

News from the DMTF

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February 2020

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What's Ahead for 2020

From the desk of Jon Hass, Board Chair

2019 brought a host of technical milestones, new and strengthened alliances, and achievements in both educational and international outreach to DMTF. [The list is long](#), and we are proud of our accomplishments, and grateful for the collective efforts of our members who continue to drive our mission forward. With a new decade and year ahead of us, 2020 is looking to be another robust year of goals set and achieved by our dedicated members and partners.

Here's an idea of where we're going and how your company can get involved.

The [Redfish](#) standard, designed to deliver simple and secure management for converged, hybrid IT and the Software Defined Data Center, will continue to evolve, under the guidance of the [Redfish Forum](#). Work will include proposals for an Aggregation service along with the

necessary extensions to support it, the addition of Uninterruptable Power Supply (UPS) equipment, and the creation of additional Message Registries to further document and standardize event and error messages.

As we work to broaden the scope of Redfish, as dictated by market needs, we will continue to strengthen our collaboration with our alliance partners; and will explore the possibility of new support in the fabric space as well.

The [PMCI working group](#) anticipates adding to the suite of specifications they develop, including the completion of [SPDM 1.1](#) supporting key exchange as well as the addition of new binding specifications for Gen-Z and I3C interconnects through our alliance partnerships. New features are planned to be added to existing specifications such as NC-SI, and we expect new work may fold into the working group as the need for interoperable standards in this area continues to see steady growth.

Our decades-long commitment to [CIM](#) and [SMBIOS](#) continues and 2020 will bring new versions of these standards, which remain hallmarks of DMTF's 28 years of dedication to the industry.

Educational outreach continues to be a top priority for the organization. We plan on creating additional educational materials for our website, the Redfish Developer Hub, and YouTube channel. Attendance at events and industry meetings provides face-to-face opportunities, and this year you can find DMTF at events that will enable us to promote and share our important work. In March, we will head to the [OCP Global Summit](#) in San Jose, hosted by the Open Compute Project, a DMTF alliance partner. With a theme of "Open for ALL," we will have the opportunity to share with attendees the fruits of our partnership, both through technical presentations and a booth in the exhibit hall.

Our [Alliance Partner Technical Symposium](#) is always a productive event filled with technical sessions and collaborative working group meetings. This annual event, co-sponsored with the [Storage Networking Industry Association](#), will again take place in July in Portland. Click [here](#) for details.

In November, you'll find us at [SC20](#) in Atlanta, then we'll travel to Boston in December for [LISA](#), the 34th Annual Large Installation System Administration Conference. [Keep up to date on DMTF events](#) and educational outreach opportunities if you'd like to participate or lend your support.

With a presence in 21 countries, DMTF members abroad in both the Japan Regional Task Force and the China Chapter continue their work on document and specification translations and attending regional events. New tutorials will be added to both DMTF's [YouTube](#) and [Youku](#) channels as the organization remains committed to the global standardization effort.

Thank you for your ongoing commitment to the work of the organization. Membership renewals are coming soon, and we hope to continue our collaboration on this valuable work with you by our side. If your company is not yet a member and you want to [learn more](#), we invite you to consider how the mission of the DMTF, and our unique standards work, could benefit both your company and the industry at large.

New Redfish Release 2019.4 Adds Support for Gen-Z Fabrics and Power Distribution Equipment

DMTF's [Redfish®](#), Release 2019.4, 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 15 new schemas, 23 schema updates, and additional developer resources. The new release features support for management of port-based Gen-Z fabrics (Initiators/Targets) and fabric-attached resources, and extends *Endpoint*, *Fabric*, and *Port*. In addition, users now have the ability to monitor and control Power Distribution Units (PDUs) and Transfer Switches via Redfish.



Some of the items in the new Redfish 2019.4 update include:

- [2019.4 Redfish Schema Bundle](#) – This .zip file contains the current versions of all Redfish schema. Among the changes, the addition of support for configuring and managing Gen-Z fabrics as well as additional support for Power Distribution equipment (PDU's and Transfer switches). New schemas include *AddressPool*, *FabricAdapter*, *MediaController*, *PortMetrics*, *RouteEntry*, *RouteSetEntry*, and *VCATEntry*. In addition, the bundle now includes schemas in RDE Dictionary format.
- [Redfish Release 2019.4 Overview](#) – This presentation provides detailed descriptions of each revision in Redfish 2019.4.
- [Redfish Resource and Schema Guide](#) – Updated for 2019.4, 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 Release History](#) – Updated with each new release, this presentation offers a comprehensive view of each revision to Redfish since 2016.
- [Redfish Property Guide](#) – Intended primarily for schema authors, this newly revised reference helps with locating existing property definitions within the Redfish schema.

Developers are encouraged to review these WIP schemas and provide comment before they are finalized. Please submit input via the DMTF Technology Submission and Feedback Portal [here](#).

To learn more about Redfish, click [here](#) or - for developers - visit the [Redfish Developer Hub](#) today. A one-stop, in-depth technical resource – by developers, for developers – the Redfish Developer Hub 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](#).

DMTF to Exhibit at OCP 2020

Continuing its commitment to industry outreach and education, DMTF will participate in the [Open Compute Project \(OCP\) Global Summit](#), March 4-5, as an exhibitor along with presentations representing the [Platform Management Components Intercommunication \(PMCI\)](#) Working Group and [Redfish®](#) standard.

