

News from DMTF

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October 2024

Issue Highlights

DMTF at the 2024 OCP Global Summit – New Manageability Workshop

Redfish Releases 2024.3

Congratulations to the 2024 Star Award Recipients!

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DMTF at the 2024 OCP Global Summit – NEW Manageability Workshop

The [Open Compute Project \(OCP\) Global Summit](#) is right around the corner, October 15-17, 2024, at the San Jose Convention Center! DMTF standards will be highlighted and represented in [multiple sessions](#) throughout the conference (LINK TO NEWS FLASH WHEN AVAILABLE) and be sure to visit us at **booth C62!**

For the first time, DMTF is hosting a [Manageability Workshop](#) on Tuesday, October 15 from 1:00p.m. – 5:00 p.m. on the lower level of the Convention Center in room LL20D. The workshop will feature the latest updates on infrastructure management and security from DMTF member companies, many of which are also active in OCP projects around hardware management, security, and open-source development.

Attendees will learn about the latest information as well as unpublished developments that affect the OCP manageability and security community from industry experts at DMTF and the industry. There will be updates on Redfish Telemetry and Tools, OpenBMC, GPU management, SPDm, as well as the latest information on MCTP, PLDM and FRU enhancements. Many of these updates will affect the control plane as well as the data plane in products in the industry.

For more information and to view the agenda for the Manageability Workshop [click here](#).

[Click here](#) to register for OCP 2024.

Redfish Releases 2024.3

DMTF's [Redfish®](#) Release 2024.3 is now available for public download. The latest release of the Redfish standard includes the addition of Time-based One-Time Password secret key handling and 18 schema updates.

Key highlights of the Redfish 2024.3 release are the additions of *Username* and *UserAuthenticationSource* to **Event**, **LogEntry**, **Message**, and **Resource** for event auditing and generalized Time-based One-Time Password properties and actions to **AccountService** and **ManagerAccount**. In addition, *LocalAccountTypes* and *LocalOEMAccountTypes* were added to *RemoteRoleMapping* in **AccountService** and **ExternalAccountProvider**.

These latest enhancements are driven by the growth of Redfish and interoperability feedback received from implementers. Some of the items in the new Redfish 2024.3 update include:

- [Redfish Specification v1.21.0](#)
 - **NEW** – Time-based One-Time Password secret key handling
- [Redfish Specification v1.20.2 \(errata release\)](#)
 - Added */redfish/v1/Registries* URI
 - Minor clarifications to naming rules
 - Clarified responses for "Password change required" conditions to show an error payload
- [2024.3 Redfish Schema Bundle](#) – This .zip file contains the current versions of all Redfish schemas. The bundle includes 18 schema updates and developer resources.
 - **NEW** – *Username* and *UserAuthenticationSource* to **Event**, **LogEntry**, **Message**, and **Resource** for event auditing
 - **NEW** – *GenerateSecretKey*, *ClearSecretKey*, and *VerifyTimeBasedOneTimePassword* actions were added to **ManagerAccount**
 - Allows a user to generate a random secret key to produce RFC6238-defined tokens
 - The secret key is retained by the service for future token verification
 - **NEW** – *TimeBasedOneTimePassword* property was added to *MultiFactorAuth* in **AccountService**
 - Used to configure generic RFC6238-defined TOTP settings
 - **NEW** – *LocalAccountTypes* and *LocalOEMAccountTypes* added to *RemoteRoleMapping* in **AccountService** and **ExternalAccountProvider**
- [Redfish Message Registry Bundle 2024.3](#) – The Message Registry Bundle (DSP8011) contains all released Redfish message registries.
 - Added *PropertyModified* message to Base 1.19.0
 - Added *GeneratedSecretKeyRequired* message to Base 1.19.0
 - Message returned if a user tries to authenticate, but the user does not have a secret key for producing a TOTP
 - The user is allowed to invoke the *GenerateSecretKey* action, but cannot perform other operations
- [Redfish Release 2024.3 Overview](#) – This presentation provides detailed descriptions of each revision in Redfish 2024.3.
- [Redfish Resource and Schema Guide](#) – Updated for 2024.3 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 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.

DMTF's [Redfish Forum](#) held a live [webinar](#) on Thursday, October 3rd. Presented by the chairs of the Redfish Forum and hosted on Zoom, this webinar covered the contents of the 2024.3 release. The presentation was followed by a Q&A session. Head on over to our YouTube channel to view the [webinar](#) now.

Congratulations to our 2024 Star Awards Recipients!

Each year, our [Star Awards program](#) recognizes members who have demonstrated great value to the organization through the dedication of their time and efforts to advance DMTF standards and initiatives.

To see the full list of recipients click [here](#).

We are proud to acknowledge these members for going above and beyond and contributing to the success of the organization. Our thanks and congratulations to all!

In Case You Missed It

SPDM Binding over TCP Specification Now Available

The [Security Protocols and Data Models Working Group](#) released the Security Protocol and Data Model (SPDM) Binding over Transmission Control Protocol (TCP) 1.0.0 ([DSP0287](#)), which specifies binding SPDM messages to TCP. The scope of this specification binds Out-of-Session SPDM messages and In-Session SPDM messages to TCP and further defines the transport specific details.

