that will be imposed on the serial connection.

<b>string</b>	<b>Description</b>
Hardware	Out of band flow control imposed.
None	No flow control imposed.
Software	XON/XOFF in-band flow control imposed.

#### **Parity:**

The type of parity used by the sender and receiver in order to detect errors over the serial connection.

<b>string</b>
Even
Mark
None
Odd
Space

#### **PinOut:**

The physical pin configuration needed for a serial connector.

<b>string</b>
Cisco
Cyclades
Digi

**SignalType:**

The type of signal used for the communication connection - RS232 or RS485.

string
Rs232
Rs485

**StopBits:**

The period of time before the next start bit is transmitted.

string
1
2

## ServiceRoot 1.2.0

This object represents the root Redfish service.

<b>AccountService {</b>	object		This is a link to the Account Service.
<b>    @odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Chassis {</b>	object		This is a link to a collection of Chassis.
<b>    @odata.id</b>	string	read-only	The unique identifier for a resource.
<b>CompositionService {</b>	object		This is a link to the CompositionService.
<b>    @odata.id</b>	string	read-only	The unique identifier for a resource.
<b>EventService {</b>	object		This is a link to the EventService.
<b>    @odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Fabrics {</b>	object		A link to a collection of all fabric entities.
<b>    @odata.id</b>	string	read-only	The unique identifier for a resource.
<b>JsonSchemas {</b>	object		This is a link to a collection of Json-Schema files.
<b>    @odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Links {</b>	object	required	Contains references to other resources that are related to this resource.
<b>    Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>    Sessions {</b>	object		Link to a collection of Sessions.
<b>        @odata.id</b>	string	read-only	The unique identifier for a resource.
<b>    }</b>			
<b>Managers {</b>	object		This is a link to a collection of Managers.
<b>    @odata.id</b>	string	read-only	The unique identifier for a resource.
<b>RedfishVersion</b>	string	read-only	The version of the Redfish service.

<b>Registries {</b>	object		This is a link to a collection of Registries.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>SessionService {</b>	object		This is a link to the Sessions Service.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>StorageServices (v1.1+)</b>		read-only	A link to a collection of all storage service entities.
<b>StorageSystems (v1.1+)</b>		read-only	This is a link to a collection of storage systems.
<b>Systems {</b>	object		This is a link to a collection of Systems.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>Tasks {</b>	object		This is a link to the Task Service.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>UpdateService {</b>	object		This is a link to the UpdateService.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>UUID</b>	string	read-only (null)	Unique identifier for a service instance. When SSDP is used, this value should be an exact match of the UUID value returned in a 200OK from an SSDP M-SEARCH request during discovery.

## Session 1.1.0

The Session resource describes a single connection (session) between a client and a Redfish service instance.

<b>Actions (v1.1+) { }</b>	object		The available actions for this resource.
<b>Password</b>	string	read-only required on create (null)	This property is used in a POST to specify a password when creating a new session. This property is null on a GET.
<b>UserName</b>	string	read-only required on create (null)	The UserName for the account for this session.

## SessionService 1.1.3

This is the schema definition for the Session Service. It represents the properties for the service itself and has links to the actual list of sessions.

<b>Actions (v1.1+) { }</b>	object		The Actions object contains the available custom actions on this resource.
<b>ServiceEnabled</b>	boolean	read-write (null)	This indicates whether this service is enabled. If set to false, the Session Service is disabled and any attempt to access it will fail. This means new sessions cannot be created, old sessions cannot be deleted though established sessions may continue operating.
<b>Sessions {</b>	object		Link to a collection of Sessions.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>SessionTimeout</b>	number (seconds)	read-write	This is the number of seconds of inactivity that a session may have before the session service closes the session due to inactivity.
<b>Status { }</b>	object		This type describes the status and health of a resource and its children. See the <a href="https://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.

## SimpleStorage 1.2.0

This is the schema definition for the Simple Storage resource. It represents the properties of a storage controller and its directly-attached devices.

