News from DMTF

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Issue Highlights

Celebrating 10 Years of Redfish – *A Decade of Defining Manageability for AI and IT*

DMTF proudly celebrates the 10th anniversary of Redfish®, the industry-leading standard delivering simple and secure management for hybrid IT and the Software Defined Data Center (SDDC). First introduced in 2015, Redfish has revolutionized data center management with its RESTful interface, JSON payloads, and broad industry adoption. Over the past decade, Redfish has become the trusted foundation for managing everything from single servers to large-scale cloud infrastructures to AI data centers.

"Redfish has fundamentally changed the way the industry approaches manageability. The evolution and expansion of the Redfish standard is due to collaboration with several of our DMTF alliance partners; they helped ensure that modern infrastructure requirements were included such as GPUs and DPUs to power, cooling, storage and so much more," said Mike Raineri, co-chair of the Redfish Forum and DMTF board chair. "We're proud of how the standard continues to evolve to meet the growing needs of modern IT environments."

Redfish was designed from the beginning to align with modern development practices—leveraging REST and JSON to deliver a secure and scalable management interface. Over the past decade, it has become the de facto standard for platform management, enabling interoperability across multi-vendor environments and supporting a broadening range of use cases including composability, telemetry, and datacenter automation," said Jeff Hilland, president of DMTF. "We're proud of Redfish's evolution and increasing relevance as infrastructure becomes innately software-defined."

Today, Redfish continues to expand support for composability, storage, power, fabric management, DCIM, telemetry, virtualization, workloads and more, with strong collaboration across leading technology companies and open-source communities.

Here's to 10 years of innovation — and the next 10 of redefining manageability!

Redfish Release 2025.2

Redfish® Release 2025.2 is available for public download. The latest release of the Redfish standard includes eight new schemas, 36 schema updates, and a new message registry to support Industrial IoT equipment.

This release is the result of collaboration with several alliance partners, including PCI Industrial Computer Manufacturers Group (PICMG), Open Compute Project (OCP), and the CXL Consortium, who provided invaluable subject matter expertise to further extend the Redfish data model.

Key highlights of the Redfish 2025.2 release are the additions of:

- **NEW** support for Industrial IoT factory automation and job scheduling. Working in collaboration with PICMG, this release includes several new schemas and other significant extensions to the Redfish data model.
  - **New AutomationNode** and **AutomationInstrumentation** - Schemas that model Industrial IoT equipment to support monitoring and control of automated factory processes. Includes support for PID-based control loops and single or multi-axis motion controllers. Defines several Actions to control the operating state of each node.
  - **NEW JobDocument** - Schema defines reusable processes and execution steps for an automated factory, and describes the required or optional parameters for creating specific instances of those jobs
  - **NEW JobExecutor** - Describes a resource, typically a factory production line, capable of running jobs of a specific type
  - **UPDATED JobService** and **Job** – New extensions to instantiate and manage the flow of jobs produced from a reuseable job document
- **NEW VirtualCXLSwitch**, and **VirtualPCIePCIeBridge** schemas, developed in conjunction with the CXL Consortium, add support for Virtual CXL Switch and Virtual PCI-to-PCI Bridge devices
- **NEW UpdateServiceCapabilities** schema and enhancements to UpdateService to support staging of mass firmware updates. Building on feedback from Open Compute Project (OCP) members, these enhancements allow for "staging" firmware updates, which allows synchronized activation of new images for fleet-level updates
- **NEW TelemetryData –** Provides a mechanism to retrieve device-specific telemetry data in bulk from a device without requiring the manager (BMC) to decode or unpack data intended for consumption by a specific client application

These latest enhancements are driven by the growth of Redfish and interoperability feedback received from implementers. Some of the items in the Redfish 2025.2 update include:

- Redfish Specification v1.22.1
  - ETag guidance to avoid unnecessarily frequent updates
  - Corrected ST header for SSDP to align with UPnP
  - Message guidance for *@Message.ExtendedInfo* in response to PUT or PATCH operations
- 2025.2 Redfish Schema Bundle – This .zip file contains the current versions of all Redfish schemas. In addition to the eight new schemas, this release bundle includes 36 schema updates, along with developer resources.
  - Extended **UpdateService** and **SoftwareInventory** to support staging and bulk activation of firmware images
  - Extended Job to support job creation from reusable job documents
  - Added Modbus support to **AggregationSource**, **ConnectionMethod**, **ManagerNetworkProtocol**, and **SerialInterface** supporting aggregation of data from Modbus Serial or Modbus TCP devices
  - Addition of *ConditionType* to the common *Status* object providing means to trace the source of individual Condition or Health values to the affected subsystem or resources instance
- Redfish Message Registry Bundle 2025.2 – The Message Registry Bundle (DSP8011) contains all released Redfish message registries.
  - **NEW AutomationNodeEvent** message registry supports Industrial IoT automation node equipment
  - **Environmental** v1.2.0 adds thermal subsystem messages for liquid cooling equipment
  - **JobEvent** v1.1.0 adds messages related to job validation outcomes
  - **Platform** v1.3.0 adds messages for PCIe, memory, power, and device fault conditions
  - **StorageDevice** v1.5.0 adds messages for volume re-building or re-configuring
  - **Telemetry** v1.1.0 adds TelemetryDataCreated message
  - **Update** v1.2.0 adds messages for updates skipped or not applicable
- Redfish Release 2025.2 Overview – This presentation provides detailed descriptions of each revision in Redfish 2025.2.
- Redfish Resource and Schema Guide – Updated for 2025.2 this human-readable guide to the Redfish Schema is designed to help educate users of Redfish Applications developers and DevOps personnel creating client-side software to communicate with a Redfish service, as well as other consumers of the standard, with detailed and clear explanations in this resource.
- 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 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 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.

