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DMTF ⟩ Newsletter

February 2019

Issue Highlights

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What's Ahead for 2019
From the desk of Jon Hass, Board Chair

After wrapping up another action-packed year (check out DMTF's long list of accomplishments from 2018 in our December issue!), DMTF is looking forward to the New Year with another full calendar of significant achievements in the works. In this, our first newsletter of 2019, we'd like to share the highlights of just a few of the advancements on the way.

DMTF's Redfish® API will continue to expand to address customer use cases and technology for a holistic data center management experience. In 2019, the organization's Redfish Forum will keep to its schedule of releasing new schemas every few months, further solidifying Redfish's role at the center of a broad ecosystem of industry collaboration. The group will also publish an update to its Data Center Infrastructure Management (DCIM) model in the first half of this year, as well as a new Gen-Z fabric management mockup. In addition, DMTF's popular Redfish Resource and Schema Guide – which presents Redfish schema content in a single, simplified and condensed document – will continue to be updated with each new release moving forward.

This year, we can also look forward to a steady stream of new Redfish mockups and other advanced education that can be found on the Redfish Developer Hub, a one-stop, in-depth technical resource that provides developers with Redfish API files, the full Schema Index, tools, support, and more. In addition, be sure to subscribe to DMTF's YouTube channel, as we have

numerous new additions to the "Redfish School" series of brief technical video presentations – along with other informative videos – coming in the year ahead.

The PMCI Working Group is already off to a fast start in 2019, publishing architecture details for its forthcoming security specification and delivering an update to PLDM for Redfish Device Enablement (read more on these announcements below). In the coming months, this group will continue its progress addressing "inside the box" communication interfaces between the components of the platform management subsystem. This will include releasing the full Security Specification for PMCI Standards and Protocols, and mapping MCTP to additional technologies such as I3C and Gen-Z.

Additional technical advancements from DMTF expected in the first half of 2019 will include a new version of SMBIOS, an upgrade to CIM, and more.

All of DMTF's Working Groups will continue to take advantage of the organization's collaborative structure to facilitate powerful cohesion and interoperability across our standards. In an important structural change for 2019, the DMTF group formerly known as System Management (SM) Forum has become the CIM Forum. This group will continue to manage the CIM-based DASH and SMASH standards, as well as the DASH Conformance Test Suite. In addition, the CIM Forum now also includes Task Forces for CIM Architecture, CIM Profiles for Platforms and Service (CPPS), and CIM Schema – these three formerly independent DMTF working groups will now benefit from consolidating this work within a single Forum.

In 2019, DMTF will continue its ongoing commitment to outreach and education, with a number of events and initiatives on the calendar. The organization will once again co-sponsor the Alliance Partner Technical Symposium (APTS). In addition, DMTF is looking forward to both exhibiting and presenting again at the Open Compute Project (OCP) Global Summit, being held March 14-15, 2019. Stay tuned for additional event announcements in the months ahead!

In the coming year, DMTF will continue to grow its global presence in many ways, capitalizing on the reach of its members from 43 countries and local bodies in China and Japan. Our Regional Chapter in China and Regional Task Force in Japan each offer regularly updated websites where visitors can access translated DMTF documents and specifications. In addition, DMTF video webinars will be uploaded to the Youku channel as they are released, providing accessibility to our Chinese audience, and new Japanese subtitles will be added directly to select videos from DMTF's popular "Redfish School" YouTube video series.

2019 promises to be an exciting year for the DMTF, and the collective hard work and leadership of our members make it all possible. If you are not yet a member, we invite you to learn more and join us at www.dmtf.org/join. Thank you in advance to all of our volunteers as we welcome the year ahead!

Redfish Update Adds Support for Certificate Management, Sensors

DMTF's [Redfish](#)®, version 2018.3, is now available for public download, featuring 10 important new schemas and other significant updates. An API designed to deliver simple and secure management for hybrid IT and the Software Defined Data Center (SDDC), this release includes new versions of the Redfish schema and specification, as well as additional developer resources.

Redfish 2018.3 adds interoperable management of certificates via the Redfish interface, with new schemas for CertificateService (which includes Properties and Actions to manage security certificates), CertificateLocations, and Certificate (with a description of each security certificate). In addition, this latest version of Redfish includes a Sensor schema, which will serve as an architectural foundation for sensor resource definitions for future Data Center Infrastructure Management (DCIM) and Internet of Things (IoT) resources.

