

Charter for OCP Hardware Management Project

Dec 2019

Overview

The **Hardware Management Project** creates designs and specifications to enable interoperable manageability for Open Compute platforms. This project provides a common foundation from providing manageability for other Open Compute projects. Deliverables from this project will include:

- Baseline hardware manageability requirements
- Out-of-band manageability requirements
- Host interface requirements for in-band entities to access out-of-band manageability capabilities
- Conformance and interoperability requirements

The **OpenRMC Subproject** creates designs and specifications to enable interoperable manageability for Open Compute rack managers. Deliverables from this project will include:

- Specification for the interface exposed by the rack manager to the rest of the datacenter
- Requirements on the interface between the rack manager and the on-platform components
- An open-source implementation of the rack manager controller software

In-Scope Activities

The **Hardware Management Project** will focus on:

- Standard manageability interfaces, which include the following capabilities
 - Resource discovery
 - Configuration and update
 - Telemetry
 - Control
 - Asynchronous eventing and notification
 - Composition
- Baseline manageability capabilities across the following Open Compute projects:
 - Server
 - Storage
 - Networking
 - Telco
 - Data center facility
 - Rack and power
- Baseboard management controller (BMC) requirements
- Interoperability and conformance to manageability specifications

- Provide guidance and feedback to other Open Compute projects extending the baseline manageability capabilities
- Oversee the OCP's OCP-Profiles repository
- Hardware fault management requirements
 - Standardizing system behavior under hardware failures
 - Define Key base-line requirements of managing HW errors to achieve target service level
 - Provide reference and guidance on system hardware failure management

The **OpenRMC subproject** shall specify manageability capability of the rack management controller (RMC). The subproject's activities include:

- Specifying the northbound interface for the RMC
- Specifying the southbound interface requirements for the RMC
- Overseeing the OCP's Rack-Manager source repository

Out-of-Scope Activities

The following areas will be out of scope for the Hardware Management Project

- Platform specific manageability capabilities
- Software or application management