<b>Actions</b> (v1.2+) { }	object		The available actions for this resource.
<b>Devices</b> [ { }	array	read-write	The storage devices associated with this resource.
<b>CapacityBytes</b> (v1.1+)	number (bytes)	read-only (null)	The size of the storage device.
<b>Manufacturer</b>	string	read-only (null)	The name of the manufacturer of this device.
<b>Model</b>	string	read-only (null)	The product model number of this device.
<b>Name</b>	string	read-only	The name of the resource or array element.
<b>Oem</b> { }	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Status</b> { } }]	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Links</b> (v1.2+) { }	object		Contains references to other resources that are related to this resource.
<b>Chassis</b> { }	object		A reference to the Chassis which contains this Simple Storage.
<b>@odata.id</b> }	string	read-only	The unique identifier for a resource.
<b>Oem</b> { } }	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Status</b> { }	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>UefiDevicePath</b>	string	read-only (null)	The UEFI device path used to access this storage controller.

## SoftwareInventory 1.1.1

This schema defines an inventory of software components.

<b>Actions</b> { }	object		The Actions object contains the available custom actions on this resource.
<b>LowestSupportedVersion</b> (v1.1+)	string	read-only (null)	A string representing the lowest supported version of this software.
<b>RelatedItem</b> (v1.1+) [ { }	array	read-only	The ID(s) of the resources associated with this software inventory item.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>SoftwareId</b> (v1.1+)	string	read-only	A string representing the implementation-specific ID for identifying this software.
<b>Status</b> { }	object	(null)	This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>UefiDevicePaths</b> (v1.1+) [ ]	array (string, null)	read-only	A list of strings representing the UEFI Device Path(s) of the component(s) associated with this software inventory item.
<b>Updateable</b>	boolean	read-only (null)	Indicates whether this software can be updated by the update service.

<b>Version</b>	string	read-only (null)	A string representing the version of this software.
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## Storage 1.3.0

This schema defines a storage subsystem and its respective properties. A storage subsystem represents a set of storage controllers (physical or virtual) and the resources such as volumes that can be accessed from that subsystem.

<b>Actions {</b>	object		The available actions for this resource.
<b>#Storage.SetEncryptionKey { }</b>	object		This action is used to set the encryption key for the storage subsystem. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
<b>Drives [ {</b>	array	read-only	The set of drives attached to the storage controllers represented by this resource.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>Links {</b>	object		Contains references to other resources that are related to this resource.
<b>Enclosures [ {</b>	array	read-only	An array of references to the chassis to which this storage subsystem is attached.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Redundancy [ {</b>	array	read-write	Redundancy information for the storage subsystem.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>Status { }</b>	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>StorageControllers [ {</b>	array	read-only	The set of storage controllers represented by this resource.
<b>Actions (v1.2+) { }</b>	object		The available actions for this resource.
<b>AssetTag (v1.1+)</b>	string	read-write (null)	The user assigned asset tag for this storage controller.
<b>FirmwareVersion (v1.1+)</b>	string	read-only (null)	The firmware version of this storage Controller.
<b>Identifiers [ {} ]</b>	array (object)		The Durable names for the storage controller. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.v1_1_0.json</a> schema for details on this property.
<b>Links (v1.1+){</b>	object		Contains references to other resources that are related to this resource.
<b>Endpoints [ {</b>	array	read-write	An array of references to the endpoints that connect to this controller.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Manufacturer (v1.1+)</b>	string	read-only (null)	This is the manufacturer of this storage controller.
<b>MemberId (v1.1+)</b>	string	read-only	This is the identifier for the member within the collection.
<b>Model (v1.1+)</b>	string	read-only	This is the model number for the storage controller.

