

News from the DMTF

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December 2022

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Year in Review

From the Desk of DMTF President Jeff Hilland

Each December, we take the opportunity to pause and reflect on the last twelve months. 2022 has been a busy year for our volunteers and the organization. Together, we have accomplished several milestones and have much to be proud of. I'm pleased to highlight the significant accomplishments the organization has achieved.

Technical Milestones

Redfish

Technical work on the [Redfish®](#) standard takes place in the [Redfish Forum](#). The Forum has made significant progress this year, including:

- We kicked off 2022 with the [Redfish Release 2021.4](#) in January. This release of the Redfish standard included four new schemas, 29 schema updates and additional developer resources. Key highlights of the Redfish 2021.4 release are the addition of **Component Integrity**, **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 and our work with Alliance Partners.
- [Redfish version 2022.1](#) was released in June. The new release added of **SSH key related properties**, addition of properties in **Chassis to represent containment of power and thermal** relationships, and a **method to register an existing system as a resource block** in support of system composability. It also included 34 schema updates and a new developer resource, the Redfish Message Registry Guide. Want to learn more? Check out the 2022.1 webinar [here!](#)
- Continuing its aggressive development of the standard, [Redfish version 2022.2](#) was released in September. The release included 27 schema updates and a new **Sensor message registry** that defines general events from the Sensor model. Key highlights of the release were the addition of **ResetToDefaults** action to various resources, support for clients to create **EthernetInterface** resources to represent VPNs, added manager network port information, added a new **SecurityPolicy** resource, and added a new **TrustedComponent** resource.
- Redfish 2022.3 will be released next year. Stay tuned for release details and accompanying webinars!

PMCI Efforts

The [Platform Management Communications Infrastructure \(PMCI\) Working Group](#) defines standards to address "inside the box" communication interfaces between the components of the platform management subsystem. Among the notable technical milestones in 2022:

- In August, an updated WIP was released for [MCTP 2.0](#) highlighting reliable and non-reliable transport modes, support of a vastly larger number of devices, support for more outstanding messages, larger packets and built in secure messages.
- Also in August, the Working Group published an overview presentation, which shared its goals and approach to a common and extensible format for the [Field Replaceable Unit \(FRU\) Data Model Schema](#). This Work in Progress (WIP) presentation lists the set of planned features while describing the benefits this new data model will provide.
- NC-SI released its latest WIP on [DSP0222](#) in September. NC-SI 1.2 is slated to be released in 2023.
- PLDM for [Firmware Update 1.2](#) was also released in September. This minor release added support for Opaque data and security features.
- PMCI Tools Task Force released their work this year including an update to the [PMCI Architecture White Paper](#) (DSP2015) in April and then the [Test Tool Interface and Design specification](#) (DSP0280) in October.

- As the work of PMCI continues to grow, the need for education material has also increased. In January, DMTF published a [PMCI Tech Note](#) designed to answer questions with an overview of the PMCI architecture and the benefits of each standard. The following standards are highlighted in the Tech 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 is explained at a high level while providing the benefits of each one.

- The Working Group is also submitting several PMCI standards to the [International Organization for Standardization \(ISO\)](#) for certification. Click [here](#) for DMTF submissions, status, and ANSI/ISO identifier.

SPDM

DMTF's [SPDM Working Group](#) is responsible for the SPDM standard. This standard enables authentication, attestation and key exchange to assist in providing infrastructure security enablement.

- Kicking off the new year, DMTF announced the release of its [Security Protocol and Data Model \(SPDM\) Specification 1.2.0](#).
- Also in January, the organization announced that the SPDM specifications have garnered [industry-wide support](#) and are actively helping to solve customer and end user concerns with a standardized platform security protocol. By using SPDM, management traffic inside the box over MCTP can be encrypted. This allows management data inside the platform to be encrypted, like TLS/HTTPS encrypts your traffic over the Internet. Click [here](#) to read the press release and industry support.
- In August, DMTF [announced](#) that the [SPDM](#) Working Group now reports directly to the Technical Committee. Formerly a task force under the PMCI Working Group, the group's work has increased in scope, industry support and interest. This change will help with industry alignment and allow the working group to work more closely with other DMTF groups and Alliance Partners.
- In October, the SPDM Code Task Force released its latest open source release of libspdm version 2.2.0, which is conformant with DSP0274 1.0.1, 1.1.2 and 1.2.1, and is now available for [download](#).
- Did you know that the SPDM working group now has its own web page where you can find information regarding upcoming deliverables, Work in Progress, status of specifications, and more? [Click here](#) to learn about the SPDM Working Group and the standards it defines.

The Security Response Task Force (SRTF)

- In June, DMTF launched a [Security Response Task Force \(SRTF\)](#) within the organization's Technical Committee (TC). The Task Force, under the direction of the TC, will be responsible for the coordination and management of reported security issues or vulnerabilities related to DMTF standards or DMTF open-source sample implementations.

