OCP FUTURE TECHNOLOGIES SYMPOSIUM

OCP Global Summit

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Cloud Service Model (CSM)

Murugasamy (Sammy) Nachimuthu,
OCP FTI-CSM WG Chair,
Sr. Principal Engineer, Intel Corporation

Need for at scale remote service model

- Cloud utilizes Open Compute Platforms and other proprietary hardware to deliver services
- Cloud Platform Life Cycle involves firmware updates, peripheral updates, reconfiguration, power & performance management, debug/repair, decommission, etc.
- During the life cycle of the platform, telemetry data are collected and analyzed to make service decisions
- Assistance from hardware, firmware and software vendors would result in better decision making
- Parts of the hardware and firmware management architecture are standardized in OCP, but at scale service operation constructs are not standardized in OCP

Need for at scale remote service model

- Industry needs new framework & standards, for communication of data and procedures between large installation of hosts (servers) and external vendor of support
- Scale beyond single entity, include hyperscalers and vendors of different size

CSM WG Overview

CSM WG Purpose

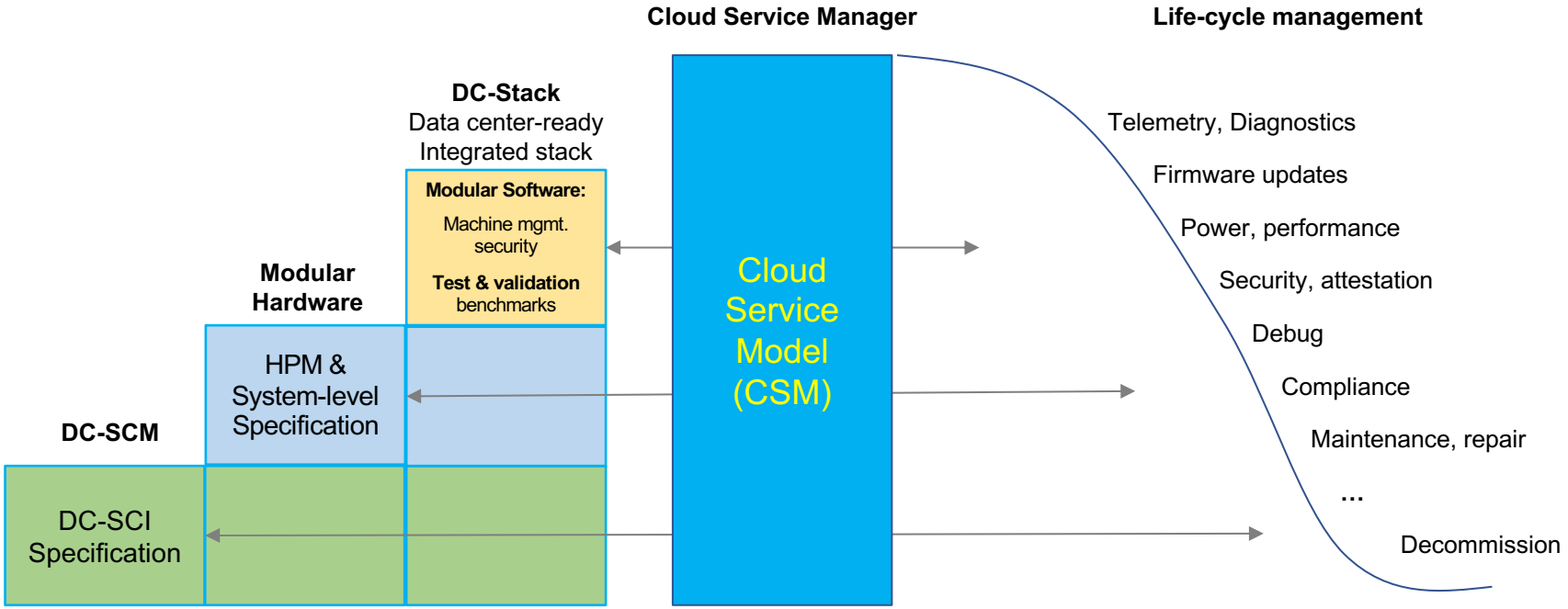
- Define comprehensive at scale remote service model (inclusive of different sizes)
- Standardize interfaces for at scale remote service model & enable added services
- Deliver services across the boundaries of ownership
- Ability to integrate vendor tools using common framework

Major Challenges

- Requirement spans across many areas of Life-cycle management
- Influence spans across multiple OCP disciplines
- Build a complementary toolset to existing solutions, rather than replacing them
- To service different size of customers

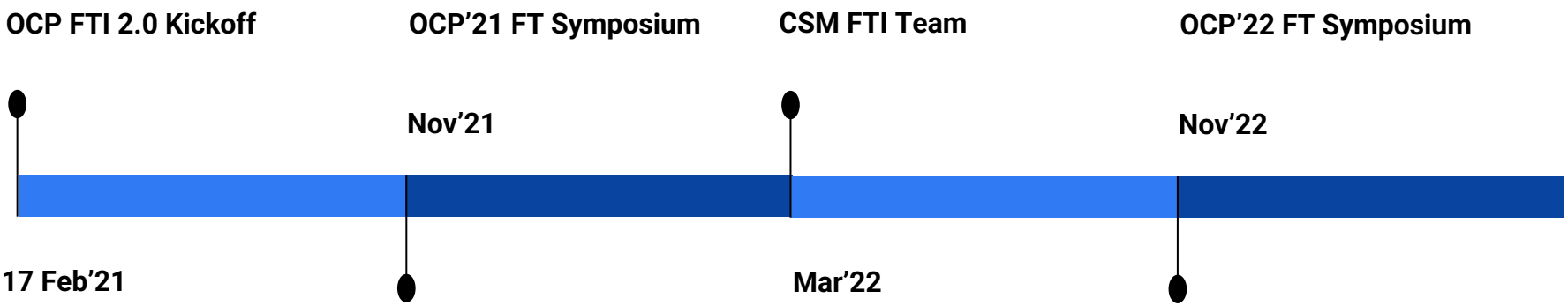
DC-Stack: Datacenter-ready Secure Control Interface
DC-SCM: Datacenter Secure Control Module

Cloud Service Model



Cloud Services utilizes OCP HW and FW services

Cloud Service Model Roadmap



Cloud Service Model – Breakout Sessions

Session	Time	Presenter
Cloud Service Model Overview	2:30 – 2:35pm	Sammy Nachimuthu, Intel Corporation
Telemetry/Diagnostics Remote Service Model	2:35 – 2:55pm	Panos Christeas, Leandro Silva, Facebook
Inband Management Agent (IMA)	2:55 - 3:15pm	George Kola, Google
Device Management Control (DMC)	3:15 – 3:35pm	Bumjun (Bjay) Kim, Changho Choi, Samsung
Route to Open Infrastructure Management (Panel Discussion)	3:35 – 4:00pm	Facebook, Google, Microsoft, Intel, Samsung

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TOTAL SOLUTIONS

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