		(null)	
<b>Name</b> (v1.3+)	string	read-only (null)	The name of the Storage Controller.
<b>Oem</b> (v1.1+) { }	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>PartNumber</b> (v1.1+)	string	read-only (null)	The part number for this storage controller.
<b>SerialNumber</b> (v1.1+)	string	read-only (null)	The serial number for this storage controller.
<b>SKU</b> (v1.1+)	string	read-only (null)	This is the SKU for this storage controller.
<b>SpeedGbps</b> (v1.1+)	number (Gbit/s)	read-only (null)	The speed of the storage controller interface.
<b>Status</b> (v1.1+) { }	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>SupportedControllerProtocols</b> [ ]	array (string (enum))	read-only	This represents the protocols by which this storage controller can be communicated to. See <a href="#">SupportedControllerProtocols</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>SupportedDeviceProtocols</b> [ ]	array (string (enum))	read-only	This represents the protocols which the storage controller can use to communicate with attached devices. See <a href="#">SupportedDeviceProtocols</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>Volumes</b> { }	object		The set of volumes produced by the storage controllers represented by this resource.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.

## Action Details

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### **SetEncryptionKey**

This action is used to set the encryption key for the storage subsystem.

(This action takes no parameters.)

## Property Details

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### **SupportedControllerProtocols:**

This represents the protocols by which this storage controller can be communicated to.

string	Description
AHCI	Advanced Host Controller Interface.
FC	Fibre Channel.
FCoE	Fibre Channel over Ethernet.
FCP (v1.2+)	Fibre Channel Protocol for SCSI.
FICON (v1.2+)	Fibre CONnection (FICON).
FTP	File Transfer Protocol.
HTTP	Hypertext Transport Protocol.
HTTPS	Secure Hypertext Transport Protocol.
iSCSI	Internet SCSI.

NFSv3	Network File System version 3.
NFSv4	Network File System version 4.
NVMe	Non-Volatile Memory Express.
NVMeOverFabrics	NVMe over Fabrics.
PCIe	PCI Express (Vendor Proprietary).
SAS	Serial Attached SCSI.
SATA	Serial AT Attachment.
SFTP	Secure File Transfer Protocol.
SMB	Server Message Block (aka CIFS Common Internet File System).
UHCI	Universal Host Controller Interface.
USB	Universal Serial Bus.

**SupportedDeviceProtocols:**

This represents the protocols which the storage controller can use to communicate with attached devices.

string	Description
AHCI	Advanced Host Controller Interface.
FC	Fibre Channel.
FCoE	Fibre Channel over Ethernet.
FCP (v1.2+)	Fibre Channel Protocol for SCSI.
FICON (v1.2+)	Fibre CONnection (FICON).
FTP	File Transfer Protocol.
HTTP	Hypertext Transport Protocol.
HTTPS	Secure Hypertext Transport Protocol.
iSCSI	Internet SCSI.
NFSv3	Network File System version 3.
NFSv4	Network File System version 4.
NVMe	Non-Volatile Memory Express.
NVMeOverFabrics	NVMe over Fabrics.
PCIe	PCI Express (Vendor Proprietary).
SAS	Serial Attached SCSI.
SATA	Serial AT Attachment.
SFTP	Secure File Transfer Protocol.
SMB	Server Message Block (aka CIFS Common Internet File System).
UHCI	Universal Host Controller Interface.
USB	Universal Serial Bus.

## Switch 1.0.2

Switch contains properties describing a simple fabric switch.

