

June 2023

**Issue Highlights**  
 Redfish Release 2023.1 Now Available – *New Updates!*  
 DMTF Releases Security Specification 1.3  
 Register Today for DMTF's 2023 Alliance Partner Technical Symposium  
 In Memory of Mark Carlson  
 In Case You Missed It • YouTube • More!

## Redfish Release 2023.1 Now Available – New Updates!

DMTF's [Redfish®](#), Release 2023.1 is now available for public download. The latest release of the Redfish standard includes **28 schema updates** and **11 new schemas** as well as additional query parameters added to the syntax of the **Redpath Specification**.

The **key highlights** of the [Redfish 2023.1](#) release are support for **Cooling Distribution Units** and **CoolingLoops**, including critical subsystems such as **LeakDetectors**, **Pumps**, **Reservoirs**, and **Filters**. Also included are enhancements to the **Drive** and **Storage** models with new **DriveMetrics** and **StorageControllerMetrics** resources and **StorageController** actions. Other additions include new standard message registries to define messages for common events or errors related to **Platform**, **Power**, and **Environmental** conditions.

These latest enhancements are driven by the growth of Redfish and interoperability feedback received from implementers. Some of the items in the new Redfish 2023.1 update include:

- [Redfish Specification v1.18.0](#) – Adds URI segment annotation clause to allow schemas to describe URIs that do not match applicable naming rules
- [Redfish Specification v1.17.1](#) – Errata release. Improved M-SEARCH example response; updated authentication requirements to state that services can optionally reject requests to unauthenticated resources if the provided credentials are invalid; updated Action responses to provide guidance for finding the schema definition of the action response; and updated Response headers to make Access-Control-Allow-Origin an optional response header.
- [Redpath Specification v1.1.0](#)
  - **NEW** – Additional query parameters added to the syntax
- [2023.1 Redfish Schema Bundle](#) – This zip file contains the current versions of all Redfish schemas. The bundle includes 11 new schemas and 28 schema updates and developer resources.
  - **NEW** – Redfish for Cooling Distribution Units includes ThermalEquipment, CoolingUnit, CoolingLoop, CoolantConnector, Filter, Pump, Reservoir, LeakDetection, LeakDetector schemas
  - **NEW** – Drive and Storage Controller Updates includes DriveMetrics and StorageControllerMetrics
  - **Added AttachNamespaces, DetachNamespaces, SecuritySend, and SecurityReceive actions to StorageController**
  - **Added PartLocationContext to Location**
- [Redfish Message Registry Bundle 2023.1](#) – The Message Registry Bundle contains all released Redfish message registries.
  - **NEW** – Environment, Power, and Platform message registries
  - **Added TestMessage** to ResourceEvent message registry
- [Redfish for Thermal Equipment White Paper](#) – This white paper describes the new Redfish data model support for thermal management equipment, including cooling distribution units (CDUs), heat exchangers, and immersion cooling units.
- [Redfish Release 2023.1 Overview](#) – This presentation provides detailed descriptions of each revision in Redfish 2023.1.
- [Redfish Resource and Schema Guide](#) – Updated for 2023.1 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.
- [Redfish Property Guide](#) – Intended primarily for schema authors, this newly reference guide helps with locating existing property definitions within the Redfish schema. Additionally, it helps avoid re-defining property names already in use.
- [Redfish Data Model Specification](#) – Includes normative statements (“LongDescription”) and informative description details from schema in a single document. Intended for both Redfish Service and client-side developers.
- [Redfish Release History](#) – Updated with each new release, this presentation offers a comprehensive view of each revision to Redfish since 2016.
- [Redfish Conformance Testing Tools](#) – Open source tools for service developers to validate their conformance with the Redfish protocol, data model, and profiles. Tools include the Redfish Protocol Validator, Redfish Service Validator, Redfish Interop Validator.

**UPCOMING WEBINAR**

DMTF's Redfish Forum would like to invite anyone interested in learning about the **Redfish 2023.1 release to join a [live webinar](#)**, hosted via Zoom, on **Thursday, June 15, 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: [webinars@dmftf.org](mailto:webinars@dmftf.org). Don't delay, be sure to [register](#) today!

