



LFN Developer & Testing Forum

ODIM Release 21.01

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TSC Member - Jonas Arndt

Agenda

- Very Short Intro to ODIM
- Release 21.01 Overview
- Next Release Plans
- Release Process
- Q&A

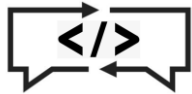
ODIM Community



- A Linux Foundation Project
- Part of LF Networking (pending)
- Formed in July, 2020
- First release – January, 2021

DMTF Redfish® APIs and data model are foundational to ODIM

- ODIM-exposed interfaces are based on DMTF Redfish® specification
- ODIM abstracts downstream physical infrastructure that is not DMTF Redfish® aligned
- Initial focus is on Compute, Storage, Acceleration and Fabrics APIs



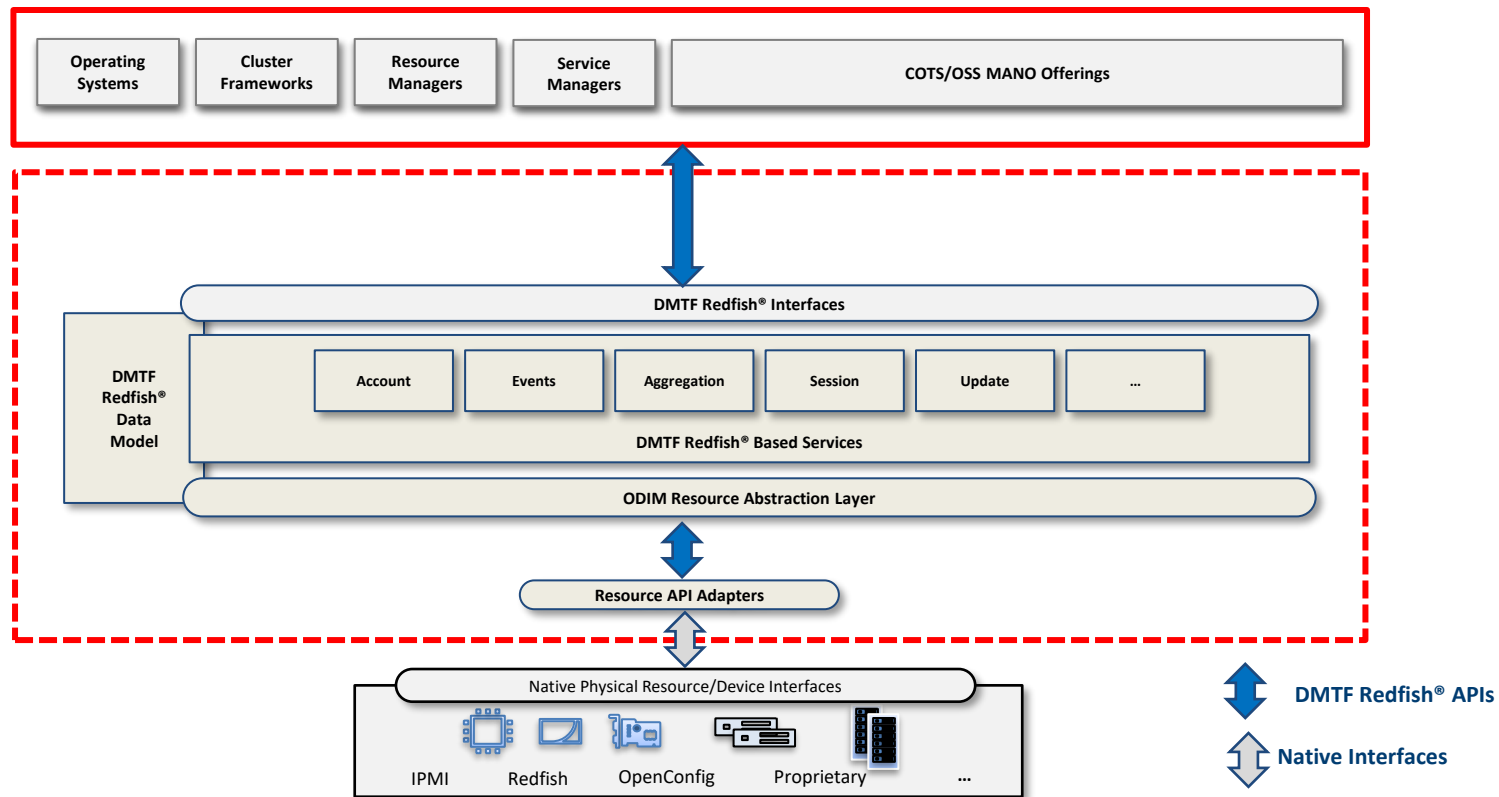
What does ODIM enable?

- **Abstraction/Translation** – Clients don't see differences in vendors' Redfish implementation or management protocols.
- **Aggregation** – ODIM aggregates all resources across the datacenter. No knowledge of IP addresses or credentials needed. It also allows for bulk operations on aggregated resources
- **Proxy** – ODIM can be multi-homed so clients don't need to be on the management network. Enables centralization of higher-level functions.

