



Disclaimer

- The information in this presentation represents a snapshot of work in progress within the DMTF.
- This information is subject to change without notice. The standard specifications remain the normative reference for all information.
- For additional information, see the Distributed Management Task Force (DMTF) website.



DMTF Overview

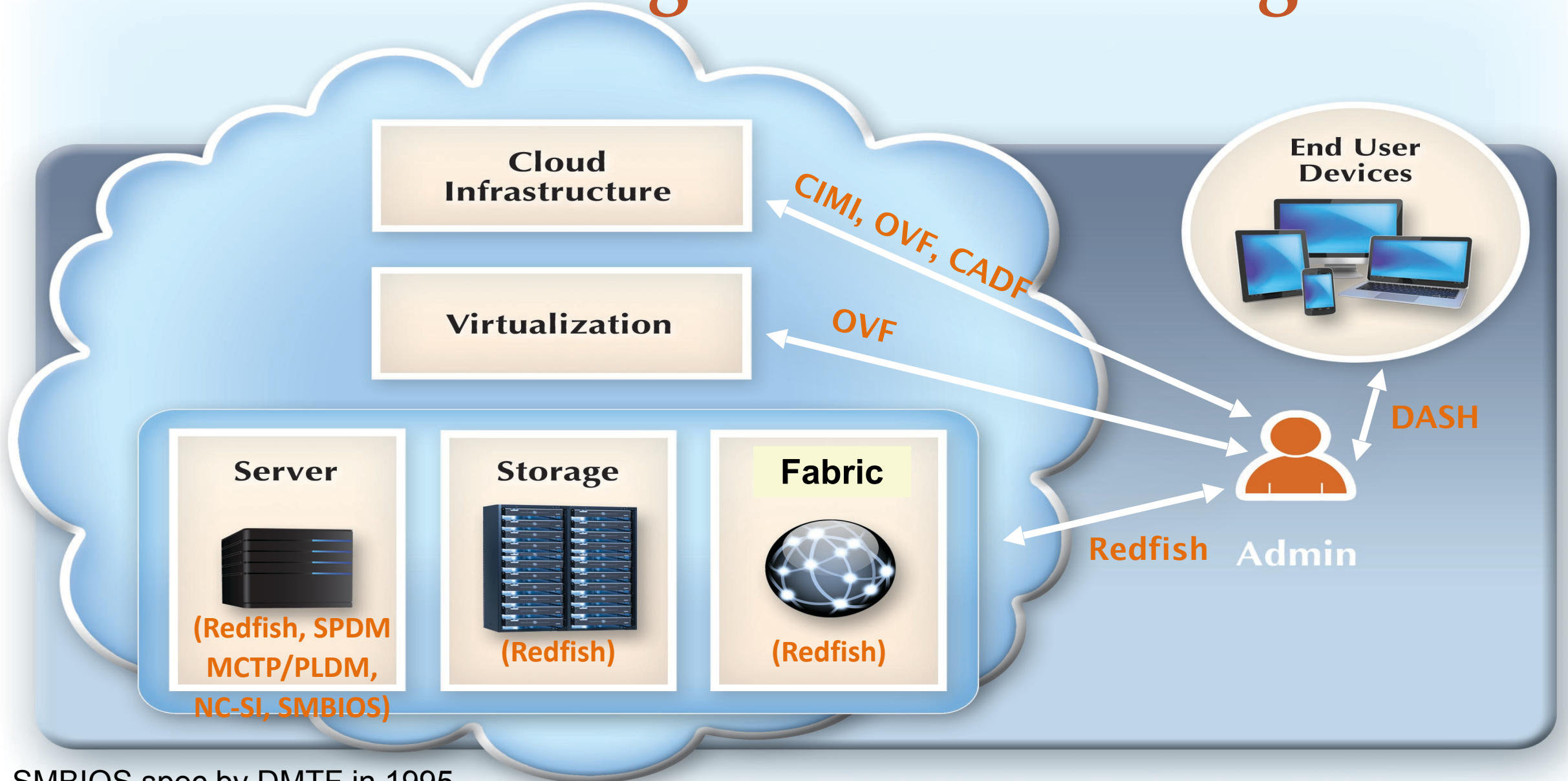
John Leung (Intel)
October 2024
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DMTF – A Manageability Standards Organization

