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Issue Highlights

Redfish Release 2020.3 Now Available Featuring Support for NVMe-over-Fabrics™ and More

Newly Released Versions of DMTF Redfish® and SNIA Swordfish™ Specifications Include NVMe™ and NVMe-oF™ Enhancements

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Redfish Release 2020.3 Now Available Featuring Support for NVMe-over-Fabrics™ and More

DMTF's Redfish®, Release 2020.3, 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 2 new schemas, 37 schema updates, and additional developer resources. The new release features the additions

of *Connection* and *StorageController* schemas, support for *NVMe-over-Fabrics™*, collecting and retrieving *DiagnosticData* ("crash dumps"), per-system remote console and virtual media instances, expanded details of serial console, *InfiniBand*, and a *LocationIndicatorActive* property to address interop challenges with *Indicator.LED*. In addition, the migration from *NetworkPort* to *Port* will provide consistency throughout the schemas and for users.

The latest enhancements were driven by the growth of Redfish and interoperability feedback received from implementers. Some of the items in the new Redfish 2020.3 update include:

- **2020.3 Redfish Schema Bundle** – This .zip file contains the current versions of all Redfish schema. New materials include the additions of *Connection* and *StorageController* schemas, and the *LocationIndicatorActive* property. New added support for *NVMe-over-Fabrics* modeling using Redfish, collecting and retrieving *DiagnosticData* ("crash dumps"), expanded details of serial console, and support for *InfiniBand*. Updates including migration from *Network Port* to *Port* for consistency and per-system remote console and virtual media instances were also added.
- **Redfish Host Interface Specification v1.3.0** – This revision adds a bootstrap credential method. Added a set of commands to allow host software or the operating system to generate credentials for itself without requiring prior knowledge regarding the Redfish service. Added ability to the *HostInterface* resource to control whether the bootstrapping feature is enabled, while being able to control the role assigned to the bootstrap account.
- **Redfish Message Registry Bundle 2020.3** – The Message Registry Bundle (DSP8011) contains all released Redfish message registries. The 2020.3 release adds support for *Job* and *LogService* message registries.
- **Redfish Release 2020.3 Overview** – This presentation provides detailed descriptions of each revision in Redfish 2020.3.
- **Redfish Resource and Schema Guide** – Updated for 2020.3, 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.
- **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 the newly released versions of DMTF Redfish® and SNIA Swordfish™ Specifications that include NVMe™ and NVMe-oF™ enhancements click [here](#).

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. 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](#). To submit input via the DMTF Technology Submission and Feedback Portal click [here](#).

Newly Released Versions of DMTF Redfish® and SNIA Swordfish™ Specifications Include NVMe™ and NVMe-oF™ Enhancements

To read the press release regarding the newly released versions of DMTF Redfish® and SNIA Swordfish™ Specifications that include NVMe™ and NVMe-oF™ enhancements click [here](#).

DMTF Announces Redfish® Interoperability Lab to Drive Industry Collaboration

DMTF today announced its [Redfish® Interoperability Lab](#), hosted at the [SNIA Technology Center](#) in Colorado Springs, Colorado. The Redfish Interoperability Lab allows Forum members to submit equipment to be made available for interoperability testing. The Lab allows the Forum to see how different implementations are interpreting the specification and receive immediate feedback into the Redfish standard and tools thus helping to address interoperability concerns before end users are affected.

"As the marketplace evolves, the importance of adoption and interoperability continues to be of the utmost importance amongst vendors and end users," said Jeff Hilland, DMTF president. "DMTF is very excited about the Lab and the benefits this brings to our Forum members. We look forward to expanding it as more companies send hardware for testing."

Designed to drive industry interoperability, participating companies are invited to place a server in the Lab for Forum members to access and run tests on. Currently, three companies, Dell Technologies, Hewlett Packard Enterprise, and Lenovo, have kicked off the effort, with several others interested in participating. The Lab is available to all DMTF Redfish Forum members.

"Dell Technologies is a big proponent of the Redfish Interoperability Lab initiative and its pivotal role in shaping Redfish to meet the evolving Hybrid IT market needs for scalable and secure management. As a key member of the DMTF Redfish Forum, we believe that the Redfish Interoperability Lab will significantly advance the automated management capabilities for Dell EMC PowerEdge Servers and the industry," Kevin Noreen, Senior Director, Product Management for [Dell EMC OpenManage Systems Management](#).

"Redfish plays a critical role in the industry and is increasing adoption by various customers. The Redfish Interoperability Lab is an important initiative as it provides a conformance testing environment for Redfish specifications and enables multi-vendor compatibility testing of open source tools developed by DMTF. HPE is pleased to donate an HPE ProLiant DL360 Gen10 server to the lab to provide secure, high-performing and versatile infrastructure that is foundational for powering various testing needs," Scott Shaffer, vice president, Compute Advanced Development and U.S. Center of Excellence (COE), at [HPE](#).