DMTF standards will be represented in the following sessions on Thursday, March 5:

- 11:30 a.m. – 11:45 a.m. – [OpenBMC and Redfish](#)
- 11:45 a.m. – Noon – [Managing Componentized Servers using Redfish](#)
- 1:45 p.m. – 2:00 p.m. – [OCP NIC 3.0 Manageability Features Overview](#)
- 2:00 p.m. – 2:15 p.m. – [PLDM Modeling of OCP 3.0 NIC](#)
- 2:15 p.m. – 2:25 p.m. – [OCP 3.0 NIC Monitoring and Management in OpenBMC](#)
- 3:30 p.m. – 3:45 p.m. – [Managing a Socket Direct OCP NIC 3.0](#)
- 3:45 p.m. – 3:59 p.m. – [Standalone Rack Level Liquid Cooling Solution](#)

In addition, executives and representatives will be available in exhibit #C51 at the San Jose Convention Center to speak with attendees and answer questions about DMTF standards.

Come see us at the OCP Summit in exhibit #C51, and for updates follow us on Twitter throughout the event [@DMTF](#).

In Case You Missed It

DMTF Releases Two Security Standards

DMTF recently announced the public release of its [Security Protocol and Data Model \(SPDM\) Specification 1.0](#), as well as the [SPDM over MCTP Binding Specification 1.0](#), as DMTF standards. These specifications – developed by DMTF’s [Platform Management Components Intercommunication \(PMCI\) Security Task Force](#) – incorporate the input of the organization’s [Alliance Partners](#) to help align component authentication and integrity objects across the industry.

The [SPDM Specification 1.0](#) provides message exchange, sequence diagrams, message formats, and other relevant semantics for authentication, firmware measurement, and certificate retrieval. Other specifications define the mapping of these messages to different transports and physical media. SPDM enables efficient access to low-level security capabilities and operations.

The [SPDM over MCTP Binding Specification 1.0](#) contains the mapping of SPDM to MCTP message type 5, for usage within a platform management subsystem that uses DMTF’s

Upcoming Events

[OCP Global Summit 2020](#)

March 4-5

San Jose, CA

[APTS](#)

July 20-24

Portland, OR

Click [here](#) for the latest information on DMTF Events.

2020 APTS – Save the Date!

Mark your calendars for this year’s [Alliance Partner Technical Symposium \(APTS\)](#) July 20-24 in Portland, Oregon. Hosted in partnership with longstanding alliance partner, [Storage Networking Industry Association \(SNIA\)](#), the symposium includes face-to-face meetings focused on technical topics and addresses the technical works of interest to DMTF’s alliance partners. For event information or to register today click [here](#).

Need a DMTF Logo for your Marketing

Management Component Transport Protocol (MCTP) for communication between individual components.

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

2020 Membership Reminder

As the DMTF's new fiscal year approaches, our membership renewal period is underway - please take steps today to ensure your organization is prepared to renew! Your company's billing contact should have already received the invoice for the upcoming membership year, which runs April 1 to March 31.

DMTF membership offers front-line access to DMTF standards along with the opportunity to participate in the process of defining standards and programs. This important work is funded through membership dues that are among the most cost-effective in the industry. DMTF remains the ideal forum for industry-leading companies to come together in a neutral, non-competitive environment to collaborate on interoperable management standards.

To learn more about the [benefits of membership](#), or to join or renew, please visit the DMTF website at www.dmtf.org/join. Have questions? Get answers from the DMTF membership team at admin@dmtof.org.

Materials?

We've got you covered!

Email press@dmtof.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.

Recent DMTF Specifications

- [DSP0267_1.1.0 \(PLDM For Firmware Update Specification\)](#)
 - [DSP2054_1.0.0 \(PLDM NIC Modeling\)](#)
 - [DSP0274_1.0.0 \(SPDM Specification\)](#)
 - [DSP0275_1.0.0 \(SPDM over MCTP Binding Specification\)](#)
 - [DSP0266_1.9.0 \(Redfish Specification\)](#)
 - [DSP8010_2019.4 \(Redfish Schema Bundle\)](#)
 - [DSP8011_2019.4 \(Redfish Standard Registries\)](#)
 - [DSP8013_2019.3 \(Redfish Interoperability Profiles Bundle\)](#)
 - [DSP0272_1.3.0 \(Redfish Interoperability Profiles Specification\)](#)
 - [DSP2043_2019.1 \(Redfish Mockup Bundle\)](#)
 - [DSP0268_2019.4 \(Redfish Schema Supplement\)](#)
 - [DSP2046_2019.4 \(Redfish Resource and Schema Guide\)](#)
 - [DSP2053_2019.4 \(Redfish Property Guide\)](#)
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Upcoming DMTF

DMTF on YouTube

Check our latest videos and be sure to subscribe to the [DMTF YouTube Channel](#) to stay up-to-date with our current and upcoming webinars.

Information about the 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>.

Click Here to Get All the Latest News Delivered to Your Inbox!

Meetings



3/6 Board Face to Face Meeting
4/9 Board Meeting
5/14 Board Meeting

Newsletter Feedback

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

About DMTF

The 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 Inc.; Hewlett Packard Enterprise; Hitachi, Ltd.; HP Inc.; Intel Corporation; Lenovo; NetApp; Software AG; Vertiv; and VMware, Inc.



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