



Redfish

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Redfish Property Guide

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This document's normative language is English. Translation into other languages is permitted.

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.

Who should read this document?

This document is intended primarily as a reference for Schema authors to locate existing property definitions within the Redfish Schema. End users and other consumers of Redfish data may also use this guide to look up property definitions without regard to their location in the Schema.

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 property defined in the DMTF-published Redfish Schemas.

The property-level details include:

Column	Purpose
Property Name	The name of the JSON property as it appears, case sensitive, in the JSON payload.
Defined in Schemas	The names of the Redfish Schemas where this property is defined, and therefore in which Resources it may appear. For properties that appear within embedded JSON objects, the object name appears in parentheses.
Type	The JSON data types for the property, which can include boolean, number, string, or object. String types that use defined enumerations state (<i>enum</i>). Number types state units, where used.
Description	The description of the property, as copied directly from the Schema <i>Description</i> definition, or, for properties that appear in multiple Schemas, a general description of its usage in any of the listed Schemas.

Reference Guide

The DMTF's [Redfish Documentation Generator](#) automatically generates the bulk of the text from the Schema files from the DMTF Redfish Schema DSP8010 bundle and merges that text with supplemental text to build this guide.

Property Name	Defined In Schema(s)	Type	Description
AccelerationFunction	Processor (FPGA > ReconfigurationSlots)	object	The reference to the acceleration function provided by the code programmed into a reconfiguration slot.
AccelerationFunctionType	AccelerationFunction	string (enum)	The acceleration function type.
AccelerationFunctions	Processor	object	The link to the collection of acceleration functions associated with this processor.
AccountLockoutCounterResetAfter	AccountService	integer	The period of time, in seconds, between the last failed login attempt and the reset of the lockout threshold counter. This value must be less than or equal to the AccountLockoutDuration value. A reset sets the counter to `0`.
AccountLockoutCounterResetEnabled	AccountService	boolean	An indication of whether the threshold counter is reset after AccountLockoutCounterResetAfter expires. If `true`, it is reset. If `false`, only a successful login resets the threshold counter and if the user reaches the AccountLockoutThreshold limit, the account will be locked out indefinitely and only an administrator-issued reset clears the threshold counter. If this property is absent, the default is `true`.
AccountLockoutDuration	AccountService	integer	The period of time, in seconds, that an account is locked after the number of failed login attempts reaches the account lockout threshold, within the period between the last failed login attempt and the reset of the lockout threshold counter. If this value is `0`, no lockout will occur. If the AccountLockoutCounterResetEnabled value is `false`, this property is ignored.
AccountLockoutThreshold	AccountService	integer	The number of allowed failed login attempts before a user account is locked for a specified duration. If `0`, the account is never locked.
AccountProviderType	AccountService (ActiveDirectory), AccountService (LDAP), ExternalAccountProvider	string (enum)	The type of external account provider to which this Service connects.
AccountService	ServiceRoot	object	The link to the Account Service.

Accounts	AccountService	object	The collection of manager accounts.
Accuracy	MetricDefinition, Sensor	number	The estimated percent error of measured versus actual values.
Actions	<i>various</i> (AccelerationFunction, AccountService ...)	object	The available actions for this Resource.
	Volume	object	The available actions for this resource.
Activation	Sensor (Thresholds > LowerCaution), Sensor (Thresholds > LowerCritical), Sensor (Thresholds > LowerFatal), Sensor (Thresholds > UpperCaution), Sensor (Thresholds > UpperCritical), Sensor (Thresholds > UpperFatal), Triggers (NumericThresholds > LowerCritical), Triggers (NumericThresholds > LowerWarning), Triggers (NumericThresholds > UpperCritical), Triggers (NumericThresholds > UpperWarning)	string (enum)	The direction of crossing that activates this threshold.
ActiveDirectory	AccountService	object	The first Active Directory external account provider that this Account Service supports.
ActiveLinkTechnology	NetworkPort	string (enum)	Network port active link technology.
ActiveSoftwareImage	Manager (Links)	object	The link to the SoftwareInventory Resource that represents the active firmware image for this manager.
	Bios (Links)	object	The link to the SoftwareInventory that represents the active BIOS firmware image.
Add	Manager (Actions > ModifyRedundancySet (Action))	array	An array of managers to add to the redundancy set.
AddResourceBlock (Action)	ComputerSystem (Actions)	object	This action adds a Resource Block to a system.
AdditionalExternalAccountProviders	AccountService	object	The additional external account providers that this Account Service uses.
AddressParityError	MemoryMetrics (HealthData > AlarmTrips)	boolean	An indication of whether an address parity error was detected that a retry could not correct.
AddressRangeType	MemoryChunks	string (enum)	Memory type of this memory chunk.
AdjustedMaxAllowableOperatingValue	Thermal (Temperatures)	integer	The adjusted maximum allowable

			operating temperature for this equipment based on the current environmental conditions.
	Sensor	number	The adjusted maximum allowable operating value for this equipment based on the current environmental conditions.
AdjustedMinAllowableOperatingValue	Thermal (Temperatures)	integer	The adjusted minimum allowable operating temperature for this equipment based on the current environmental conditions.
	Sensor	number	The adjusted minimum allowable operating value for this equipment based on the current environmental conditions.
AlarmTrips	MemoryMetrics (HealthData)	object	Alarm trip information about the memory.
Alias	BootOption	string (enum)	The alias of this boot source.
AliasBootOrder	ComputerSystem (Boot)	array	Ordered array of boot source aliases representing the persistent boot order associated with this computer system.
AllocationAlignmentMiB	Memory	integer	The boundary that memory regions are allocated on, measured in mebibytes (MiB).
AllocationIncrementMiB	Memory	integer	The size of the smallest unit of allocation for a memory region in mebibytes (MiB).
AllowFIPVLANDiscovery	NetworkDeviceFunction (FibreChannel)	boolean	An indication of whether the FCoE Initialization Protocol (FIP) populates the FCoE VLAN ID.
AllowOverprovisioning	CompositionService	boolean	An indication of whether this service is allowed to overprovision a composition relative to the composition request.
AllowZoneAffinity	CompositionService	boolean	An indication of whether a client can request that a specific Resource Zone fulfill a composition request.
AllowableValues	ActionInfo (Parameters)	array	The allowable values for this parameter as applied to this action target.
AllowedSpeedsMHz	Memory	array	Speeds supported by this memory.
AllowsBlockProvisioning	MemoryDomain	boolean	An indication of whether this memory domain supports the provisioning of blocks of memory.
AllowsMemoryChunkCreation	MemoryDomain	boolean	An indication of whether this memory domain supports the creation of memory chunks.
AllowsMirroring	MemoryDomain	boolean	An indication of whether this memory domain supports the creation of

			memory chunks with mirroring enabled.
AllowsSparing	MemoryDomain	boolean	An indication of whether this memory domain supports the creation of memory chunks with sparing enabled.
AlternativeNames	CertificateService (Actions > GenerateCSR (Action))	array	The additional host names of the component to secure.
ApparentVA	Sensor	number	The product of voltage and current for an AC circuit, in Volt-Amperes units.
AppendLimit	MetricReportDefinition	integer	The maximum number of entries that can be appended to a metric report. When the metric report reaches its limit, its behavior is dictated by the ReportUpdates property.
ApplyTime	UpdateService (HttpPushUriOptions > HttpPushUriApplyTime)	string (enum)	The time when to apply the HttpPushUri-provided software update.
ArchiveFile	MessageRegistryFile (Location)	string	If the service hosts the Message Registry in an archive file, the name of the file within the archive.
	JsonSchemaFile (Location)	string	The name of the file in the archive, if the schema is hosted on the service in an archive file.
ArchiveUri	MessageRegistryFile (Location)	string	If the Message Registry is hosted on the service in an archive file, the link to the archive file.
	JsonSchemaFile (Location)	string	The link to an archive file, if the schema is hosted on the service in an archive file.
Assemblies	Assembly	array	The assembly records.
Assembly	Chassis, Drive, Memory, NetworkAdapter, PCIeDevice, Power (PowerSupplies), Processor, Storage (StorageControllers), Thermal (Fans)	object	The reference to the Assembly Resource associated with this item.
AssetTag	Chassis, ComputerSystem, Drive, PCIeDevice, Storage (StorageControllers), Switch	string	The user-assigned asset tag for this device.
AssignablePhysicalPorts	NetworkDeviceFunction	array	An array of physical ports to which this network device function may be assigned.
AssignedPrivileges	Role	array	The Redfish privileges for this Role.
AssociatedEndpoints	Port (Links)	array	An array of links to the endpoints that connect through this port.

AssociatedNetworkAddresses	NetworkPort	array	An array of configured MAC or WWN network addresses 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.
AssociatedTask	Volume (Operations)	object	A reference to the task associated with the operation if any.
	Drive (Operations)	object	The link to the task associated with the operation, if any.
AttributeName	AttributeRegistry (RegistryEntries > Attributes)	string	The unique name for the attribute.
AttributeRegistry	Bios	string	The Resource ID of the Attribute Registry that has the system-specific information about a BIOS Resource.
Attributes	AttributeRegistry (RegistryEntries)	array	An array of attributes and their possible values.
	Bios	object	The manufacturer- or provider-specific list of BIOS attributes.
AuthFailureLoggingThreshold	AccountService	integer	The number of authorization failures that are allowed before the failed attempt is logged to the manager log.
AuthNoneRole	HostInterface (Links)	object	The link to the Redfish Role that contains the privileges on this Host Interface when no authentication is performed.
AuthNoneRoleId	HostInterface	string	The role when no authentication on this interface is used.
Authentication	AccountService (ActiveDirectory), AccountService (LDAP), ExternalAccountProvider	object	The authentication information for the external account provider.
AuthenticationMethod	NetworkDeviceFunction (iSCSIBoot)	string (enum)	The iSCSI boot authentication method for this network device function.
AuthenticationModes	HostInterface	array	The authentication modes available on this interface.
AuthenticationType	AccountService (ActiveDirectory > Authentication), AccountService (LDAP > Authentication), ExternalAccountProvider (Authentication)	string (enum)	The type of authentication used to connect to the external account provider.
AutoDSTEnabled	Manager	boolean	An indication of whether the manager is configured for automatic Daylight Saving Time (DST) adjustment.
AutoNeg	EthernetInterface	boolean	An indication of whether the speed and duplex are automatically negotiated and configured on this

			interface.
AutoSpeedNegotiation	NetworkPort (SupportedLinkCapabilities)	boolean	An indication of whether the port is capable of auto-negotiating speed.
AverageConsumedWatts	Power (PowerControl > PowerMetrics)	number	The average power level over the measurement window over the last IntervalInMin minutes.
AverageFrequencyMHz	ProcessorMetrics	number	The average frequency of the processor.
AveragePowerBudgetMilliWatts	Memory (PowerManagementPolicy)	integer	Average power budget, in milliwatts.
BandwidthPercent	ProcessorMetrics	number	The CPU bandwidth as a percentage.
	MemoryMetrics	number	The memory bandwidth utilization as a percentage.
BaseDistinguishedNames	ExternalAccountProvider (LDAPService > SearchSettings)	array	The base distinguished names to search an external LDAP service.
	AccountService (ActiveDirectory > LDAPService > SearchSettings), AccountService (LDAP > LDAPService > SearchSettings)	array	The base distinguished names to use to search an external LDAP service.
BaseModuleType	Memory	string (enum)	The base module type of the memory.
BinaryDataURI	Assembly (Assemblies)	string	The URI at which to access an image of the assembly information.
Bios	ComputerSystem	object	The link to the BIOS settings associated with this system.
BiosVersion	ComputerSystem	string	The version of the system BIOS or primary system firmware.
BitRate	SerialInterface	string (enum)	The receive and transmit rate of data flow, typically in bits-per-second (bps), over the serial connection.
BlockSizeBytes	Drive, MemoryMetrics	integer	The size, in bytes, of a block of this device. A block is the smallest addressable unit.
	Volume	number	The size, in bytes, of a block of this volume. A block is the smallest addressable unit.
BlocksRead	MemoryMetrics (CurrentPeriod), MemoryMetrics (LifeTime)	integer	The number of blocks read.
BlocksWritten	MemoryMetrics (CurrentPeriod), MemoryMetrics (LifeTime)	integer	The number of blocks written.
Boot	ComputerSystem	object	The boot settings for this system.
BootMode	NetworkDeviceFunction	string (enum)	The boot mode configured for this network device function.

BootNext	ComputerSystem (Boot)	string	The BootOptionReference of the Boot Option to perform a one-time boot from when BootSourceOverrideTarget is `UefiBootNext`.
BootOptionEnabled	BootOption	boolean	An indication of whether the boot option is enabled. If `true`, it is enabled. If `false`, the boot option that the boot order array on the computer system contains is skipped. In the UEFI context, this property shall influence the load option active flag for the boot option.
BootOptionReference	BootOption	string	The unique boot option.
BootOptions	ComputerSystem (Boot)	object	The link to the collection of the UEFI boot options associated with this computer system.
BootOrder	ComputerSystem (Boot)	array	An array of BootOptionReference strings that represent the persistent boot order for with this computer system.
BootOrderPropertySelection	ComputerSystem (Boot)	string (enum)	The name of the boot order property that the system uses for the persistent boot order.
BootPriority	NetworkDeviceFunction (FibreChannel > BootTargets)	integer	The relative priority for this entry in the boot targets array.
BootSourceOverrideEnabled	ComputerSystem (Boot)	string (enum)	The state of the boot source override feature.
BootSourceOverrideMode	ComputerSystem (Boot)	string (enum)	The BIOS boot mode to use when the system boots from the BootSourceOverrideTarget boot source.
BootSourceOverrideTarget	ComputerSystem (Boot)	string (enum)	The current boot source to use at the next boot instead of the normal boot device, if BootSourceOverrideEnabled is `true`.
BootTargets	NetworkDeviceFunction (FibreChannel)	array	An array of Fibre Channel boot targets configured for this network device function.
BusWidthBits	Memory	integer	The bus width, in bits.
CHAPSecret	NetworkDeviceFunction (iSCSIBoot)	string	The shared secret for CHAP authentication.
CHAPUsername	NetworkDeviceFunction (iSCSIBoot)	string	The user name for CHAP authentication.
CStateResidency	ProcessorMetrics (CoreMetrics)	array	The C-state residency of this core in the processor.
Cache	ProcessorMetrics	array	The processor cache metrics.
CacheMiss	ProcessorMetrics (Cache), ProcessorMetrics (CoreMetrics > CoreCache)	number	The number of cache line misses in millions.
CacheMissesPerInstruction	ProcessorMetrics (Cache),	number	The number of cache misses per

	ProcessorMetrics (CoreMetrics > CoreCache)		instruction.
CacheSizeMiB	Memory	integer	Total size of the cache portion memory in MiB.
CacheSummary	Storage (StorageControllers)	object	The cache memory of the storage controller in general detail.
Calculable	MetricDefinition	string (enum)	An indication of whether the metric can be used in a calculation.
CalculationAlgorithm	MetricDefinition	string (enum)	The calculation that is performed on a source metric to obtain the metric being defined.
CalculationParameters	MetricDefinition	array	The metric properties that are part of the synthesis calculation. This property is present when the MetricType property is 'Synthesized'.
CalculationTimeInterval	MetricDefinition	string	The time interval over which the metric calculation is performed.
Calibration	MetricDefinition	number	The calibration offset added to the metric reading.
Capable	NetworkAdapter (Controllers > ControllerCapabilities > DataCenterBridging)	boolean	An indication of whether this controller is capable of data center bridging (DCB).
CapableLinkSpeedMbps	NetworkPort (SupportedLinkCapabilities)	array	The set of link speed capabilities of this port.
CapableSpeedGbs	Drive	number	The speed, in gigabit per second (Gbit/s), at which this drive can communicate to a storage controller in ideal conditions.
CapacityBytes	Drive, SimpleStorage (Devices)	integer	The capacity, in bytes, of the device.
	Volume	number	The size, in bytes, of this volume.
CapacityMiB	Memory, Processor (ProcessorMemory)	integer	The memory capacity, in mebibytes (MiB).
CertificateCollection	CertificateService (Actions > GenerateCSR (Action))	object	The URI of the Certificate Resource Collection where the certificate is installed after the certificate authority (CA) signs the certificate.
CertificateLocations	CertificateService	object	The information about the location of certificates.
CertificateService	ServiceRoot	object	The link to the Certificate Service.
CertificateString	Certificate, CertificateService (Actions > ReplaceCertificate (Action))	string	The string for the certificate.
CertificateType	Certificate, CertificateService (Actions > ReplaceCertificate (Action))	string (enum)	The format of the certificate.
CertificateUri	CertificateService (Actions > ReplaceCertificate (Action))	object	The link to the certificate that is being replaced.

Certificates	CertificateLocations (Links)	array	An array of links to the certificates installed on this service.
	AccountService (ActiveDirectory), AccountService (LDAP), ComputerSystem (Boot), ExternalAccountProvider, ManagerAccount, ManagerNetworkProtocol (HTTPS)	object	The reference to a collection of certificates.
ChallengePassword	Certificate (Actions > Rekey (Action)), Certificate (Actions > Renew (Action)), CertificateService (Actions > GenerateCSR (Action))	string	The challenge password to apply to the certificate for revocation requests.
ChangePassword (Action)	Bios (Actions)	object	This action changes a BIOS password.
Channel	Memory (MemoryLocation)	integer	The channel number to which the memory is connected.
Chassis	ComputerSystem (Links), PCleDevice (Links), ResourceBlock (Links)	array	An array of references to the chassis that either contain or are related to this Resource.
	Drive (Links), EthernetInterface (Links), Memory (Links), Processor (Links), ServiceRoot, SimpleStorage (Links), Switch (Links)	object	The reference to the chassis that either contains or is related to this Resource.
ChassisType	Chassis	string (enum)	The type of physical form factor of the chassis.
City	CertificateService (Actions > GenerateCSR (Action))	string	The city or locality of the organization making the request.
	Certificate (Issuer), Certificate (Subject)	string	The city or locality of the organization of the entity.
ClassCode	PCleFunction	string	The Class Code of this PCIe function.
	Endpoint (ConnectedEntities > EntityPcild), Endpoint (Pcild)	string	The class code, subclass code, and programming interface code of this PCIe function.
ClearCurrentPeriod (Action)	MemoryMetrics (Actions)	object	This action sets the CurrentPeriod property's values to 0.
ClearLog (Action)	LogService (Actions)	object	The action to clear the log for this Log Service.
CollectionDuration	MetricReportDefinition (Metrics)	string	The duration over which the function is computed.
CollectionFunction	MetricReportDefinition (Metrics), TelemetryService (SupportedCollectionFunctions)	string (enum)	The function to run on each metric in the collection.