"Lenovo is pleased to join DMTF and participate in the new Redfish Interoperability Lab to drive leadership across the industry. We look forward to helping Redfish realize its vision to align multi-vendor server management operations," said Patrick Caporale, Executive Director & Distinguished Engineer, [Lenovo](#) Data Center Group. "Lenovo is committed to simplifying platform management through open and interoperable standards so customers can implement and deliver infrastructure faster while meeting security and scalability requirements."

"The Open Compute Project has worked with DMTF to promote the adoption of the Redfish management standard. Our [Hardware Management Project](#) has defined profiles for various IT equipment types and has encouraged support of these Redfish profiles. We are pleased to be a part of the Redfish Interoperability Lab which will further enable a simple, interoperable and secure management solution for all cloud hardware," stated Bill Carter, Chief Technology Officer, the [Open Compute Project Foundation](#).

"We are pleased to welcome DMTF to the SNIA Technology Center," said Michael Oros, Executive Director, [SNIA](#). "Having the Redfish Interoperability Lab co-located with SNIA's SM Lab which supports the SNIA Swordfish™ specification, an extension of the Redfish specification, provides developers from both organizations the opportunity to ensure the technologies work seamlessly across multi-vendor implementations."

"Supermicro is excited to support the Redfish Interoperability Lab," said Vik Malayala, senior vice president, [Supermicro](#). "We applaud its mission of encouraging vendors and end-users to adopt interoperability to manage software-defined datacenters. Supermicro has a strong commitment to open standards on the widest product portfolio as well as a long-term advocate of Redfish solutions and look forward to continuing its support for future generations of Supermicro's resource-saving server and storage solutions."

To find out how you can join, contribute to the standard or be a part of the Redfish Interoperability Lab, click [here](#).

In Case You Missed It

DMTF Releases SMBIOS 3.4

DMTF has released [Version 3.4 of the System Management BIOS \(SMBIOS\) Reference Specification](#), the premier standard for delivering management information via system firmware. Since its first release in 1995, the widely implemented SMBIOS standard has simplified the management of more than two billion client and server systems. To learn more about version 3.4 of SMBIOS and to download it, please visit <http://www.dmtf.org/standards/smbios>.

Happy Birthday, Redfish!

Marking a major milestone for the standard, DMTF's [Redfish®](#) turned five this month. [Redfish](#), which has seen remarkable success in both industry adoption and implementation in five short years, has amassed the following:

- 58 contributors to the Redfish specification
- Includes 14,000 additions to the standard
- 75 -100 personnel hours a week participating in the Redfish Forum (equaling approximately 23,000 total hours)
- Resulting in Redfish implementations shipping in approximately 30 million servers

"Redfish is a standard designed to deliver simple and secure management for converged, hybrid IT, cloud-enabled environments, and the Software Defined Data Center. Designed from its inception to provide interoperable management for converging infrastructures, Redfish takes advantage of commonly used data center technologies, integrating with modern tool chains for simple and secure management in Internet and web services environments," said Jeff Hilland, DMTF president. "With its cohesive approach to open source tools and software as well as open industry standards, Redfish is at the center of a broad ecosystem of industry collaboration, helping reduce vendor lock-in and increase the productivity of system administrators."

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.

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>.

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

DMTF Releases Two Security Standards

DMTF announces the public release of its [Security Protocol and Data Model \(SPDM\) Specification 1.0](#), as well as the [SPDM over MCTP Binding Specification 1.0](#), as DMTF standards. These specifications – developed by DMTF's [Platform Management Components Intercommunication \(PMCI\) Security Task Force](#) – incorporate the input of the organization's [Alliance Partners](#) to help align component authentication and integrity objects across the industry. To learn more, click [here](#).

New VP of Membership

[Willie Nathan](#) of [Vertiv](#) has been appointed to serve as DMTF's new vice president of membership. Willie will play an important role in the organization as DMTF continues its commitment of providing solid value to its members. He will oversee the organization's membership initiatives while striving to grow its domestic and global presence. Please join us as we welcome Willie in his new leadership role with DMTF!

We would also like to thank Mark Nicolas (outgoing) for his dedication and efforts in advancing DMTF's membership, standards and initiatives.

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.

New Members

[Futureweb](#)

Recent DMTF Specifications

- [DSP0266 1.11.1 - Redfish Specification](#)
- [DSP0268 2020.3 - Redfish Schema Supplement](#)
- [DSP0270 1.3.0 - Redfish Host Interface Specification](#)
- [DSP8010 2020.3 - Redfish Schema Bundle](#)
- [DSP8011 2020.3 - Redfish Standard Registries](#)
- [DSP2053 2020.3 - Redfish Property Guide](#)
- [DSP2046 2020.3 - Redfish Resource and Schema Guide](#)
- [DSP0274 1.1.0 - SPDM Specification](#)
- [DSP2058 1.0.0 - SPDM Architecture White Paper](#)
- [DSP0134 3.4.0 - SMBIOS Specification](#)

Upcoming DMTF Meetings



- 10/22 Board Meeting
- 11/19 Board Meeting
- 12/17 Board Meeting

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; Hitachi, Ltd.; HP Inc.; Intel Corporation; Lenovo; and NetApp.



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