SPDM to Storage Binding Specification

DMTF's SPDM Working Group recently released the Security Protocol and Data Model (SPDM) to Storage Binding Specification 1.0 (DSP0286), which defines the format of SPDM messages over storage protocols. This specification binds SPDM messages (DSP0274) and SPDM Secured Messages (DSP0277) to storage protocols. This binding specification enables the extension of the capabilities defined in the Security Protocol and Data Model (SPDM) Specification to storage devices. Further, this binding specification enables the use of intermediate devices, such as a host bus adapter, between the Requester and the storage device.

Key highlights from the Specification include:

- Supports all released versions of SPDM (DSP0274) and SPDM Secured Messages (DSP0277)
- Define a binding for SPDM messages over SAS (SCSI), SATA (ATA), and NVMe (PCIe and Fabrics)
  - The binding applies directly to SPDM and does not include MCTP
- Both SPDM messages and SPDM Secured Messages are supported
  - This specification serves the roles of both DSP0275 and DSP0276

This specification continues to incorporate the input of the organization's Alliance Partners.

DMTF at Fall Events

Fall events are right around the corner! DMTF will be attending the 2025 Open Compute Project (OCP) Global Summit October 13-16 in San Jose, CA and SC25 November 16-21 in St. Louis, MO as exhibitors. DMTF is also hosting a *Manageability Workshop* on Monday, October 13th at OCP. Keep an eye on your inbox for details.

Come visit with executives and representatives of DMTF and the Redfish Forum at one, or both, of these exciting events! Click below for more information.

OCP Global Summit 2025

SC25

In Case You Missed It

Did You Miss the Redfish 2025.2 Webinar? Watch it Now!

The Redfish Forum recently held a live webinar where the chairs of the Redfish Forum covered the contents of the 2025.2 release. The presentation, which was on Zoom was followed by a Q&A session. Be sure to head over to our YouTube channel to view the webinar now.

DMTF and Ultra Ethernet Consortium Establish Work Register

As part of DMTF's Alliance Partner program, DMTF and the Ultra Ethernet Consortium (UEC) have agreed to a new work register, which outlines areas of technical collaboration between the two organizations.

UEC – Ultra Ethernet Consortium - is an industry consortium delivering a complete architecture that optimizes Ethernet for high performance AI and HPC networking, exceeding the performance of today's specialized technologies. UEC specifically focuses on functionality, performance, TCO, and developer and end-user friendliness, while minimizing changes to only those required and maintaining Ethernet interoperability.

The goals of the alliance are to enable a holistic management experience, promote UEC and DMTF standards to member companies, foster UEC participation in DMTF's Alliance Partner program and in various working groups.

The work register detailing this Alliance Partner relationship is available here.

DMTF on YouTube

Check out our latest videos and be sure to subscribe to the DMTF YouTube Channel to stay up-to-date with our current and upcoming webinars.

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 where you can see your specific work group meetings.

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

New Members

DMTF Leadership
NVENT

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Recent DMTF Specifications

DSP2015 2.3.0 — PMCI Architecture White Paper

DSP0238 1.3.1 — MCTP PCIeVI VDM Transport Binding Specification

DSP0266 1.22.1 — Redfish Specification

DSP0268 2025.2 — Redfish Data Model Specification

DSP0272 1.8.1 — Redfish Interoperability Profiles Specification

DSP8010 2025.2 — Redfish Schema Bundle

DSP8011 2025.2 — Redfish Standard Registries Bundle

DSP8013 2025.2 — Redfish Interoperability Profiles Bundle

DSP2046 2025.2 — Redfish Resource and Schema Guide

DSP2053 2025.2 — Redfish Property Guide

DSP2043 2025.2 — Redfish Mockups Bundle

DSP2065 2025.2 — Redfish Message Registry Guide

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

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.

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