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February 2023

News from the DMTF

#### **Issue Highlights**

What's Ahead for 2023 Redfish 2022.3 Now Available In Case You Missed It • YouTube • More!

#### What's Ahead for 2023

From the desk of Mike Raineri, Board Chair

The accomplishments of the organization over the course of 2022 show that DMTF continues to play an important part in the industry. 2023 will present new opportunities for exciting work for us. This year will be another banner year of initiatives and goals set by our dedicated members and partners. The organization will continue its mission of creating meaningful standards that address industry needs and solve challenges for the customers and end users.

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

The <u>Redfish</u> standard will continue to advance under the guidance of the <u>Redfish Forum</u>.

Work on Redfish 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. We will also work to create standardized message registries for common management topics, such as platform events, power events, and environmental events.

With the release of the CXL device and fabric models, we are also planning for the publication of additional Redfish School videos to educate the community on the topic. We are also planning the release of white papers and Redfish School videos in other subject areas, including basic storage management with Redfish and network interface management.

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. We will accomplish this by promoting the usage of Redfish interoperability profiles as a way for our alliance partners to express Redfish requirements for their equipment. We will also continue to expand the Redfish data model in the areas of NVMe-over-Fabric, CXL, OS software and workloads, and datacenter infrastructure equipment.

Over the next year, the <u>PMCI working group</u> anticipates adding to the suite of specifications they develop, including initial releases for the DMTF FRU Data Model and Schema Specification, Memory Mapped BMC Interface (MMBI), PLDM for File Transfer Specification and MCTP over USB. In addition, PMCI will be focused on continuing their effort with the MCTP 2.0 specification, which will include new features and functions.

<u>SPDM</u> is currently focused on releasing SPDM 1.3 (DSP0274). The Working Group (WG) is taking the necessary time to ensure that they 'get it right' as this version is considered by the WG as feature complete and is expecting that the specification will be submitted to the International Organization of Standardization (ISO). As the industry works through SPDM 1.3, the WG will be focused on other priorities such as new bindings for storage and Ethernet as well as authorization. Once the group has completed those bodies of work, it will re-focus its efforts on DSP0274 for consideration and debate of the 1.4 version. Version 1.4 is not expected until well into 2024. The group will remain responsive to errata to existing standards during this time.

Our decades-long commitment to <u>CIM</u> and <u>SMBIOS</u> continues and 2023 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 <u>news</u> 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 plan to attend events and meetings in person again this year. Be sure to stay up to date on where we'll be in 2023! Information and educational outreach opportunities can be found <u>here</u>.

sessions and collaborative working group meetings. This annual event is scheduled for the last week of July and will be moving to a new location outside of downtown Portland. We are looking forward to another fantastic event. Stay tuned for additional 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.

If you missed our recap of the organizations Year-in-Review by President Jeff Hilland you can read it here.

Membership renewals are right around the corner, 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 <u>learn more</u>, 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.

Sincerely,

Mike Raineri **DMTF Board Chair** 

## **Redfish Release 2022.3 Now Available**

DMTF's <u>Redfish<sup>®</sup></u>, Release 2022.3 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 40 schema updates and 3 new schemas including CXLLogicalDevice, Heater, and HeaterMetrics.

Key highlight of the Redfish 2022.3 release is the addition of support for CXL devices and fabrics, defined by DMTF alliance partner <u>Compute Express Link (CXL) Consortium</u>. The Fabric and Device data models have been extended to incorporate CXL Device Types 1,2, and 3. Other additions include support for multi-factor authentication, and support for heaters inside a chassis with new Heater and HeaterMetrics resources.

These latest enhancements are driven by the growth of Redfish and interoperability feedback received from implementers. Some of the items in the new Redfish 2022.3 update include:

- <u>Redfish Specification v1.17.0</u> (NEW ADDITIONS) Adds support for multi-factor and client certificate-based authentication. Enhanced schema annotations support URI deprecation and write-only properties and adds optional support for HTTP 2.0.
- <u>Redfish Specification v1.16.1</u> Errata release. Matched UUID / GUID to the correct formats shown in schema, improved terminology for MessageId and related tokens and clarified \$select query parameter usage with array properties.
- <u>2022.3 Redfish Schema Bundle</u> This .zip file contains the current versions of all Redfish schemas. The bundle includes 40 schema updates and developer resources.
  - Added Compute Express Link (CXL) support (NEW)
    - Defined by DMTF alliance partner Compute Express Link (CXL) Consortium
    - New CXLLogicalDevice schema
    - Extensions to Fabric, PCIeDevice, Processor, Memory, ComputerSystem, and Chassis schemas
  - Added *MultiFactorAuth* to AccountService to configure a service for multi-factor authentication
    - HTTP Basic authentication is not available for accounts configured for multifactor authentication
    - For RSA SecurID, Google Authenticator, and Microsoft Authenticator, clients provide a new *Token* property in the session creation request
    - For client certificate authentication, the client provides their identity certificate during TLS handshaking