CollectionTimeScope	MetricReportDefinition (Metrics)	string (enum)	The scope of time scope over which the function is applied.
CommandShell	Manager	object	The command shell service that this manager provides.
CommonName	CertificateService (Actions > GenerateCSR (Action))	string	The fully qualified domain name of the component to secure.
	Certificate (Issuer), Certificate (Subject)	string	The fully qualified domain name of the entity.
CompletedTaskOverWritePolicy	TaskService	string (enum)	The overwrite policy for completed tasks. This property indicates whether the Task Service overwrites completed task information.
CompositionService	ServiceRoot	object	The link to the Composition Service.
CompositionState	ResourceBlock (CompositionStatus)	string (enum)	The current state of the Resource Block from a composition perspective.
CompositionStatus	ResourceBlock	object	The composition status details for this Resource Block.
ComputerSystemETag	ComputerSystem (Actions > AddResourceBlock (Action)), ComputerSystem (Actions > RemoveResourceBlock (Action))	string	The current ETag of the system.
ComputerSystems	Chassis (Links), HostInterface (Links), ResourceBlock, ResourceBlock (Links)	array	An array of references to computer systems related to this Resource.
ConfigurationLockCapable	Memory (SecurityCapabilities)	boolean	An indication of whether this memory supports the locking, or freezing, of the configuration.
ConfigurationLocked	Memory	boolean	An indication of whether the configuration of this memory is locked and cannot be altered.
ConnectTypesSupported	Manager (CommandShell), Manager (GraphicalConsole), Manager (SerialConsole)	array	An array of connection types that the implementation allows.
ConnectedEntities	Endpoint	array	All the entities connected to this endpoint.
ConnectedProcessors	Processor (Links)	array	An array of links to the processors directly connected to this processor.
ConnectedSwitchPorts	Port (Links)	array	An array of links to the ports that connect to the switch through this port.
ConnectedSwitches	Port (Links)	array	An array of links to the switches that connect to the device through this port.
ConnectedVia	VirtualMedia	string (enum)	The current virtual media connection method.
ConnectorType	SerialInterface	string (enum)	The type of connector used for this interface.

ConsistencyCheckRatePercent	Storage (StorageControllers > ControllerRates)	integer	The percentage of controller Resources used for performing a data consistency check on volumes.
ConsumedPowerWatt	ProcessorMetrics	number	The power, in watts, that the processor has consumed.
ConsumingComputerSystems	ComputerSystem (Links)	array	An array of links to ComputerSystems that are realized, in whole or in part, from this ComputerSystem.
ContactPerson	CertificateService (Actions > GenerateCSR (Action))	string	The name of the user making the request.
ContainedBy	Chassis (Links)	object	The link to the chassis that contains this chassis.
Contains	Chassis (Links)	array	An array of links to any other chassis that this chassis has in it.
Context	Event, Event (Events), EventDestination	string	The client-supplied string that is stored with the event destination subscription.
ControllerCapabilities	NetworkAdapter (Controllers)	object	The capabilities of this controller.
ControllerRates	Storage (StorageControllers)	object	This property describes the various controller rates used for processes such as Volume Rebuild or Consistency Checks.
Controllers	NetworkAdapter	array	The set of network controllers ASICs that make up this NetworkAdapter.
CooledBy	Chassis (Links), ComputerSystem (Links)	array	An array of IDs for Resources that cool this Resource. Normally, this ID is for a chassis or a set of fans.
CoreCache	ProcessorMetrics (CoreMetrics)	array	The cache metrics of this core in the processor.
CoreId	ProcessorMetrics (CoreMetrics)	string	The processor core identifier.
CoreMetrics	ProcessorMetrics	array	The processor core metrics.
CorrectableECCErrors	MemoryMetrics (HealthData > AlarmTrips)	boolean	An indication of whether the correctable error threshold crossing alarm trip was detected.
CorrectionInMs	Power (PowerControl > PowerLimit)	integer	The time required for the limiting process to reduce power consumption to below the limit.
Count	ComputerSystem (ProcessorSummary)	integer	The number of physical processors in the system.
Country	Certificate (Issuer), Certificate (Subject)	string	The country of the organization of the entity.
	CertificateService (Actions > GenerateCSR (Action))	string	The two-letter country code of the organization making the request.
Created	LogEntry	string	The date and time when the log entry was created.
CreatedBy	Job	string	The person or program that created this job entry.

CurrentLinkSpeedMbps	NetworkPort	integer	Network port current link speed.
CurrentPeriod	MemoryMetrics	object	The memory metrics since the last reset or ClearCurrentPeriod action.
CurrentSpeedGbps	Port	number	The current speed of this port.
CurrentValue	AttributeRegistry (RegistryEntries > Attributes)	boolean, number, string	The placeholder of the current value for the attribute.
DELETE	PrivilegeRegistry (Mappings > OperationMap), PrivilegeRegistry (Mappings > PropertyOverrides > OperationMap), PrivilegeRegistry (Mappings > ResourceURIOverrides > OperationMap), PrivilegeRegistry (Mappings > SubordinateOverrides > OperationMap)	array	The required privilege for the HTTP DELETE operation.
DHCP	ManagerNetworkProtocol	object	The settings for this manager's DHCPv4 protocol support.
DHCPEnabled	EthernetInterface (DHCPv4)	boolean	An indication of whether DHCP v4 is enabled on this Ethernet interface.
DHCPv4	EthernetInterface	object	DHCPv4 configuration for this interface.
DHCPv6	EthernetInterface, ManagerNetworkProtocol	object	The DHCPv6 protocol configuration for this interface or manager.
DataBits	SerialInterface	string (enum)	The number of data bits that follow the start bit over the serial connection.
DataCenterBridging	NetworkAdapter (Controllers > ControllerCapabilities)	object	Data center bridging (DCB) for this controller.
DataLockCapable	Memory (SecurityCapabilities)	boolean	An indication of whether this memory supports data locking.
DataLossDetected	MemoryMetrics (HealthData)	boolean	An indication of whether data loss was detected.
DataType	ActionInfo (Parameters)	string (enum)	The JSON property type for this parameter.
DataWidthBits	Memory	integer	Data width in bits.
DateTime	JobService, LogService, Manager, TaskService	string	The current date and time, with offset, that the service or manager uses to set or read time.
DateTimeLocalOffset	LogService	string	The UTC offset that the current DateTime property value contains in the `+HH:MM` format.
	Manager	string	The time offset from UTC that the DateTime property is in `+HH:MM` format.
DefaultValue	AttributeRegistry	boolean,	The default value for the attribute.

	(RegistryEntries > Attributes)	number, string	
DeliveryRetryAttempts	EventService	integer	The number of times that the POST of an event is retried before the subscription terminates. This retry occurs at the service level, which means that the HTTP POST to the event destination fails with an HTTP `4XX` or `5XX` status code or an HTTP timeout occurs this many times before the event destination subscription terminates.
DeliveryRetryIntervalSeconds	EventService	integer	The interval, in seconds, between retry attempts for sending any event.
DeliveryRetryPolicy	EventDestination	string (enum)	This property shall contain the subscription delivery retry policy for events, where the subscription type is RedfishEvent.
DeltaPhysicalContext	Thermal (Temperatures)	string (enum)	The area or device to which the DeltaReadingCelsius temperature measurement applies, relative to PhysicalContext.
DeltaReadingCelsius	Thermal (Temperatures)	number	Delta Temperature reading.
Dependencies	AttributeRegistry (RegistryEntries)	array	An array of dependencies of attributes on this component.
Dependency	AttributeRegistry (RegistryEntries > Dependencies)	object	The dependency expression for one or more attributes in this Attribute Registry.
DependencyFor	AttributeRegistry (RegistryEntries > Dependencies)	string	The AttributeName of the attribute whose change triggers the evaluation of this dependency expression.
DepthMm	Chassis	number	The depth of the chassis.
Description	<i>various</i> (AccelerationFunction, AccelerationFunctionCollection ...)	string	The description of the Resource, Resource Collection, or Service.
	PCleDeviceCollection, PCleFunctionCollection	string	The description of this Resource. Used for commonality in the schema definitions.
Destination	EventDestination	string	The URI of the destination event receiver.
DeviceClass	PCleFunction	string (enum)	The class for this PCle function.
DeviceEnabled	NetworkDeviceFunction	boolean	An indication of whether the network device function is enabled.
DeviceID	Memory	string	Device ID.
DeviceId	Endpoint (ConnectedEntities > EntityPcild), Endpoint (Pcild), PCleFunction	string	The device ID of this PCle function.

DeviceLocator	Memory	string	Location of the memory in the platform.
DeviceMaxCount	NetworkAdapter (Controllers > ControllerCapabilities > VirtualizationOffload > VirtualFunction)	integer	The maximum number of virtual functions (VFs) that this controller supports.
DeviceType	PCIeDevice	string (enum)	The device type for this PCIe device.
Devices	SimpleStorage	array	The storage devices.
DisablePassphrase (Action)	Memory (Actions)	object	Disable passphrase for given regions.
DiscreteTriggerCondition	Triggers	string (enum)	The conditions when a discrete metric triggers.
DiscreteTriggers	Triggers	array	The list of discrete triggers.
DiscreteValues	MetricDefinition	array	This array property specifies possible values of a discrete metric.
DisplayName	AttributeRegistry (RegistryEntries > Attributes), AttributeRegistry (RegistryEntries > Menus)	string	The user-readable display name of the attribute or menu in the defined language.
	BootOption	string	The user-readable display name of the boot option that appears in the boot order list in the user interface.
DisplayOrder	AttributeRegistry (RegistryEntries > Attributes), AttributeRegistry (RegistryEntries > Menus)	integer	The display order, as an integer, that indicates where this attribute or menu appears, in ascending order, relative to other attributes or menus.
DomainID	Switch	integer	The domain ID for this switch.
Drives	Chassis (Links), PCIeFunction (Links), ResourceBlock, Storage, Volume (Links)	array	An array of references to the drives related to this Resource.
DwellTime	<i>various</i> (Sensor (Thresholds > LowerCaution), Sensor (Thresholds > LowerCritical) ...)	string	The duration of the sensor reading before the threshold is exceeded.
EEEEnabled	NetworkPort	boolean	An indication of whether IEEE 802.3az Energy-Efficient Ethernet (EEE) is enabled for this network port.
EffectiveFamily	Processor (ProcessorId)	string	The effective family for this processor.
EffectiveModel	Processor (ProcessorId)	string	The effective model for this processor.
EfficiencyPercent	Power (PowerSupplies)	number	The measured efficiency of this power supply as a percentage.
EjectMedia (Action)	VirtualMedia (Actions)	object	This action detaches remote media from virtual media.
ElectricalContext	Sensor	string (enum)	The combination of current-carrying conductors.

Email	CertificateService (Actions > GenerateCSR (Action))	string	The email address of the contact within the organization making the request.
	Certificate (Issuer), Certificate (Subject)	string	The email address of the contact within the organization of the entity.
Enabled	ManagerAccount	boolean	An indication of whether an account is enabled. An administrator can disable it without deleting the user information. If `true`, the account is enabled and the user can log in. If `false`, the account is disabled and, in the future, the user cannot log in. This property overrides the Locked property.
Enclosures	Storage (Links)	array	An array of links to the chassis to which this storage subsystem is attached.
Encrypted	Volume	boolean	Is this Volume encrypted.
EncryptionAbility	Drive	string (enum)	The encryption ability of this drive.
EncryptionKey	Storage (Actions > SetEncryptionKey (Action))	string	The encryption key to set on the storage subsystem.
EncryptionStatus	Drive	string (enum)	The status of the encryption of this drive.
EncryptionTypes	Volume	array	The types of encryption used by this Volume.
EndTime	Job, Task	string	The date and time when the job or task was completed.
EndpointProtocol	Endpoint	string (enum)	The protocol supported by this endpoint.
Endpoints	AccelerationFunction (Links), ComputerSystem (Links), Drive (Links), EthernetInterface (Links), NetworkDeviceFunction (Links), Processor (Links), Storage (StorageControllers > Links), Zone (Links)	array	An array of references to endpoints related to this Resource.
	Fabric	object	The collection of links to the endpoints that this fabric contains.
EngineeringChangeLevel	Assembly (Assemblies)	string	The engineering change level of the assembly.
Entity	PrivilegeRegistry (Mappings)	string	The Resource name, such as `Manager`.
EntityLink	Endpoint (ConnectedEntities)		The link to the associated entity.
EntityPcild	Endpoint (ConnectedEntities)	object	The PCI ID of the connected entity.
EntityRole	Endpoint (ConnectedEntities)	string	The role of the connected entity.

		(enum)	
EntityType	Endpoint (ConnectedEntities)	string (enum)	The type of the connected entity.
Entries	LogService	object	The link to the log entry collection.
EntryCode	LogEntry	string (enum)	The entry code for the log entry if the entry type is `SEL`.
EntryType	LogEntry	string (enum)	The type of log entry.
EnvironmentalClass	Chassis	string (enum)	The ASHRAE Environmental Class for this chassis.
ErrorCorrection	Memory	string (enum)	Error correction scheme supported for this memory.
Ethernet	NetworkDeviceFunction, Processor (FPGA > ExternalInterfaces), Processor (FPGA > HostInterface)	object	The ethernet-related information for this device or interface.
EthernetInterfaces	PCIeFunction (Links), ResourceBlock	array	An array of references to the Ethernet interfaces related to this Resource.
	ComputerSystem, Manager	object	The reference to the collection of Ethernet interfaces related to this Resource.
EventFormatType	EventService (SSEFilterPropertiesSupported)	boolean	An indication of whether the service supports the EventFormatType property in the \$filter query parameter.
	EventDestination	string (enum)	The content types of the message that are sent to the EventDestination.
EventFormatTypes	EventService	array	The content types of the message that this service can send to the event destination.
EventGroupId	LogEntry	integer	An identifier that correlates events with the same cause.
	EventService (Actions > SubmitTestEvent (Action))	integer	The group ID for the event.
	Event (Events)	integer	The identifier that correlates events with the same root cause. If `0`, no other event is related to this event.
EventId	EventService (Actions > SubmitTestEvent (Action))	string	The ID for the event to add.
	LogEntry	string	The unique instance identifier for an event.
	Event (Events)	string	The unique instance identifier of an event.
EventService	ServiceRoot	object	The link to the Event Service.
EventTimestamp	EventService (Actions > SubmitTestEvent (Action))	string	The date and time stamp for the event to add.

	LogEntry	string	The date and time when the event occurred.
	Event (Events)	string	The time the event occurred.
EventTriggers	Triggers	array	The array of MessageIds that specify when a trigger condition is met based on an event.
EventType	EventService (SSEFilterPropertiesSupported)	boolean	An indication of whether the service supports the EventType property in the \$filter query parameter.
	EventService (Actions > SubmitTestEvent (Action))	string (enum)	The type for the event to add.
	Event (Events), LogEntry	string (enum)	The type of event that was sent or logged.
EventTypes	EventDestination	array	The types of events that are sent to the destination.
EventTypesForSubscription	EventService	array	The types of events to which a client can subscribe.
Events	Event	array	Each event in this array has a set of properties that describe the event. Because this is an array, more than one event can be sent simultaneously.
ExcerptQuery	ServiceRoot (ProtocolFeaturesSupported)	boolean	An indication of whether the service supports the excerpt query parameter.
ExpandAll	ServiceRoot (ProtocolFeaturesSupported > ExpandQuery)	boolean	An indication of whether the service supports the asterisk (*) option of the \$expand query parameter.
ExpandQuery	ServiceRoot (ProtocolFeaturesSupported)	object	The information about the use of \$expand in the service.
ExternalAccessibility	Zone	string (enum)	Indicates accessibility of endpoints in this zone to endpoints outside of this zone.
ExternalInterfaces	Processor (FPGA)	array	An array of the FPGA external interfaces.
ExternallyAccessible	HostInterface	boolean	An indication of whether external entities can access this interface. External entities are non-host entities. For example, if the host and manager are connected through a switch and the switch also exposes an external port on the system, external clients can also use the interface, and this property value is `true`.
FCFabricName	NetworkPort	string	The FC Fabric Name provided by the switch.
FCPortConnectionType	NetworkPort	string (enum)	The connection type of this port.
FCoEActiveVLANId	NetworkDeviceFunction (FibreChannel)	integer	The active FCoE VLAN ID.