- WHO** Led by innovative, industry-leading companies, DMTF has a global presence with members in multiple countries.
- WHAT** DMTF standards support diverse emerging and traditional IT infrastructures including cloud, virtualization, network, servers and storage. A complete list is available at www.dmtf.org/standards.
- WHY** Nationally and internationally recognized by ANSI and ISO, DMTF standards enable a **more integrated and cost-effective approach to management through interoperable solutions.**
- HOW** 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.

DMTF Management Technologies





DMTF - International Standards Leader

- DMTF continues to grow its global presence
 - DMTF has a global presence with members in multiple countries
 - DMTF standards are recognized internationally - dmtf.org/about/register/apresources
- DMTF pursues an Open and Collaborative process
 - Industry feedback on standards are welcome via the DMTF Feedback Portal¹
 - Redfish discussion and questions occur on the Redfish bulletin board²
 - 695 members, 4047 posts
 - Open-source repositories maintained by DMTF for Redfish, PMCI and SPDM³
 - The industry has other source projects: LF OpenBMC, OpenStack Ironic, OCP PSME, OCP Device Manager, OpenFabric™ Sunfish⁴

¹dmtf.org/standards/feedback

²redfishforum.com

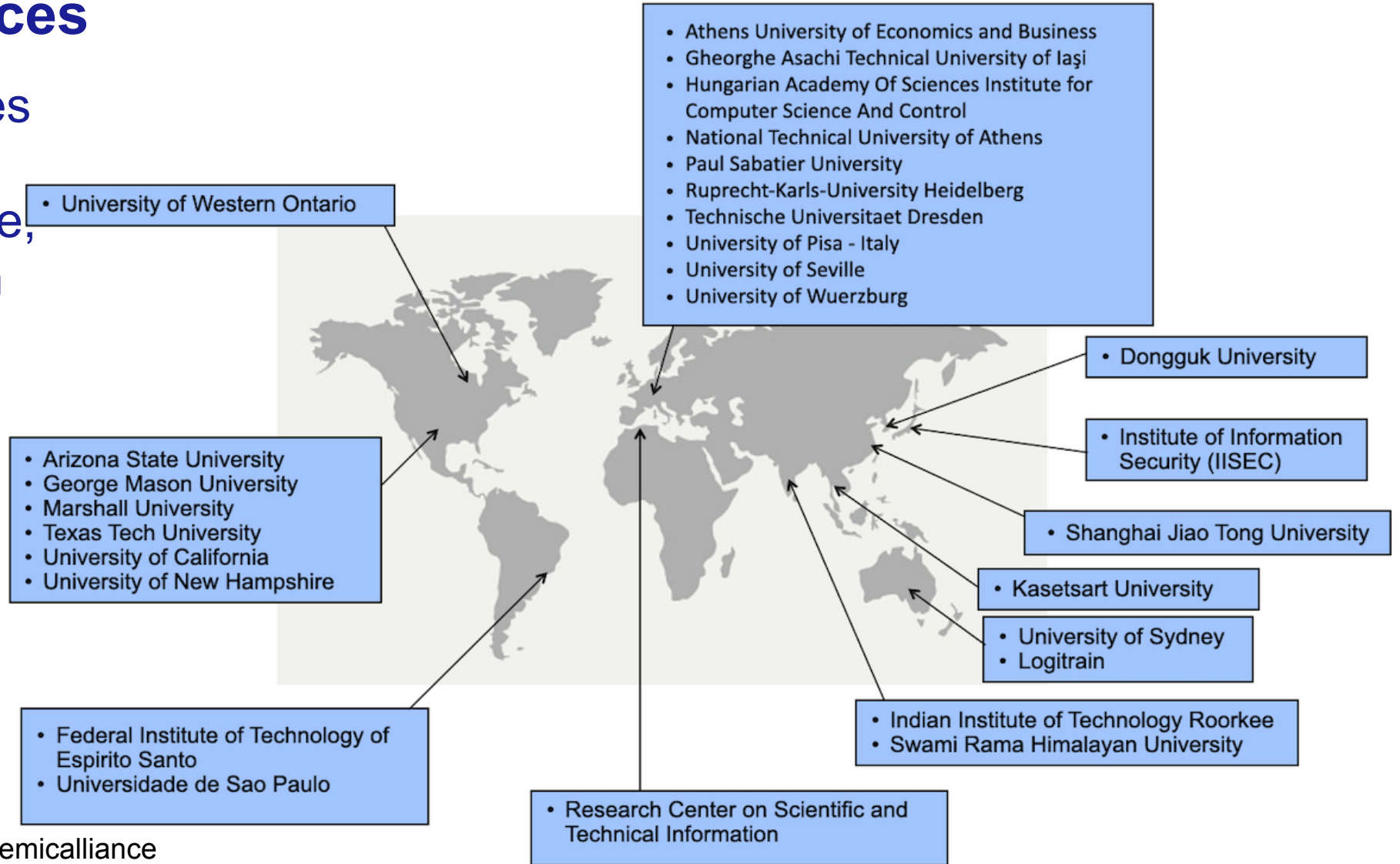
³github.com/dmtf

⁴dmtf.org/education/open-source



Academic Alliances

- Academic Alliances are formed with organizations to use, research, or teach DMTF standards
- 28 Academic Alliances over 14 countries





DMTF's Alliance Partners (24)

- DMTF forms alliances with other organizations to expand the use of DMTF standards
- The OCP-DMTF alliance partnership was formed in 2015, and was updated in 2023