## DMTF Releases Security Specification 1.3

DMTF recently announced the public release of its [Security Protocol and Data Model \(SPDM\) Specification 1.3.0](#) is available for download. This specification – developed by DMTF's [Security Protocol and Data Models Working Group](#) – continues to incorporate the input of the organization's [Alliance Partners](#) to help align component authentication, confidentiality, and integrity objects across the industry.

The [SPDM Specification \(DSP0274\)](#) provides message exchange, sequence diagrams, message formats, and other relevant semantics for authentication, firmware measurement, certificate retrieval, and session key exchange protocols to enable confidentiality and integrity protected data communication thus enabling encrypted and authenticated communication of data in flight.

The new features in SPDM 1.3 are:

- **Eventing** - SPDM now has the ability where either side of an SPDM communication can notify the other side about changes to its state or the session
- **Multi-key support** - SPDM had one private key, which meant one key for everything. However, now you can use different keys for different use cases, enhancing the security of the protocol
- **Measurements** - There are three changes to note in Measurements. There is now a standardized measurement format, a log to detect changes (Measurement Extension Log or MEL), and a Hash Extended Measurement (HEM) to let the user know what the next measurement would be before it changes.
- **Endpoint information** - Generic information about the endpoint is now retrievable. In a BMC environment, the user can get to FRU, but on the data plane it is important to know what you are talking to before you start securing it as your policy may change.

Other specifications define the mapping of these messages to different transports and physical media. SPDM enables efficient access to low-level security capabilities and operations.

For more information about the SPDM Working Group please visit <https://www.dmtf.org/standards/spdm>.

## Register Today for DMTF's 2023 Alliance Partner Technical Symposium

Registration is open for the upcoming [2023 Alliance Partner Technical Symposium \(APTS\)](#), July 24-28, 2023. Make your plans now to join us for the annual gathering, being held as a hybrid event, with options to attend in person or virtually.

This year's event will be at a new location! APTS will be held at the Embassy Suites in Hillsboro, Oregon. Hotel rooms are going fast. Whether you'll be attending virtually or in-person, please [register](#) and be sure to book your stay while rooms are still available.

Hosted in partnership with [SNIA](#), APTS features collaborative working group meetings, focused on technical topics and works of interest to DMTF's Alliance Partners. The symposium will also include keynote addresses from SNIA, [UCIe™ \(Universal Chiplet Interconnect Express™\) Consortium](#), and DMTF.

[DMTF](#), [SNIA](#), and [QCP](#) will be holding meetings at this year's event. Check out the [schedule](#) to learn more about the meetings being held at APTS.

A social event gathering is planned for Wednesday evening. Stay tuned for additional details!

## In Memory of Mark Carlson

It is with deep sadness and heavy hearts that we inform you of the unexpected passing of our friend and colleague Mark Carlson due to injuries suffered after a fall at his home on May 3, 2023.

*For information regarding upcoming remembrance services for Mark, please [click here](#).*

Mark will be remembered warmly and leaves a long list of accomplishments. When you have 40+ year career working for a variety of industry leading tech companies including Sun Microsystems, Oracle, Toshiba, and most recently, KIOXIA, where Mark was a Principal Engineer Industry Standards, your resume is long and illustrious.

Mark was an invaluable DMTF member and officer for over 20 years and was actively involved in the organization in a variety of pivotal roles until his passing.

His thought leadership was often sought after and valued by the industry at large. Mark was a frequent keynote speaker at conferences around the world, and you could often find him manning the booth at trade show events passionately speaking with attendees. His warm personality and sheer breadth of technical knowledge was awe-inspiring. Mark truly believed in the benefits that industry standards delivered and personally worked on or authored several specifications over the span of his career.

In 2013, Mark chaired DMTF's Cloud Management Working Group and assisted in the creation of the first recognized Cloud standard. Additionally, Mark helped shepherd the first website dedicated to cloud standards along with former DMTF Chair and President Winston Bumpus.

