

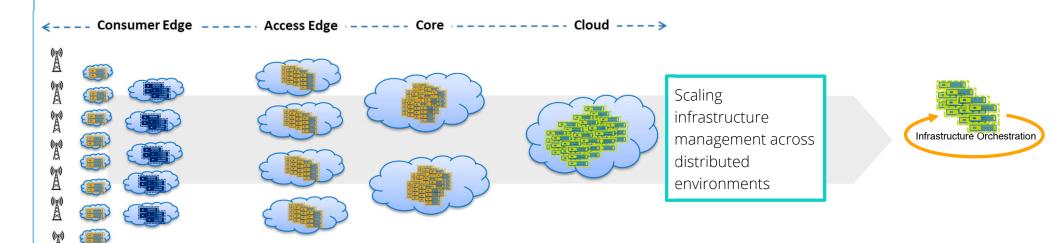
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Emergence Of Multi-Edge Computing Environments



Sources: GSMA Intelligence, ACG Research, 2019

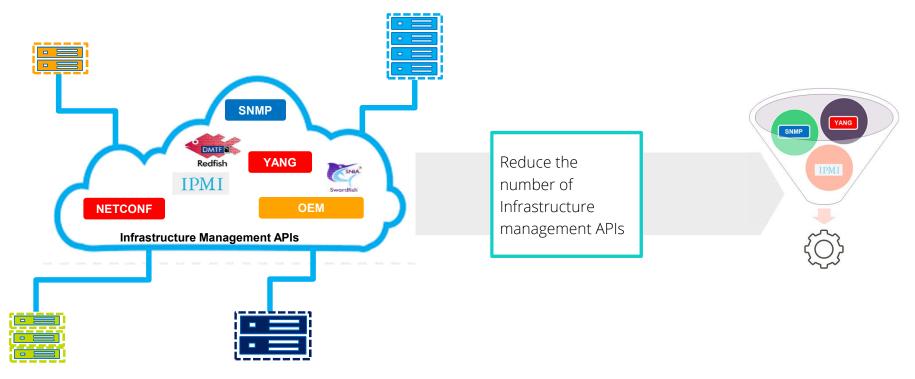
Increasing numbers of distributed data centers as businesses move to the Edge

Infrastructure Requirement Diversity



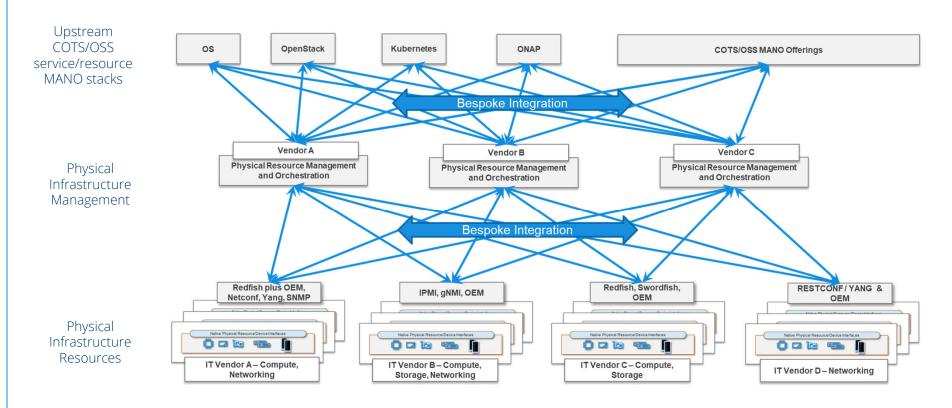
Workload and commercial demands can vary massively per location