FCoELocalVLANId	NetworkDeviceFunction (FibreChannel)	integer	The locally configured FCoE VLAN ID.
FPGA	Processor	object	The properties for processors of the FPGA type.
FQDN	EthernetInterface, ManagerNetworkProtocol	string	The DNS-obtained fully qualified domain name, including the host name and top-level domain name.
FabricType	Fabric	string (enum)	The protocol being sent over this fabric.
Fabrics	ServiceRoot	object	The link to a collection of all fabric entities.
FailurePredicted	Drive	boolean	An indication of whether this drive currently predicts a failure in the near future.
FallbackAddress	EthernetInterface (DHCPv4)	string (enum)	DHCPv4 fallback address method for this interface.
FanName	Thermal (Fans)	string	The name of the fan.
Fans	Thermal	array	The set of fans for this chassis.
FibreChannel	NetworkDeviceFunction	object	The Fibre Channel capabilities, status, and configuration values for this network device function.
FibreChannelId	NetworkDeviceFunction (FibreChannel)	string	The Fibre Channel ID that the switch assigns for this interface.
FilterQuery	ServiceRoot (ProtocolFeaturesSupported)	boolean	An indication of whether the service supports the \$filter query parameter.
FirmwareApiVersion	Memory	string	Version of API supported by the firmware.
FirmwareAuthEnabled	HostInterface	boolean	An indication of whether this firmware authentication is enabled for this interface.
FirmwareAuthRole	HostInterface (Links)	object	The link to the Redfish Role that has firmware authentication privileges on this Host Interface.
FirmwareAuthRoleId	HostInterface	string	The Role used for firmware authentication on this interface.
FirmwareId	Processor (FPGA)	string	The FPGA firmware identifier.
FirmwareInventory	UpdateService	object	An inventory of firmware.
FirmwareManufacturer	Processor (FPGA)	string	The FPGA firmware manufacturer.
FirmwarePackageVersion	NetworkAdapter (Controllers)	string	The version of the user-facing firmware package.
FirmwareRevision	Memory	string	Revision of firmware on the memory controller.
FirmwareVersion	AttributeRegistry (SupportedSystems), ComputerSystem (TrustedModules),	string	The firmware version for this device.

	Manager, PCIeDevice, Power (PowerSupplies), Processor (FPGA), Storage (StorageControllers)		
	Switch	string	The firmware version of this switch.
FirmwareVersion2	ComputerSystem (TrustedModules)	string	The second firmware version of this Trusted Module, if applicable.
FlowControl	SerialInterface	string (enum)	The type of flow control, if any, that is imposed on the serial connection.
FlowControlConfiguration	NetworkPort	string (enum)	The locally configured 802.3x flow control setting for this network port.
FlowControlStatus	NetworkPort	string (enum)	The 802.3x flow control behavior negotiated with the link partner for this network port (Ethernet-only).
ForceFailover (Action)	Manager (Actions)	object	The ForceFailover action forces a failover of this manager to the manager used in the parameter.
FpgaReconfigurationSlots	AccelerationFunction	array	An array of the reconfiguration slot identifiers of the FPGA that this acceleration function occupies.
FpgaType	Processor (FPGA)	string (enum)	The FPGA type.
FrequencyRatio	ProcessorMetrics	number	The frequency relative to the nominal processor frequency ratio.
FullDuplex	EthernetInterface	boolean	An indication of whether full-duplex mode is enabled on the Ethernet connection for this interface.
FunctionClasses	Memory	array	Function classes by the memory.
FunctionEnabled	ComputerSystem (HostWatchdogTimer)	boolean	An indication of whether a user has enabled the host watchdog timer functionality. This property indicates only that a user has enabled the timer. To activate the timer, installation of additional host-based software is necessary; an update to this property does not initiate the timer.
FunctionId	PCIeFunction	integer	The PCIe Function Number.
FunctionNumber	Endpoint (ConnectedEntities > EntityPcild), Endpoint (Pcild)	integer	The PCI ID of the connected entity.
FunctionType	PCIeFunction	string (enum)	The type of the PCIe function.
GET	PrivilegeRegistry (Mappings > OperationMap), PrivilegeRegistry (Mappings > PropertyOverrides > OperationMap), PrivilegeRegistry (Mappings >	array	The required privilege for the HTTP GET operation.

	ResourceURIOverrides > OperationMap), PrivilegeRegistry (Mappings > SubordinateOverrides > OperationMap)		
GenerateCSR (Action)	CertificateService (Actions)	object	This action makes a certificate signing request.
GeneratedMetricReportValues	TelemetryService (Actions > SubmitTestMetricReport (Action))	array	The content of the MetricReportValues in the generated metric report.
GivenName	CertificateService (Actions > GenerateCSR (Action))	string	The given name of the user making the request.
GraphicalConsole	Manager	object	The information about the graphical console (KVM-IP) service of this manager.
GrayOut	AttributeRegistry (RegistryEntries > Attributes), AttributeRegistry (RegistryEntries > Menus)	boolean	An indication of whether this attribute or menu is grayed out. A grayed-out menu is not accessible in user interfaces.
GroupNameAttribute	AccountService (ActiveDirectory > LDAPService > SearchSettings), AccountService (LDAP > LDAPService > SearchSettings), ExternalAccountProvider (LDAPService > SearchSettings)	string	The group name attribute. Contains the LDAP group name.
GroupsAttribute	AccountService (ActiveDirectory > LDAPService > SearchSettings), AccountService (LDAP > LDAPService > SearchSettings), ExternalAccountProvider (LDAPService > SearchSettings)	string	The groups attribute. Contains the groups on the LDAP user entry.
HEAD	PrivilegeRegistry (Mappings > OperationMap), PrivilegeRegistry (Mappings > PropertyOverrides > OperationMap), PrivilegeRegistry (Mappings > ResourceURIOverrides > OperationMap), PrivilegeRegistry (Mappings > SubordinateOverrides > OperationMap)	array	The required privilege for the HTTP HEAD operation.
HTTP	ManagerNetworkProtocol	object	The settings for this manager's HTTP protocol support.
HTTPS	ManagerNetworkProtocol	object	The settings for this manager's HTTPS protocol support.
HealthData	MemoryMetrics	object	The health information of the memory.
HeightMm	Chassis	number	The height of the chassis.

HelpText	AttributeRegistry (RegistryEntries > Attributes)	string	The help text for the attribute.
Hidden	AttributeRegistry (RegistryEntries > Attributes), AttributeRegistry (RegistryEntries > Menus)	boolean	An indication of whether this attribute or menu is hidden.
HidePayload	Job, Task	boolean	An indication of whether the contents of the payload are hidden from view after the job or task is created. When True, a GET operation does not return the payload.
HitRatio	ProcessorMetrics (Cache), ProcessorMetrics (CoreMetrics > CoreCache)	number	The cache line hit ratio.
HostEthernetInterfaces	HostInterface	object	A link to the collection of network interface controllers or cards (NICs) that a computer system uses to communicate with this Host Interface.
HostInterface	EthernetInterface (Links), Processor (FPGA)	object	The interface to the host.
HostInterfaceType	HostInterface	string (enum)	The Host Interface type for this interface.
HostInterfaces	Manager	object	The link to a collection of Host Interfaces that this manager uses for local host communication. Clients can find Host Interface configuration options and settings in this navigation property.
HostName	ComputerSystem, EthernetInterface, ManagerNetworkProtocol	string	The DNS host name without the domain information.
HostReservationMemoryBytes	Endpoint	integer	The amount of memory in bytes that the host should allocate to connect to this endpoint.
HostWatchdogTimer	ComputerSystem	object	The host watchdog timer functionality for this system.
HostedServices	ComputerSystem	object	The services that this computer system supports.
HostingRole	ComputerSystem (HostingRoles)	string (enum)	The enumerations of HostingRoles specify different features that the hosting ComputerSystem supports.
HostingRoles	ComputerSystem	array	The hosting roles that this computer system supports.
HotPluggable	PCleSlots (Slots)	boolean	An indication of whether this PCIe slot supports hotplug.
	Power (PowerSupplies), Thermal (Fans)	boolean	An indication of whether this slot supports hot plugging, which enables insertion of a device into or removal of a device from this slot while the equipment is in operation.

HotspareReplacementMode	Drive	string (enum)	The replacement mode for the hot spare drive.
HotspareType	Drive	string (enum)	The type of hot spare that this drive currently serves as.
HttpHeaders	EventDestination, Job (Payload), Task (Payload)	array	The HTTP headers in this task or job or supplied to an EventDestination when an Event is sent. For EventDestination usage, the GET operation returns a null object.
HttpOperation	Job (Payload), Task (Payload)	string	The HTTP operation to complete this job or task.
HttpPushUri	UpdateService	string	The URI used to perform an HTTP or HTTPS push update to the Update Service. The format of the message is vendor-specific.
HttpPushUriApplyTime	UpdateService (HttpPushUriOptions)	object	The settings for when to apply HttpPushUri-provided firmware.
HttpPushUriOptions	UpdateService	object	The options for HttpPushUri-provided software updates.
HttpPushUriOptionsBusy	UpdateService	boolean	An indication of whether a client has reserved the HttpPushUriOptions properties for software updates.
HttpPushUriTargets	UpdateService	array	An array of URIs that indicate where to apply the update image.
HttpPushUriTargetsBusy	UpdateService	boolean	An indication of whether any client has reserved the HttpPushUriTargets property.
IOStallCount	ProcessorMetrics (CoreMetrics)	number	The number of stalled cycles due to I/O operations.
IPAddressType	NetworkDeviceFunction (iSCSIBoot)	string (enum)	The type of IP address being populated in the iSCSIBoot IP address fields.
IPMI	ManagerNetworkProtocol	object	The settings for this manager's IPMI-over-LAN protocol support.
IPMaskDNSViaDHCP	NetworkDeviceFunction (iSCSIBoot)	boolean	An indication of whether the iSCSI boot initiator uses DHCP to obtain the initiator name, IP address, and netmask.
IPTransportDetails	Endpoint	array	An array of details for each IP transport supported by this endpoint. The array structure can model multiple IP addresses for this endpoint.
IPv4Address	Endpoint (IPTransportDetails), EthernetInterface (IPv4Addresses), EthernetInterface (IPv4StaticAddresses)	object	The IPv4 address assigned to the endpoint or interface.
IPv4Addresses	EthernetInterface	array	The IPv4 addresses currently assigned to this interface.

IPv4AutoConfigEnabled	EthernetInterface (StatelessAddressAutoConfig)	boolean	An indication of whether IPv4 stateless address autoconfiguration (SLAAC) is enabled for this interface.
IPv4StaticAddresses	EthernetInterface	array	The IPv4 static addresses assigned to this interface.
IPv6Address	Endpoint (IPTransportDetails), EthernetInterface (IPv6Addresses)	object	The IPv6 address assigned to the endpoint or interface.
IPv6AddressPolicyTable	EthernetInterface	array	An array that represents the RFC6724-defined address selection policy table.
IPv6Addresses	EthernetInterface	array	An array of the currently assigned IPv6 addresses on this interface.
IPv6AutoConfigEnabled	EthernetInterface (StatelessAddressAutoConfig)	boolean	An indication of whether IPv6 stateless address autoconfiguration (SLAAC) is enabled for this interface.
IPv6DefaultGateway	EthernetInterface	string	The IPv6 default gateway address in use on this interface.
IPv6GatewayStaticAddress	EthernetInterface (IPv6StaticDefaultGateways)	object	This type represents a single IPv6 static address to be assigned on a network interface.
IPv6StaticAddress	EthernetInterface (IPv6StaticAddresses)	object	This type represents a single IPv6 static address to be assigned on a network interface.
IPv6StaticAddresses	EthernetInterface	array	An array of the IPv6 static addresses to assign on this interface.
IPv6StaticDefaultGateways	EthernetInterface	array	The IPv6 static default gateways for this interface.
Id	<i>various</i> (AccelerationFunction, AccountService ...)	string	The identifier for this Resource.
IdentificationRegisters	Processor (ProcessorId)	string	The raw manufacturer-provided CPUID instruction output for this processor.
Identifier	Drive (Identifiers), Endpoint (ConnectedEntities > Identifiers), Endpoint (Identifiers), NetworkAdapter (Controllers > Identifiers), Storage (StorageControllers > Identifiers), Zone (Identifiers)	object	Any additional identifiers for a Resource.
Identifiers	NetworkAdapter (Controllers)	array	The Durable names for the network adapter.
	Drive, Storage (StorageControllers), Volume	array	The durable names for the drives, storage controllers, or volumes.
	Endpoint (ConnectedEntities), Endpoint, Zone	array	The identifiers for the endpoints, remote entities, or zones.

Image	VirtualMedia	string	The URI of the location of the selected image.
	VirtualMedia (Actions > InsertMedia (Action))	string	The URI of the remote media to attach to the virtual media.
ImageName	VirtualMedia	string	The current image name.
ImageURI	UpdateService (Actions > SimpleUpdate (Action))	string	The URI of the software image to install.
Immutable	AttributeRegistry (RegistryEntries > Attributes)	boolean	An indication of whether this attribute is immutable. Immutable attributes shall not be modified and typically reflect a hardware state.
Implementation	MetricDefinition	string (enum)	The implementation of the metric.
IndicatorLED	Chassis, ComputerSystem, Drive, Power (PowerSupplies), Switch, Thermal (Fans)	string (enum)	The state of the indicator LED, which identifies this device.
Initialize (Action)	Volume (Actions)	object	This action is used to prepare the contents of the volume for use by the system.
Initials	CertificateService (Actions > GenerateCSR (Action))	string	The initials of the user making the request.
InitiatorDefaultGateway	NetworkDeviceFunction (iSCSIBoot)	string	The IPv6 or IPv4 iSCSI boot default gateway.
InitiatorIPAddress	NetworkDeviceFunction (iSCSIBoot)	string	The IPv6 or IPv4 address of the iSCSI initiator.
InitiatorName	NetworkDeviceFunction (iSCSIBoot)	string	The iSCSI initiator name.
InitiatorNetmask	NetworkDeviceFunction (iSCSIBoot)	string	The IPv6 or IPv4 netmask of the iSCSI boot initiator.
InputRanges	Power (PowerSupplies)	array	The input ranges that the power supply can use.
InputType	Power (PowerSupplies > InputRanges)	string (enum)	The Input type (AC or DC).
InsertMedia (Action)	VirtualMedia (Actions)	object	This action attaches remote media to virtual media.
Inserted	VirtualMedia (Actions > InsertMedia (Action))	boolean	An indication of whether the image is treated as inserted upon completion of the action. The default is `true`.
	VirtualMedia	boolean	An indication of whether virtual media is inserted into the virtual device.
InstructionSet	Processor	string (enum)	The instruction set of the processor.
InstructionsPerCycle	ProcessorMetrics (CoreMetrics)	number	The number of instructions per clock cycle of this core.

IntegratedMemory	Processor (ProcessorMemory)	boolean	An indication of whether this memory is integrated within the processor.
InterfaceEnabled	EthernetInterface, HostInterface, SerialInterface	boolean	An indication of whether this interface is enabled.
InterfaceType	Processor (FPGA > ExternalInterfaces), Processor (FPGA > HostInterface)	string (enum)	The FPGA interface type.
	ComputerSystem (TrustedModules)	string (enum)	The interface type of the Trusted Module.
InterfaceTypeSelection	ComputerSystem (TrustedModules)	string (enum)	The interface type selection supported by this Trusted Module.
InterleavableMemorySets	MemoryDomain	array	The interleave sets for the memory chunk.
InterleaveSets	MemoryChunks	array	The interleave sets for the memory chunk.
IntervallnMin	Power (PowerControl > PowerMetrics)	integer	The time interval, or window, over which the power metrics are measured.
IntrusionSensor	Chassis (PhysicalSecurity)	string (enum)	This indicates the known state of the physical security sensor, such as if it is hardware intrusion detected.
IntrusionSensorNumber	Chassis (PhysicalSecurity)	integer	A numerical identifier to represent the physical security sensor.
IntrusionSensorReArm	Chassis (PhysicalSecurity)	string (enum)	The method that restores this physical security sensor to the normal state.
InvolvedSwitches	Zone (Links)	array	The links to the collection of switches in this zone.
IsLinear	MetricDefinition	boolean	An indication of whether the metric values are linear versus non-linear.
IsManaged	Switch	boolean	An indication of whether the switch is in a managed or unmanaged state.
IsMirrorEnabled	MemoryChunks	boolean	An indication of whether memory mirroring is enabled for this memory chunk.
IsPredefined	Role	boolean	An indication of whether the Role is a Redfish-predefined Role rather than a custom Redfish Role.
IsRankSpareEnabled	Memory	boolean	An indication of whether rank spare is enabled for this memory.
IsSpare	MemoryChunks	boolean	An indication of whether sparing is enabled for this memory chunk.
IsSpareDeviceEnabled	Memory	boolean	An indication of whether a spare device is enabled for this memory.
IsSystemUniqueProperty	AttributeRegistry (RegistryEntries > Attributes)	boolean	An indication of whether this attribute is unique for this system and should not be replicated.

Issuer	Certificate	object	The issuer of the certificate.
JobService	ServiceRoot	object	The link to the JobService.
JobState	Job	string (enum)	The state of the job.
JobStatus	Job	string (enum)	The status of the job.
Jobs	JobService	object	The links to the Jobs collection.
JsonBody	Job (Payload), Task (Payload)	string	The JSON payload in this job or task.
JsonSchemas	ServiceRoot	object	The link to a collection of JSON Schema files.
KVMIP	ManagerNetworkProtocol	object	The settings for this manager's KVM-IP protocol support.
KerberosKeytab	AccountService (ActiveDirectory > Authentication), AccountService (LDAP > Authentication), ExternalAccountProvider (Authentication)	string	The Base64-encoded version of the Kerberos keytab for this Service. A PATCH or PUT operation writes the keytab. This property is `null` in responses.
KernelAuthEnabled	HostInterface	boolean	An indication of whether this kernel authentication is enabled for this interface.
KernelAuthRole	HostInterface (Links)	object	The link to the Redfish Role defining privileges for this Host Interface when using kernel authentication.
KernelAuthRoleId	HostInterface	string	The Role used for kernel authentication on this interface.
KernelPercent	ProcessorMetrics	number	The percentage of time spent in kernel mode.
KeyBitLength	Certificate (Actions > Rekey (Action)), CertificateService (Actions > GenerateCSR (Action))	integer	The length of the key, in bits, if needed based on the KeyPairAlgorithm parameter value.
KeyCurveId	Certificate (Actions > Rekey (Action)), CertificateService (Actions > GenerateCSR (Action))	string	The curve ID to use with the key, if needed based on the KeyPairAlgorithm parameter value.
KeyPairAlgorithm	Certificate (Actions > Rekey (Action)), CertificateService (Actions > GenerateCSR (Action))	string	The type of key-pair for use with signing algorithms.
KeyUsage	Certificate	array	The key usage extension, which defines the purpose of the public keys in this certificate.
	CertificateService (Actions > GenerateCSR (Action))	array	The usage of the key contained in the certificate.
	Certificate (KeyUsage), CertificateService (Actions >	string (enum)	The usages of a key contained within a certificate.

