

February 2022

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What’s Ahead for 2022

From the desk of Jon Hass, Board Chair

Your DMTF continues to create meaningful standards that address industry needs and solve challenges for customers and end users. Last year brought numerous technical milestones, new and strengthened alliances, and achievements that the organization is very proud of. The [list](#) of accomplishments continues to impress, and we are grateful for the efforts of our members who are consistently striving to move DMTF’s mission forward. 2022 is looking to be another busy 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 advance under the guidance of the [Redfish Forum](#). Work will focus on extending the Redfish data model to include virtual machine, OS, and application status reporting; support for management of cooling devices, such as rack CDUs; and support for additional power distribution equipment, including backup power systems and UPS devices. For example, the Redfish CXL Fabric Work In Progress has been released and we expect it to become final next year. We are also planning for the publication of additional educational materials, including a white paper on the fabrics model in Redfish as well as numerous Redfish School videos. 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 to expand 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 NC-SI 1.2, enhancements to SPDm and PLDM for Firmware Update; and the initial release of new specifications such as PMCI Test Tools Interface and Design, Accelerator PLDM Modeling; and new MCTP bindings. In addition, PMCI will be focused on continuing their effort with the MCTP 2.0 specification, which will include new features and functions.

Our decades-long commitment to [CIM](#) and [SMBIOS](#) continues and 2022 will bring new versions of these standards, which remain hallmarks of DMTF’s 30 years of dedication to the industry. DMTF announcements can be found on our [news](#) page.

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 valuable face-to-face opportunities, and we hope to be able to attend events and meetings in person in 2022, but as we all know, that continues to be TBD at this point. 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](#).

Our [Alliance Partner](#) program continues to benefit the industry overall. We look forward to expanding our current work registers as well as look to create new alliances with other industry partners. DMTF’s 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. Stay tuned for details!

With a presence in several countries across the globe, DMTF members abroad continue their work on document and specification translations as the organization remains committed to its global standardization effort.

Membership renewals are right around the corner, and we hope to continue our collaboration with you on this valuable work. 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. As always, thank you for your ongoing commitment to the work of the organization.

Redfish Release 2021.4 Now Available

DMTF’s [Redfish](#)®, Release 2021.4 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 four new schemas, 29 schema updates, and additional developer resources.

Key highlights of the Redfish 2021.4 release are the addition of **ComponentIntegrity**, **RegisteredClient**, and **ServiceConditions** schemas. The new **Component Integrity Model** allows resources to represent security related information between two entities (typically a BMC and end device); the **RegisteredClient** resource collection enables clients to be aware of other clients to avoid configuration conflicts when desired; and the **ServiceConditions** resource provides a roll up of all active, non-normal status conditions that require attention.

These latest enhancements are driven by the growth of Redfish and interoperability feedback received from implementers. Some of the items in the new Redfish 2021.4 update include:

- [Redfish Specification v1.15.0](#) – Updated Operation apply time and Multiport HTTP operations to expand usage of *OperationApplyTimeSupport*
- [2021.4 Redfish Schema Bundle](#) – This zip file contains the current versions of all Redfish schemas. The bundle includes four new schemas, 29 schema updates and additional developer resources.
 - Addition of ComponentIntegrity, ManagerDiagnosticData, RegisteredClient and ServiceCondition schemas
- [Redfish Message Registry Bundle 2021.4](#) – The Message Registry Bundle (DSP8011) contains all released Redfish message registries.
 - StorageDevice v1.1.0 adds new messages for controller and battery-related conditions
 - ResourceEvent v1.2 adds *AggregationSourceDiscovered*
- [Redfish Release 2021.4 Overview](#) – This presentation provides detailed descriptions of each revision in Redfish 2021.4.
- [Redfish Resource and Schema Guide](#) – Updated for 2021.4 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.

DMTF’s Redfish Forum would like to invite anyone interested in learning about the **Redfish 2021.3** and **2021.4** releases to join a **live webinar**, hosted via Zoom, on **Friday, February 11, 2022, at 9:00 a.m. PT**. The Forum chairs will present the contents of the two releases followed by a round table discussion. For questions regarding the webinar, email: webinars@dmf.org. Don’t delay, be sure to [register today!](#)

DMTF Shares Industry Support for Its Platform Security Standards

DMTF recently announced that its Security Protocol and Data Model (SPDM) specifications have garnered industry support and are actively helping to solve customer and end user concerns with a standardized platform security protocol. Developed by the Security Task Force within the [Platform Management Communications Infrastructure Working Group](#), DMTF has created the platform security protocol and when implemented properly, SPDM helps ensure a complete chain of trust for the platform.

“Platform security is becoming increasingly important and as platform firmware components have become a new area for attacks, DMTF has developed SPDM to address these challenges,” said Jeff Hilland, president of DMTF.