Proliferation Of Infrastructure Management APIs



Minimal alignment across compute, storage, networking and vendor implementations

Lack of Physical Infrastructure Management Consistency

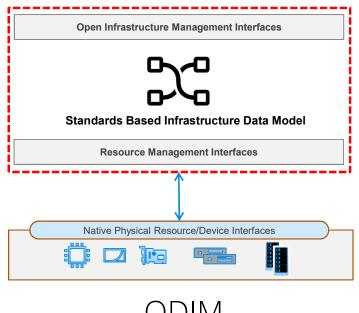


Too many integration points, rigid, brittle architectures

Open Distributed Infrastructure Management (ODIM)

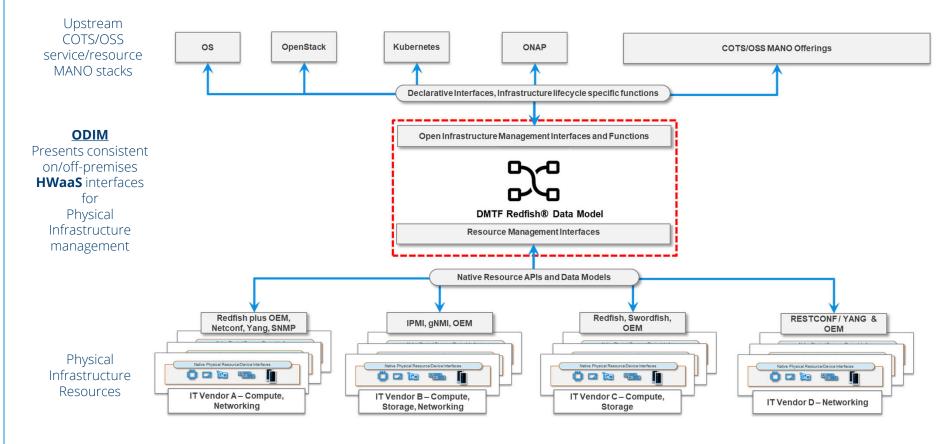
Open Source Objectives:

- Implement critical open source functional blocks that create a bridge to upper layers of orchestration as we transition to end-to-end automation
- Make use of a standardized, widely adopted data model for all infrastructure resources
- Provide consistent interfaces to discovering and consuming distributed, heterogeneous infrastructure resources





ODIM Intends to simplify and scale open infrastructure management



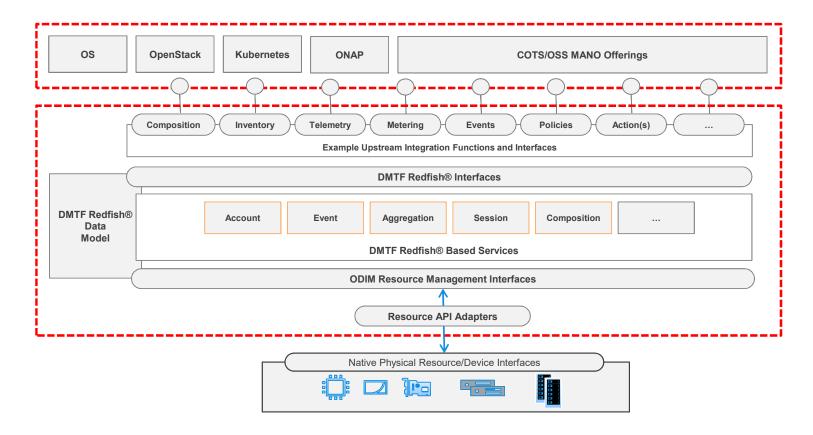
Reduce the number of disparate, reinvented shims, adaptors and plug-ins