	GenerateCSR (Action) > KeyUsage)		
Keys	MetricReportDefinition (Wildcards)	array	An array of values to substitute for the wildcard.
LDAP	AccountService	object	The first LDAP external account provider that this Account Service supports.
LDAPService	AccountService (ActiveDirectory), AccountService (LDAP), ExternalAccountProvider	object	The additional mapping information needed to parse a generic LDAP service.
LUNID	NetworkDeviceFunction (FibreChannel > BootTargets)	string	The logical unit number (LUN) ID from which to boot on the device to which the corresponding WWPN refers.
Label	EthernetInterface (IPv6AddressPolicyTable)	integer	The IPv6 label, as defined in RFC6724, section 2.1.
Lanes	PCIESlots (Slots)	integer	The number of PCIe lanes supported by this slot.
LanesInUse	PCIEDevice (PCIeInterface)	integer	The number of PCIe lanes in use by this device.
Language	AttributeRegistry, JsonSchemaFile (Location), MessageRegistry, MessageRegistryFile (Location)	string	The RFC5646-compliant language code for the Schema file or registry.
Languages	MessageRegistryFile	array	The RFC5646-conformant language codes for the available Message Registries.
	JsonSchemaFile	array	The RFC5646-conformant language codes for the available schemas.
LastPowerOutputWatts	Power (PowerSupplies)	number	The average power output of this power supply.
LastShutdownSuccess	MemoryMetrics (HealthData)	boolean	An indication of whether the last shutdown succeeded.
Level	ProcessorMetrics (CoreMetrics > CStateResidency)	string	The C-state level, such as C0, C1, or C2.
	ProcessorMetrics (Cache), ProcessorMetrics (CoreMetrics > CoreCache)	string	The cache level.
Levels	ServiceRoot (ProtocolFeaturesSupported > ExpandQuery)	boolean	An indication of whether the service supports the \$levels option of the \$expand query parameter.
LifeCycleEventOnTaskStateChange	TaskService	boolean	An indication of whether a task state change sends an event.
LifeTime	MemoryMetrics	object	The memory metrics for the lifetime of the memory.
LimitException	Power (PowerControl > PowerLimit)	string (enum)	The action that is taken if the power cannot be maintained below the LimitInWatts.

LimitInWatts	Power (PowerControl > PowerLimit)	number	The power limit, in watts. If 'null', power capping is disabled.
LineInputVoltage	Power (PowerSupplies)	number	The line input voltage at which the power supply is operating.
LineInputVoltageType	Power (PowerSupplies)	string (enum)	The line voltage type supported as an input to this power supply.
LinkNetworkTechnology	NetworkPort (SupportedLinkCapabilities)	string (enum)	The link network technology capabilities of this port.
LinkSpeedMbps	NetworkPort (SupportedLinkCapabilities)	integer	The speed of the link in Mbps when this link network technology is active.
LinkStatus	EthernetInterface, NetworkPort	string (enum)	The status between this port and its link.
Links	ServiceRoot (ProtocolFeaturesSupported > ExpandQuery)	boolean	An indication of whether the tilde (~) option of the \$expand query parameter is supported. This option expands all hyperlinks found in the Links property section of the Resource.
	Bios	object	The links to other Resources that are related to this Resource.
	<i>various</i> (AccelerationFunction, CertificateLocations ...)	object	The references to other Resources related to this Resource.
LoadPercent	Sensor	number	The power load utilization for this sensor.
LocalAccountAuth	AccountService	string (enum)	An indication of how the Service uses the accounts collection within this Account Service as part of authentication. The enumerated values describe the details for each mode.
LocalMemoryBandwidthBytes	ProcessorMetrics	integer	The local memory bandwidth usage in bytes.
LocalRole	AccountService (ActiveDirectory > RemoteRoleMapping), AccountService (LDAP > RemoteRoleMapping), ExternalAccountProvider (RemoteRoleMapping)	string	The name of the local Redfish Role to which to map the remote user or group.
Location	Drive, JsonSchemaFile, MessageRegistryFile	array	The location of the drive or file.
	<i>various</i> (Chassis, Drive (Location) ...)	object	The physical location of the Resource.
Locked	ManagerAccount	boolean	An indication of whether the Account Service automatically locked the account because the lockout threshold was exceeded. To manually unlock the account before the lockout duration period, an administrator can

			change the property to 'false' to clear the lockout condition.
Log	JobService	object	The link to a Log Service that the Job Service uses. This service may be a dedicated Log Service or a pointer a Log Service under another entity, such as Manager.
LogEntryType	LogService	string (enum)	The format of the log entries.
LogService	TelemetryService	object	The link to a Log Service that the Telemetry Service uses. This service may be a dedicated Log Service or a pointer a Log Service under another entity, such as Manager.
LogServices	Chassis, ComputerSystem, Manager, Switch	object	A reference to the collection of log services.
LogicalProcessorCount	ComputerSystem (ProcessorSummary)	integer	The number of logical processors in the system.
LogicalSizeMiB	Memory	integer	Total size of the logical memory in MiB.
LowerBound	AttributeRegistry (RegistryEntries > Attributes)	integer	The lower limit for an integer attribute.
LowerCaution	Sensor (Thresholds)	object	The value at which the reading is below normal range.
LowerCritical	Sensor (Thresholds), Triggers (NumericThresholds)	object	Below normal range but not fatal. Requires attention.
LowerFatal	Sensor (Thresholds)	object	The value at which the reading is below normal range and fatal.
LowerThresholdCritical	Thermal (Fans)	integer	The value at which the reading is below normal range but not yet fatal.
	Power (Voltages), Thermal (Temperatures)	number	The value at which the reading is below normal range but not yet fatal.
LowerThresholdFatal	Thermal (Fans)	integer	The value at which the reading is below normal range and fatal.
	Power (Voltages), Thermal (Temperatures)	number	The value at which the reading is below normal range and fatal.
LowerThresholdNonCritical	Thermal (Fans)	integer	The value at which the reading is below normal range.
	Power (Voltages), Thermal (Temperatures)	number	The value at which the reading is below normal range.
LowerWarning	Triggers (NumericThresholds)	object	The value at which the reading is below normal range.
LowestSupportedVersion	SoftwareInventory	string	The lowest supported version of this software.
MACAddress	EthernetInterface, NetworkDeviceFunction	string	The currently configured MAC address for the interface.

	(Ethernet)		
MTUSize	EthernetInterface, NetworkDeviceFunction (Ethernet)	integer	The configured maximum transmission unit (MTU) for this interface.
MaintenanceWindowDurationInSeconds	UpdateService (HttpPushUriOptions > HttpPushUriApplyTime)	integer	The expiry time, in seconds, of the maintenance window.
MaintenanceWindowStartTime	UpdateService (HttpPushUriOptions > HttpPushUriApplyTime)	string	The start time of a maintenance window.
ManagedBy	Chassis (Links), ComputerSystem (Links), Switch (Links)	array	An array of references to the managers of this Resource.
ManagerEthernetInterface	HostInterface	object	A link to a single network interface controllers or cards (NIC) that this manager uses for network communication with this Host Interface.
ManagerForChassis	Manager (Links)	array	An array of links to the chassis this manager controls.
ManagerForServers	Manager (Links)	array	An array of links to the systems that this manager controls.
ManagerForSwitches	Manager (Links)	array	An array of links to the switches that this manager controls.
ManagerInChassis	Manager (Links)	object	The link to the chassis where this manager is located.
ManagerType	Manager	string (enum)	The type of manager that this Resource represents.
Managers	ServiceRoot	object	The link to a collection of managers.
ManagersInChassis	Chassis (Links)	array	An array of links to the managers located in this chassis.
Manufacturer	<i>various</i> (AccelerationFunction, Chassis ...)	string	The manufacturer or producer of this device or Resource.
MapFrom	AttributeRegistry (RegistryEntries > Dependencies > Dependency)	array	An array of the map-from conditions for a mapping dependency.
MapFromAttribute	AttributeRegistry (RegistryEntries > Dependencies > Dependency > MapFrom)	string	The attribute to use to evaluate this dependency expression.
MapFromCondition	AttributeRegistry (RegistryEntries > Dependencies > Dependency > MapFrom)	string (enum)	The condition to use to evaluate this dependency expression.
MapFromProperty	AttributeRegistry (RegistryEntries > Dependencies > Dependency > MapFrom)	string (enum)	The metadata property for the attribute that the MapFromAttribute property specifies to use to evaluate this dependency expression.

MapFromValue	AttributeRegistry (RegistryEntries > Dependencies > Dependency > MapFrom)	boolean, number, string	The value to use to evaluate this dependency expression.
MapTerms	AttributeRegistry (RegistryEntries > Dependencies > Dependency > MapFrom)	string (enum)	The logical term that combines two or more map-from conditions in this dependency expression. For example, `AND` for logical AND, or `OR` for logical OR.
MapToAttribute	AttributeRegistry (RegistryEntries > Dependencies > Dependency)	string	The AttributeName of the attribute that is affected by this dependency expression.
MapToProperty	AttributeRegistry (RegistryEntries > Dependencies > Dependency)	string (enum)	The metadata property for the attribute that contains the map-from condition that evaluates this dependency expression.
MapToValue	AttributeRegistry (RegistryEntries > Dependencies > Dependency)	boolean, number, string	The value that the map-to property changes to if the dependency expression evaluates to `true`.
Mappings	PrivilegeRegistry	array	The mappings between entities and the relevant privileges that access those entities.
MaxAllowableOperatingValue	Thermal (Temperatures)	integer	Maximum allowable operating temperature for this equipment.
	Sensor	number	The maximum allowable operating value for this equipment.
MaxBWAllocPercent	NetworkPort (NetDevFuncMaxBWAlloc)	integer	The maximum bandwidth allocation percentage allocated to the corresponding network device function instance.
MaxCompositions	ResourceBlock (CompositionStatus)	integer	The maximum number of compositions in which this Resource Block can participate simultaneously.
MaxConcurrentSessions	Manager (CommandShell), Manager (GraphicalConsole), Manager (SerialConsole)	integer	The maximum number of service sessions, regardless of protocol, that this manager can support.
MaxConsumedWatts	Power (PowerControl > PowerMetrics)	number	The highest power consumption level, in watts, that has occurred over the measurement window within the last IntervalInMin minutes.
MaxDeviceLogins	NetworkAdapter (Controllers > ControllerCapabilities > NPIV)	integer	The maximum number of N_Port ID Virtualization (NPIV) logins allowed simultaneously from all ports on this controller.
MaxExecutionTime	Job	string	The maximum amount of time the job is allowed to execute.
MaxFrameSize	NetworkPort	integer	The maximum frame size supported by the port.
MaxIPv6StaticAddresses	EthernetInterface	integer	The maximum number of static IPv6 addresses that can be configured on this interface.

MaxImageSizeBytes	UpdateService	integer	The maximum size in bytes of the software update image that this Service supports.
MaxJobs	JobService (ServiceCapabilities)	integer	The maximum number of jobs supported.
MaxLanes	PCIeDevice (PCIeInterface), Processor (FPGA > ExternalInterfaces > Ethernet), Processor (FPGA > HostInterface > Ethernet)	integer	The number of lanes that this interface supports.
MaxLength	AttributeRegistry (RegistryEntries > Attributes)	integer	The maximum character length of a string attribute.
MaxLevels	ServiceRoot (ProtocolFeaturesSupported > ExpandQuery)	integer	The maximum \$levels option value in the \$expand query parameter.
MaxNumberOfRecords	LogService	integer	The maximum number of log entries that this service can have.
MaxPCleType	PCIeDevice (PCIeInterface)	string (enum)	The highest version of the PCIe specification supported by this device.
MaxPassphraseCount	Memory (SecurityCapabilities)	integer	Maximum number of passphrases supported for this memory.
MaxPasswordLength	AccountService	integer	The maximum password length for this Account Service.
MaxPortLogins	NetworkAdapter (Controllers > ControllerCapabilities > NPIV)	integer	The maximum number of N_Port ID Virtualization (NPIV) logins allowed per physical port on this controller.
MaxReadingRange	Thermal (Fans)	integer	Maximum value for this sensor.
	MetricDefinition, Power (Voltages)	number	The maximum value for the reading.
MaxReadingRangeTemp	Thermal (Temperatures)	number	Maximum value for this sensor.
MaxReports	TelemetryService	integer	The maximum number of metric reports that this service supports.
MaxSpeedGbps	Port	number	The maximum speed of this port as currently configured.
MaxSpeedMHz	Processor	integer	The maximum clock speed of the processor.
MaxSpeedMbps	Processor (FPGA > ExternalInterfaces > Ethernet), Processor (FPGA > HostInterface > Ethernet)	integer	The maximum speed supported by this interface.
MaxSteps	JobService (ServiceCapabilities)	integer	The maximum number of job steps supported.
MaxTDPMilliWatts	Memory	array	Set of maximum power budgets supported by the memory in milliwatts.
	Memory (PowerManagementPolicy)	integer	Maximum TDP in milliwatts.

MaxTDPWatts	Processor	integer	The maximum Thermal Design Power (TDP) in watts.
MaxVirtualFunctions	NetworkDeviceFunction	integer	The number of virtual functions that are available for this network device function.
MaxZones	Fabric	integer	The maximum number of zones the switch can currently configure.
MaximumFrequencyHz	Power (PowerSupplies > InputRanges)	number	The maximum line input frequency at which this power supply input range is effective.
MaximumValue	ActionInfo (Parameters)	number	The maximum supported value for this parameter.
MaximumVoltage	Power (PowerSupplies > InputRanges)	number	The maximum line input voltage at which this power supply input range is effective.
MediaType	Drive	string (enum)	The type of media contained in this drive.
MediaTypes	VirtualMedia	array	The media types supported as virtual media.
MemberId	Assembly (Assemblies), Event (Events), Power (PowerControl), Power (PowerSupplies), Power (Voltages), Storage (StorageControllers), Thermal (Fans), Thermal (Temperatures)	string	The identifier for the member within the collection.
Members	VolumeCollection	array	An array of links to the members of this collection.
	<i>various</i> (AccelerationFunctionCollection, BootOptionCollection ...)	array	The members of this collection.
Members@odata.nextLink	<i>various</i> (AccelerationFunctionCollection, BootOptionCollection ...)	string	The URI to the resource containing the next set of partial members.
Memory	ResourceBlock	array	An array of links to the memory available in this Resource Block.
	MemoryChunks (InterleaveSets)	object	Describes a memory device of the interleave set.
	ComputerSystem	object	The link to the collection of memory associated with this system.
MemoryChunkSizeMiB	MemoryChunks	integer	Size of the memory chunk measured in mebibytes (MiB).
MemoryChunks	MemoryDomain	object	The link to the collection of memory chunks associated with this memory domain.
MemoryClassification	Memory (Regions)	string (enum)	The classification of memory that the memory region occupies.

MemoryController	Memory (MemoryLocation)	integer	The memory controller number to which the memory is connected.
MemoryDeviceType	Memory	string (enum)	Type details of the memory.
MemoryDomains	ComputerSystem	object	The link to the collection of memory domains associated with this system.
MemoryLevel	MemoryChunks (InterleaveSets)	integer	Level of the interleave set for multi-level tiered memory.
MemoryLocation	Memory	object	Memory connection information to sockets and memory controllers.
MemoryMedia	Memory	array	Media of this memory.
MemoryMirroring	ComputerSystem (MemorySummary)	string (enum)	The ability and type of memory mirroring that this computer system supports.
MemorySet	MemoryDomain (InterleavableMemorySets)	array	The set of memory for a particular interleave set.
MemoryStallCount	ProcessorMetrics (CoreMetrics)	number	The number of stalled cycles due to memory operations.
MemorySubsystemControllerManufacturerID	Memory	string	The manufacturer ID of the memory subsystem controller of this memory module.
MemorySubsystemControllerProductID	Memory	string	The product ID of the memory subsystem controller of this memory module.
MemorySummary	ComputerSystem	object	The central memory of the system in general detail.
MemoryType	Memory, Processor (ProcessorMemory)	string (enum)	The type of memory.
MenuName	AttributeRegistry (RegistryEntries > Menus)	string	The unique name string of this menu.
MenuPath	AttributeRegistry (RegistryEntries > Attributes), AttributeRegistry (RegistryEntries > Menus)	string	The menu hierarchy path for an attribute or for a menu relative to other menus.
Menus	AttributeRegistry (RegistryEntries)	array	An array for the attributes menus and their hierarchy in the Attribute Registry.
Message	Job (Messages), Task (Messages)	object	The message that the Redfish Service returns.
	Event (Events)	string	The human-readable event message.
	EventService (Actions > SubmitTestEvent (Action))	string	The human-readable message for the event to add.
	LogEntry	string	The message of the log entry. This property decodes from the entry type. If the entry type is `Event`, this property contains a message. If the entry type is `SEL`, this property

			contains an SEL-specific message. Otherwise, this property contains an OEM-specific log entry. In most cases, this property contains the actual log entry.
MessageArgs	EventService (Actions > SubmitTestEvent (Action))	array	An array of message arguments for the event to add.
	Event (Events), LogEntry	array	An array of message arguments. These arguments replace the message arguments in a message in the message registry.
MessageId	EventService (SSEFilterPropertiesSupported)	boolean	An indication of whether the service supports the MessageId property in the \$filter query parameter.
	EventService (Actions > SubmitTestEvent (Action))	string	The MessageId for the event to add.
	LogEntry	string	The MessageId, event data, or OEM-specific information. This property decodes from the entry type. If the entry type is `Event`, this property contains a Redfish Specification-defined MessageId. If the entry type is `SEL`, this property contains the Event Data. Otherwise, this property contains OEM-specific information.
	Event (Events)	string	The key used to find the message in a Message Registry.
MessageIds	EventDestination	array	The list of MessageIds that the service sends. If this property is absent or the array is empty, events with any MessageId are sent to the subscriber.
Messages	Job, Task	array	An array of messages related to the job or task.
	MessageRegistry	object	The message keys contained in the Message Registry.
MetricDataType	MetricDefinition	string (enum)	The data type of the metric.
MetricDefinition	MetricReport (MetricValues), TelemetryService (Actions > SubmitTestMetricReport (Action) > GeneratedMetricReportValues)	object	The link to the metric.
MetricDefinitions	TelemetryService	object	The link to the collection of metric definitions.
MetricId	MetricReport (MetricValues), MetricReportDefinition (Metrics)	string	The label for the metric definition, which matches the Id property value of the corresponding metric definition.
	TelemetryService (Actions > SubmitTestMetricReport (Action) > GeneratedMetricReportValues)	string	The metric definitions identifier for this metric.