Mark was DMTF's first Vice President of Alliances and held that role for more than seven years. As part of his leadership and forward thinking, Mark was responsible for creating and managing the organization's Alliance Partner Summit in 2005 and 2006 – now known as the Alliance Partner Technical Symposium (APTS). Mark was a driving factor in the event's ongoing success, as evidenced still today. APTS will be celebrating its 17th year this July.

Mark also served as DMTF's Academic Alliance Chair, establishing a successful relationship in 2007 – which lasted for more than eight years - between DMTF and the International Conference on Network and Service Management (CNSM). Mark played an integral role in developing the two key workshops - Systems and Virtualization Management: Standards and the Cloud and Datacenter and Cloud Management – thus continuing to expand DMTF's reach internationally.

Mark was also a pillar within [SNIA](#), DMTF alliance partner, for the last 23 years. He began his service on SNIA's Technical Council (TC) in 2000 and served on the TC ever since. Mark was a crucial member of the organization and helped guide the execution of SNIA's technical mission during his tenure.

In 2013, due to his stellar technical contributions and leadership, DMTF's Board of Directors unanimously voted to recognize Mark as a *DMTF Fellow*. Such individuals are recognized for their distinguished past and significant contributions to DMTF by receiving the honorary title of DMTF Fellow. This was certainly fitting for Mark's dedicated service to the organization along with his interest in continued participation.

Mark was someone who made an everlasting impression, both professionally and personally, and his time with DMTF was no different. He was a technical icon. DMTF would like to express its sincere condolences. He had many friends and colleagues amongst our ranks and will be sorely missed.

## In Case You Missed It

### DMTF Standards Highlighted in the 2023 OCP Tech Talk Series and OpenInfra Summit!

**OCP Tech Talk Series**  
 DMTF standards were represented in several [Open Compute Project \(OCP\)](#) as part of OCP's Hardware Management Project Tech Talk Series. Click [here](#) to view the recordings and presentations.

**OpenInfra Summit Vancouver 2023 - June 13-15, 2023**  
 Continuing its commitment to industry outreach and education DMTF representatives will participate in the [OpenInfra Summit](#), June 13-15, 2023, at the Vancouver Conference Centre. The conference invites attendees to collaborate directly with the people building and running open source infrastructure using Linux, OpenStack, Kubernetes and 30+ other technologies.

DMTF standards will be represented as part of the Hardware Enablement track in the following presentations:

- Thursday, June 15 - 5:20 p.m. – 5:50 p.m. – [Catching Consistent Redfish in the Deep Blue Data Center](#)

For more information or to view the presentation schedule click [here](#). To register for the conference click [here](#).

### 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](http://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!

### Need a DMTF Logo for your Marketing Materials?

We've got you covered!  
 Email [press@dmftf.org](mailto:press@dmftf.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

- 6/15 Board Meeting
- 7/24 Board Meeting
- 8/17 Board Meeting

### New Members

**Leadership Level**  
[HCS3](#) (Redfish Supporter Level)

**Participation Level**  
[CoreWeave](#) (Redfish Supporter Level)  
[Samsung](#)

### Recent DMTF Specifications

DSP0266\_1.18.0 – [Redfish Specification](#)

DSP0266\_1.17.1 – [Redfish Specification](#)

DSP0268\_2023.1 – [Redfish Data Model Specification](#)

DSP0285\_1.1.0 – [RedPath Specification](#)

DSP8010\_2023.1 – [Redfish Schema Bundle](#)

DSP8011\_2023.1 – [Redfish Standard Registries Bundle](#)

DSP2064\_1.0.0 – [Redfish for Thermal Equipment](#)

DSP2046\_2023.1 – [Redfish Resource and Schema Guide](#)

DSP2053\_2023.1 – [Redfish Property Guide](#)

DSP2043\_2023.1 – [Redfish Mockups Bundle](#)

DSP2065\_2023.1 – [Redfish Message Registry Guide](#)

DSP0274\_1.3.0 – [Security Protocol and Data Model \(SPDM\) Specification](#)

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**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.