[Click here](#) to read the news flash.

Now Available – SPDM to Storage Binding Specification WIP

The [Security Protocols and Data Models Working Group](#) recently released the Security Protocol and Data Model (SPDM) to Storage Binding Specification Work-in-Progress ([DSP0286 1.0.0WIP90](#)), which defines the format of SPDM messages over storage protocols. This specification will bind SPDM messages (DSP0274) and SPDM Secured Messages (DSP0277) to storage protocols. Key highlights from the WIP include:

- Enable a binding for SPDM messages over SAS (SCSI), SATA (ATA), and NVMe
 - The new standard will be DSP0286
- The binding is for SPDM, not for generic MCTP
 - The Security Protocol ID that is assigned for SPDM is 0xE8
- Both SPDM messages and SPDM Secured Messages are supported
 - This specification serves the roles of both DSP0275 and DSP0276
 - A primary goal is to support new SPDM revisions without major changes to the binding specification
- Expected release Q4 2024
 - Work in progress version is available now (https://www.dmtf.org/sites/default/files/standards/documents/DSP0286_1.0.0WIP90.pdf)

To read the full news flash [click here](#).

DMTF Announces Adoption of NC-SI by ISO and IEC

DMTF's Network Controller Sideband Interface (NC-SI) standard has been adopted and published by the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) as [ISO/IEC 24079:2024](#).

NC-SI is a common interoperable sideband interface and protocol used to transfer management traffic between a management controller and a network controller (NC). It defines the functionality and behavior of the Sideband Interface responsible for connecting the NC (including Ethernet, Fibre Channel, and InfiniBand controllers) to the management controller and can be transported via MCTP or RMIIL based Transport. The NC-SI enables a shared NIC model, which eliminates the need for separate management of network traffic as well as the need for additional switches, cables, or RAC infrastructure.

In addition to NC-SI, DMTF has a wide breadth of standards that have achieved important international accreditation status. To view the full list, please visit the [DMTF ANSI and ISO Adoptions and Alliance Activities](#) page.

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!

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>.

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DMTF releases PLDM File Transfer Specification 1.0 and updates to other PLDM Specifications

The Platform Level Data Model (PLDM) for File Transfer Specification 1.0.0 ([DSP0242](#)) is available for [download here](#). This specification enhances the existing PLDM suite of specifications by providing an ability to discover and transfer files within a PLDM Subsystem. The specification defines messages and data structures to enable this new capability using well known PLDM semantics.

PLDM is a set of complementary specifications where each one can be used independently or together to provide a more robust systems management capability. These specifications actively help solve end-user concerns in a common, standardized way.

[Click here](#) to read the full news flash.

DMTF Releases SMBIOS 3.8

DMTF has released [Version 3.8](#) of the SMBIOS Reference Specification, the premier standard for delivering management information via system firmware. Since 1995, SMBIOS implementations have simplified the management of more than two billion client and server systems. [Version 3.8](#) of SMBIOS adds support or updates for current technologies.

To download Version 3.8, please visit <http://www.dmtf.org/standards/smbios>.

Need a DMTF Logo for your Marketing Materials?

We've got you covered! Email press@dmf.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.

Upcoming Events

OCP 24
October 15-17, 2024
San Jose, California

SO24
November 17-22, 2024
Atlanta, Georgia

Recent DMTF Specifications

- [DSP0266 1.20.2 - Redfish Specification](#)
- [DSP0239 1.11.1 - MCTP IDs and Codes](#)
- [DSP0261 1.3.1 - NC-SI over MCTP Binding Specification](#)
- [DSP0287 1.0.0 - SPDM over TCP Binding Specification](#)
- [DSP0276 1.2.0 - Secured Messages using SPDM over MCTP Binding Specification](#)
- [DSP0266 1.21.0 - Redfish Specification](#)
- [DSP0268 2024.3 - Redfish Data Model Specification](#)
- [DSP8010 2024.3 - Redfish Schema Bundle](#)
- [DSP8011 2024.3 - Redfish Standard Registries Bundle](#)
- [DSP2043 2024.3 - Redfish Mockups Bundle](#)
- [DSP2053 2024.3 - Redfish Property Guide](#)
- [DSP2046 2024.3 - Redfish Resource and Schema Guide](#)
- [DSP2060 1.1.0 - Redfish User Guide](#)
- [DSP2065 2024.3 - Redfish Message Registry Guide](#)
- [DSP0274 1.1.4 - SPDM Specification](#)
- [DSP0274 1.2.3 - SPDM Specification](#)
- [DSP0274 1.3.2 - SPDM Specification](#)
- [DSP2061 1.0.1 - PLDM Accelerator Modeling White Paper](#)
- [DSP0249 1.3.0 - PLDM State Set Specification](#)
- [DSP0238 1.3.0 - MCTP PCIe VDM Transport Binding Specification](#)

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.