MetricProperties	MetricDefinition, MetricReportDefinition, MetricReportDefinition (Metrics), Triggers	array	An array of URIs that contains optional wildcards and property identifiers. The Wildcards array property specifies the character or characters that replace each wildcard. After each wildcard in a URI is replaced, the URI references a Resource property. A metric definition can apply to this property, or this property is included in a metric report. The property identifiers portion of the URI shall follow RFC6901-defined JSON fragment notation rules.
MetricProperty	MetricReport (MetricValues), TelemetryService (Actions > SubmitTestMetricReport (Action) > GeneratedMetricReportValues)	string	The URI for the property from which this metric is derived.
MetricReport	MetricReportDefinition	object	The location where the resultant metric report is placed.
MetricReportDefinition	EventService (SSEFilterPropertiesSupported)	boolean	An indication of whether the service supports the MetricReportDefinition property in the \$filter query parameter.
	MetricReport	object	The definitions in the metric report.
MetricReportDefinitionEnabled	MetricReportDefinition	boolean	An indication of whether the generation of new metric reports is enabled.
MetricReportDefinitionType	MetricReportDefinition	string (enum)	Specifies when the metric report is generated.
MetricReportDefinitions	EventDestination	array	A list of metric report definitions for which the service only sends related metric reports. If this property is absent or the array is empty, metric reports that originate from any metric report definition are sent to the subscriber.
	Triggers (Links)	array	The metric report definitions that generate new metric reports when a trigger condition is met and when the TriggerActions property contains `RedfishMetricReport`.
	TelemetryService	object	The link to the collection of metric report definitions.
MetricReportHeartbeatInterval	MetricReportDefinition	string	The interval at which to send the complete metric report because the Redfish client wants refreshed metric data even when the data has not changed. This property value is always greater than the recurrence interval of a metric report, and it only applies when the SuppressRepeatedMetricValue property is `true`.

MetricReportName	TelemetryService (Actions > SubmitTestMetricReport (Action))	string	The name of the metric report in generated metric report.
MetricReportValues	TelemetryService (Actions > SubmitTestMetricReport (Action))	string	The contents of MetricReportValues array in the generated metric report.
MetricReports	TelemetryService	object	The link to the collection of metric reports.
MetricType	Triggers	string (enum)	The metric type of the trigger.
	MetricDefinition	string (enum)	The type of metric.
MetricValue	MetricReport (MetricValues), TelemetryService (Actions > SubmitTestMetricReport (Action) > GeneratedMetricReportValues)	string	The metric value, as a string.
MetricValues	MetricReport	array	An array of metric values for the metered items of this Metric.
Metrics	MetricReportDefinition	array	The list of metrics to include in the metric report. The metrics may include metric properties or calculations applied to a metric property.
	ComputerSystem (MemorySummary)	object	The link to the metrics associated with all memory in this system.
	ComputerSystem (ProcessorSummary), Memory, Processor	object	The reference to the metrics related to all processors, a processor, or the memory in this system.
MicrocodeInfo	Processor (ProcessorId)	string	The microcode information for this processor.
MinAllowableOperatingValue	Thermal (Temperatures)	integer	Minimum allowable operating temperature for this equipment.
	Sensor	number	The minimum allowable operating value for this equipment.
MinAssignmentGroupSize	NetworkAdapter (Controllers > ControllerCapabilities > VirtualizationOffload > VirtualFunction)	integer	The minimum number of virtual functions that can be allocated or moved between physical functions for this controller.
MinBWAllocPercent	NetworkPort (NetDevFuncMinBWAlloc)	integer	The minimum bandwidth allocation percentage allocated to the corresponding network device function instance.
MinCollectionInterval	TelemetryService	string	The minimum time interval between gathering metric data that this service allows.
MinConsumedWatts	Power (PowerControl > PowerMetrics)	number	The lowest power consumption level, in watts, over the measurement window that occurred within the last

			IntervallnMin minutes.
MinLength	AttributeRegistry (RegistryEntries > Attributes)	integer	The minimum character length of the string attribute.
MinPasswordLength	AccountService	integer	The minimum password length for this Account Service.
MinReadingRange	Thermal (Fans)	integer	Minimum value for this sensor.
	MetricDefinition	number	Minimum value for metric reading.
	Power (Voltages)	number	Minimum value for this sensor.
MinReadingRangeTemp	Thermal (Temperatures)	number	Minimum value for this sensor.
MinimumFrequencyHz	Power (PowerSupplies > InputRanges)	number	The minimum line input frequency at which this power supply input range is effective.
MinimumValue	ActionInfo (Parameters)	number	The minimum supported value for this parameter.
MinimumVoltage	Power (PowerSupplies > InputRanges)	number	The minimum line input voltage at which this power supply input range is effective.
Model	<i>various</i> (Assembly (Assemblies), Chassis ...)	string	The model number of this product or device.
ModifyRedundancySet (Action)	Manager (Actions)	object	The ModifyRedundancySet operation adds members to or removes members from a redundant group of managers.
ModuleManufacturerID	Memory	string	The manufacturer ID of this memory module.
ModuleProductID	Memory	string	The product ID of this memory module.
MultipartHttpPushUri	UpdateService	string	The URI used to perform a Redfish Specification-defined Multipart HTTP or HTTPS push update to the Update Service.
MutualCHAPSecret	NetworkDeviceFunction (iSCSIBoot)	string	The CHAP secret for two-way CHAP authentication.
MutualCHAPUsername	NetworkDeviceFunction (iSCSIBoot)	string	The CHAP user name for two-way CHAP authentication.
MutuallyExclusiveEndpoints	Endpoint (Links)	array	An array of links to the endpoints that may not be used in zones if this endpoint is in a zone.
NPAR	NetworkAdapter (Controllers > ControllerCapabilities)	object	NIC Partitioning (NPAR) capabilities for this controller.
NPIV	NetworkAdapter (Controllers > ControllerCapabilities)	object	N_Port ID Virtualization (NPIV) capabilities for this controller.
NTP	ManagerNetworkProtocol	object	The settings for this manager's NTP protocol support.
NTPServers	ManagerNetworkProtocol (NTP)	array	Indicates to which NTP servers this

			manager is subscribed.
Name	<i>various</i> (AccelerationFunction, AccelerationFunctionCollection ...)	string	The Redfish Service-assigned Resource name.
NameServers	EthernetInterface	array	The DNS servers in use on this interface.
NegotiatedSpeedGbs	Drive	number	The speed, in gigabit per second (Gbit/s), at which this drive currently communicates to the storage controller.
NetDevFuncCapabilities	NetworkDeviceFunction	array	An array of capabilities for this network device function.
NetDevFuncMaxBWAlloc	NetworkPort	array	An array of maximum bandwidth allocation percentages for the network device functions associated with this port.
NetDevFuncMinBWAlloc	NetworkPort	array	An array of minimum bandwidth allocation percentages for the network device functions associated with this port.
NetDevFuncType	NetworkDeviceFunction	string (enum)	The configured capability of this network device function.
NetworkAdapter	NetworkInterface (Links)	object	The link to the network adapter that contains this network interface.
NetworkAdapters	Chassis	object	The link to the collection of Network Adapters associated with this chassis.
NetworkDeviceFunction	Endpoint (Links)	array	When NetworkDeviceFunction Resources are present, this array contains links to the network device functions that connect to this endpoint.
	NetworkPort (NetDevFuncMaxBWAlloc), NetworkPort (NetDevFuncMinBWAlloc)	object	The link to the NetworkDeviceFunction associated with this bandwidth setting of this network port.
NetworkDeviceFunctionCount	NetworkAdapter (Controllers > ControllerCapabilities)	integer	The maximum number of physical functions available on this controller.
NetworkDeviceFunctions	NetworkAdapter (Controllers > Links), PCleFunction (Links)	array	An array of references to the network device functions that either a PCIe device produces or is associated with a network controller.
	NetworkAdapter, NetworkInterface	object	The reference to a collection of network device functions associated with a network adapter or network interface.
NetworkInterfaces	ResourceBlock	array	An array of links to the Network Interfaces available in this Resource Block.
	ComputerSystem	object	The link to the collection of Network

			Interfaces associated with this system.
NetworkPortCount	NetworkAdapter (Controllers > ControllerCapabilities)	integer	The number of physical ports on this controller.
NetworkPortMaxCount	NetworkAdapter (Controllers > ControllerCapabilities > VirtualizationOffload > VirtualFunction)	integer	The maximum number of virtual functions supported per network port for this controller.
NetworkPorts	NetworkAdapter (Controllers > Links)	array	An array of links to the NetworkPorts associated with this Network Controller.
	NetworkAdapter, NetworkInterface	object	The reference to a collection of network ports associated with this network adapter or network interface.
NetworkProtocol	HostInterface, Manager	object	The reference to the network services and their settings that the manager controls. The client can find the network configuration options and network services in this property.
NewManager	Manager (Actions > ForceFailover (Action))	object	The manager to which to fail over.
NewPassword	Bios (Actions > ChangePassword (Action))	string	The new BIOS password.
NoLinks	ServiceRoot (ProtocolFeaturesSupported > ExpandQuery)	boolean	An indication of whether the service supports the period (`. `) option of the \$expand query parameter.
NonVolatileSizeMiB	Memory	integer	Total size of the non-volatile portion memory in MiB.
NotifyIPv6Scope	ManagerNetworkProtocol (SSDP)	string (enum)	The IPv6 scope for multicast NOTIFY messages for SSDP.
NotifyMulticastIntervalSeconds	ManagerNetworkProtocol (SSDP)	integer	The time interval, in seconds, between transmissions of the multicast NOTIFY ALIVE message from this service for SSDP.
NotifyTTL	ManagerNetworkProtocol (SSDP)	integer	The time-to-live hop count for SSDP multicast NOTIFY messages.
NparCapable	NetworkAdapter (Controllers > ControllerCapabilities > NPAR)	boolean	An indication of whether the controller supports NIC function partitioning.
NparEnabled	NetworkAdapter (Controllers > ControllerCapabilities > NPAR)	boolean	An indication of whether NIC function partitioning is active on this controller.
NumberDiscoveredRemotePorts	NetworkPort	integer	The number of ports not on this adapter that this port has discovered.
NumberOfCompositions	ResourceBlock (CompositionStatus)	integer	The number of compositions in which this Resource Block is currently participating.
NumericThresholds	Triggers	object	The thresholds when a numeric metric triggers.
OEMPrivilegesUsed	PrivilegeRegistry	array	The set of OEM privileges used in this mapping.

ObjectDataType	ActionInfo (Parameters)	string	The data type of an object-based parameter.
OccupancyBytes	ProcessorMetrics (Cache), ProcessorMetrics (CoreMetrics > CoreCache)	integer	The total cache level occupancy in bytes.
OccupancyPercent	ProcessorMetrics (Cache), ProcessorMetrics (CoreMetrics > CoreCache)	number	The total cache occupancy percentage.
Oem	<i>various</i> (AccelerationFunction (Links), AccelerationFunction ...)	object	The OEM extension.
OemLogEntryCode	LogEntry	string	The OEM-specific entry code, if the LogEntryCode type is `OEM`.
OemPrivileges	Role	array	The OEM privileges for this Role.
OemRecordFormat	LogEntry	string	The OEM-specific format of the entry. If the entry type is `Oem`, this property contains more information about the record format from the OEM.
OemSensorType	LogEntry	string	The OEM-specific sensor type if the sensor type is `OEM`.
OemSessionType	Session	string	The active OEM-defined session type.
OffsetMiB	Memory (Regions), MemoryChunks (InterleaveSets)	integer	The offset within the memory or dual in-line memory module (DIMM) that corresponds to the start of this memory region, in mebibytes (MiB).
OldPassword	Bios (Actions > ChangePassword (Action))	string	The existing BIOS password.
OnlyMemberQuery	ServiceRoot (ProtocolFeaturesSupported)	boolean	An indication of whether the service supports the only query parameter.
OperatingMemoryModes	Memory	array	Memory modes supported by the memory.
OperatingMode	EthernetInterface (DHCPv6)	string (enum)	Determines the DHCPv6 operating mode for this interface.
OperatingSpeedMhz	Memory	integer	Operating speed of memory in MHz or MT/s as appropriate.
OperationMap	PrivilegeRegistry (Mappings), PrivilegeRegistry (Mappings > PropertyOverrides), PrivilegeRegistry (Mappings > ResourceURIOverrides), PrivilegeRegistry (Mappings > SubordinateOverrides)	object	The mapping between the HTTP method and privilege required for an entity or to complete an operation.
OperationName	Drive (Operations), Volume (Operations)	string	The name of the operation.
Operations	Drive, Volume	array	The operations currently running on the drive or volume.
OptimumIOSizeBytes	Volume	number	The size in bytes of this Volume's

			optimum IO size.
Organization	CertificateService (Actions > GenerateCSR (Action))	string	The name of the organization making the request.
	Certificate (Issuer), Certificate (Subject)	string	The name of the organization of the entity.
OrganizationalUnit	CertificateService (Actions > GenerateCSR (Action))	string	The name of the unit or division of the organization making the request.
	Certificate (Issuer), Certificate (Subject)	string	The name of the unit or division of the organization of the entity.
OriginOfCondition	Event (Events), LogEntry (Links)	object	The reference to the Resource that triggered the event.
	EventService (Actions > SubmitTestEvent (Action))	string	The URL in the OriginOfCondition property of the event to add. It is not a reference object.
OriginResource	EventService (SSEFilterPropertiesSupported)	boolean	An indication of whether the service supports the OriginResource property in the \$filter query parameter.
OriginResources	EventDestination	array	The array of Resources for which the service sends only related events. If this property is absent or the array is empty, the service sends the events that originate from any Resource to the subscriber.
OutputWattage	Power (PowerSupplies > InputRanges)	number	The maximum capacity of this power supply when operating in this input range.
OverWritePolicy	LogService	string (enum)	The overwrite policy for this service that takes place when the log is full.
OverwriteUnit (Action)	Memory (Actions)	object	This contains the action for securely erasing given regions using the NIST SP800-88 Purge: Overwrite.
OwningEntity	AttributeRegistry	string	The organization or company that publishes this Attribute Registry.
	MessageRegistry	string	The organization or company that publishes this Message Registry.
PATCH	PrivilegeRegistry (Mappings > OperationMap), PrivilegeRegistry (Mappings > PropertyOverrides > OperationMap), PrivilegeRegistry (Mappings > ResourceURIOverrides > OperationMap), PrivilegeRegistry (Mappings > SubordinateOverrides > OperationMap)	array	The privilege required to complete an HTTP PATCH operation.
PCle	Processor (FPGA > ExternalInterfaces), Processor (FPGA > HostInterface)	object	The PCIe-related information for this FPGA interface.

PCleDevice	PCleSlots (Slots > Links)	array	An array of links to the PCIe devices contained in this slot.
	PCleFunction (Links), Processor (Links)	object	The reference to the PCIe device associated with a processor or on which a function resides.
PCleDevices	Chassis (Links), ComputerSystem, NetworkAdapter (Controllers > Links)	array	An array of references to a collection of PCIe devices that a computer system uses or a chassis contains, or that is associated with a network controller.
	Chassis	object	The link to the collection of PCIe devices located in this chassis.
PCleFunction	NetworkDeviceFunction (Links)	object	The link to the PCIe function associated with this network device function.
PCleFunctions	AccelerationFunction (Links), ComputerSystem, Drive (Links), PCleDevice (Links), Processor (Links), Storage (StorageControllers > Links)	array	An array of references to a collection of PCIe devices that a computer system uses, a device exposes, a drive or storage controller produces, or that is associated with a processor or an acceleration function.
	PCleDevice	object	The link to the collection of PCIe functions associated with this PCIe device.
PCleInterface	NetworkAdapter (Controllers), PCleDevice, Storage (StorageControllers)	object	The PCIe interface details for a PCIe device or controller.
PCleSlots	Chassis	object	The link to the PCIe slot properties for this chassis.
PCleType	PCleDevice (PCleInterface), PCleSlots (Slots)	string (enum)	The version of the PCIe Specification that a device uses or a slot supports.
PCleVirtualFunctions	Processor (FPGA)	integer	The number of the PCIe Virtual Functions.
POST	PrivilegeRegistry (Mappings > OperationMap), PrivilegeRegistry (Mappings > PropertyOverrides > OperationMap), PrivilegeRegistry (Mappings > ResourceURIOverrides > OperationMap), PrivilegeRegistry (Mappings > SubordinateOverrides > OperationMap)	array	The required privilege for the HTTP POST operation.
PUT	PrivilegeRegistry (Mappings > OperationMap), PrivilegeRegistry (Mappings > PropertyOverrides > OperationMap), PrivilegeRegistry (Mappings > ResourceURIOverrides > OperationMap), PrivilegeRegistry (Mappings > SubordinateOverrides > OperationMap)	array	The required privilege for the HTTP PUT operation.

