

Compute Express Link Consortium / DMTF Work Register

Version 1.1

Date: 10/21/2021

The DMTF Work Register is created between the DMTF and an Alliance Partner to formally define the objectives, scope, benefits, and deliverables of the alliance collaboration. The register helps both organizations coordinate efforts to achieve the stated goals and objectives.

Alliance Organizations

[CXL Consortium](#) and the [DMTF](#)

CXL Consortium

CXL (Compute Express Link) is a high-speed CPU interconnect that enables a high-speed, efficient performance between the CPU and platform enhancements and workload accelerators.

Industry leaders Alibaba, Cisco, Dell EMC, Facebook, Google, Hewlett Packard Enterprise, Huawei, Intel Corporation and Microsoft have teamed up to form this open industry standard group to develop technical specifications that facilitate breakthrough performance for emerging usage models while supporting an open ecosystem for datacenter accelerators and other high-speed enhancements.

DMTF

DMTF (formerly known as the Distributed Management Task Force) 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.

Internationally recognized by ANSI and ISO, DMTF standards enable a more integrated and cost-effective approach to management through interoperable solutions. Simultaneous development of Open Source and Open Standards is made possible by DMTF, which has the support, tools, and infrastructure for efficient development and collaboration.

Alliance Benefits

This alliance provides the following benefits:

- Enables a holistic management experience
- Enables scale-out management for fabric management
- Promotes CXL Consortium and DMTF standards to member companies

- Fosters CXL Consortium participation at the DMTF Alliance Partner Technical Summit and in various working groups

Activities

The following activities are expected to occur during the duration of this work register.

CXL Consortium

- Provide the Redfish Forum with expertise on CXL to assist with the extension of the Redfish standard to cover CXL management.

The DMTF:

- Create and maintain Redfish extensions to support CXL management.
- Create and maintain extensions to the PMCI standards to support CXL management as need – includes PLDM, MCTP and SPDM specifications.

Limitations

CXL Consortium will not produce delegated standards that conflict or diverge from existing or proposed DMTF standards, where possible.

DMTF will not produce delegated standards that conflict or diverge from existing or proposed CXL standards, where possible.

Milestones / Dates

This section is to list specific milestones that will be accomplished by the alliance partnership.

Milestone/Deliverables	Timeframe
DMTF and CXL Consortium approves of Work Register v1.0 - done	Jan 2020
DMTF announces CXL Consortium as a new alliance partner and publish work register - done	Feb 2020
Collaboration begins - done	Feb 2020
DMTF releases applicable updates (if needed) to PMCI specifications – done, released DSP0234 and released updates to DSP0239	2H20

DMTF releases Redfish schema for CXL 2.0 as Work-In-Progress	Nov 2021
DMTF releases CXL Type 3 Component Command Interface over MCTP Binding Specification as Work-In-Progress	Nov 2021
CXL Consortium provides feedback against CXL Type 3 Component Command Interface over MCTP Binding Specification as Work-In-Progress	2 weeks of the release of the Work-In-Progress document
DMTF releases the CXL Type 3 Component Command Interface over MCTP Binding Specification	Jan 2022
CXL Consortium provides feedback against Redfish schema for CXL 2.0 as Work-In-Progress	Jan 2022
DMTF releases Redfish mockups and schema for CXL 2.0	Feb 2022
CXL Consortium releases CXL Type 3 to PLDM mapping	Mar 2022

Access

The DMTF and CXL Consortium may want to provide documentation and collateral to each other. This information can be exchanged publicly, or not.

For information which can be accessed publicly

- DMTF will make the information and specifications available by posting as “Work-in-Progress”, “Informational”, or “Standard” (dmtf.org/redfish)
- CXL Consortium will make the information available by posting to the CXL Consortium web site. For non-public work in progress, a web site will be made available to members of the CXL Consortium associated with the work. Public work in progress can be published by the CXL Consortium as “Draft”.

For any information that involves intellectual property (that is information contributed to each other’s projects):

- CXL Consortium members can submit feedback and contributions to DMTF specifications via the DMTF Technology Submission Portal (dmtf.org/standards/feedback), subject to the terms of the DMTF Intellectual Property Rights Agreement set forth on such portal.

- DMTF can submit feedback and contributions to CXL specifications via a mechanism to be specified by the CXL Consortium
- CXL Consortium and DMTF can host meetings to exchange and discuss public information

Except as described above regarding feedback and contributions to each other's specifications, unless otherwise agreed to in writing, no sharing of information, documentation, or materials shall result in the assignment, transfer, or license of intellectual property from one party to the other.

Documentation

The DMTF will make the following specifications available to the CXL Consortium. These will generally be available on public DMTF sites.

- Redfish Specifications, whitepapers, presentations, schema and mockups
- PMCI Specifications, whitepapers, presentations

The CXL Consortium will make the following documents available to the DMTF.

- Public whitepapers, presentations and other educational material.

Work Register Review Date

The next review date is expected to be January 2022

The DMTF work register review processes can be found in DSP4003.

https://www.dmtf.org/sites/default/files/standards/documents/DSP4003_1.6.0.pdf

Resources Identified / Points of Contact:

Below are the members of each organization that will act as points of contact between the two organizations.

CXL Consortium:

- CXL President Barry McAuliffe (barry.mcauliffe@hpe.com)
- CXL SW/Systems WG co-chair Mahesh Natu (mahesh.natu@intel.com)
- CXL SW/Systems WG co-chair Cody Hartwig (chartwig@microsoft.com)
- CXL Board Member Dong Wei (dong.wei@arm.com)

DMTF:

- DMTF VP of Alliances (vp-alliances@dmtof.org)
- DMTF PMCI WG Chair (pmci-chair@dmtof.org)

- DMTF Redfish Forum Chair (redfish-forum-chair@dmtof.org)

Corresponding CXL Document

There are no corresponding documents created by CXL. This document was approved by the CXL Consortium on January 5, 2022.

Approval by the DMTF Board of Directors

Approved by the DMTF Board of Directors; Board Resolution 2021-12-14, on December 16, 2021.

Additional Considerations

The CXL Consortium and the DMTF do not intend to exchange confidential information as part of the collaboration described in this work register. If CXL Consortium and DMTF do, at a later time, decide to exchange confidential information, they will enter into a written non-disclosure and confidentiality agreement prior to such exchange.