ODIM: DMTF Redfish® compliant functions and interfaces

Upstream COTS/OSS service/resource MANO stacks

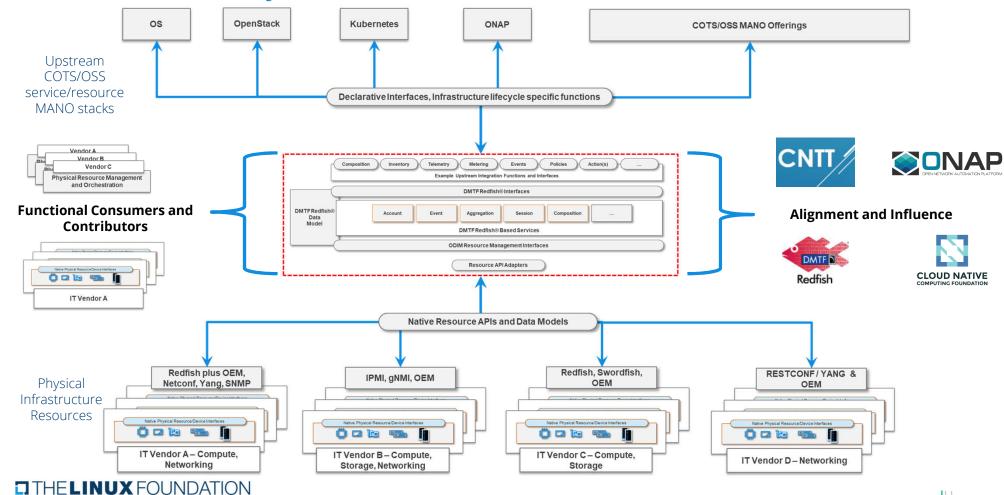
ODIM

Presents consistent on/off-premises **HWaaS** interfaces for Physical Infrastructure management





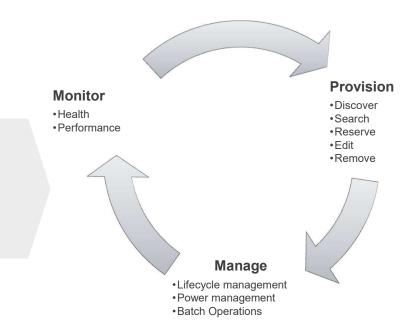
ODIM community consumers and contributors



Key Use Cases

Project-wide use cases enable:

- Multi-site, multi-vendor physical infrastructure management
- Remote distributed management across multiple deployment locations
- Vendor-neutral discovery of infrastructure resources and their capabilities
- Physical infrastructure closed-loop management automation



Infrastructure Lifecycle Use Cases

Starting Assumptions

- DMTF Redfish® APIs and data model are foundational to ODIM
- DMTF Redfish® data model enables a consistent, aggregated physical view across all ODIM management functions
- Downstream physical infrastructure resources may not be DMTF Redfish® aligned and the architecture will need to accommodate this
- ODIM upstream integration APIs don't need to be exposed via DMTF Redfish® bindings
- Initial focus will be on Compute, Storage, Acceleration and Fabrics