For more information, the items released as part of the new Redfish 2018.3 update include:

- [2018.3 Redfish Schema Bundle](#) – a .zip file that contains the current versions of all Redfish schema. In addition to Certificate and Sensor management, this file also includes new schemas for AccelerationFunction and ProcessorMetrics, as well as RedfishError (useful for validating error response payloads).
- [Redfish Specification v1.6.1](#) – this updated version of the specification includes minor updates with numerous clarifications.
- [Redfish 2018.3 Overview](#) – a presentation that provides detailed descriptions of each revision in the latest version of the Redfish Schema and Specification.
- [Redfish Resource and Schema Guide](#) – Designed to help educate users of Redfish, this human-readable guide to the Redfish Schema has been updated for version 2018.3. Application developers and DevOps personnel creating client-side software to communicate with a Redfish service, as well as other consumers of the API, will benefit from the explanations in this resource.
- [Redfish History – December 2018](#) – updated with each new release, this presentation offers a comprehensive view of each revision to Redfish since 2016.

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 Shares New Architecture for PMCI Security

Continuing its aggressive development schedule, DMTF's recently announced [Platform Management Components Intercommunication (PMCI)](#) Security Task Force

has published [architecture details for its forthcoming security specification](#).

The specification for additional security for PMCI standards and protocols has a goal of aligning component authentication and integrity objects across the industry, and is being designed to be referenced by other standards organizations. In this new architecture presentation, [now available for download](#), details of the specification's guiding principles are outlined, which include using DMTF's Management Component Transport Protocol (MCTP) message type 5 format for all authentication commands; and using MCTP message type 6 for future secured transport of encapsulated MCTP messages, as appropriate.

The PMCI Security Task Force is part of the PMCI Working Group, which – in addition to MCTP – also develops the Network Controller Sideband Interface (NC-SI) and Platform Level Data Model (PLDM) specifications. These "inside the box" communication interfaces provide a comprehensive, common architecture for improved communication between management subsystem components.

DMTF members are encouraged to join the PMCI Working Group and help shape these expedited security deliverables by visiting the [PMCI Working Group's private workspace](#). Non-members who would like to join the DMTF to contribute can learn more here: https://www.dmtf.org/join.

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

In Case You Missed It

DMTF Releases Update to PLDM for Redfish Device Enablement Specification

DMTF has released a new version of its [Platform Level Data Model (PLDM) for Redfish® Device Enablement Specification (RDE)](#) as a Work In Progress. This standard enables a management controller to present [Redfish](#)-conformant management of I/O adapters in a server, without the need for code specific to each adapter family/vendor/model. [Version 0.9.0a of the RDE standard](#), as well as a [new "deep-dive"](#)

Upcoming Events

[OCP Global Summit 2019](#)
March 14-15
San Jose, CA

[APTS](#)
July 26-29
Portland, OR

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

2019 APTS – Save the Date and Register Today!

Mark your calendars for this year's [Alliance](#)

presentation, are now available for download.

RDE describes the operation and format of request messages (also referred to as commands) and response messages, designed to be delivered using Platform Level Data Model (PLDM) messaging. Bringing Redfish management to devices, which have a small memory footprint and limited processing capabilities, the specification defines the use of Binary Encoded JSON (BEJ) to help compress message size significantly.

To read the entire announcement click here. To learn more about PMCI WG and to download the latest documents, click here.

2019 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. DMTFremains 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

Partner Technical Symposium (APTS) July 22-26 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 Materials?

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

DASH Conformance Test Suite v2018

DSP0245_1.3.0 (PLDM IDs and Codes Specification)

DSP0238_1.1.0 (MCTP PCIe VDM Transport Binding Specification)

DSP1036_1.0.3 (IP Interface Profile)

DSP1036_1.1.2 (IP Interface Profile)

DSP0266_1.6.1 (Redfish Specification)

DSP8010_2018.3 (Redfish Schema)

DSP8013_2018.2 (Redfish Interoperability Profiles Bundle)

DSP8011_2018.2 (Redfish Registries)

DSP2046_2018.3 (Redfish Resource and

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@dmtf.org.

Schema Guide)

DSP2050_1.2.0 (Redfish Composability White Paper)

DSP1037_1.0.4 (DHCP Client Profile)

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.

Upcoming Meetings

2/21 Board Meeting
3/13 Board Face to Face Meeting
4/18 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!

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

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.