

June 2024

Issue Highlights

Redfish Release 2024.1 Now Available
 DMTF Releases New MCTP Host Interface Work in Progress and additional Binding Specifications
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Redfish Release 2024.1 Now Available

DMTF's [Redfish](#)® Release 2024.1 is now available for public download. Designed to deliver simple and secure management for hybrid IT and the Software Defined Data Center (SDDC), the latest release of the Redfish standard includes four new schemas, 29 schema updates, and additional developer resources.

Key highlights of the Redfish 2024.1 release are the addition of **ResetMetrics to PortMetrics, NetworkAdapterMetrics, and NetworkDeviceFunctionMetrics** schemas.

These latest enhancements are driven by the growth of Redfish and interoperability feedback received from implementers. Some of the items in the new Redfish 2024.1 update include:

- [Redfish Specification v1.20.1](#) – Errata release.
 - Clarified that privilege enforcement is required when sending events
 - Added "Transiently unavailable resources" clause to describe best practices for showing status of devices in an unavailable state
 - Clarified \$expand query parameter to show HTTP 200 as the proper response code when a resource collection is partially expanded
- [2024.1 Redfish Schema Bundle](#) – This .zip file contains the current versions of all Redfish schemas. The bundle includes 29 schema updates and additional developer resources.
 - Deprecated and replaced *ThroughputReductionSupport* with *TemporaryThroughputReductionSupported* for CXL devices
 - Added part identification (*Manufacturer, Model, SKU, SerialNumber, PartNumber, SparePartNumber, UserLabel*) to **Sensor**
 - Added *ResetMetrics* to **PortMetrics, NetworkAdapterMetrics, and NetworkDeviceFunctionMetrics**
- [Redfish Message Registry Bundle 2024.1](#) – The Message Registry Bundle (DSP8011) contains all released Redfish message registries.
 - Added *NVRAMClearAsserted* and *SecurityBypassAsserted* to Platform v1.1.0
 - Added *PropertyValueModifiedByClient* to ResourceEvent v1.4.0
 - Added *NoTargetsDetermined* to Update v1.1.0
- [Redfish Interoperability Profile Specification v1.8.0](#)
 - Added *ChassisType, DriveProtocol, MemoryType, PortProtocol, and ProcessorType* as additional UseCaseType methods to allow selection of resources based on type information from a parent resource in the tree
- [Redfish Release 2024.1 Overview](#) – This presentation provides detailed descriptions of each revision in Redfish 2024.1.
- [Redfish Resource and Schema Guide](#) – Updated for 2024.1 this human-readable guide to the Redfish Schema is designed to help educate users of Redfish. Application developers and DevOps personnel creating client-side software to communicate with a Redfish service, as well as other consumers of the standard, will benefit from the explanations in this resource.
- [Redfish Publications Repository](#) – [Public GitHub repository](#) contains an official read-only copy of the Redfish schemas and standard message registries
 - Creates public, durable locations for referencing specific schema or registry items in issue reports, forum postings, or other online references
 - Allows developers to automatically synchronize with new Redfish releases using normal GitHub tools and processes
 - Repository will be updated as each Redfish release become public
- [Redfish Data Model Specification](#) – Includes normative statements ("LongDescription") and informative description details from schema in a single document. Intended for both Redfish Service and client-side developers.
- [Redfish Conformance Testing Tools](#) – Open source tools for service developers to validate their conformance with the Redfish protocol, data model, and profiles. Tools include the Redfish Protocol Validator, Redfish Service Validator, Redfish Interop Validator.
- [Redfish Property Guide](#) – Intended primarily for schema authors, this newly revised reference helps with locating existing property definitions within the Redfish schema.
- [Redfish Release History](#) – Updated with each new release, this presentation offers a comprehensive view of each revision to Redfish since 2016.

To learn more about Redfish, click [here](#). The [Redfish Developer Hub](#) is a one-stop, in-depth technical resource and provides all the files, tools, community support, tutorials and other advanced education you may need to help you use Redfish. Technical work on the Redfish standard takes place in DMTF's [Redfish Forum](#). To find out how you can join and contribute to this standard, click [here](#). To submit input via the DMTF Technology Submission and Feedback Portal click [here](#).

DMTF Releases New MCTP Host Interface Work in Progress and additional Binding Specifications

DMTF recently announced the public release of its Management Component Transport Protocol (MCTP) Host Interface Specification version 2.0.0 Work In Progress (WIP) ([DSP0256](#)), Management Component Transport Protocol (MCTP) Platform Communications Channel (PCC) Transport Binding Specification version 1.0.0 Work In Progress (WIP) ([DSP0292](#)) along with the previously released Memory-Mapped BMC Interface (MMBI) Specification version 1.0.0 ([DSP0282](#)), and Management Component Transport Protocol (MCTP) Memory-Mapped BMC Interface (MMBI) Transport Binding Specification ([DSP0284](#)).

These specifications are the latest generation of transport protocols developed by the [Platform Management Communications Infrastructure \(PMCI\) Working Group](#).

This [MCTP Host Interface Specification 2.0 WIP](#) describes how MCTP host interfaces are discovered (interfaces between a management controller and host software). This specification describes the host interface discovery and commands for registering software endpoints such as UEFI or system software. This is a new way of implementing a host interface using MCTP compatible with either PCC or MMBI Transport Bindings.