Redfish



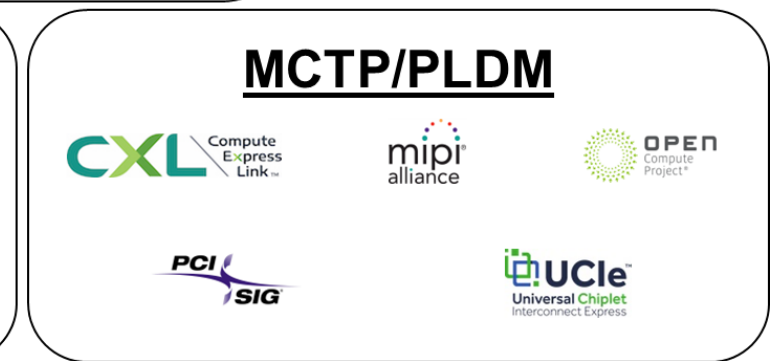
Cloud/CIM



SPDM

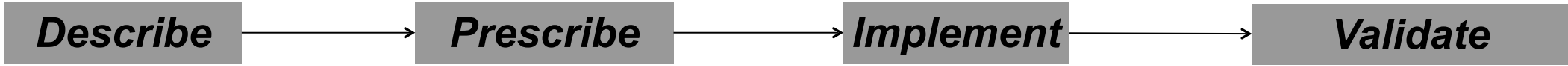


MCTP/PLDM

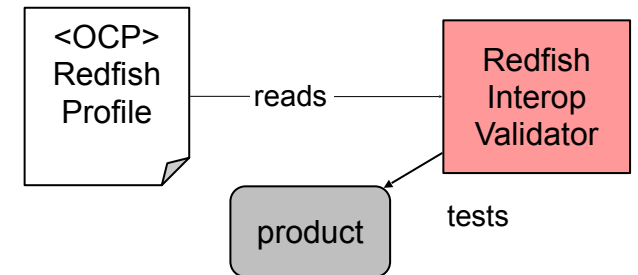
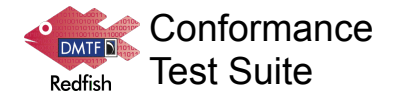
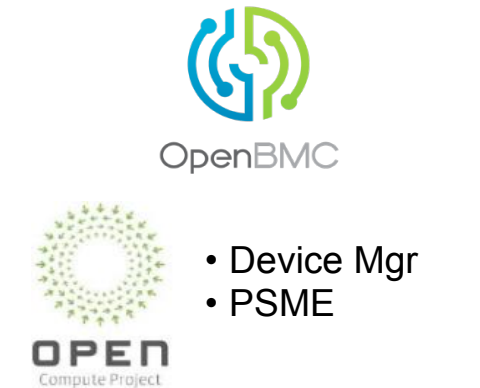
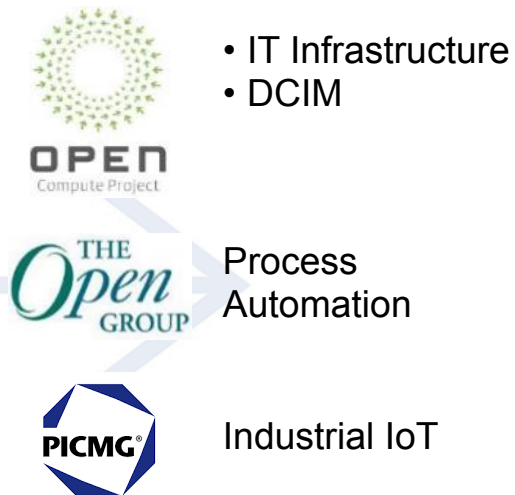
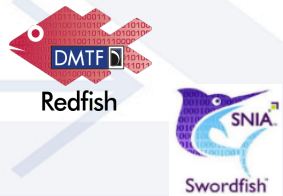


<https://www.dmtf.org/about/registers>

Standard Organization relationships



	Describe	Prescribe	Implement	Validate
What	Specification describing how resources can be managed	Prescribes rqmts for a usage domain	Delivers conformant product	Verifies conformance
Who	Standards expertise	Org with prescriptive power (\$)	Supply chain for ingredients and systems	Varies (self or formal test)





Consider Joining DMTF

- The work of the DMTF is funded through membership dues that are among the most cost effective in the industry
- By joining the DMTF, companies gain:
 - Early access and insights into the creation of DMTF specifications and underlying technologies
 - Reduced development, design and start-up costs with access to DMTF's collaborative development tools, experts and broad knowledge base
 - Opportunities to work alongside and interact directly with the industry's top specialists in interoperable management standards