Actions {	object	The available actions for this resource.
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<b>#Switch.Reset { }</b>	object		This action is used to reset this switch. For more information, see the <a href="#">Action Details</a> section below.
<b>AssetTag</b>	string	read-write (null)	The user assigned asset tag for this switch.
<b>DomainID</b>	number	read-only (null)	The Domain ID for this switch.
<b>IndicatorLED</b>	string (enum)	read-write (null)	The state of the indicator LED, used to identify the switch. See <a href="#">IndicatorLED</a> in Property Details, below, for the possible values of this property.
<b>IsManaged</b>	boolean	read-write (null)	This indicates whether the switch is in a managed or unmanaged state.
<b>Links {</b>	object		Contains references to other resources that are related to this resource.
<b>Chassis {</b>	object		A reference to the chassis which contains this switch.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>ManagedBy [ {</b>	array	read-only	An array of references to the managers that manage this switch.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="http://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>LogServices {</b>	object	(null)	A reference to the collection of Log Services associated with this system.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>Manufacturer</b>	string	read-only (null)	This is the manufacturer of this switch.
<b>Model</b>	string	read-only (null)	The product model number of this switch.
<b>PartNumber</b>	string	read-only (null)	The part number for this switch.
<b>Ports {</b>	object		A collection of references to the ports for this switch.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>PowerState</b>	string (enum)	read-only (null)	This is the current power state of the switch. See <a href="#">PowerState</a> in Property Details, below, for the possible values of this property.
<b>Redundancy [ {</b>	array	read-write	Redundancy information for the switches.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>SerialNumber</b>	string	read-only (null)	The serial number for this switch.
<b>SKU</b>	string	read-only (null)	This is the SKU for this switch.
<b>Status { }</b>	object		This type describes the status and health of a resource and its children. See the <a href="http://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>SwitchType</b>	string (enum)	read-only (null)	The protocol being sent over this switch. See <a href="#">SwitchType</a> in Property Details, below, for the possible values of this property.
<b>TotalSwitchWidth</b>	number	read-only (null)	The total number of lanes, phys, or other physical transport links that this switch contains.

## Action Details

**Reset**

This action is used to reset this switch.

(This action takes no parameters.)

**Property Details**

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**IndicatorLED:**

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

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

**PowerState:**

This is the current power state of the switch.

string	Description
Off	The state is powered Off.
On	The state is powered On.
PoweringOff	A temporary state between On and Off.
PoweringOn	A temporary state between Off and On.

**SwitchType:**

The protocol being sent over this switch.

string	Description
AHCI	Advanced Host Controller Interface
FC	Fibre Channel
FCoE	Fibre Channel over Ethernet
FTP	File Transfer Protocol
HTTP	Hypertext Transport Protocol
HTTPS	Secure Hypertext Transport Protocol
iSCSI	Internet SCSI
NFSv3	Network File System version 3
NFSv4	Network File System version 4
NVMe	Non-Volatile Memory Express
NVMeOverFabrics	NVMe over Fabrics
PCIe	PCI Express (Vendor Proprietary)
SAS	Serial Attached SCSI
SATA	Serial AT Attachment
SFTP	Secure File Transfer Protocol
SMB	Server Message Block (aka CIFS Common Internet File System)
UHCI	Universal Host Controller Interface
USB	Universal Serial Bus

## Task 1.1.0

This resource contains information about a specific Task scheduled by or being executed by a Redfish service's Task Service.

<b>Actions (v1.1+){}</b>	object		The available actions for this resource.
<b>EndTime</b>	string	read-only	The date-time stamp that the task was last completed.
<b>Messages [ { } ]</b>	array (object)		This is an array of messages associated with the task. This type describes a Message returned by the Redfish service. See the <a href="http://redfish.dmtf.org/schemas/v1/Message.v1_0_6.json">redfish.dmtf.org/schemas/v1/Message.v1_0_6.json</a> schema for details on this property.
<b>StartTime</b>	string	read-only	The date-time stamp that the task was last started.
<b>TaskState</b>	string (enum)	read-only	The state of the task. See <a href="#">TaskState</a> in Property Details, below, for the possible values of this property.
<b>TaskStatus</b>	string (enum)	read-only	This is the completion status of the task. See <a href="#">TaskStatus</a> in Property Details, below, for the possible values of this property.

### Property Details

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#### TaskState:

The state of the task.

string	Description
Completed	Task has completed.
Exception	Task has stopped due to an exception condition.
Interrupted	Task has been interrupted.
Killed	Task was terminated.
New	A new task.
Pending	Task is pending and has not started.
Running	Task is running normally.
Service	Task is running as a service.
Starting	Task is starting.
Stopping	Task is in the process of stopping.
Suspended	Task has been suspended.

#### TaskStatus:

This is the completion status of the task.

string	Description
Critical	A critical condition exists that requires immediate attention.
OK	Normal.
Warning	A condition exists that requires attention.

## TaskService 1.1.0

This is the schema definition for the Task Service. It represents the properties for the service itself and has links to the actual list of tasks.