ODIM Architecture

Upstream
COTS/OSS Management
Clients/Users

ODIM
Presents consistent
on/off-premises
HWaaS interfaces for
physical infrastructure
management



Release 21.01 Overview

- Docker Based Installation
 - K8S planned for next release
- Plugin support
 - Generic Redfish & Unmanaged Rack
- Rich set of Redfish APIs and Services
- Actions on collection of resources



Redfish Services in 21.01

- Aggregation Service
- Event Service
- Session / Account Service
- Task Management for long running operations
- Update Service – SimpleUpdate
- Registers

Release 21.01 GRF Plugin

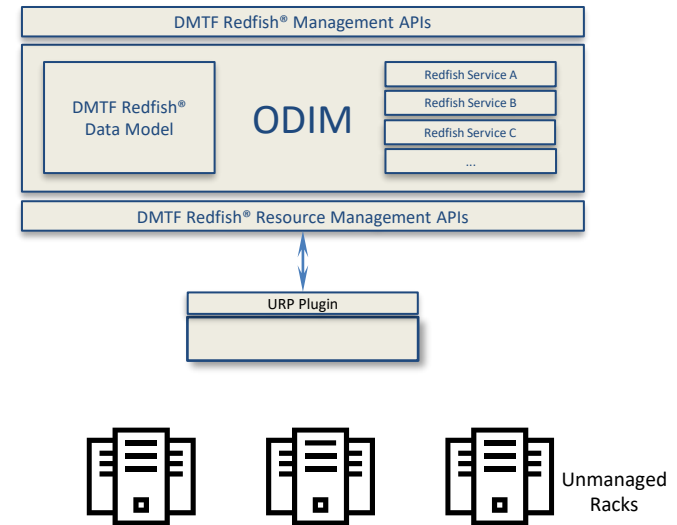
GRF – Generic Redfish

- No Vendor Adaptation/Translation
- Supports most Redfish Operations/APIs
- Serves as a Plugin Template
 - Can be used with various degrees of success for different servers as well
- Is the base for the ongoing development of the upcoming Dell Plugin

Release 21.01 URP Plugin

URP – Unmanaged Rack Plugin

- Unmanaged rack => Rack without manager
- URP enables topology information
 - In what rack, row and isle is a server residing?
 - “Contains property” and “Location” object are key
- Key for port map and connectivity information
 - Where is the switch that this server port is connected to?
- Manages multiple unmanaged racks
 - Local DB



Plans for Release 21.08

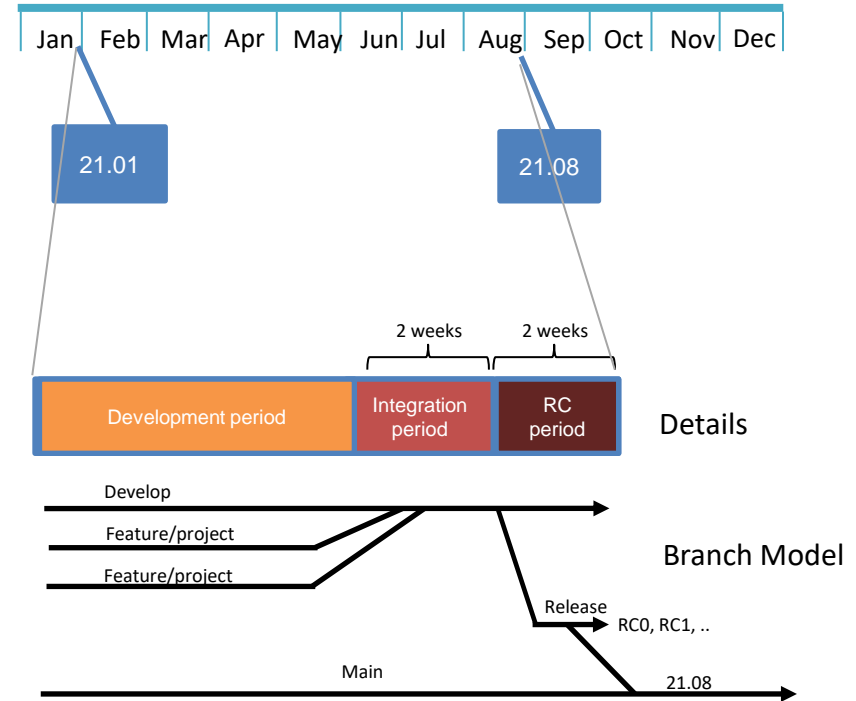
- Dell Plugin
 - Currently in PluginDell_Issue-317 branch
 - Collaboration between Intel and HPE
 - Looking for more collaborators
- BMC Emulator
 - Intel will contribute
- Composition Service
 - AMI will contribute
- Cisco ACI plugin
 - Utilize Redfish Fabric model
 - Details being worked on



ODIM
OPEN DISTRIBUTED
INFRASTRUCTURE MANAGEMENT

ODIM Release Process

- 2 Releases 2021
 - ✓ Jan, August
 - ✓ Might be revised 2022
- No maintenance releases
- 2 weeks Integration period 4 weeks prior to release
- Release Candidate (RC) period 2 weeks before release
 - ✓ Separate release branch during RC period



Would you like to know more?

- Additional LFN DTF Session
 - ODIM Build & Run
 - ODIM Use Cases for ONAP
- We invite community and TSC participation
 - Website: <https://odim.io/>
 - WIKI: <https://wiki.odim.io>
 - Mailing list: <https://lists.odim.io/g/odim-general>

A background image showing a view of Earth from space. The sun is visible on the left, creating a bright glow and lens flare effect. The Earth's surface shows continents and oceans, with a thin blue atmosphere visible at the horizon.

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Q & A

A background image showing a view of Earth from space. The sun is visible on the left, creating a bright glow and lens flare effect. The Earth's surface shows continents, oceans, and clouds. The text is overlaid on this background.

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Backups

Click to edit title

- Click to edit text
 - Second level
 - Third level
 - Fourth level
 - » Fifth level



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