Manageability Workshop Schedule

Times	Session
1:15 – 1:45	Redfish Telemetry
1:45 – 2:05	Redfish Tools (<i>or How to Use Redfish in the Real World</i>)
2:05 – 2:25	OpenBMC Support for Redfish
2:45 – 2:45	GPU Profiles for Hyperscale use case
2:45 – 3:00	Redfish Policy Model Proposal
3:00 – 3:25	Post Quantum Crypto (PQC) for SPDM
3:25 – 3: 40	BREAK (<i>Summit break is from 3:25–3:50</i>)
3:40 – 4:00	SPDM for TCP
4:00 – 4:15	Post Quantum Crypto (PQC) Impact on I2C
4:15 – 4:45	MCTP and PLDM Enhancements for Advanced OCP Use cases
4:45 – 5:00	FRU Format and Data Transfer



To learn how OCP is using DMTF standards

OCP Hardware Management Track (Oct 16, 8-11:30am)

Times	Session
8:00 – 8:20	An Overview of Workstreams of Hardware Management Project
8:20 – 8:40	Prescribing manageability for components, platforms and datacenter
8:40 – 9:00	Standardization of access to Crash and Runtime bulk telemetry
9:00 – 9:45	Standardizing Hyperscaler Requirements for Accelerators
9:45 – 10:05	SMC – Satellite Management Controller
10:05 – 10:30	Applying Model-based Systems Engineering for DC Lifecycle
10:30 – 11:00	Update of HW Fault Management Project Activities
11:00 – 11:30	Compute Resilience: Industry Update

For a list of sessions discussing DMTF standards - <https://bit.ly/3XPYQPv>