SMBIOS

[System Management BIOS \(SMBIOS\)](#) is one of the most widely used IT standards in the world, simplifying the management of more than two billion client and server systems since its release in 1995.

- In August, the SMBIOS Working Group released [Version 3.6 of the SMBIOS Reference Specification](#). Version 3.6 of SMBIOS adds support or updates for current technologies, including: LoongArch and ARMv9 processors, HBM3 memory, and enhanced multi-threading reporting.

CIM

- In March [CIM 2.54.1](#) was released. This update includes several enhancements and additions throughout the Schema such as ongoing improvements to support products, alliance partners, and DMTF Profiles and Management Initiatives.
- The CIM Forum anticipates the release of CIM 2.55 in the first quarter of 2023.

DASH

- In May, continuing its ongoing dedication to management interoperability DMTF released a [new versions of the Conformance Test Suite \(CTS\)](#) for its [Desktop and mobile Architecture for System Hardware \(DASH\) standard](#). DASH CTS 2022.1 (Java versions 8 and 9) is available, and the [DMTF Certification Registry](#) is accepting submissions.
- DMTF released updated versions of its [Desktop and mobile Architecture for System Hardware \(DASH\) standard](#) in October. DASH CTS 2022.2 (Java versions 8 and 9) is available, and the [DMTF Certification Registry](#) is accepting submissions.

Alliances

Our [Alliance Partner](#) program continues to benefit the industry overall.

- In July, DMTF held its annual summer event, the [2022 Alliance Partner Technical Symposium \(APTS\)](#). Co-hosted with our alliance partner, Storage Networking Industry Association (SNIA), the fifteenth annual APTS was held on Monday, July 25 through Friday, July 29, 2022. It was a hybrid event, with the option to attend in person in Portland, Oregon or to attend virtually. Led by DMTF's VP of Alliances John Leung, the event featured collaborative working group meetings -- focused on technical topics of interest to DMTF's Alliance Partners as well as symposium keynote addresses from the [CXL Consortium](#), [PCI-SIG](#), and [SNIA](#).
- Also in July, DMTF and the Trusted Computing Group (TCG) strengthened its [Work Register](#) to include a new level of cooperation between the two standards bodies. This alliance centered particularly around SPDM will also include Redfish support for TCG standards. This updated Work Register now allows for cooperation prior to the release of specifications, ensuring better synergy between the organizations.
- In October, DMTF and the [Open Infrastructure Foundation](#) (OpenInfra Foundation) agreed to a new work register, outlining areas of technical collaboration between the two organizations. As part of its agreement with DMTF, some of OpenInfra Foundation's projects, including OpenStack, Airship and StarlingX, use Redfish either directly or via Ironic and Sushy. The goals of the alliance are to develop Profile files for applicable OpenInfra Foundation projects to prescribe their manageability support requirements.

Education and Events

DMTF continued its dedication to industry outreach and education with updated educational materials, YouTube videos, and attendance at several industry events.

- In January, DMTF President Jeff Hilland presented an [overview](#) of the organization while highlighting the benefits of being a member on DMTF's YouTube channel. Click [here](#) to view the presentation.
- The organization's ["Redfish School" YouTube series](#) continues to be popular with viewers. In March, we published a new tutorial video focused on [SmartNICs with Redfish](#). In September, SPDM released tutorials on SPDM [1.0](#), [1.1](#) and [1.2](#) Specifications. Stay tuned for more videos in 2023!
- Have you attended a Redfish release webinar? Ongoing support to implementors of the Redfish standard, the Redfish Forum webinar series is timed with each release of the standard. Attendees are invited to join a live webinar, hosted via Zoom, where the Forum chairs present the contents of the latest release followed by a Q&A session. Each webinar is then added to our [YouTube channel](#) for those that can't attend or would like to revisit the information.
- DMTF specifications can be found in millions of products, but most people have no idea which products support our standards. DMTF has created a [webpage](#) where companies can showcase which standards they have adopted or implemented.
- DMTF executives, technology representatives and standards were highlighted in several events:
 - [SNIA Security Summit](#)
 - [OpenInfra Summit](#)
 - [OCP Tech Talks](#)
 - [SDC](#)
 - [MIPI DevCon](#)
 - [OCP Global Summit](#)
 - [SC22](#)
- Did you know DMTF's [Education](#) area offers visitors direct navigation and access to new materials? It highlights the [latest educational information and featured resources](#) and provides visitors with a broad collection of information and most recent materials. The [landing](#) page showcases key resources, which change on a regular basis, and visitors will also find pages for [Presentations](#), [White Papers](#) and [Webinars](#) -- all of which update automatically when DMTF shares new content. In addition, there are pages for [Open Source](#) information and [Newsletter](#) sign-up.

