

Redfish API Specification

Referenced Versions

- DMTF Redfish Scalable Platforms Management API Specification [1.1.0](#)
- DMTF Redfish Schema Version [2016.3](#)
- SINA Swordfish Schema API Specification [1.0.3](#) and [Schema](#)

All other referred versions, such as JSON, ODATA and SSDP, are corresponding to the [normative references](#) of the Redfish Scalable Platforms Management API Specification of the version noted above.

API Mapping (main components)

RECS Box Component	Redfish API Resource	Redfish Schema	Notes
Root	ServiceRoot	ServiceRoot.v1_1_1	
Enclosure	Chassis (ChassisType = Enclosure)	Chassis.v1_4_0	
Baseboard-Blade	Chassis (ChassisType = Blade)	Chassis.v1_4_0	Dual-LP-Baseboards are treated as one Blade
Extension-Blade	Chassis (ChassisType = Expansion)	Chassis.v1_4_0	expands the (COM-Express) Baseboard-Blade
PCIe Card	PCIeDevice	PCIeDevice.v1_0_1	any PCIe Card in an Extension-Blade
Compute Node	ComputerSystem (SystemType = Physical)	ComputerSystem.v1_3_0	COM-Express, Apalis and Jetson Modules
Local Storage	SimpleStorage	SimpleStorage.v1_1_1	e.g. M.2 SATA SSD @ COM Express Node or eMMC @ Apalis-/Jetson Module
Storage Extension	Storage	Storage.v1_1_1	PCIe attached Storage
Ethernet Switch	EthernetSwitch from Intel PSME REST API (Apache 2.0 License)	Intel RSD PSME API or GitHub	currently not in official Redfish API
PCIe Switch	PCISwitch v0.9.0 (work in progress)	Redfish PCIe and FW Update Schemas (ZIP file)	maybe treated transparently not officially released yet (work in progress)
Crosspoint Switch			maybe treated transparently
Composed Node	ComposedNode from Intel PSME REST API (Apache 2.0 License)	Intel RSD PSME API or GitHub	to be checked if it really fits our needs

Endpoint Definition

URI	Resource	Description
/redfish		Provides the protocol version
/redfish/v1	ServiceRoot	Root Redfish service
/redfish/v1/\$metadata		Metadata document, describes the resources available at the root, and references additional metadata documents
/redfish/v1/odata		OData service document, provides a standard format for enumerating the resources exposed by the service
/redfish/v1/AccountService	AccountService	Resource for managing accounts
/redfish/v1/SessionService	SessionService	Resource for managing sessions
/redfish/v1/Managers	ManagerCollection	A Collection of Manager resource instances
/redfish/v1/Chassis	ChassisCollection	A Collection of Chassis resource instances
/redfish/v1/Systems	ComputerSystemCollection	A Collection of ComputerSystem resource instances
/redfish/v1/EthernetSwitches	EthernetSwitchCollection	A Collection of EthernetSwitch resource instances

Schema Definition

- AccountService
 - ActionInfo
 - AttributeRegistry
 - Bios
 - Chassis
 - ChassisCollection
 - ClassOfService
 - ClassOfServiceCollection
 - ComputerSystem
 - ComputerSystemCollection
 - DataProtectionLoSCapabilities
 - DataSecurityLoSCapabilities
 - DataStorageLoSCapabilities
 - Drive
 - DriveCollection
 - Endpoint
 - EndpointCollection
- FileSystem
 - FileSystemCollection
 - HostInterface
 - HostInterfaceCollection
 - HostedStorageServices
 - IOConnectivityLoSCapabilities
 - IOPerformanceLoSCapabilities
 - JsonSchemaFile
 - JsonSchemaFileCollection
 - LogEntry
 - LogEntryCollection
 - LogService
 - LogServiceCollection
 - Manager
 - ManagerAccount
 - ManagerAccountCollection
- MessageRegistryFileCollection
 - NetworkAdapter
 - NetworkAdapterCollection
 - NetworkDeviceFunction
 - NetworkDeviceFunctionCollection
 - NetworkInterface
 - NetworkInterfaceCollection
 - NetworkPort
 - NetworkPortCollection
 - PCIeDevice
 - PCIeFunction
 - Port
 - PortCollection
 - Power
 - PrivilegeRegistry
 - Processor
 - ProcessorCollection
- SoftwareInventory
 - SoftwareInventoryCollection
 - Storage
 - StorageCollection
 - StorageGroup
 - StorageGroupCollection
 - StoragePool
 - StoragePoolCollection
 - StorageService
 - StorageServiceCollection
 - StorageSystemCollection
 - Switch
 - SwitchCollection
 - Task
 - TaskCollection
 - TaskService
 - Thermal
 - UpdateService
 - VlanNetworkInt

- EndpointGroup
- EndpointGroupCollection
- EthernetInterface
- EthernetInterfaceCollection
- Event
- EventDestination
- EventDestinationCollection
- EventService
- Fabric
- FabricCollection
- FileShare
- ManagerCollection
- ManagerNetworkProtocol
- Memory
- MemoryChunks
- MemoryChunksCollection
- MemoryCollection
- MemoryDomain
- MemoryDomainCollection
- MemoryMetrics
- MessageRegistry
- MessageRegistryCollection
- MessageRegistryFile
- Role
- RoleCollection
- SecureBoot
- SerialInterface
- SerialInterfaceCollection
- ServiceRoot
- Session
- SessionCollection
- SessionService
- SimpleStorage
- SimpleStorageCollection
- VlanNetworkInterface
- VlanNetworkInterfaceCollection
- VirtualMedia
- VirtualMediaCollection
- Volume
- VolumeCollection
- Zone
- ZoneCollection

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