

Cloud Management Working Group Charter Dated 07/25/2022

The information provided below is subject to change and reflects the current state of the Working Group charter within the DMTF.

Management Problem(s) and Environment

A new computing paradigm is quickly emerging called Cloud Computing. Vendors have embraced the need to provide interoperability between enterprise computing and cloud service providers.

An operation model for computing services has emerged that enables tenants to provision workloads in the cloud without concern for physical asset management. The prevalence of interfaces is growing such that each cloud, be it public, private or hybrid, has a proprietary, unique interface & API. This is increasing customer dissatisfaction as each customer has to adapt to each cloud vendor's interface & API. This also means vendor lock in to the API or interface, increasing customer dissatisfaction.

As multi-cloud solutions increase in the market, there is a risk of multiple interfaces being defined and adopted by customers. This only serves to increase the number of non-interoperable solutions in the market.

Customers increasingly want visibility into these workloads as well. This includes metrics to ensure that the agreed upon service levels are being reached or if services are constrained when limits have been reached. Visibility into the health and operational status of the workloads is also important. Thus visibility & telemetry are also ripe for interoperability & a multi-cloud, holistic view. Additionally, portability of these workloads as well as portability of the workload definition is also crucial.

There is an opportunity for a standard API (and the open source framework to accompany it) that enables a common interface for all tenants and operators that enables multi-cloud management & solutions that can then be adapted to any cloud vendors environment, be that a public, private, or hybrid cloud.

The Cloud Management Interface WG will focus on addressing the management interfaces between the cloud service consumer / developer and the cloud service provider. This includes a multi-cloud/hybrid-cloud enabled interface that enables portability and provides necessary visibility for both operators and tenants.

The working group will also need to address security & ensure interoperability.

Working Group Charter

The CMWG will develop a set of specifications that deliver architectural semantics as well as implementation details to achieve interoperable management of multi-cloud environments – including between public and private clouds, across multiple public clouds and solutions that span both public and private clouds.

Open source enablement is included in this effort, including but not limited to, code developed in, published by and/or curated by DMTF.

The CMWG reports to the Technical Committee.

The CMWG is chartered to provide specifications for:

- Including data models & protocols that enable operators and tenants to manage multi-cloud workloads and environments.
- Enabling visibility into the operation of the workloads as well as telemetry, thresholds, health, status and other information necessary to support an interoperable API.
- Defining & enabling workload portability and workload definition portability.

The CMWG will interact with approved industry and DMTF Alliance Partners as necessary for the purpose of meeting the chartered objectives and goals.

The CMWG is not authorized to develop export control standards.

Reliance/Coordination with other DMTF Groups

The CMWG will work, as required, with:

- The Redfish Forum to ensure the internal interfaces and protocols defined by the WG enable and support the production of the external interfaces and protocols defined by these other working groups and forums.
- Child groups under the Technical Committee on an as needed basis.

Links

- To join the Cloud Management Working Group, DMTF members see <https://members.dmtf.org/wg/cmwg/dashboard> .
- To see public schedules and deliverables, see <https://www.dmtf.org/standards/cmwg>.
- To contact the chairs, DMTF members see cmwg-chair@dmtof.org. All others can contact admin@dmtof.org
- To join the DMTF, see <http://www.dmtf.org/join> .