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