The [MCTP PCC Transport Binding Specification 1.0 WIP](#) defines a transport binding for facilitating communication between host software and on-chip embedded management controllers (i.e. Satellite Management Controller) via a PCC shared-memory interface.

The [MCTP Base Specification](#) describes the protocol and commands used for communication within and initialization of an MCTP network. The MCTP over PCC transport binding definition in this specification includes a packet format, physical address format, message routing, and discovery mechanisms for MCTP over PCC communications.

Designed to be referenced by other standards organizations and developers, DMTF invites public comment on both WIPs before finalization. Feedback may be submitted on our website at <https://www.dmtf.org/standards/feedback/>.

The [MMBI Specification version 1.0](#) was released in August of 2023 and defines the mechanisms facilitating communication between platform management components, typically host software and a BMC (baseboard management controller). Using the shared memory concept, this specification defines a protocol that allows packet exchanges between host software and BMC. The described memory mapping makes it possible for both boot code (such as UEFI firmware), as well as OS-level software (such as OS kernel or drivers) to establish efficient communication with BMC at bandwidth and latency limited by the underlying memory mapping mechanisms.

The [MCTP over MMBI Transport Binding](#), released in August of 2023, defines how MCTP packets are delivered over a MMBI, which the new Host Interface specification can now leverage.

For more information about the PMCI Working Group and the platform management standards it defines, please visit <https://www.dmtf.org/standards/pmci>.

In Case You Missed It

Did you know DMTF has a webpage highlighting adopters of our standards?

DMTF specifications can be found in millions of products, but most people have no idea which products support DMTF standards.

DMTF has a [webpage](#) where companies can showcase which standards they have adopted or implemented.

This list continually grows as more companies choose to be included. Has your company adopted or implemented one of our standards? If so, would your company like to be listed as an adopter on our website? [Contact us](#) for more information on how to be added to the list.

Have you visited the Education section of the website lately?

Did you know DMTF's [Education](#) area offers visitors direct navigation and access to new materials? Did you know it also highlights the [latest educational information and featured resources](#) and provides visitors with a broad collection of information and most recent materials? If not, be sure to check it out!

The [Education](#) landing page showcases key resources, which change on a regular basis, and visitors will also find pages for [Presentations](#), [White Papers](#) and [Webinars](#) – all of which update automatically when DMTF shares new content. In addition, there are pages for [Open Source](#) information and [Newsletter](#) sign-up.

Be sure to add these pages to your bookmarks and check back often!

DMTF on YouTube

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Information about DMTF's leadership, technologies, and how to participate can be found at www.dmtf.org. Contact us online or reach us at <http://www.dmtf.org/contact>.

Newsletter Feedback

We welcome your input on what you'd like to see included here – just [Contact Us](#) online and share your suggestions!

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Need a DMTF Logo for your Marketing Materials?

We've got you covered! Email press@dmtf.org for the DMTF and/or Redfish logo files as well as the most current Logo Usage Guidelines and Graphic Standards. We've recently updated the usage guidelines to include the use of the Redfish logo on a dark background.

Personalize your DMTF Meeting Schedule

Log into the members portal [here](#). You can see your specific work group meetings and create a personalized calendar.

Please note you will need to be logged in to the member portal in order to access this feature.

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Recent DMTF Specifications

- [DSP0134_3.7.1 \(SMBIOS Specification\)](#)
- [DSP0245_1.4.0 \(PLDM IDs and Codes\)](#)
- [DSP0239_1.11.0 \(MCTP IDs and Codes\)](#)
- [DSP0283_1.0.1 \(MCTP USB Transport Binding Specification\)](#)
- [DSP0236_1.3.3 \(MCTP Base Specification\)](#)
- [DSP0233_1.0.1 \(MCTP I3C Transport Binding Specification\)](#)
- [DSP0266_1.20.1 \(Redfish Specification\)](#)
- [DSP0268_2024.1 \(Redfish Data Model Specification\)](#)
- [DSP0272_1.8.0 \(Redfish Interoperability Profiles Specification\)](#)
- [DSP0288_1.2.0 \(CXL to Redfish Mapping Specification\)](#)
- [DSP2043_2024.1 \(Redfish Mockups Bundle\)](#)
- [DSP0246_2024.1 \(Redfish Resource and Schema Guide\)](#)
- [DSP2053_2024.1 \(Redfish Property Guide\)](#)
- [DSP2062_1.0.2 \(Redfish Firmware Update White Paper\)](#)
- [DSP2065_2024.1 \(Redfish Message Registry Guide\)](#)
- [DSP8011_2024.1 \(Redfish Standard Registry Bundle\)](#)
- [DSP8013_2024.1 \(Redfish Interoperability Profiles Bundle\)](#)
- [DSP8010_2024.1 \(Redfish Schema Bundle\)](#)

About DMTF

DMTF creates open manageability standards spanning diverse emerging and traditional IT infrastructures including cloud, virtualization, network, servers and storage. Member companies and alliance partners worldwide collaborate on standards to improve the interoperable management of information technologies. The organization is led by a diverse board of directors from Broadcom Inc., Cisco; Dell Technologies; Hewlett Packard Enterprise; Intel Corporation; Lenovo; Positivo Tecnologia S.A.; and Verizon.