<b>Actions (v1.1+){}</b>	object		The available actions for this resource.
<b>CompletedTaskOverWritePolicy</b>	string (enum)	read-only	Overwrite policy of completed tasks. See <a href="#">CompletedTaskOverWritePolicy</a> in Property Details, below, for the

				<i>possible values of this property.</i>
<b>DateTime</b>	string	read-only (null)		The current DateTime (with offset) setting that the task service is using.
<b>LifeCycleEventOnTaskStateChange</b>	boolean	read-only		Send an Event upon Task State Change.
<b>ServiceEnabled</b>	boolean	read-write (null)		This indicates whether this service is enabled.
<b>Status { }</b>	object			This type describes the status and health of a resource and its children. See the <a href="http://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Tasks { }</b>	object			References to the Tasks collection.
<b>@odata.id</b>	string	read-only		The unique identifier for a resource.

## Property Details

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### CompletedTaskOverWritePolicy:

Overwrite policy of completed tasks.

string	Description
Manual	Completed tasks are not automatically overwritten.
Oldest	Oldest completed tasks are overwritten.

## Thermal 1.3.1

This is the schema definition for the Thermal properties. It represents the properties for Temperature and Cooling.

<b>Actions (v1.3+) {}</b>	object		The available actions for this resource.
<b>Fans [ {</b>	array	read-write	This is the definition for fans.
<b>Actions (v1.3+) {}</b>	object		The available actions for this resource.
<b>FanName (deprecated v1.2)</b>	string	read-only (null)	Name of the fan. <i>Deprecated v1.2+. This property has been Deprecated in favor of Thermal.v1_1_0.Thermal.Fan.Name</i>
<b>IndicatorLED (v1.2+)</b>	string (enum)	read-write (null)	The state of the indicator LED, used to identify this Fan. See <a href="#">IndicatorLED</a> in Property Details, below, for the possible values of this property.
<b>LowerThresholdCritical</b>	number	read-only (null)	Below normal range but not yet fatal.
<b>LowerThresholdFatal</b>	number	read-only (null)	Below normal range and is fatal.
<b>LowerThresholdNonCritical</b>	number	read-only (null)	Below normal range.
<b>Manufacturer (v1.2+)</b>	string	read-only (null)	This is the manufacturer of this Fan.
<b>MaxReadingRange</b>	number	read-only (null)	Maximum value for Reading.
<b>MemberId</b>	string	read-only	This is the identifier for the member within the collection.
<b>MinReadingRange</b>	number	read-only (null)	Minimum value for Reading.
<b>Model (v1.2+)</b>	string	read-only (null)	The model number for this Fan.
<b>Name (v1.1+)</b>	string	read-only	Name of the fan.

		(null)	
<b>Oem { }</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>PartNumber (v1.2+)</b>	string	read-only (null)	The part number for this Fan.
<b>PhysicalContext</b>	string (enum)	read-only	Describes the area or device associated with this fan. See <a href="#">PhysicalContext</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>Reading</b>	number	read-only (null)	Current fan speed.
<b>ReadingUnits (v1.1+)</b>	string (enum)	read-only (null)	Units in which the reading and thresholds are measured. See <a href="#">ReadingUnits</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>Redundancy [ {</b>	array	read-write	A reference to a set of Redundancy entities that provide redundant services for this resource. See the <a href="#">Redundancy</a> object definition in the Common objects section.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>RelatedItem [ {</b>	array	read-only	The ID(s) of the resources serviced with this fan.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>SerialNumber (v1.2+)</b>	string	read-only (null)	The serial number for this Fan.
<b>SparePartNumber (v1.2+)</b>	string	read-only (null)	The spare part number for this Fan.
<b>Status { }</b>	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>UpperThresholdCritical</b>	number	read-only (null)	Above normal range but not yet fatal.
<b>UpperThresholdFatal</b>	number	read-only (null)	Above normal range and is fatal.
<b>UpperThresholdNonCritical</b> }]	number	read-only (null)	Above normal range.
<b>Redundancy [ {</b>	array	read-write	This structure is used to show redundancy for fans. The Component ids will reference the members of the redundancy groups.
<b>@odata.id</b> }]	string	read-only	The unique identifier for a resource.
<b>Status { }</b>	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Temperatures [ {</b>	array	read-write	This is the definition for temperature sensors.
<b>Actions (v1.3+) { }</b>	object		The available actions for this resource.
<b>LowerThresholdCritical</b>	number (Celsius)	read-only (null)	Below normal range but not yet fatal.
<b>LowerThresholdFatal</b>	number (Celsius)	read-only (null)	Below normal range and is fatal.
<b>LowerThresholdNonCritical</b>	number (Celsius)	read-only (null)	Below normal range.