	SubordinateOverrides > OperationMap)		
Parameters	ActionInfo	array	The list of parameters included in the specified Redfish action.
Parity	SerialInterface	string (enum)	The type of parity used by the sender and receiver to detect errors over the serial connection.
PartNumber	<i>various</i> (Assembly (Assemblies), Chassis ...)	string	The part number for this device or Resource.
Passphrase	Memory (Actions > DisablePassphrase (Action)), Memory (Actions > OverwriteUnit (Action)), Memory (Actions > SecureEraseUnit (Action)), Memory (Actions > SetPassphrase (Action))	string	Passphrase for doing the operation.
	Memory (Actions > UnlockUnit (Action))	string	The passphrase required to complete the operation.
PassphraseCapable	Memory (SecurityCapabilities)	boolean	An indication of whether the memory is passphrase capable.
PassphraseEnabled	Memory (Regions)	boolean	An indication of whether the passphrase is enabled for this region.
PassphraseLockLimit	Memory (SecurityCapabilities)	integer	The maximum number of incorrect passphrase attempts allowed before memory is locked.
PassphraseState	Memory (Regions)	boolean	An indication of whether the state of the passphrase for this region is enabled.
Password	AccountService (ActiveDirectory > Authentication), AccountService (LDAP > Authentication), ExternalAccountProvider (Authentication), ManagerAccount, Session, VirtualMedia	string	The password to access an Image parameter-specified URI, create a session, write the password for an account service or an account. A GET of this property returns null.
	VirtualMedia (Actions > InsertMedia (Action))	string	The password to access the Image parameter-specified URI.
	UpdateService (Actions > SimpleUpdate (Action))	string	The password to access the URI specified by the ImageURI parameter.
PasswordChangeRequired	ManagerAccount	boolean	An indication of whether the service requires that the password for this account be changed before further access to the account is allowed.
PasswordName	Bios (Actions > ChangePassword (Action))	string	The name of the BIOS password to change.
Payload	Job, Task	object	The HTTP and JSON payload details for a job or task.

PciClassCode	Endpoint (ConnectedEntities)	string	The Class Code, Subclass, and Programming Interface code of this PCIe function.
PciFunctionNumber	Endpoint (ConnectedEntities)	integer	The PCI ID of the connected entity.
Pcild	Endpoint	object	The PCI ID of the endpoint.
PeakPowerBudgetMilliWatts	Memory (PowerManagementPolicy)	integer	Peak power budget, in milliwatts.
PeakReading	Sensor	number	The peak sensor value.
PeakReadingTime	Sensor	string	The time when the peak sensor value occurred.
PercentComplete	Job, Task	integer	The completion percentage of this job or task.
PercentageComplete	Drive (Operations)	integer	The percentage of the operation that has been completed.
	Volume (Operations)	number	The percentage of the operation that has been completed.
PerformanceDegraded	MemoryMetrics (HealthData)	boolean	An indication of whether performance has degraded.
PermanentMACAddress	EthernetInterface, NetworkDeviceFunction (Ethernet)	string	The permanent MAC address assigned to a port or network device, or physical, function.
PermanentWWNN	NetworkDeviceFunction (FibreChannel)	string	The permanent World Wide Node Name (WWNN) address assigned to this function.
PermanentWWPN	NetworkDeviceFunction (FibreChannel)	string	The permanent World Wide Port Name (WWPN) address assigned to this function.
PersistentCacheSizeMiB	Storage (StorageControllers > CacheSummary)	integer	The portion of the cache memory that is persistent, measured in MiB.
PersistentRegionNumberLimit	Memory	integer	Total number of persistent regions this memory can support.
PersistentRegionSizeLimitMiB	Memory	integer	Total size of persistent regions in mebibytes (MiB).
PersistentRegionSizeMaxMiB	Memory	integer	Maximum size of a single persistent region in mebibytes (MiB).
PhysicalContext	Assembly (Assemblies), MetricDefinition, Power (PowerControl), Power (Voltages), Sensor, Thermal (Fans), Thermal (Temperatures)	string (enum)	The physical context, or the area, device, or set of devices, for this Resource.
PhysicalLocation	Drive	object	The location of the drive.
PhysicalPortAssignment	NetworkDeviceFunction (Links), NetworkDeviceFunction	object	The physical port to which this network device function is currently assigned.
PhysicalPortNumber	NetworkPort	string	The physical port number label for this

			port.
PhysicalSecurity	Chassis	object	The state of the physical security sensor.
PhysicalSubContext	Sensor	string (enum)	The usage or location within a device to which this sensor measurement applies.
PinOut	SerialInterface	string (enum)	The physical pinout configuration for a serial connector.
PolicyEnabled	Memory (PowerManagementPolicy)	boolean	An indication of whether the power management policy is enabled.
Port	<i>various</i> (ManagerNetworkProtocol (DHCP), ManagerNetworkProtocol (DHCPv6) ...)	integer	The protocol port.
	Endpoint (IPTransportDetails)	number	The UDP or TCP port number used by the endpoint.
PortId	Port	string	The label of this port on the physical package for this port.
PortMaximumMTU	NetworkPort	integer	The largest maximum transmission unit (MTU) that can be configured for this network port.
PortProtocol	Port	string (enum)	The protocol being sent over this port.
PortType	Port	string (enum)	The type of this port.
Ports	Endpoint (Links)	array	An array of links to the physical ports associated with this endpoint.
	Storage (StorageControllers), Switch	object	The collection of ports that a switch or a storage controller contains.
Power	Chassis	object	The link to the power properties, or power supplies, power policies, and sensors, for this chassis.
PowerAllocatedWatts	Power (PowerControl)	number	The total amount of power that has been allocated or budgeted to chassis.
PowerAvailableWatts	Power (PowerControl)	number	The amount of reserve power capacity, in watts, that remains. This value is the PowerCapacity value minus the PowerAllocated value.
PowerCapacityWatts	Power (PowerSupplies)	number	The maximum capacity of this power supply.
	Power (PowerControl)	number	The total amount of power that can be allocated to the chassis. This value can be either the power supply capacity or the power budget that an upstream chassis assigns to this chassis.
PowerConsumedWatts	Power (PowerControl)	number	The actual power that the chassis

			consumes, in watts.
PowerControl	Power	array	The set of power control functions, including power reading and limiting.
PowerFactor	Sensor	number	The power factor for this sensor.
PowerInputWatts	Power (PowerSupplies)	number	The measured input power of this power supply.
PowerLimit	Power (PowerControl)	object	The power limit status and configuration information for this chassis.
PowerManagementPolicy	Memory	object	Power management policy information.
PowerMetrics	Power (PowerControl)	object	The power readings for this chassis.
PowerOutputWatts	Power (PowerSupplies)	number	The measured output power of this power supply.
PowerRequestedWatts	Power (PowerControl)	number	The potential power, in watts, that the chassis requests, which may be higher than the current level being consumed because the requested power includes a budget that the chassis wants for future use.
PowerRestorePolicy	ComputerSystem	string (enum)	The desired power state of the system when power is restored after a power loss.
PowerState	Chassis, ComputerSystem, Manager, Switch	string (enum)	The current power state of the chassis, manager, switch or computer system.
PowerSupplies	Power	array	The set of power supplies associated with this system or device.
PowerSupplyType	Power (PowerSupplies)	string (enum)	The power supply type (AC or DC).
PowerWatts	AccelerationFunction	integer	The acceleration function power consumption, in watts.
PoweredBy	Chassis (Links), ComputerSystem (Links)	array	An array of IDs of the Resources that power this chassis or system. Each ID in the array is for a chassis or a specific set of power supplies.
Precedence	EthernetInterface (IPv6AddressPolicyTable)	integer	The IPv6 precedence, as defined in RFC6724, section 2.1.
Precision	MetricDefinition	integer	Number of significant digits in the metric reading.
	Sensor	number	The number of significant digits in the reading.
PredictedMediaLifeLeftPercent	Drive	number	The percentage of reads and writes that are predicted to be available for the media.
	MemoryMetrics (HealthData)	number	The percentage of reads and writes that are predicted to still be available

			for the media.
Prefix	EthernetInterface (IPv6AddressPolicyTable)	string	The IPv6 address prefix, as defined in RFC6724, section 2.1.
PrimaryDNS	NetworkDeviceFunction (iSCSIBoot)	string	The IPv6 or IPv4 address of the primary DNS server for the iSCSI boot initiator.
PrimaryLUN	NetworkDeviceFunction (iSCSIBoot)	integer	The logical unit number (LUN) for the primary iSCSI boot target.
PrimaryTargetIPAddress	NetworkDeviceFunction (iSCSIBoot)	string	The IPv4 or IPv6 address for the primary iSCSI boot target.
PrimaryTargetName	NetworkDeviceFunction (iSCSIBoot)	string	The name of the iSCSI primary boot target.
PrimaryTargetTCPPort	NetworkDeviceFunction (iSCSIBoot)	integer	The TCP port for the primary iSCSI boot target.
PrimaryVLANEnable	NetworkDeviceFunction (iSCSIBoot)	boolean	An indication of whether the primary VLAN is enabled.
PrimaryVLANId	NetworkDeviceFunction (iSCSIBoot)	integer	The 802.1q VLAN ID to use for iSCSI boot from the primary target.
Privilege	<i>various</i> (PrivilegeRegistry (Mappings > OperationMap > DELETE), PrivilegeRegistry (Mappings > OperationMap > GET) ...)	array	An array of privileges that are required to complete a specific HTTP operation on a Resource.
PrivilegeMap	AccountService	object	The link to the mapping of the privileges required to complete a requested operation on a URI associated with this Service.
PrivilegesUsed	PrivilegeRegistry	array	The set of Redfish standard privileges used in this mapping.
ProcessorArchitecture	Processor	string (enum)	The architecture of the processor.
ProcessorId	Processor	object	The identification information for this processor.
ProcessorMemory	Processor	array	The memory directly attached or integrated within this Processor.
ProcessorSummary	ComputerSystem	object	The central processors of the system in general detail.
ProcessorType	Processor	string (enum)	The type of processor.
Processors	Chassis (Links), ResourceBlock	array	An array of references to the processors in this Resource block or chassis.
	ComputerSystem	object	The link to the collection of processors associated with this system.
Producer	Assembly (Assemblies)	string	The producer or manufacturer of the assembly.

Product	ServiceRoot	string	The product associated with this Redfish Service.
ProductName	AttributeRegistry (SupportedSystems)	string	The product name of the computer system to which this Attribute Registry applies.
ProductionDate	Assembly (Assemblies)	string	The production date of the assembly.
ProgrammableFromHost	Processor (FPGA), Processor (FPGA > ReconfigurationSlots)	boolean	An indication of whether system software on the host can reprogram the FPGA firmware or the reconfiguration slot.
PropertyOverrides	PrivilegeRegistry (Mappings)	array	The privilege overrides of properties within a Resource.
Protocol	Drive, EventDestination	string (enum)	The protocol that either a drive uses to communicate with the storage controller or the event uses to communicate with the destination.
ProtocolEnabled	<i>various</i> (ManagerNetworkProtocol (DHCP), ManagerNetworkProtocol (DHCPv6) ...)	boolean	An indication of whether the protocol is enabled.
ProtocolFeaturesSupported	ServiceRoot	object	The information about protocol features that the service supports.
PublicationUri	JsonSchemaFile (Location)	string	The link to publicly available (canonical) URI for schema.
	MessageRegistryFile (Location)	string	The link to publicly available (canonical) URI for the Message Registry.
RDP	ManagerNetworkProtocol	object	The settings for this manager's Remote Desktop Protocol support.
RFB	ManagerNetworkProtocol	object	The settings for this manager's Remote Frame Buffer protocol support, which can support VNC.
RankCount	Memory	integer	Number of ranks available in the memory.
ReactiveVAR	Sensor	number	The square root of the difference term of squared ApparentVA and squared Power (Reading) for a circuit, in VAR units.
ReadOnly	AttributeRegistry (RegistryEntries > Attributes), AttributeRegistry (RegistryEntries > Menus)	boolean	An indication of whether this attribute or menu is read-only.
Reading	Thermal (Fans)	integer	The fan speed.
	Sensor	number	The sensor value.
	Sensor (Thresholds > LowerCaution), Sensor (Thresholds > LowerCritical), Sensor (Thresholds >	number	The threshold value.

	LowerFatal), Sensor (Thresholds > UpperCaution), Sensor (Thresholds > UpperCritical), Sensor (Thresholds > UpperFatal), Triggers (NumericThresholds > LowerCritical), Triggers (NumericThresholds > LowerWarning), Triggers (NumericThresholds > UpperCritical), Triggers (NumericThresholds > UpperWarning)		
ReadingCelsius	Thermal (Temperatures)	number	The temperature in degrees Celsius.
ReadingRangeMax	Sensor	number	The maximum possible value for this sensor.
ReadingRangeMin	Sensor	number	The minimum possible value for this sensor.
ReadingType	Sensor	string (enum)	The type of sensor.
ReadingUnits	Sensor	string	The units in which the reading and thresholds are measured.
	Thermal (Fans)	string (enum)	The units in which the fan reading and thresholds are measured.
ReadingVolts	Power (Voltages)	number	The reading of the voltage sensor.
RebuildRatePercent	Storage (StorageControllers > ControllerRates)	integer	The percentage of controller Resources used for rebuilding/repairing volumes.
ReconfigurationSlots	Processor (FPGA)	array	An array of the FPGA reconfiguration slots. An FPGA uses a reconfiguration slot to contain an acceleration function that can change as the FPGA is provisioned.
RedfishVersion	ServiceRoot	string	The version of the Redfish Service.
Redundancy	ComputerSystem, Endpoint, Manager, Power (PowerSupplies), Power, Storage, Switch, Thermal (Fans), Thermal	array	The reference to a collection of redundancy entities. These entities name a set of computer systems that provide redundancy, show how an endpoint or manager is grouped with other endpoints or managers to form redundancy sets, or provide redundancy information for the power subsystem of a system or device, the storage subsystem, the switches, or fans. For power supplies or fans, the component IDs reference the members of the redundancy groups.
RegionId	MemoryChunks (InterleaveSets)	string	DIMM region identifier.
	Memory (Actions > DisablePassphrase (Action)), Memory (Actions >	string	The memory region ID to which to apply this action.

	OverwriteUnit (Action), Memory (Actions > SecureEraseUnit (Action)), Memory (Actions > SetPassphrase (Action)), Memory (Actions > UnlockUnit (Action))		
	Memory (Regions)	string	Unique region ID representing a specific region within the memory.
Regions	Memory	array	Memory regions information within the memory.
Registries	ServiceRoot	object	The link to a collection of Registries.
Registry	MessageRegistryFile	string	The registry name and its major and minor versions. This registry can be any type of registry, such as a Message Registry, Privilege Registry, or Attribute Registry.
RegistryEntries	AttributeRegistry	object	The list of all attributes and their metadata for this component.
RegistryPrefix	EventService (SSEFilterPropertiesSupported)	boolean	An indication of whether the service supports the RegistryPrefix property in the \$filter query parameter.
	MessageRegistry	string	The single-word prefix that is used in forming and decoding MessageIds.
RegistryPrefixes	EventDestination	array	The list of the prefixes for the Message Registries that contain the MessageIds that are sent to this event destination.
	EventService	array	The list of the prefixes of the Message Registries that can be used for the RegistryPrefix property on a subscription. If this property is absent or contains an empty array, the service does not support RegistryPrefix-based subscriptions.
RegistryVersion	AttributeRegistry	string	The Attribute Registry version.
	MessageRegistry	string	The Message Registry version in the middle portion of a MessageId.
Rekey (Action)	Certificate (Actions)	object	This action generates a new key-pair for a certificate and produces a certificate signing request.
RelatedItem	BootOption, Power (PowerControl), Power (PowerSupplies), Power (Voltages), SoftwareInventory, Thermal (Fans), Thermal (Temperatures)	array	The areas or devices related to this Resource.
ReleaseDate	SoftwareInventory	string	The release date of this software.
RemainingSpareBlockPercentage	MemoryMetrics (HealthData)	number	The remaining spare blocks, as a percentage.

RemoteAccountService	Manager	object	The link to the AccountService Resource for the remote manager that this Resource represents.
RemoteGroup	AccountService (ActiveDirectory > RemoteRoleMapping), AccountService (LDAP > RemoteRoleMapping), ExternalAccountProvider (RemoteRoleMapping)	string	The name of the remote group, or the remote role in the case of a Redfish Service, that maps to the local Redfish Role to which this entity links.
RemoteMemoryBandwidthBytes	ProcessorMetrics	integer	The remote memory bandwidth usage in bytes.
RemoteRedfishServiceUri	Manager	string	The URI of the Redfish Service Root for the remote manager that this Resource represents.
RemoteRoleMapping	AccountService (ActiveDirectory), AccountService (LDAP), ExternalAccountProvider	array	The mapping rules to convert the external account providers account information to the local Redfish Role.
RemoteUser	AccountService (ActiveDirectory > RemoteRoleMapping), AccountService (LDAP > RemoteRoleMapping), ExternalAccountProvider (RemoteRoleMapping)	string	The name of the remote user that maps to the local Redfish Role to which this entity links.
Remove	Manager (Actions > ModifyRedundancySet (Action))	array	An array of managers to remove from the redundancy set.
RemoveResourceBlock (Action)	ComputerSystem (Actions)	object	This action removes a Resource Block from a system.
Renew (Action)	Certificate (Actions)	object	This action generates a certificate signing request by using the existing information and key-pair of the certificate.
ReplaceCertificate (Action)	CertificateService (Actions)	object	This action replaces a certificate.
ReportActions	MetricReportDefinition	array	The set of actions to perform when a metric report is generated.
ReportActionsEnum	MetricReportDefinition (ReportActions)	string (enum)	Actions to perform when a metric report is generated.
ReportSequence	MetricReport	string	The current sequence identifier for this metric report.
ReportTimespan	MetricReportDefinition	string	Specifies the timespan duration of the metric report.
ReportUpdates	MetricReportDefinition	string (enum)	When logging metric reports, specifies how subsequent metric reports are handled in relationship to an existing metric report created from the metric report definition. Namely, whether to overwrite, append, or create a report Resource.
Required	ActionInfo (Parameters)	boolean	An indication of whether the parameter is required to complete this action.