Several key industry leaders and alliance partners are solving customer and end user concerns in a common way by utilizing DMTF standards. [Click here](#) to read the entire press release and supporting quotes.

In Case You Missed It

2022 Membership Reminder

Payments Due by April 1, 2022

As DMTF’s new fiscal year approaches, our membership renewal period is right around the corner - please take steps today to ensure your organization is prepared to renew! The upcoming membership year runs April 1 to March 31.

Your company’s billing contact should have received the invoice in January. If your company hasn’t received an invoice, please contact DMTF Administration at admin@dmf.org.

DMTF membership offers front-line access to our 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.dmf.org/join. Have questions? Get answers from the DMTF membership team at admin@dmf.org

DMTF Releases SPDm 1.2 Specifications

DMTF announces the public release of its [Security Protocol and Data Model \(SPDM\) Specification 1.2.0](#) is now available for [download](#). This specification – developed by DMTF’s [Platform Management Communications Infrastructure \(PMCI\) Security Task Force](#) – continues to incorporate the input of the organization’s [Alliance Partners](#) to help align component authentication, confidentiality, and integrity objects across the industry.

The SPDm Specification ([DSP0274](#)) provides message exchange, sequence diagrams, message formats, and other relevant semantics for authentication, firmware measurement, certificate retrieval, and session key exchange protocols to enable confidentiality and integrity protected data communication thus enabling encrypted and authenticated communication of data in flight.

[SPDM 1.2](#) includes new features such as Certificate Provisioning (allowing installation of device certificates, including during manufacturing), Alias Certificates (allowing for alias leaf certificates derived from device certificates) and Message Fragmentation (ability to send large SPDm messages in chunks). In addition, SM2, SM3, SM4 algorithms are now included, and new Object Identifiers (OIDs) were added.

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.

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

Information about the DMTF’s leadership, technologies, and how to participate can be found at www.dmf.org. Contact us online or reach us at <http://www.dmf.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!

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.

[Click Here to Get All the Latest News Delivered to Your Inbox!](#)

Mark Your Calendar for DMTF’s Annual Members Meeting

DMTF’s 2022 Annual Meeting of Members will be held on March 17, 2022, at 7:00 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!

PMCI Educational Material Now Available

Over the last several years platforms have become increasingly complex. Standardized communication between devices and management elements is critical to obtain platform adoption across multiple implementations while reducing common complaints from system integrators. Are you looking to learn more about DMTF’s [Platform Management Communications Infrastructure \(PMCI\) Working Group](#) and the specifications that it creates? This Technical Note will help answer your questions with an overview of the PMCI architecture and the benefits of each standard!

The following standards from PMCI are highlighted in the Technical Note -- Management Component Transport Protocol (MCTP), Network Controller Sideband Interface (NC-SI), Platform Level Data Model (PLDM), and Security Protocol and Data Model (SPDM). Each standard will be explained at a high level while highlighting the benefits of each one.

You can download the technical note [here](#). Developers, implementors and end users are encouraged to visit the PMCI’s Working Group Page - <https://www.dmf.org/standards/pmci> - for more in-depth information.

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.

Upcoming DMTF Meetings

- 2/17 Board Meeting
- 3/17 Board Meeting
- 4/21 Board Meeting

Recent DMTF Specifications

- [DSP0274 1.2.0 \(Security Protocol and Data Model \(SPDM\) Specification\)](#)
- [DSP2059 1.1.0 \(Redfish Certificate Management White Paper\)](#)
- [DSP2063 1.0.0 \(Redfish SmartNIC White Paper\)](#)
- [DSP0286 1.1.0.0 \(CXL™ Type 3 Device Component Command Interface over MCTP Binding Specification\)](#)
- [DSP0257 1.0.1 \(Platform Level Data Model \(PLDM\) for FRU Data Specification\)](#)
- [DSP1108 1.0.3 \(Physical Computer System View Profile\)](#)
- [DSP0286 1.15.0 \(Redfish Specification\)](#)
- [DSP0288 2021.4 \(Redfish Schema Supplement\)](#)
- [DSP0272 1.5.0 \(Redfish Interoperability Profiles Specification\)](#)
- [DSP8010 2021.4 \(Redfish Schema Bundle\)](#)
- [DSP8011 2021.4 \(Redfish Standard Registries\)](#)
- [DSP8013 2021.4 \(Redfish Interoperability Profiles Specification\)](#)
- [DSP2043 2021.4 \(Redfish Mockups Bundle\)](#)
- [DSP0246 2021.4 \(Redfish Resource and Schema Guide\)](#)
- [DSP2053 2021.4 \(Redfish Property Guide\)](#)
- [DSP2058 1.1.0 \(Security Protocol and Data Model \(SPDM\) Architecture White Paper\)](#)

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 Technologies, Hewlett Packard Enterprise, Intel Corporation, Lenovo, NetApp, Positivo Tecnologia S.A.; and Verizon.