<b>MaxReadingRangeTemp</b>	number (Celsius)	read-only (null)	Maximum value for ReadingCelsius.
<b>MemberId</b>	string	read-only	This is the identifier for the member within the collection.
<b>MinReadingRangeTemp</b>	number (Celsius)	read-only (null)	Minimum value for ReadingCelsius.
<b>Name</b>	string	read-only (null)	Temperature sensor name.
<b>Oem {}</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>PhysicalContext</b>	string (enum)	read-only	Describes the area or device to which this temperature measurement applies. See <a href="#">PhysicalContext</a> in <i>Property Details</i> , below, for the possible values of this property.
<b>ReadingCelsius</b>	number (Celsius)	read-only (null)	Temperature.
<b>RelatedItem [ {</b>	array	read-only	Describes the areas or devices to which this temperature measurement applies.
<b>} ] @odata.id</b>	string	read-only	The unique identifier for a resource.
<b>SensorNumber</b>	number	read-only (null)	A numerical identifier to represent the temperature sensor.
<b>Status {}</b>	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>UpperThresholdCritical</b>	number (Celsius)	read-only (null)	Above normal range but not yet fatal.
<b>UpperThresholdFatal</b>	number (Celsius)	read-only (null)	Above normal range and is fatal.
<b>} ] UpperThresholdNonCritical</b>	number (Celsius)	read-only (null)	Above normal range.

## Property Details

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### IndicatorLED:

The state of the indicator LED, used to identify this Fan.

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

### PhysicalContext:

Describes the area or device to which this temperature measurement applies.

string	Description
Back	The back of the chassis
Backplane	A backplane within the chassis
ComputeBay	Within a compute bay
CPU	A Processor (CPU)
Exhaust	The exhaust point of the chassis

ExpansionBay	Within an expansion bay
Front	The front of the chassis
GPU	A Graphics Processor (GPU)
Intake	The intake point of the chassis
Lower	The lower portion of the chassis
NetworkBay	Within a networking bay
NetworkingDevice	A networking device
PowerSupply	A power supply
PowerSupplyBay	Within a power supply bay
Room	The room
StorageBay	Within a storage bay
StorageDevice	A storage device
SystemBoard	The system board (PCB)
Upper	The upper portion of the chassis
VoltageRegulator	A voltage regulator device

**ReadingUnits:**

Units in which the reading and thresholds are measured.

string	Description
Percent	Indicates that the fan reading and thresholds are measured in percentage.
RPM	Indicates that the fan reading and thresholds are measured in rotations per minute.

## UpdateService 1.2.0

This is the schema definition for the Update Service. It represents the properties for the service itself and has links to collections of firmware and software inventory.

<b>Actions {</b>	object		The Actions object contains the available custom actions on this resource.
<b>#UpdateService.SimpleUpdate { }</b>	object		This action is used to update software components. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
<b>FirmwareInventory {</b>	object	(null)	An inventory of firmware.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.
<b>HttpPushUri (v1.1+)</b>	string	read-only	The URI used to perform an HTTP or HTTPS push update to the Update Service.
<b>HttpPushUriTargets (v1.2+) [ ]</b>	array (string, null)	read-write	The array of URIs indicating the target for applying the update image.
<b>HttpPushUriTargetsBusy (v1.2+)</b>	boolean	read-write (null)	This represents if the HttpPushUriTargets property is reserved by any client.
<b>ServiceEnabled</b>	boolean	read-write (null)	This indicates whether this service is enabled.
<b>SoftwareInventory {</b>	object	(null)	An inventory of software.
<b>@odata.id</b>	string	read-only	The unique identifier for a resource.