Final Thoughts

Together we continued to focus on the work of creating meaningful standards that address industry needs and solve challenges for the end user. We are proud of our valued volunteers and hope each of them takes a moment to reflect on what we've accomplished - without their hard work, none of it would be possible. We would be remiss if we didn't recognize our alliance partners as well. Our close collaboration with SNIA, OFA, OCP, TCG, CXL Consortium and others allows us to create standards within the platform (PMCI, SMBIOS, SPDM) as well as communication between the platform and management clients (Redfish, CIM). We value all our industry and organizational relationships.

Looking ahead to 2023, we want to thank our member companies, volunteers, as well as our alliance and industry partners for their ongoing commitment to the organization. As always, thank you for the continued hard work and dedication.

Congratulations to our 2022 Star Award 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.

The 2022 Star Awards recipients include **Jeff Autor** (Hewlett Packard Enterprise), **Patrick Boyd** (Dell Technologies), **Derek Chan** (Google LLC), **Brett Henning** (Broadcom Inc.), **Yval Itkin** (NVidia Corporation), **Dustin King** (IBM), **John Mayfield** (Hewlett Packard Enterprise), **Scott Phuong** (Cisco Systems, Inc.), **Pat Schoeller** (Intel Corporation), **Bob Stevens**, **Ed Tanous** (Google LLC), **Xiaoyu Ruan** (Intel Corporation), and **Jiwen Yao** (Intel Corporation).

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!

Start Planning Now for Membership Renewal

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! Your company's billing contact will receive the invoice in early January so be sure to give them the heads up! The upcoming membership year runs April 1 to March 31.

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.dmtf.org/join](#). Have questions? Get answers from the DMTF membership team at [admin@dmtof.org](#).

In Case You Missed It

DMTF Attends Fall Events

DMTF participated in two events over the past few months -- Open Compute Project (OCP) Global Summit and SC22.

DMTF attended the [OCP Global Summit](#) October 18-20, 2022, at the San Jose Convention Center as an exhibitor. Executives and representatives of the organization and the Redfish Forum were on hand to answer questions from attendees. In addition, DMTF standards were highlighted and represented in several sessions. Click [here](#) to view all presentations.

Continuing its commitment to industry outreach and education, DMTF's Redfish Forum participated in [SC22](#), November 14-17, 2022, at the Kay Bailey Hutchison Convention Center in Dallas, Texas. SC22 is an international conference for high performance computing, networking, storage, and analysis. The Redfish Forum was part of the Open Standards Pavilion with the Storage Networking Industry Association (SNIA), Ethernet Alliance, Open Compute Project (OCP), OpenFabrics Alliance (OFA), PCI-SIG, and UClie Consortium for the first time this year.

Representatives of the Redfish Forum spoke with attendees about the standard and how Redfish delivers simple and secure management for converged, hybrid IT and the Software Defined Data Center (SDCC). In addition, the Forum showed sample implementations of the Redfish management protocol, as well as interoperability among multiple device and system vendors.

SPDM Code Task Force Announces Release

The SPDM Code Task Force recently announced its latest open source release of libspdm, version 2.2.0, which is conformant with DSP0274 1.0.1, 1.1.2 and 1.2.1 is available for [download](#). It also contains support for DSP0277, 276, and 275. You can find all of this in the group's readme [here](#). In addition, details such as the SPDM supported commands, cryptographic algorithm support, design, threat model, and users guide can also be found in the library in the [repository](#).

In addition to the core library, libspdm enables [spdm-emu](#), which contains a full SPDM Requester and Responder; [spdm-dump](#), which can parse SPDM messages; and the [SPDM Responder Validator](#), which is still under development but can be used to test an SPDM Responder implementation for its conformance to the SPDM specification.

For more information about libspdm, please visit [https://github.com/DMTF/libspdm](#).

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Need a DMTF Logo for 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.

Upcoming DMTF Meetings

12/15 Board Meeting
 1/19 Board Meeting
 2/16 Board Meeting

New Members

Leadership Level
[Axialord Corporation](#)

Recent DMTF Specifications

[DSP0280 1.0.0 - PMCI Test Tools Interface and Design Specification](#)
[DSP0285 1.0.0 - RedPath Specification](#)

[DSP0248 1.2.2 - PLDM for Platform Monitoring and Control Specification](#)
[DSP0218 1.1.2 - PLDM for Redfish Device Enablement](#)

[DSP5001 2.0.1 - DASH Conformance Program 2.0 Policies and Procedures](#)
[DSP2058 1.2.0 - SPDM Architecture White Paper](#)

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.

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](#).

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

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 Technologia S.A.; and Verizon.



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