



June 2021

Issue Highlights

Redfish Release 2021.1 Now Available
New Redfish Firmware Update White Paper
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Redfish Release 2021.1 Now Available

DMTF's Redfish, Release 2021.1 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 6 new schemas, 37 schema updates and additional developer resources.

The new release extends the composability model to add multi-client support. Resource blocks can now be allocated to free pools or active pools so a client can easily understand their resource usage. A new Compose action allows clients to provide a manifest of operations that describe a desired outcome. Enhancements to the networking model were introduced to include Ethernet-related metrics to the NetworkAdapter, NetworkDeviceFunction, and Port resources. LLDP control was added to NetworkAdapter and Port. Additionally, new models were also added to represent USB controllers and graphics controllers (these resources can be found in ComputerSystem and allow for representing their ports).

These latest enhancements are driven by the growth of Redfish and interoperability feedback received from implementers. Some of the items in the new Redfish 2021.1 update include:

- Redfish Specification v1.13.0 - Adds composability support via Compose action and provides a manifest-driven composition method.
2021.1 Redfish Schema Bundle - This .zip file contains the current versions of all Redfish schemas. The bundle includes 6 new schemas, 37 schema updates and additional developer resources.
Redfish Message Registry Bundle 2021.1 - The Message Registry Bundle (DSP8011) contains all released Redfish message registries. The 2021.1 release adds support message registry for monitoring and reporting the firmware/software update workflow and updated Composition and Base message registries.
Redfish Release 2021.1 Overview - This presentation provides detailed descriptions of each revision in Redfish 2021.1.
Redfish Resource and Schema Guide - Updated for 2021.1, this human-readable guide to the Redfish Schema is designed to help educate users of Redfish.
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 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.

Missed the Redfish 2021.1 Webinar? It's On-Demand!
Were you unable to attend the Redfish 2021.1 webinar? No need to fret, it's available on DMTF's YouTube channel here.

The Forum chairs presented the contents of the 2021.1 release during a webinar on May 24. Attendees were able to ask questions during the Q and A session via the chat function. Immediately following the webinar, a Round Table discussion was held where Redfish Forum members engaged in a dialogue with attendees.

New Redfish Firmware Update White Paper

Are you looking to learn more about DMTF's Redfish? The Redfish Forum has created a new educational paper, Redfish Firmware Update White Paper, to help implementers and clients understand the Redfish Firmware Update data model and how it is used to update firmware images on a system.

Firmware is the executable binary that a processor or micro-controller executes. A system may contain many devices that execute firmware. Hence, the capability to update these firmware images is important. The white paper describes how a client application (end users, scripts, etc.) can interact with the Redfish service to perform firmware updates, using the standardized methods provided. When these methods are supported by Redfish Update Services, client applications will be able to update firmware on the system using a common and standard method.

The Forum has also published an "Update Message Registry" that contains messages used to convey status and progress through the update workflow. Application developers can now add this support to provide vendor-agnostic firmware update functions to their tools.

You can download the white paper here.

This new item is in addition to a large collection of Redfish resources already available. 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.

In Case You Missed It

Don't Miss the 2021 Virtual APTS

Be sure to make the 2021 Virtual Alliance Partner Technical Symposium (APTS) part of your summer plans. If you haven't already, mark your calendar now to join us for the 14th annual event, being held virtually July 26-30, 2021 via Zoom.

Featuring collaborative working group meetings, focused on technical topics of interest to DMTF's Alliance Partners, the symposium will also include keynote addresses from other standards organizations.

Don't miss out on the opportunity to participate in some of the most important virtual technical work of the year. For more information click here.

Recent Update to SPDM

DMTF released an update to its Security Protocol and Data Model (SPDM) Specification 1.1.1, which is now available for download. This specification - developed by DMTF's Platform Management Communications Infrastructure (PMCI) Security Task Force - incorporates the input of the organization's Alliance Partners thus helping align component authentication, confidentiality, and integrity objects across the industry.

The SPDM Specification 1.1.1 defines messages, data objects, and sequences for performing message exchanges between devices over a variety of transport and physical media. The description of message exchanges includes authentication of hardware identities and measurement for firmware identities as well as session key exchange protocols to enable confidentiality, authentication and integrity for data communication.

Other specifications developed by different standards organizations, such as those being defined by DMTF alliance partners, will specify the mapping of these messages to different transports and physical media. The SPDM enables efficient access to low-level security capabilities and operations. Other mechanisms, including both non-DMTF and DMTF-defined mechanisms, can use the SPDM specification.

Click here to download.

Upcoming DMTF Meetings



6/24 Board Meeting
7/26 Board Meeting
8/19 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!

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.

DMTF Welcomes Positivo Tecnologia S.A. and Verizon to Its Board

DMTF recently announced that Positivo Tecnologia S.A. and Verizon are the newest members of the organization's Board of Directors.

Positivo Tecnologia S.A. and Verizon join 7 other technology companies from around the globe on the DMTF Board, including: Broadcom Inc.; Cisco; Dell Technologies; Hewlett Packard Enterprise; Intel Corporation; Lenovo; and NetApp.

To read the full announcement click here.

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 Events
SDC EMEA - Virtual June 8, 2021
APTS - Virtual July 26-30, 2021
SDC India - Virtual September 5, 2021
SDC USA - Virtual September 28-29, 2021
MIPI DevCon 2021 - Virtual September 28-29, 2021
OCP Global Summit November 9-10, 2021 San Jose, CA
SC21 November 14-19, 2021 St. Louis, MO

Recent DMTF Specifications

- DSP0238 1.2.0 (MCTP PCIe VDM Transport Binding Specification)
DSP0266 1.12.1 (Redfish Specification)
DSP0272 1.3.1 (Redfish Interoperability Profiles Specification)
DSP0239 1.6.2 (Management Component Transport Protocol (MCTP) IDs and Codes)
DSP0239 1.7.2 (Management Component Transport Protocol (MCTP) IDs and Codes)
DSP0266 1.13.0 (Redfish Specification)
DSP0268 2021.1 (Redfish Schema Supplement)
DSP8010 2021.1 (Redfish Schema)
DSP8011 2021.1 (Redfish Standard Registries)
DSP2046 2021.1 (Redfish Resource and Schema Guide)
DSP2053 2021.1 (Redfish Property Guide)
DSP0222 1.1.1 (Network Controller Sideband Interface (NC-SI) Specification)
DSP0261 1.2.3 (NC-SI over MCTP Binding Specification)
DSP0274 1.1.1 (Security Protocol and Data Model (SPDM) Specification)
DSP4014 2.8.0 (DMTF Process for Working Bodies)
DSP2062 1.0.0 (Redfish Firmware Update White Paper)
DSP2043 2021.1 (Redfish Mockups Bundle)
DSP0234 1.0.0 (CXL™ Fabric Manager API over MCTP Binding Specification)

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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.