}				
Status { }	object	(null)	This type describes the status and health of a resource and its children. See the <a href="http://redfish.dmtf.org/schemas/v1/Resource.json">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.	

## Action Details

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### SimpleUpdate

This action is used to update software components.

(This action takes no parameters.)

## VirtualMedia 1.1.0

This resource allows monitoring and control of an instance of virtual media (e.g. a remote CD, DVD, or USB device) functionality provided by a Manager for a system or device.

<b>Actions (v1.1+){}</b>	object		The available actions for this resource.
<b>ConnectedVia</b>	string (enum)	read-only (null)	Current virtual media connection methods. See <a href="#">ConnectedVia</a> in Property Details, below, for the possible values of this property.
<b>Image</b>	string	read-only (null)	A URI providing the location of the selected image.
<b>ImageName</b>	string	read-only (null)	The current image name.
<b>Inserted</b>	boolean	read-only (null)	Indicates if virtual media is inserted in the virtual device.
<b>MediaTypes [ ]</b>	array (string (enum))	read-only	This is the media types supported as virtual media. See <a href="#">MediaTypes</a> in Property Details, below, for the possible values of this property.
<b>WriteProtected</b>	boolean	read-only (null)	Indicates the media is write protected.

## Property Details

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### ConnectedVia:

Current virtual media connection methods.

string	Description
Applet	Connected to a client application.
NotConnected	No current connection.
Oem	Connected via an OEM-defined method.
URI	Connected to a URI location.

### MediaTypes:

This is the media types supported as virtual media.

string	Description
CD	A CD-ROM format (ISO) image.
DVD	A DVD-ROM format image.
Floppy	A floppy disk image.
USBStick	An emulation of a USB storage device.

## VLANNetworkInterface 1.1.0

This resource describes the attributes of a Virtual LAN.

<b>Actions (v1.1+){}</b>	object		The available actions for this resource.
<b>VLANEnable</b>	boolean	read-write required on create (null)	This indicates if this VLAN is enabled.
<b>VLANId</b>	number	read-write required on create (null)	This indicates the VLAN identifier for this VLAN.

## Volume 1.0.3

Volume contains properties used to describe a volume, virtual disk, LUN, or other logical storage entity for any system.

<b>Actions {</b>	object		The available actions for this resource.
<b>#Volume.Initialize {}</b>	object		This action is used to prepare the contents of the volume for use by the system. <i>For more information, see the <a href="#">Action Details</a> section below.</i>
<b>BlockSizeBytes</b>	number (bytes)	read-only (null)	The size of the smallest addressable unit (Block) of this volume in bytes.
<b>CapacityBytes</b>	number (bytes)	read-only (null)	The size in bytes of this Volume.
<b>Encrypted</b>	boolean	read-write (null)	Is this Volume encrypted.
<b>EncryptionTypes []</b>	array (string (enum))	read-write	The types of encryption used by this Volume. <i>See <a href="#">EncryptionTypes</a> in Property Details, below, for the possible values of this property.</i>
<b>Identifiers [{}]</b>	array (object)		The Durable names for the volume. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.v1_1_0.json</a> schema for details on this property.
<b>Links {</b>	object		Contains references to other resources that are related to this resource.
<b>Drives [{</b>	array	read-only	An array of references to the drives which contain this volume. This will reference Drives that either wholly or only partly contain this volume.
<b>@odata.id {}</b>	string	read-only	The unique identifier for a resource.
<b>Oem {}</b>	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>Operations [{</b>	array	read-write	The operations currently running on the Volume.
<b>AssociatedTask {</b>	object		A reference to the task associated with the operation if any.
<b>@odata.id {}</b>	string	read-only	The unique identifier for a resource.
<b>OperationName</b>	string	read-only (null)	The name of the operation.
<b>PercentageComplete {}</b>	number	read-only (null)	The percentage of the operation that has been completed.
<b>OptimumIOSizeBytes</b>	number (bytes)	read-only (null)	The size in bytes of this Volume's optimum IO size.
<b>Status {}</b>	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>VolumeType</b>	string (enum)	read-only (null)	The type of this volume. <i>See <a href="#">VolumeType</a> in Property Details, below, for the possible values of this property.</i>

### Action Details

**Initialize**

This action is used to prepare the contents of the volume for use by the system.

