



**February 2021**

**Issue Highlights**  
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**What's Ahead for 2021**

From the desk of Jon Hass, Board Chair

Even with the challenges wrought by 2020, we continued forward creating meaningful standards that address industry needs and solve challenges for the end user. In spite of some hurdles, last year brought a host of technical milestones, new and strengthened alliances, and achievements that the organization is very proud of. The [list](#) of accomplishments is long, and we are grateful for the efforts of our members who continue to drive our mission forward. 2021 is looking to be another banner year of initiatives and goals set by our dedicated members and partners.

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

The [Redfish](#) standard will continue to evolve under the guidance of the [Redfish Forum](#). Work will focus on extending the Redfish data model to include "SmartNIC" devices; support for management of UPS and other backup power systems; and investigating the addition of OAuth 2.0 support for token-based user authentication. We are also planning for the publication of additional educational materials, including a white paper on Firmware Update via Redfish as well as numerous Redfish School videos.

As dictated by market needs, we will continue to strengthen our collaboration with our alliance partners to broaden the scope of Redfish in the areas of NVMe-over-Fabric, OS software and workloads, and datacenter infrastructure equipment.

Over the next year, the [PMCI working group](#) anticipates adding to the suite of specifications they develop, including the completion of SPDM 1.2; NC-SI 1.2; PMCI Test Tools Interface and Design Specification; Accelerator PLDM Modeling; and additional bindings for MCTP in collaboration with our alliance partners.

Our decades-long commitment to [CIM](#) and [SMBIOS](#) continues and 2021 will bring new versions of these standards, which remain hallmarks of DMTF's 29 years of dedication to the industry. For all of DMTF's announcements visit our [news](#) page.

Educational outreach continues to be a top priority for the organization. We plan on creating additional materials for our website, the Redfish Developer Hub, and YouTube channel. Attendance at events and industry meetings provides valuable face-to-face opportunities, and we hope to be able to attend events and meetings in person but as we all know that is yet to be determined.

Our [Alliance Partner Technical Symposium](#) is always a productive event filled with technical sessions and collaborative working group meetings. This annual event is tentatively scheduled to take place in July in Portland, Oregon. Stay tuned for details and whether or not it will be held in person or virtually.

In November, we hope to be a part of the [2021 OCP Global Summit](#) in San Jose, hosted by the Open Compute Project, as well as [SC21](#) in St. Louis. However, this is all still TBD given the ongoing pandemic. With the ever changing landscape and uncertainty of events, the best place to stay up-to-date on this information and educational outreach opportunities is [here](#).

With a presence in several countries across the globe, DMTF members abroad continue their work on document and specification translations, and newly translated tutorials will be added to DMTF's [YouTube](#) channel as the organization remains committed to its global standardization effort.

Thank you for your ongoing commitment to the work of the organization. Membership renewals are due 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 DMTF, and our unique standards work, could benefit both your company and the industry at large.

**Redfish Release 2020.4 Now Available**

*Includes Migration to New Resource Definitions in Power and Thermal*

DMTF's [Redfish®](#), Release 2020.4, 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 7 new schemas, 29 schema updates, and additional developer resources. The new release incorporates the migration to new resource definitions and features the addition of *PowerSubsystem*, *ThermalSubsystem*, *Fan*, *PowerSupply*, *PowerSupplyMetrics* as well as the addition of *EnvironmentMetrics* for device-level reporting of environmental data. Additional *AccountTypes* have been included thus expanding functionality of *AccountTypes* in *ManagerAccount* to allow management of accounts for non-Redfish services or other functions.

As the Redfish Forum continues to execute our mission of creating simple and secure management, the continued valuable feedback we receive results in increased functionality and interoperability in the areas most valued by our adopters and implementers. Some of the items in the new Redfish 2020.4 update include:

- [Redfish Specification v1.12.0](#) - Adds "restricted role" and "restricted privilege" concepts for user accounts.
- [2020.4 Redfish Schema Bundle](#) – This .zip file contains the current versions of all Redfish schema. The bundle includes 7 new schemas, 29 schema updates. New materials include the addition of *PowerSubsystem*, *ThermalSubsystem*, *Fan*, *PowerSupply*, *PowerSupplyMetrics* as well as the addition of *EnvironmentMetrics* for device-level reporting of environmental data (for example, power and temperature). Three schemas have been replaced by new definitions, with the existing schemas deprecated in this release. New implementations should use the new schemas.
  - **Power** – replaced by *PowerSubsystem*, *PowerSupply*, *PowerSupplyMetrics*, and *EnvironmentMetrics*
  - **Thermal** – replaced by *ThermalSubsystem*, *Fan*, and *EnvironmentMetrics*
  - **NetworkPort** – replaced by *Port* (existing, last revised in 2020.3)

*Conditions* array in common Status definition has been added as this describes active conditions that need attention or user awareness.