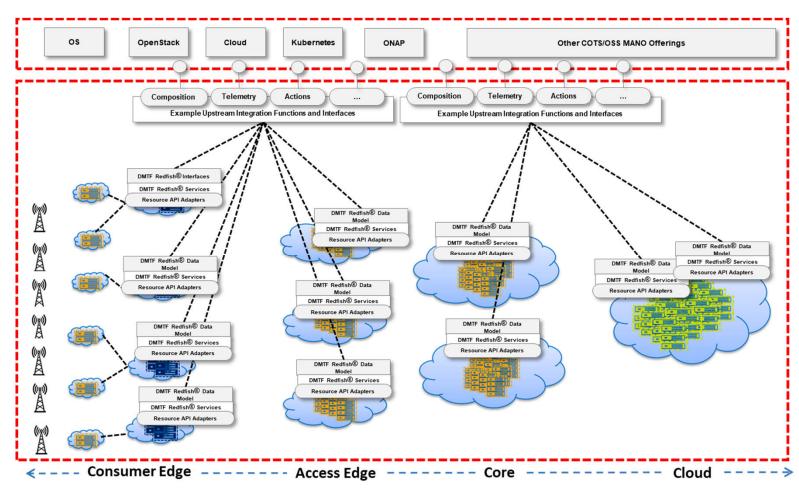


Functional distribution scales infrastructure management

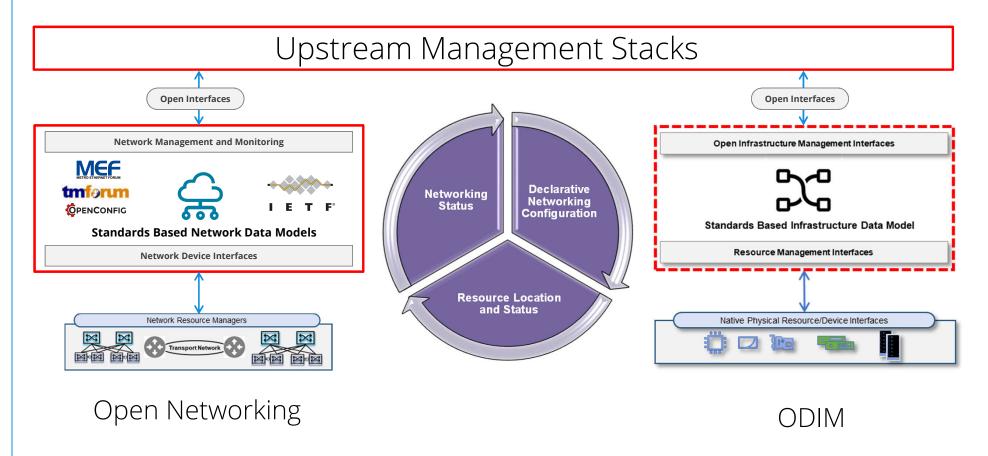
Upstream COTS/OSS service/resource MANO stacks

ODIM

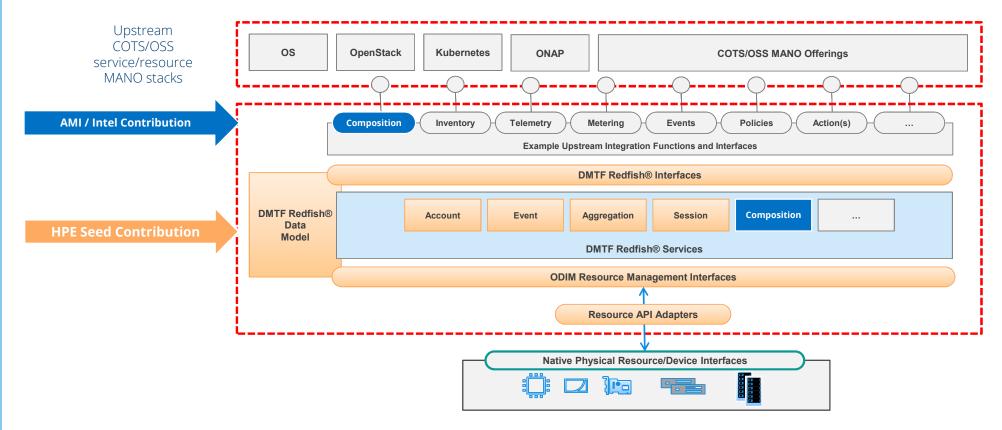
Infrastructure
Management
Functions and
interfaces distributed
for open, standards
based scalability



ODIM is Complementary to Networking Standards



Project Seed Code





Formation Logistics

- An independent **unfunded project** under the Linux Foundation, not part of any LF "umbrella" community.
- Aligned with other emerging infrastructure related activities
- Community Open Invitation Webinars June 30 (vendors) & July 8 (End Users+ Open)
- Once the project has traction, will determine whether to join one of the existing LF umbrella communities or to establish a new one.