(This action takes no parameters.)

**Property Details****EncryptionTypes:**

The types of encryption used by this Volume.

string	Description
ControllerAssisted	The volume is being encrypted by the storage controller entity.
NativeDriveEncryption	The volume is utilizing the native drive encryption capabilities of the drive hardware.
SoftwareAssisted	The volume is being encrypted by software running on the system or the operating system.

**VolumeType:**

The type of this volume.

string	Description
Mirrored	The volume is a mirrored device.
NonRedundant	The volume is a non-redundant storage device.
RawDevice	The volume is a raw physical device without any RAID or other virtualization applied.
SpannedMirrors	The volume is a spanned set of mirrored devices.
SpannedStripesWithParity	The volume is a spanned set of devices which uses parity to retain redundant information.
StripedWithParity	The volume is a device which uses parity to retain redundant information.

**Zone 1.1.0**

Switch contains properties describing a simple fabric zone.

<b>Actions</b> (v1.1+) {}	object		The available actions for this resource.
<b>Links</b> { }	object		Contains references to other resources that are related to this resource.
<b>Endpoints</b> [ {	array	read-only	An array of references to the endpoints that are contained in this zone.
@odata.id }]	string	read-only	The unique identifier for a resource.
<b>InvolvedSwitches</b> [ {	array	read-only	An array of references to the switches that are utilized in this zone.
@odata.id }]	string	read-only	The unique identifier for a resource.
<b>Oem</b> {}	object		See the OEM object definition in the <a href="#">Common properties</a> section. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.
<b>ResourceBlocks</b> (v1.1+) [ {	array	read-only	An array of references to the Resource Blocks that are used in this Zone.
@odata.id }]	string	read-only	The unique identifier for a resource.
<b>Status</b> {}	object		This type describes the status and health of a resource and its children. See the <a href="#">redfish.dmtf.org/schemas/v1/Resource.json</a> schema for details on this property.

**Redfish documentation generator**

This document was created using the Redfish Documentation Generator utility, which uses the contents of the Redfish schema files (in

JSON schema format) to automatically generate the bulk of the text. The source code for the utility is available for download at the DMTF's Github repository located at <http://www.github.com/DMTF/Redfish-Tools>.

## ANNEX A

### Change log

Version	Date	Description
2018.2	2018-08-10	Release built from Redfish schemas released in DSP8010 version 2018.2
		Expanded introduction section with additional information.
		Expanded Common Objects section to include previously excluded objects.
		Added URI listings for all resources for use with Redfish Specification v1.6.0
		Added Resource Collection table showing schema names and URIs.
		Restructured common objects section utilizing new Documentation Generator functions.
2018.1	2018-05-01	Initial release. Built from Redfish schemas released in DSP8010 version 2018.1
2017.3	2018-10-30	Historical version build from DSP8010 v2017.3 for use in comparisons with later releases.
2017.2	2018-10-30	Historical version build from DSP8010 v2017.2 for use in comparisons with later releases.
2017.1	2018-10-30	Historical version build from DSP8010 v2017.1 for use in comparisons with later releases.
2016.3	2018-10-30	Historical version build from DSP8010 v2016.3 for use in comparisons with later releases.
2016.2	2018-10-30	Historical version build from DSP8010 v2016.2 for use in comparisons with later releases.
2016.1	2018-10-30	Historical version build from DSP8010 v2016.1 for use in comparisons with later releases.
2017.0a	2017-05-19	Work in progress release to gather feedback on content and format.