

News from the DMTF

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### Issue Highlights

[New Redfish Release Adds OpenAPI 3.0 Support, Telemetry](#)[DMTF and The Gen-Z Consortium Form Alliance](#)[Get Involved in DMTF's PMCI Security Task Force](#)[In Case You Missed It](#) • [YouTube](#) • [Upcoming Events](#) • [More!](#)

## New Redfish Release Adds OpenAPI 3.0 Support, Telemetry

In the latest update to DMTF's [Redfish®](#), version 2018.2, the standard adds support for OpenAPI 3.0, as well as telemetry streaming and eventing, and improved event subscription methods. An API designed to deliver simple and secure management for hybrid IT and the Software Defined Data Center (SDDC), new versions of the Redfish schema and specification, as well as additional developer resources, are now available.

OpenAPI, a community-driven open specification from the [OpenAPI Initiative \(OAI\)](#), describes API services in YAML format and offers a rich ecosystem of tools for developers and end users. In the new [Redfish Specification v1.6.0](#) (part of the new 2018.2 release), DMTF adds support for OpenAPI schema files in YAML and requires the use of standardized URIs, with fixed URIs for all Redfish resources. In addition, the [2018.2 Redfish Schema bundle](#) now includes OpenAPI YAML files, along with JSON Schema and CSDL files.

For more information, the items released as part of the new Redfish 2018.2 update include:

- [2018.2 Redfish Schema Bundle](#) – a .zip file that contains the current versions of all Redfish schema. In addition to the new OpenAPI YAML files for all schemas, new schemas include TelemetryService, MetricDefinition, MetricReportDefinition, MetricReport, Triggers, as well

as JobService, Job, PCIeSlots (plus 5 Resource Collections).

- [Redfish Specification v1.6.0](#) – along with OpenAPI support, the specification adds new modes for more flexible subscription to specific Registries or Resource Types, rather than loosely defined classes. Other new message and event enhancements include additional support for Grouping, Telemetry, SSE filtering, as well as additional Message Registries and more.
- [Redfish 2018.2 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 2018.2. 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 – September 2018](#) – updated with each new release, this presentation offers a comprehensive view of each revision to Redfish since 2016.

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## DMTF and The Gen-Z Consortium Form Alliance

DMTF and [The Gen-Z Consortium \(Gen-Z\)](#) have formed an alliance to help ensure the two organizations' standards are coordinated and aligned. Gen-Z is an open-systems interconnect designed to provide memory-semantic access to data and devices via direct-attached, switched or fabric topologies.

As part of this alliance, the organizations will collaborate on extensions to DMTF's [Platform Management Components Intercommunication \(PMCI\)](#) standards, including planned development of a new MCTP Gen-Z Transport Binding Specification. The two groups also will create and maintain extensions to [DMTF's Redfish® API](#) to support Gen-Z management.

The work register detailing this Alliance Partner relationship is available in PDF [here](#).

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## Get Involved in DMTF's PMCI Security Task Force

DMTF has formed a new Security Task Force within its [Platform Management Components Intercommunication \(PMCI\) Working Group](#). As work in the new PMCI Security Task Force begins, early participation is encouraged to help shape the scope of these efforts on expedited deliverables.

DMTF members are invited to join by visiting [PMCI's private workspace](#). Non-members who

would like to join the DMTF to contribute can learn more here: <https://www.dmtf.org/join>.

The PMCI Working Group develops the Network Controller Sideband Interface (NC-SI), Management Component Transport Protocol (MCTP), and Platform Level Data Model (PLDM) specifications that provide a comprehensive, common architecture for improved communication between management subsystem components.

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

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## In Case You Missed It

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# Updated Redfish DCIM Schemas Released for Public Review

The goal of DMTF's [Redfish®](#) is to provide a standard API for managing all the components in the data center – addressing both the virtual Software Defined Data Center (SDDC) and the physical Data Center Infrastructure Management (DCIM). Continuing its aggressive development, the organization has released newly updated work-in-progress (WIP) schemas for public review and comment in version 0.8 of the Redfish Data Center Equipment (DCIM) Model.