Added Heater and HeaterMetrics resources

- <u>Redfish Message Registry Bundle 2022.3</u> The Message Registry Bundle contains all released Redfish message registries.
- **Added** *QueryParameterUnsupported* and *AuthenticationTokenRequired* messages <u>Redfish Release 2022.3 Overview</u> – This presentation provides detailed descriptions of
- each revision in Redfish 2022.3. • Redfish Resource and Schema Guide – Updated for 2022.3 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. Includes example payloads for each resource type.
- <u>Redfish Message Registry Guide</u> The Redfish Message Registry Guide presents message registry definitions in a more human-readable format and includes a summary table as well as individual message details.
- <u>Redfish Property Guide</u> Intended primarily for schema authors, this newly revised reference helps with locating existing property definitions within the Redfish schema. Additionally, it helps avoid re-defining property names already in use.
- <u>Redfish Data Model Specification</u> Includes normative statements ("LongDescription") and informative description details from schema in a single document. Intended for both Redfish Service and client-side developers.
- <u>Redfish Release History</u> Updated with each new release, this presentation offers a comprehensive view of each revision to Redfish since 2016.

To learn more about Redfish, click <u>here.</u> The <u>Redfish Developer Hub</u> 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. 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<u>here</u>. To submit input via the DMTF Technology Submission and Feedback Portal click here.

#### Upcoming Webinar – Redfish 2022.3 Release

DMTF's Redfish Forum would like to invite anyone interested in learning about the **Redfish** 2022.3 release to join a live webinar, hosted via Zoom, on Thursday, February 9, 2023, at 9:00 **a.m. PT**. The Forum chairs will present the contents of the release followed by a round table discussion. For questions regarding the webinar, email: <u>webinars@dmtf.org</u>. Don't delay, be sure to <u>register</u> today!

#### In Case You Missed It

#### **2023 Membership Reminder - Invoices Due** by April 1, 2023

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@dmtf.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 industryleading 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 <u>admin@dmtf.org</u>

#### **DMTF And Open** Infrastructure **Foundation Establish Work Register**

As part of DMTF's Alliance Partner program, the organization and the Open Infrastructure Foundation (OpenInfra Foundation) have

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

DMTF's 2023 Annual Meeting of Members will be held on March 16, 2023, at 7:00 a.m. -8:00 a.m. PT. Please see your email for dialin 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!

#### 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.

# <u>Upcoming Events</u>

<u>APTS 2023</u> July 24-28, 2023 Portland, Oregon

# Upcoming DMTF Meetings

2/16 Board Meeting 3/16 Board Meeting 4/20 Board Meeting

recently agreed to a new work register, outlining areas of technical collaboration between the two organizations.

The OpenInfra Foundation supports the development and adoption of open infrastructure globally, across a community of over 110,000 individuals in 187 countries, by hosting open source projects and communities of practice. Staying true to its mission of helping people build and operate open infrastructure, OpenInfra Foundation hosts open source projects that contribute to the advancement of today's infrastructure.

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. In addition, the alliance will help address issues that may arise from the use of Redfish in OpenInfra Foundation projects.

The work register detailing this Alliance Partner relationship is available here.

<u>Click here</u> to read the full new flash.

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**New Members** 

Participation Level and Redfish Supporter DigitalOcean

#### **Recent DMTF Specifications**

DSP0266\_1.16.1 – Redfish Specification DSP0266\_1.17.0 – Redfish Specification DSP0268 2022.3 – Redfish Data Model **Specification** DSP0272\_1.6.0 – Redfish Interoperability **Profiles Specification** DSP0285\_1.0.1 - RedPath Specification DSP8010 2022.3 - Redfish Schema Bundle DSP8011 2022.3 – Redfish Standard **Registries Bundle** DSP8013 2022.3 – Redfish Interoperability **Profiles Bundle** DSP2046\_2022.3 - Redfish Resource and Schema Guide DSP2053 2022.3 – Redfish Property Guide DSP2043\_2022.3 – Redfish Mockups Bundle DSP2065\_2022.3 - Redfish Message **Registry Guide** 

## **DMTF on YouTube**

Check out our latest videos and be sure to subscribe to the <u>DMTF YouTube Channel</u> 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 <u>www.dmtf.org</u>. 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 <u>Contact Us</u> 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 Tecnologia S.A; and Verizon.



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