- [Redfish Message Registry Bundle 2020.4](#) – The Message Registry Bundle (DSP8011) contains all released Redfish message registries. The 2020.4 release adds support for new *Fabric* and *EthernetFabric* message registries and added messages to *Base* message registry to support the *Conditions* array.
- [Redfish Release 2020.4 Overview](#) – This presentation provides detailed descriptions of each revision in Redfish 2020.4.
- [Redfish Resource and Schema Guide](#) – Updated for 2020.4, 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 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.

**In Case You Missed It**

**2021 Membership Reminder - Invoices Due by April 1, 2021**

As 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 an invoice for the upcoming membership year, which runs April 1 to March 31.

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](#).

**DMTF Appoints New Board Vice-Chair**

The Board of Directors has appointed [Bill Kawakami](#) of [Cisco](#) to serve as its Vice-Chair, a position that ensures the continuity of the organization should there be a temporary absence or disability of the Chair. Bill assumes the Vice-Chair role immediately.

Please join us in welcoming Bill as our new Board Vice-Chair!

We would also like to thank Kimon Berlin of Hewlett Packard (outgoing Vice-Chair) for his dedication and efforts in advancing DMTF's standards and initiatives.

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

**DMTF on YouTube**

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

**Need a DMTF Logo for your Marketing 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.

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](#).

**Newsletter Feedback**

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

**Mark Your Calendar for DMTF's Annual Members Meeting**

DMTF's 2021 Annual Meeting of Members will be held on March 18, 2021 from 7:00 to 8:00 a.m. PT. Please see your email for dial-in instructions and additional details. DMTF officers will present an overview of the operational and financial status of the organization and will be available for questions. Please mark your calendars and plan to join us!

**DMTF Releases Secured Messaging Utilizing SPDM Specifications**

DMTF recently announced the public release of its [Secured Messages using SPDM Specification \(DSP0277\)](#) as well as the [Secured Messages using SPDM over MCTP Binding Specification \(DSP0276\)](#) as DMTF standards. These specifications – developed by DMTF's [Platform Management Communications Infrastructure \(PMCI\)](#) Security Task Force – enable the same data encryption mechanism whether it is for data in flight or management of traffic, and incorporates crucial input from the organization's [Alliance Partners](#) thus benefiting the industry at large.

The [Secured Messages using SPDM Specification](#) defines the methodology that various transports can use to communicate data securely by utilizing SPDM. Specifically, this specification defines a generic record format used for encryption and message authentication of application data within SPDM's secure session.

The [Secured Messages using SPDM over MCTP Binding Specification](#) binds Secured Messages using SPDM to Management Component Transport Protocol (MCTP) transport and further defines the transport specific details as outlined in Secured Messages using SPDM.

For more information about the PMCI Working Group and the platform management standards it defines, please visit [https://www.dmtf.org/standards/pmci](#).

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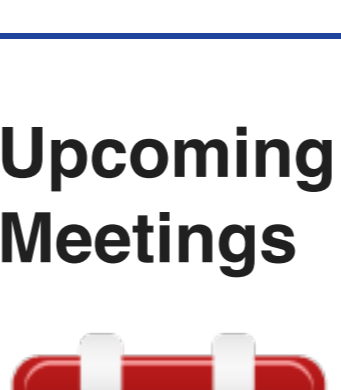
**New Members**

**Participation Level**  
[Grog](#)

**Recent DMTF Specifications**

- [DSP0277\\_1.0.0 – Secured Messages using SPDM Specification](#)
- [DSP0292\\_1.3.0 – DASH Implementation Requirements](#)
- [DSP0266\\_1.11.2 – Redfish Specification](#)
- [DSP0266\\_1.12.0 – Redfish Specification](#)
- [DSP0268\\_2020.4 – Redfish Schema Supplement](#)
- [DSP8010\\_2020.4 – Redfish Schema Bundle](#)
- [DSP8011\\_2020.4 – Redfish Standard Registries Bundle](#)
- [DSP2046\\_2020.4 – Redfish Resource and Schema Guide](#)
- [DSP2053\\_2020.4 – Redfish Property Guide](#)
- [DSP2043\\_2020.4 – Redfish Mockups Bundle](#)

**Upcoming DMTF Meetings**



2/18 Board Meeting  
 3/18 Board Meeting  
 4/22 Board Meeting

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**About DMTF**

The DMTF creates open manageability standards spanning diverse environments 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; Hitachi, Ltd.; Intel Corporation; Lenovo; and NetApp.

