ODIM and Infrastructure Management

Update for 5G Demo and Super blueprint

June 1, 2021

How ODIM can help with 5G infrastructure challenges

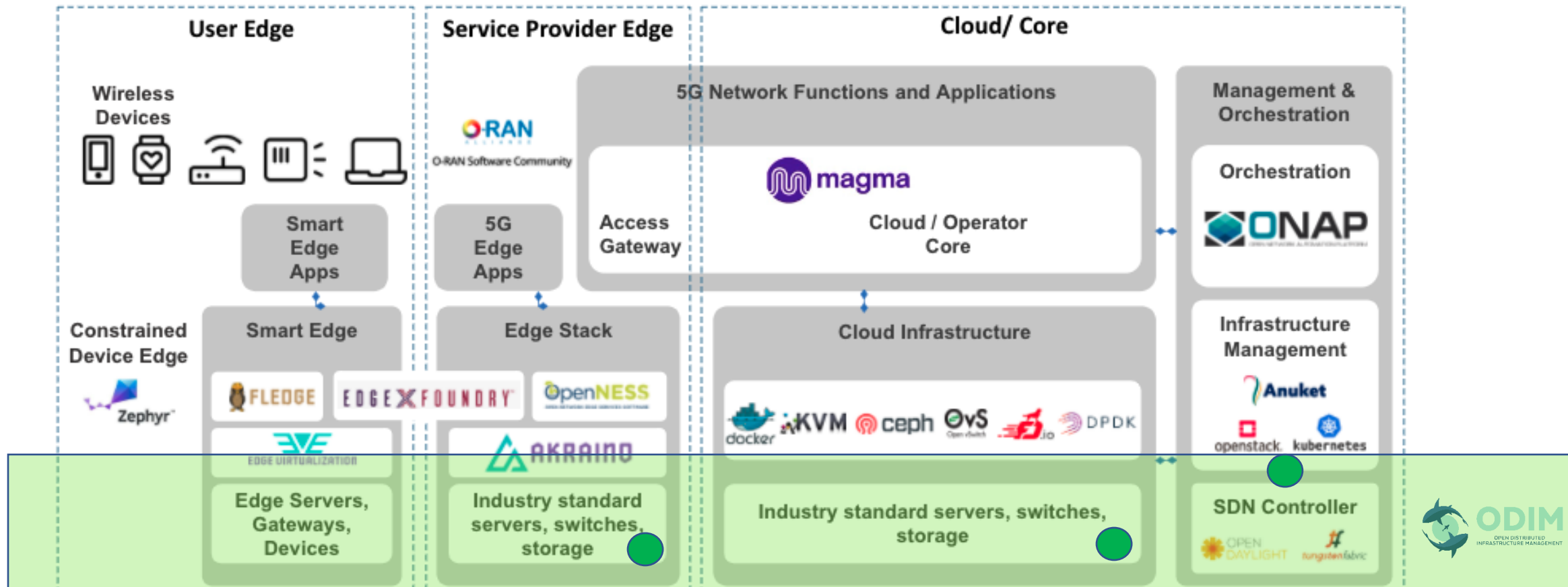**5G Infrastructure Challenges**

- Multi-vendor, heterogeneous HW platforms with a wide variety of management APIs

- Increasing number of distributed data centers (Geographical redundancy, country wide low latency coverage, Edge compute system)

- Specific deployment requirements including scale up needs, edge deployments, closed solutions and Live deployment scenarios

- Disaggregation with management of physical infrastructure components and virtual infrastructure

ODIM Solution

- Abstraction to a vendor neutral northbound API to enable one HWaaS interface to infrastructure management solution

- Aggregation of resources

- Operations on Aggregated resources

- Works together with Open Source virtual infrastructure management

- Handles the interfaces to physical resources (Open and Vendor specific solutions)

- Open & Expandable (Plug-in, Apache 2.0)
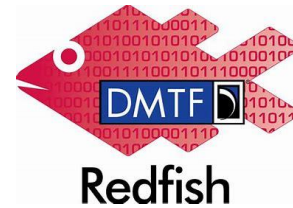
ODIM in the 5G Super Blueprint - Draft

Vendor specific solutions

Management & Orchestration

Orchestration

ONAP
OPEN NETWORK AUTOMATION PLATFORM

Infrastructure Management

Anuket

openstack™

kubernetes

DMTF
Redfish

Control Policy

Exposure Visibility

ODIM
OPEN DISTRIBUTED INFRASTRUCTURE MANAGEMENT

Native physical interfaces (Redfish, IPMI, Netconf etc.)

Industry standard Servers, Switches, Storage
Edge Servers

Industry standard Servers, Switches, Storage