Among the new updates, DMTF invites feedback on the methodology used in the updated RackPDU and Sensor schemas, which use a common sensor model for power management. Version 0.8 of the Redfish Data Center Equipment Model also includes revised Alarm, Circuit and Outlet schemas. The full release bundle can be [downloaded](#)

## Upcoming Events

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### LISA2018

October 29-31  
Nashville, TN

### SC18

November 11-16  
Dallas, TX

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

## Upcoming Meetings



11/6 Face to Face Board Meeting  
12/13 Board Meeting  
1/24 Board Meeting

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## DMTF to Showcase Redfish at the SC18

[as a .zip file here](#) – developers are encouraged to review and provide comment via the [DMTF Technology Submission and Feedback Portal](#).

Along with the full file download, a new presentation with details of this release is now available. For more background on Redfish DCIM and a detailed explanation of the new schemas in version 0.8, click [here](#) to download the presentation.

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## Advanced Communication Devices in Redfish Explained

In the latest installment of DMTF's popular ["Redfish® School" YouTube series](#), learn how [advanced communication devices are supported in Redfish](#).

Redfish includes an advanced communication device model, enabling the management of components such as Ethernet network interface cards (NICs) and Fibre Channel host bus adapters (HBAs). This new [mini-tutorial video](#) includes a resource overview and map, as well as examples of the use of Network Interface, Network Adapter, Network Port, and Network Device Function resource types in Redfish.

All "Redfish School" mini-tutorials and videos can be viewed on the [Redfish webinars page](#) on the [Redfish Developer Hub](#). In addition, the full library of DMTF videos is available on the [Webinars](#) page in the DMTF website's [Education](#) section.

These videos are also available directly on [DMTF's YouTube channel](#), so don't miss out when we post something new – click [here](#)

Continuing its commitment to industry outreach and education, DMTF will participate in [SC18](#), November 11-16, 2018, with presentations and a booth representing the [Redfish® standard](#). SC18 is an international conference for high performance computing, networking, storage, and analysis.

Executives and representatives of the Redfish Forum will be available in booth #216 at the Kay Bailey Hutchinson Convention Center in Dallas to speak with attendees about the standard and how Redfish delivers simple and secure management for converged, hybrid IT and the Software Defined Data Center (SDDC). For real-time updates follow us on Twitter throughout the event [@DMTF](#), using the [#RedfishAPI](#) hashtag.

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## Need a DMTF Logo for your Marketing Materials?

We've got you covered!

Email [press@dmtf.org](mailto: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.

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## Welcome New Members

[Oracle](#)  
[Xilinx, Inc.](#)

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## Newsletter Feedback

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

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to subscribe to our YouTube channel today!

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## 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.

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## Recent DMTF Specifications

[DSP0266\\_1.6.0 – Redfish Specification](#)

[DSP0266\\_1.5.1 – Redfish Specification](#)

[DSP8010\\_2018.2 – Redfish Schema](#)

[DSP8011\\_2018.1 – Redfish Standard Messages](#)

[DSP2044\\_1.0.4 – Redfish White Paper](#)

[DSP2046\\_2018.2 – Redfish Resource and Schema Guide](#)

[DSP2050\\_1.1.0 – Redfish Composability White Paper](#)

[DSP1120\\_1.0.0 – Network Management – Tunnel Management Profile](#)

[DSP1065\\_1.0.0 – Network Management – Virtual Routing and Forwarding Profile](#)

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Information about the 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>.

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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.; CA Technologies; Dell Inc.; Hewlett Packard Enterprise; Hitachi, Ltd.; HP Inc.; Intel Corporation; Lenovo; NetApp; Software AG; Vertiv; and VMware, Inc.



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