Reserved	ResourceBlock (CompositionStatus)	boolean	An indication of whether any client has reserved the Resource Block.
Reset (Action)	ComputerSystem (Actions), Manager (Actions), Port (Actions), Switch (Actions)	object	This action resets this Resource.
	Chassis (Actions)	object	This action resets this chassis but not related Resources. However, a reset of the chassis can affect those related Resources.
	Drive (Actions)	object	This action resets this drive.
	Memory (Actions)	object	This action resets this memory.
ResetBios (Action)	Bios (Actions)	object	This action resets the BIOS attributes to default.
ResetKeys (Action)	SecureBoot (Actions)	object	This action resets the Secure Boot keys.
ResetKeyType	SecureBoot (Actions > ResetKeys (Action))	string (enum)	The type of keys to reset or delete.
ResetRequired	AttributeRegistry (RegistryEntries > Attributes)	boolean	An indication of whether a system or device reset is required for this attribute value change to take effect.
ResetSettingsToDefault (Action)	NetworkAdapter (Actions)	object	This action is to clear the settings back to factory defaults.
ResetStatistics (Action)	Sensor (Actions)	object	Resets statistics related to this sensor.
ResetType	Chassis (Actions > Reset (Action)), ComputerSystem (Actions > Reset (Action)), Drive (Actions > Reset (Action)), Manager (Actions > Reset (Action)), Memory (Actions > Reset (Action)), Port (Actions > Reset (Action)), Switch (Actions > Reset (Action))	string (enum)	The type of reset.
ResidencyPercent	ProcessorMetrics (CoreMetrics > CStateResidency)	number	The percentage of time that the processor or core has spent in this particular level of C-state.
ResourceBlock	ComputerSystem (Actions > AddResourceBlock (Action))	object	The Resource Block to add to the system.
	ComputerSystem (Actions > RemoveResourceBlock (Action))	object	The Resource Block to remove from the system.
ResourceBlockETag	ComputerSystem (Actions > AddResourceBlock (Action))	string	The current ETag of the Resource Block to add to the system.
	ComputerSystem (Actions > RemoveResourceBlock	string	The current ETag of the Resource Block to remove from the system.

	(Action))		
ResourceBlockType	ResourceBlock	array	The types of Resources available on this Resource Block.
ResourceBlocks	Chassis (Links)	array	An array of references to the Resource blocks that this chassis contains.
	ComputerSystem (Links), Zone (Links)	array	An array of references to the Resource blocks that this system or zone uses.
	CompositionService	object	The Resource Blocks available on the service.
	ServiceRoot	object	The link to a collection of all Resource Block Resources. This collection is intended for implementations that do not contain a Composition Service but that expose Resources to an orchestrator that implements a Composition Service.
ResourceType	EventService (SSEFilterPropertiesSupported)	boolean	An indication of whether the service supports the ResourceType property in the \$filter query parameter.
ResourceTypes	EventService	array	The list of @odata.type values, or Schema names, that can be specified in the ResourceTypes array in a subscription. If this property is absent or contains an empty array, the service does not support Resource type-based subscriptions.
	EventDestination	array	The list of Resource Type values (Schema names) that correspond to the OriginOfCondition. The version and full namespace should not be specified.
ResourceURIOverrides	PrivilegeRegistry (Mappings)	array	The privilege overrides of Resource URIs.
ResourceZones	CompositionService	object	The Resource Zones available on the service.
ResultMetric	MetricDefinition (CalculationParameters)	string	The link to a metric property that stores the result of the calculation.
ResumeSubscription (Action)	EventDestination (Actions)	object	This action resumes a suspended event subscription.
Revision	Drive	string	The revision of this drive. This is typically the firmware or hardware version of the drive.
RevisionId	PCleFunction	string	The Revision ID of this PCIe function.
Role	ManagerAccount (Links)	object	The link to the Redfish Role that defines the privileges for this account.
RoleId	ManagerAccount, Role	string	The name of the role.
Roles	AccountService	object	The collection of Redfish Roles.

RotationSpeedRPM	Drive	number	The rotation speed of this drive, in revolutions per minute (RPM).
RouterAdvertisementEnabled	NetworkDeviceFunction (iSCSIBoot)	boolean	An indication of whether IPv6 router advertisement is enabled for the iSCSI boot target.
SKU	Assembly (Assemblies), Chassis, ComputerSystem, Drive, NetworkAdapter, PCIeDevice, Storage (StorageControllers), Switch	string	The SKU of the product or device.
SNMP	ManagerNetworkProtocol	object	The settings for this manager's SNMP support.
SRIOV	NetworkAdapter (Controllers > ControllerCapabilities > VirtualizationOffload)	object	Single-Root Input/Output Virtualization (SR-IOV) capabilities.
SRIOVVEPACapable	NetworkAdapter (Controllers > ControllerCapabilities > VirtualizationOffload > SRIOV)	boolean	An indication of whether this controller supports single root input/output virtualization (SR-IOV) in Virtual Ethernet Port Aggregator (VEPA) mode.
SSDP	ManagerNetworkProtocol	object	The settings for this manager's SSDP support.
SSEFilterPropertiesSupported	EventService	object	The set of properties that are supported in the \$filter query parameter for the ServerSentEventUri.
SSH	ManagerNetworkProtocol	object	The settings for this manager's Secure Shell (SSH) protocol support.
ScalarIncrement	AttributeRegistry (RegistryEntries > Attributes)	integer	The amount to increment or decrement an integer attribute each time a user requests a value change. The `0` value indicates a free-form numeric user-input attribute.
Schedule	Job, MetricReportDefinition	object	The schedule for this job or metric report.
Scheduling	JobService (ServiceCapabilities)	boolean	An indication of whether scheduling of jobs is supported.
Schema	JsonSchemaFile	string	The @odata.type name this schema describes.
SearchSettings	AccountService (ActiveDirectory > LDAPService), AccountService (LDAP > LDAPService), ExternalAccountProvider (LDAPService)	object	The required settings to search an external LDAP service.
SecondaryDNS	NetworkDeviceFunction (iSCSIBoot)	string	The IPv6 or IPv4 address of the secondary DNS server for the iSCSI boot initiator.

SecondaryLUN	NetworkDeviceFunction (iSCSIBoot)	integer	The logical unit number (LUN) for the secondary iSCSI boot target.
SecondaryTargetIPAddress	NetworkDeviceFunction (iSCSIBoot)	string	The IPv4 or IPv6 address for the secondary iSCSI boot target.
SecondaryTargetName	NetworkDeviceFunction (iSCSIBoot)	string	The name of the iSCSI secondary boot target.
SecondaryTargetTCPPort	NetworkDeviceFunction (iSCSIBoot)	integer	The TCP port for the secondary iSCSI boot target.
SecondaryVLANEnable	NetworkDeviceFunction (iSCSIBoot)	boolean	An indication of whether the secondary VLAN is enabled.
SecondaryVLANId	NetworkDeviceFunction (iSCSIBoot)	integer	The 802.1q VLAN ID to use for iSCSI boot from the secondary target.
SecureBoot	ComputerSystem	object	The link to the UEFI Secure Boot associated with this system.
SecureBootCurrentBoot	SecureBoot	string (enum)	Secure Boot state during the current boot cycle.
SecureBootEnable	SecureBoot	boolean	An indication of whether UEFI Secure Boot is enabled.
SecureBootMode	SecureBoot	string (enum)	Current Secure Boot Mode.
SecureErase (Action)	Drive (Actions)	object	This action securely erases the contents of the drive.
SecureEraseUnit (Action)	Memory (Actions)	object	This contains the action for securely erasing given regions using the NIST SP800-88 Purge: Cryptographic Erase.
SecurityCapabilities	Memory	object	Security capabilities of the memory.
SecurityState	Memory	string (enum)	The current security state of this memory.
SecurityStates	Memory (SecurityCapabilities)	array	Security states supported by the memory.
SelectQuery	ServiceRoot (ProtocolFeaturesSupported)	boolean	An indication of whether the service supports the \$select query parameter.
SensingFrequency	Sensor	number	The time interval between readings of the physical sensor.
SensingInterval	MetricDefinition	string	The time interval between when a metric is updated.
SensorNumber	Power (Voltages), Thermal (Fans), Thermal (Temperatures)	integer	The numerical ID for this sensor.
	LogEntry	integer	The sensor number, the count of events, or OEM-specific information. This property value is decoded from the entry type. If the entry type is `SEL`, this property contains the sensor number. If the entry type is `Event`, this property contains the count of events. Otherwise, this property contains OEM-specific

			information.
SensorResetTime	Sensor	string	The date and time when the time-based properties were last reset.
SensorType	LogEntry	string (enum)	The sensor type to which the log entry pertains if the entry type is `SEL`.
Sensors	Chassis	object	The navigation pointer to the collection of sensors located in the equipment and sub-components.
SerialConsole	Manager	object	The serial console service that this manager provides.
SerialInterfaces	Manager	object	The link to a collection of serial interfaces that this manager uses for serial and console communication.
SerialNumber	<i>various</i> (Assembly (Assemblies), Chassis ...)	string	The serial number of this device.
ServerSentEventUri	EventService	string	The link to a URI for receiving Server-Sent Event representations for the events that this service generates.
ServiceAddresses	AccountService (ActiveDirectory), AccountService (LDAP), ExternalAccountProvider	array	The addresses of the user account providers to which this external account provider links. The format of this field depends on the type of external account provider.
ServiceCapabilities	JobService	object	The supported capabilities of this Job Service implementation.
ServiceEnabled	AccountService	boolean	An indication of whether the Account Service is enabled. If `true`, it is enabled. If `false`, it is disabled and users cannot be created, deleted, or modified, and new sessions cannot be started. However, established sessions may still continue to run. Any service, such as the Session Service, that attempts to access the disabled Account Service fails. However, this does not affect HTTP Basic Authentication connections.
	Manager (CommandShell), Manager (GraphicalConsole), Manager (SerialConsole)	boolean	An indication of whether the service is enabled for this manager.
	AccountService (ActiveDirectory), AccountService (LDAP), CompositionService, EventService, ExternalAccountProvider, JobService, LogService, TaskService, UpdateService	boolean	An indication of whether this service is enabled.
	SessionService	boolean	An indication of whether this service is enabled. If `true`, this service is

			enabled. If `false`, it is disabled, and new sessions cannot be created, old sessions cannot be deleted, and established sessions may continue operating.
ServiceEntryPointUUID	Manager	string	The UUID of the Redfish Service that is hosted by this manager.
SessionService	ServiceRoot	object	The link to the Sessions Service.
SessionTimeout	SessionService	integer	The number of seconds of inactivity that a session may have before the Session Service closes the session due to inactivity.
SessionType	Session	string (enum)	The active session type.
Sessions	ServiceRoot (Links)	object	The link to a collection of Sessions.
	SessionService	object	The link to a collection of sessions.
SetDefaultBootOrder (Action)	ComputerSystem (Actions)	object	This action sets the BootOrder to the default settings.
SetEncryptionKey (Action)	Storage (Actions)	object	This action sets the encryption key for the storage subsystem.
SetPassphrase (Action)	Memory (Actions)	object	Set passphrase for the given regions.
Severity	EventService (Actions > SubmitTestEvent (Action))	string	The severity for the event to add.
	Event (Events)	string	The severity of the event.
	Triggers (DiscreteTriggers)	string (enum)	The severity of the event message.
	LogEntry	string (enum)	The severity of the log entry.
SharingCapable	ResourceBlock (CompositionStatus)	boolean	An indication of whether this Resource Block can participate in multiple compositions simultaneously.
SharingEnabled	ResourceBlock (CompositionStatus)	boolean	An indication of whether this Resource Block is allowed to participate in multiple compositions simultaneously.
SignalDetected	NetworkPort	boolean	An indication of whether the port has detected enough signal on enough lanes to establish a link.
SignalType	SerialInterface	string (enum)	The type of signal used for the communication connection.
SimpleStorage	ResourceBlock	array	An array of links to the simple storage available in this Resource Block.
	ComputerSystem	object	The link to the collection of storage devices associated with this system.
SimpleUpdate (Action)	UpdateService (Actions)	object	This action updates software components.

SizeMiB	Memory (Regions), MemoryChunks (InterleaveSets)	integer	The size of this memory region, in mebibytes (MiB).
Slot	Memory (MemoryLocation)	integer	The slot number to which the memory is connected.
SlotId	Processor (FPGA > ReconfigurationSlots)	string	The FPGA reconfiguration slot identifier.
SlotType	PCleSlots (Slots)	string (enum)	The PCIe slot type for this slot.
Slots	PCleSlots	array	An array of PCI Slot information.
Socket	Memory (MemoryLocation)	integer	The socket number to which the memory is connected.
	Processor	string	The socket or location of the processor.
SoftwareId	SoftwareInventory	string	The implementation-specific label that identifies this software.
SoftwareImages	Bios (Links)	array	The images that are associated with this BIOS.
	Manager (Links)	array	The images that are associated with this manager.
SoftwareInventory	UpdateService	object	An inventory of software.
SourceMetric	MetricDefinition (CalculationParameters)	string	The metric property used as the input into the calculation.
SpareBlock	MemoryMetrics (HealthData > AlarmTrips)	boolean	An indication of whether the spare block capacity crossing alarm trip was detected.
SpareDeviceCount	Memory	integer	Number of unused spare devices available in the memory.
SparePartNumber	Assembly (Assemblies), Power (PowerSupplies), Thermal (Fans)	string	The spare part number of the assembly, fan, or power supply.
SpeedGbps	Storage (StorageControllers)	number	The maximum speed of the storage controller's device interface.
SpeedMHz	Processor (ProcessorMemory)	integer	The operating speed of the memory in MHz.
SpeedMbps	EthernetInterface	integer	The current speed, in Mbps, of this interface.
StartTime	Job	string	The date and time when the job was started or is scheduled to start.
	Task	string	The date and time when the task was started.
State	CertificateService (Actions > GenerateCSR (Action))	string	The state, province, or region of the organization making the request.
	Certificate (Issuer), Certificate (Subject)	string	The state, province, or region of the organization of the entity.
StatelessAddressAutoConfig	EthernetInterface	object	Stateless address autoconfiguration (SLAAC) parameters for this interface.

StaticNameServers	EthernetInterface	array	The statically-defined set of DNS server IPv4 and IPv6 addresses.
Status	<i>various</i> (AccelerationFunction, AccountService ...)	object	The state and health of the Resource and its children.
StatusIndicator	Drive	string (enum)	The state of the status indicator, which communicates status information about this drive.
Step	Processor (ProcessorId)	string	The step value for this processor.
StepOrder	Job	array	The serialized execution order of the job Steps.
Steps	Job	object	The link to a collection of steps for this job.
StopBits	SerialInterface	string (enum)	The period of time before the next start bit is transmitted.
Storage	Chassis (Links), ResourceBlock	array	An array of references to the available storage.
	ComputerSystem	object	The link to the collection of storage devices associated with this system.
StorageControllers	PCIeFunction (Links)	array	An array of links to the storage controllers that the PCIe device produces.
	Storage	array	The set of storage controllers that this Resource represents.
StorageServices	ServiceRoot		The link to a collection of all storage service entities.
	ComputerSystem (HostedServices)		The link to a collection of storage services that this computer system supports.
	Storage (StorageControllers > Links)	array	An array of links to the Storage Services that connect to this controller.
StorageSystems	ServiceRoot		The link to a collection of storage systems.
SubModel	ComputerSystem	string	The sub-model for this system.
SubProcessors	Processor	object	The link to the collection of subprocessors associated with this system, such as cores or threads, that are part of a processor.
Subject	Certificate	object	The subject of the certificate.
SubmitTestEvent (Action)	EventService (Actions)	object	This action generates a test event.
SubmitTestMetricReport (Action)	TelemetryService (Actions)	object	This action generates a metric report.
SubordinateOverrides	PrivilegeRegistry (Mappings)	array	The privilege overrides of the subordinate Resource.
SubordinateResources	EventService (SSEFilterPropertiesSupported)	boolean	An indication of whether the service supports the SubordinateResources

			property in the \$filter query parameter.
	EventDestination	boolean	An indication of whether the subscription is for events in the OriginResources array and its subordinate Resources. If `true` and the OriginResources array is specified, the subscription is for events in the OriginResources array and its subordinate Resources. Note that Resources associated through the Links section are not considered subordinate. If `false` and the OriginResources array is specified, the subscription shall be for events in the OriginResources array only. If the OriginResources array is not present, this property shall have no relevance.
SubordinateResourcesSupported	EventService	boolean	An indication of whether the service supports the SubordinateResource property on both event subscriptions and generated events.
SubscriptionType	EventDestination	string (enum)	The subscription type for events.
Subscriptions	EventService	object	The link to a collection of event destination Resources.
SubsystemDeviceID	Memory	string	Subsystem device ID.
SubsystemId	Endpoint (ConnectedEntities > EntityPcild), Endpoint (Pcild), PCleFunction	string	The Subsystem ID of this PCIe function.
SubsystemVendorID	Memory	string	SubSystem vendor ID.
SubsystemVendorId	Endpoint (ConnectedEntities > EntityPcild), Endpoint (Pcild), PCleFunction	string	The Subsystem Vendor ID of this PCIe function.
SupplyingComputerSystems	ComputerSystem (Links)	array	An array of links to ComputerSystems that contribute, in whole or in part, to the implementation of this ComputerSystem.
SupportedCollectionFunctions	TelemetryService	array	The functions that can be performed over each metric.
SupportedControllerProtocols	Storage (StorageControllers)	array	The supported set of protocols for communicating to this storage controller.
SupportedDeviceProtocols	Storage (StorageControllers)	array	The protocols that the storage controller can use to communicate with attached devices.
SupportedEthernetCapabilities	NetworkPort	array	The set of Ethernet capabilities that this port supports.
SupportedLinkCapabilities	NetworkPort	array	The link capabilities of this port.