ODIM Governance (Proposed)

- Governance Structure
 - Technical Steering Committee (TSC)
- Initially Participating Company Benefits
 - > Guaranteed seats on TSC for the first 4 releases
 - Opportunity to shape architecture and output/deliverables
 - Simple Majority Voting for Ratification, other decisions



ODIM Community Participants

ODIM Community



- Communications Services Providers
- Enterprises
- Cloud Service Providers
- Managed Hosting
- TEMs
- IT Vendors
- Orchestration Software Providers

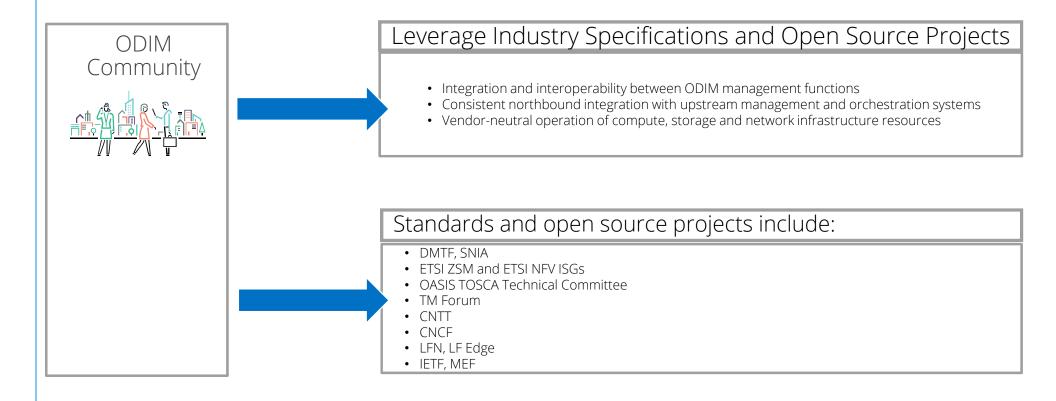
Critical to have a cross section of stakeholders

<u>Advantages</u>

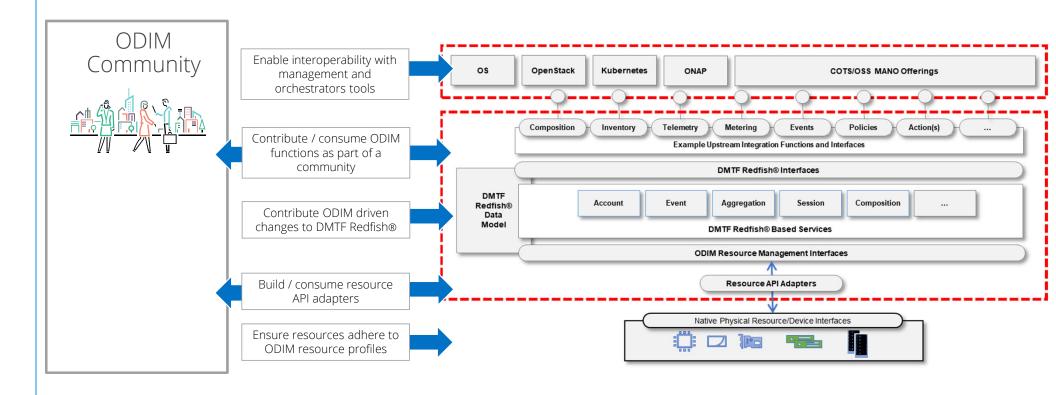
- Leveled playing field
- Room for value-add and differentiation
- Influence open standards
- Time to market
- Vendor neutrality
- Easier and more scalable management solutions
- Influencing features



Use Of Industry Standards And Open Source



ODIM Contribution Areas





ODIM Status

- The project has been created in the LF as a series project on June 11th
- The target date for the initial participants to meet and form the TSC is July 15th.
- The target date for aggregation seed code will be contributed by HPE on July 15th.
- Seed code for composition will be contributed by AMI within three months
- We invite community and TSC participation.
- Mailing list: https://lists.odim.io/g/odim-general





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