

Redfish API Specification

Used Versions

- Redfish Scalable Platforms Management API Specification 1.1.0 (http://redfish.dmtf.org/schemas/DSP0266_1.1.html)
- JSON Schema, Core Definitions and Terminology, Draft 4 (<https://tools.ietf.org/html/draft-zyp-json-schema-04>)
- JSON Schema, Interactive and Non-Interactive Validation (<https://tools.ietf.org/html/draft-fge-json-schema-validation-00>)
- OData Version 4.0. Part 1: Protocol, Plus Errata 03 (<http://docs.oasis-open.org/odata/odata/v4.0/odata-v4.0-part1-protocol.html>)
- OData Version 4.0. Part 2: URL Conventions, Plus Errata 03 (<http://docs.oasis-open.org/odata/odata/v4.0/odata-v4.0-part2-url-conventions.html>)
- OData Version 4.0. Part 3: Common Schema Definition Language (CSDL), Plus Errata 03 (<http://docs.oasis-open.org/odata/odata/v4.0/odata-v4.0-part3-csdl.html>)
- OData Version 4.0: Core Vocabulary, Plus Errata 02 (<http://docs.oasis-open.org/odata/odata/v4.0/errata02/os/complete/vocabularies/Org.OData.Core.V1.xml>)
- OData Version 4.0: Measures Vocabulary, Plus Errata 02 (<http://docs.oasis-open.org/odata/odata/v4.0/errata02/os/complete/vocabularies/Org.OData.Measures.V1.xml>)
- OData JSON Format Version 4.0 Plus Errata 03 (<http://docs.oasis-open.org/odata/odata-json-format/v4.0/odata-json-format-v4.0.html>)
- Simple Service Discovery Protocol/1.0, Draft 3 (<https://tools.ietf.org/html/draft-cai-ssdp-v1-03>)
- Hypertext Transfer Protocol (HTTP/1.1)

API Mapping (main components)

RECS Box Component	Redfish API Resource	Redfish Schema	Notes
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

RECS Box Component	Redfish API Resource	Redfish Schema	Notes
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)	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

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