SupportedRAIDTypes	Storage (StorageControllers)	array	The set of RAID types supported by the storage controller.
SupportedSystems	AttributeRegistry	array	An array of systems that this Attribute Registry supports.
SuppressRepeatedMetricValue	MetricReportDefinition	boolean	An indication of whether any metrics are suppressed from the generated metric report. If `true`, any metric that equals the same metric in the previously generated metric report is suppressed from the current report. Also, duplicate metrics are suppressed. If `false`, no metrics are suppressed from the current report. The current report may contain no metrics if all metrics equal the values of the same metrics in the previously generated metric report.
Surname	CertificateService (Actions > GenerateCSR (Action))	string	The surname of the user making the request.
SwitchType	Switch	string (enum)	The type of switch.
Switches	Chassis (Links)	array	An array of links to the Switches located in this chassis.
	Fabric	object	The collection of links to the switches that this fabric contains.
SystemId	AttributeRegistry (SupportedSystems)	string	The ID of the systems to which this Attribute Registry applies.
SystemType	ComputerSystem	string (enum)	The type of computer system that this Resource represents.
Systems	ServiceRoot	object	The link to a collection of systems.
TDPWatts	Processor	integer	The nominal Thermal Design Power (TDP) in watts.
TargetInfoViaDHCP	NetworkDeviceFunction (iSCSIBoot)	boolean	An indication of whether the iSCSI boot target name, LUN, IP address, and netmask should be obtained from DHCP.
TargetUri	Job (Payload), Task (Payload)	string	The URI of the target for this job or task.
Targets	UpdateService (Actions > SimpleUpdate (Action))	array	An array of URIs that indicate where to apply the update image.
	PrivilegeRegistry (Mappings > PropertyOverrides), PrivilegeRegistry (Mappings > ResourceURIOverrides), PrivilegeRegistry (Mappings > SubordinateOverrides)	array	The set of URIs, Resource types, or properties.
TaskMonitor	Task	string	The URI of the Task Monitor for this task.
TaskState	Task	string (enum)	The state of the task.

TaskStatus	Task	string (enum)	The completion status of the task.
Tasks	ServiceRoot	object	The link to the Task Service.
	TaskService	object	The links to the Tasks collection.
TelemetryService	ServiceRoot	object	The link to the Telemetry Service.
Telnet	ManagerNetworkProtocol	object	The settings for this manager's Telnet protocol support.
Temperature	MemoryMetrics (HealthData > AlarmTrips)	boolean	An indication of whether a temperature threshold alarm trip was detected.
TemperatureCelsius	ProcessorMetrics	number	The temperature of the processor.
Temperatures	Thermal	array	The set of temperature sensors for this chassis.
Thermal	Chassis	object	The link to the thermal properties, such as fans, cooling, and sensors, for this chassis.
Thresholds	Sensor	object	The set of thresholds defined for this sensor.
ThrottlingCelsius	ProcessorMetrics	number	The CPU margin to throttle (temperature offset in degree Celsius).
TimeoutAction	ComputerSystem (HostWatchdogTimer)	string (enum)	The action to perform when the watchdog timer reaches its timeout value.
Timestamp	MetricReport	string	The date and time when the metric report was generated. The timestamp of the metric report may be relevant when the timestamp of individual metrics are minimally different.
	MetricReport (MetricValues)	string	The date and time when the metric was obtained. A management application can get metrics and sort them by timestamp.
	TelemetryService (Actions > SubmitTestMetricReport (Action) > GeneratedMetricReportValues)	string	The time when the metric value is obtained. A management application may establish a time series of metric data by retrieving the instances of metric value and sorting them according to their Timestamp.
TimestampAccuracy	MetricDefinition	string	The accuracy of the timestamp.
Token	AccountService (ActiveDirectory > Authentication), AccountService (LDAP > Authentication), ExternalAccountProvider (Authentication)	string	The token for this Service. A PATCH or PUT operation writes the token. This property is `null` in responses.
TotalCacheSizeMiB	Storage (StorageControllers > CacheSummary)	integer	The total configured cache memory, measured in MiB.
TotalCores	Processor	integer	The total number of cores that this

			processor contains.
TotalEnabledCores	Processor	integer	The total number of enabled cores that this processor contains.
TotalSwitchWidth	Switch	integer	The total number of lanes, phys, or other physical transport links that this switch contains.
TotalSystemMemoryGiB	ComputerSystem (MemorySummary)	number	The total configured operating system-accessible memory (RAM), measured in GiB.
TotalSystemPersistentMemoryGiB	ComputerSystem (MemorySummary)	number	The total configured, system-accessible persistent memory, measured in GiB.
TotalThreads	Processor	integer	The total number of execution threads that this processor supports.
TransferMethod	VirtualMedia (Actions > InsertMedia (Action)), VirtualMedia	string (enum)	The transfer method to use with the Image.
TransferProtocol	UpdateService (Actions > SimpleUpdate (Action))	string (enum)	The network protocol that the Update Service uses to retrieve the software image file located at the URI provided in ImageURI, if the URI does not contain a scheme.
TransferProtocolType	VirtualMedia (Actions > InsertMedia (Action)), VirtualMedia	string (enum)	The network protocol to use with the image.
TransformationRatePercent	Storage (StorageControllers > ControllerRates)	integer	The percentage of controller Resources used for transforming volumes from one configuration to another.
TransportProtocol	Endpoint (IPTransportDetails)	string (enum)	The protocol used by the connection entity.
TriggerActionEnum	Triggers (TriggerActions)	string (enum)	The actions to perform when a trigger condition is met.
TriggerActions	Triggers	array	The actions that the trigger initiates.
Triggers	MetricReportDefinition (Links)	array	The triggers that cause this metric report definition to generate a new metric report upon a trigger occurrence when the TriggerActions property contains `RedfishMetricReport`.
	TelemetryService	object	The link to the collection of triggers, which apply to metrics.
TrustedModules	ComputerSystem	array	An array of trusted modules in the system.
Type	AttributeRegistry (RegistryEntries > Attributes)	string (enum)	The attribute type.
	AttributeRegistry (RegistryEntries > Dependencies)	string (enum)	The type of the dependency structure.

UUID	AccelerationFunction, Chassis, ComputerSystem, Manager, Processor (FPGA > ReconfigurationSlots), Processor, ServiceRoot	string	The Universal Unique Identifier (UUID) for this device.
UefiDevicePath	AttributeRegistry (RegistryEntries > Attributes), BootOption, EthernetInterface, SimpleStorage	string	The UEFI device path to this interface, attribute, boot option, or storage controller.
UefiDevicePaths	SoftwareInventory	array	The list of UEFI device paths of the components associated with this software inventory item.
UefiKeywordName	AttributeRegistry (RegistryEntries > Attributes)	string	The UEFI keyword string for this attribute.
UefiNamespaceId	AttributeRegistry (RegistryEntries > Attributes)	string	The UEFI namespace ID for the attribute.
UefiTargetBootSourceOverride	ComputerSystem (Boot)	string	The UEFI device path of the device from which to boot when BootSourceOverrideTarget is `UefiTarget`.
UncorrectableECCError	MemoryMetrics (HealthData > AlarmTrips)	boolean	An indication of whether the uncorrectable error threshold alarm trip was detected.
UnhaltedCycles	ProcessorMetrics (CoreMetrics)	number	The unhalted cycles count of this core.
Units	MetricDefinition	string	The units of measure for this metric.
UnlockUnit (Action)	Memory (Actions)	object	This contains the action for unlocking given regions.
UnstructuredName	CertificateService (Actions > GenerateCSR (Action))	string	The unstructured name of the subject.
UpdateService	ServiceRoot	object	The link to the Update Service.
Updateable	SoftwareInventory	boolean	An indication of whether the Update Service can update this software.
UpperBound	AttributeRegistry (RegistryEntries > Attributes)	integer	The upper limit for an integer attribute.
UpperCaution	Sensor (Thresholds)	object	The value at which the reading is above normal range.
UpperCritical	Sensor (Thresholds), Triggers (NumericThresholds)	object	Above normal range but not fatal. Requires attention.
UpperFatal	Sensor (Thresholds)	object	The value at which the reading is above normal range and fatal.
UpperThresholdCritical	Thermal (Fans)	integer	The value at which the reading is above normal range but not yet fatal.
	Power (Voltages), Thermal (Temperatures)	number	The value at which the reading is above normal range but not yet fatal.

UpperThresholdFatal	Thermal (Fans)	integer	The value at which the reading is above normal range and fatal.
	Power (Voltages), Thermal (Temperatures)	number	The value at which the reading is above normal range and fatal.
UpperThresholdNonCritical	Thermal (Fans)	integer	The value at which the reading is above normal range.
	Power (Voltages), Thermal (Temperatures)	number	The value at which the reading is above normal range.
UpperWarning	Triggers (NumericThresholds)	object	The value at which the reading is above normal range.
Uri	JsonSchemaFile (Location)	string	The link to locally available URI for schema.
	MessageRegistryFile (Location)	string	The link to locally available URI for the Message Registry.
UseDNSServers	EthernetInterface (DHCPv4), EthernetInterface (DHCPv6)	boolean	An indication of whether the interface uses the DHCP protocol-supplied DNS servers.
UseDomainName	EthernetInterface (DHCPv4), EthernetInterface (DHCPv6)	boolean	An indication of whether the interface uses the the DHCP protocol-supplied domain name.
UseGateway	EthernetInterface (DHCPv4)	boolean	An indication of whether this interface uses a DHCP v4-supplied gateway.
UseNTPServers	EthernetInterface (DHCPv4), EthernetInterface (DHCPv6)	boolean	An indication of whether the interface uses the DHCP protocol-supplied NTP servers.
UseRapidCommit	EthernetInterface (DHCPv6)	boolean	An indication of whether the interface uses DHCP v6 rapid commit mode for stateful mode address assignments. Do not enable this option in networks where more than one DHCP v6 server is configured to provide address assignments.
UseStaticRoutes	EthernetInterface (DHCPv4)	boolean	An indication of whether the interface uses DHCP v4-supplied static routes.
UserName	VirtualMedia (Actions > InsertMedia (Action))	string	The user name to access the Image parameter-specified URI.
	ManagerAccount, Session, VirtualMedia	string	The user name to access the account or the account for this session, or the Image parameter-specified URI.
UserPercent	ProcessorMetrics	number	The percentage of time spent in user mode.
Username	AccountService (ActiveDirectory > Authentication), AccountService (LDAP > Authentication), ExternalAccountProvider (Authentication)	string	The user name for the Service.
	UpdateService (Actions > SimpleUpdate (Action))	string	The user name to access the URI specified by the ImageURI parameter.

UsernameAttribute	AccountService (ActiveDirectory > LDAPService > SearchSettings), AccountService (LDAP > LDAPService > SearchSettings), ExternalAccountProvider (LDAPService > SearchSettings)	string	The attribute name that contains the LDAP user name entry.
VLAN	EthernetInterface	object	If this network interface supports more than one VLAN, this property is absent. VLAN collections appear in the Link section of this Resource.
	NetworkDeviceFunction (Ethernet)	object	If this network interface supports more than one VLAN, this property is not present. VLANs collections appear in the Link section of this Resource.
VLANEnable	VLANNetworkInterface	boolean	An indication of whether this VLAN is enabled for this interface.
VLANId	VLANNetworkInterface	integer	The ID for this VLAN.
VLANs	EthernetInterface	object	The link to a collection of VLANs, which applies only if the interface supports more than one VLAN. If this property applies, the VLANEnabled and VLANId properties do not apply.
	NetworkDeviceFunction (Ethernet)	object	The link to a collection of VLANs. This property is used only if the interface supports more than one VLAN.
ValidNotAfter	Certificate	string	The date when the certificate is no longer valid.
ValidNotBefore	Certificate	string	The date when the certificate becomes valid.
Value	AttributeRegistry (RegistryEntries > Attributes)	array	An array of the possible values for enumerated attribute values.
	Triggers (DiscreteTriggers)	string	The discrete metric value that constitutes a trigger event.
ValueDisplayName	AttributeRegistry (RegistryEntries > Attributes > Value)	string	A user-readable display string of the value for the attribute in the defined language.
ValueExpression	AttributeRegistry (RegistryEntries > Attributes)	string	A valid regular expression, according to the Perl regular expression dialect, that validates the attribute value. Applies to only string and integer attributes.
ValueName	AttributeRegistry (RegistryEntries > Attributes > Value)	string	The unique value name for the attribute.
Values	MetricDefinition (Wildcards), MetricReportDefinition (Wildcards), Triggers (Wildcards)	array	An array of values to substitute for the wildcard.

Vendor	Assembly (Assemblies), ServiceRoot	string	The vendor or manufacturer of this assembly or that is associated with the Redfish Service.
VendorID	Memory	string	Vendor ID.
VendorId	Endpoint (ConnectedEntities > EntityPcild), Endpoint (Pcild), NetworkPort, PCleFunction, Processor (ProcessorId)	string	The vendor ID of this PCIe function, port, or processor.
Version	AccelerationFunction, Assembly (Assemblies), SoftwareInventory	string	The version of this Resource.
VirtualFunction	NetworkAdapter (Controllers > ControllerCapabilities > VirtualizationOffload)	object	The virtual function of the controller.
VirtualFunctionsEnabled	NetworkDeviceFunction	boolean	An indication of whether single root input/output virtualization (SR-IOV) virtual functions are enabled for this network device function.
VirtualMedia	Manager	object	The link to the Virtual Media services for this particular manager.
	ManagerNetworkProtocol	object	The settings for this manager's virtual media support.
VirtualizationOffload	NetworkAdapter (Controllers > ControllerCapabilities)	object	Virtualization offload for this controller.
VolatileRegionNumberLimit	Memory	integer	Total number of volatile regions this memory can support.
VolatileRegionSizeLimitMiB	Memory	integer	Total size of volatile regions in mebibytes (MiB).
VolatileRegionSizeMaxMiB	Memory	integer	Maximum size of a single volatile region in mebibytes (MiB).
VolatileSizeMiB	Memory	integer	Total size of the volatile portion memory in MiB.
VoltageType	Sensor	string (enum)	The voltage type for this sensor.
Voltages	Power	array	The set of voltage sensors for this chassis.
VolumeType	Volume	string (enum)	The type of this volume.
Volumes	Storage		The set of volumes that the storage controllers produce.
	Drive (Links)	array	An array of links to the volumes that this drive either wholly or only partially contains.
WWNN	NetworkDeviceFunction (FibreChannel)	string	The currently configured World Wide Node Name (WWNN) address of this function.

WWNSource	NetworkDeviceFunction (FibreChannel)	string (enum)	The configuration source of the World Wide Names (WWN) for this World Wide Node Name (WWNN) and World Wide Port Name (WWPN) connection.
WWPN	NetworkDeviceFunction (FibreChannel > BootTargets), NetworkDeviceFunction (FibreChannel)	string	The World Wide Port Name (WWPN) of the network device, or physical, function from which to boot.
WakeOnLANEnabled	NetworkPort	boolean	An indication of whether Wake on LAN (WoL) is enabled for this network port.
WarningAction	ComputerSystem (HostWatchdogTimer)	string (enum)	The action to perform when the watchdog timer is close to reaching its timeout value. This action typically occurs from three to ten seconds before to the timeout value, but the exact timing is dependent on the implementation.
WarningText	AttributeRegistry (RegistryEntries > Attributes)	string	The warning text for the attribute.
WeightKg	Chassis	number	The weight of the chassis.
Width	Port	integer	The number of lanes, phys, or other physical transport links that this port contains.
WidthMm	Chassis	number	The width of the chassis.
Wildcards	MetricReportDefinition	array	The set of wildcards and their substitution values for the entries in the MetricProperties property.
	MetricDefinition, Triggers	array	The wildcards and their substitution values for the entries in the MetricProperties array property.
WriteCacheEnabled	Drive	boolean	An indication of whether the drive write cache is enabled.
WriteOnly	AttributeRegistry (RegistryEntries > Attributes)	boolean	An indication of whether this attribute is write-only. A write-only attribute reverts to its initial value after settings are applied.
WriteProtected	VirtualMedia	boolean	An indication of whether the media is write-protected.
	VirtualMedia (Actions > InsertMedia (Action))	boolean	An indication of whether the remote media is treated as write-protected. The default is `true`.
Zones	ResourceBlock (Links)	array	An array of links to the Zones in which this Resource Block is bound.
	Fabric	object	The collection of links to the zones that this fabric contains.
iSCSIBoot	NetworkDeviceFunction	object	The iSCSI boot capabilities, status, and configuration values for this network device function.

Postscript

Redfish Documentation Generator

The DMTF's [Redfish Documentation Generator](#) automatically generates the bulk of the text from the Redfish Schema files in JSON Schema format and merges that text with supplemental text to build this guide.

The source code for the generator is available for download at the DMTF's GitHub repository at <http://www.github.com/DMTF/Redfish-Tools>.

ANNEX A

Change log

Version	Date	Description
2019.2	2019-09-13	Document built from Redfish Schemas in DSP8010 release 2019.1. Editorial corrections.
2019.1	2019-05-03	Document built from Redfish Schemas in DSP8010 release 2019.1.
2018.3	2019-01-15	Initial release. Document built from Redfish Schemas in DSP8010 release 2018.3.