

Profile for managing Storage

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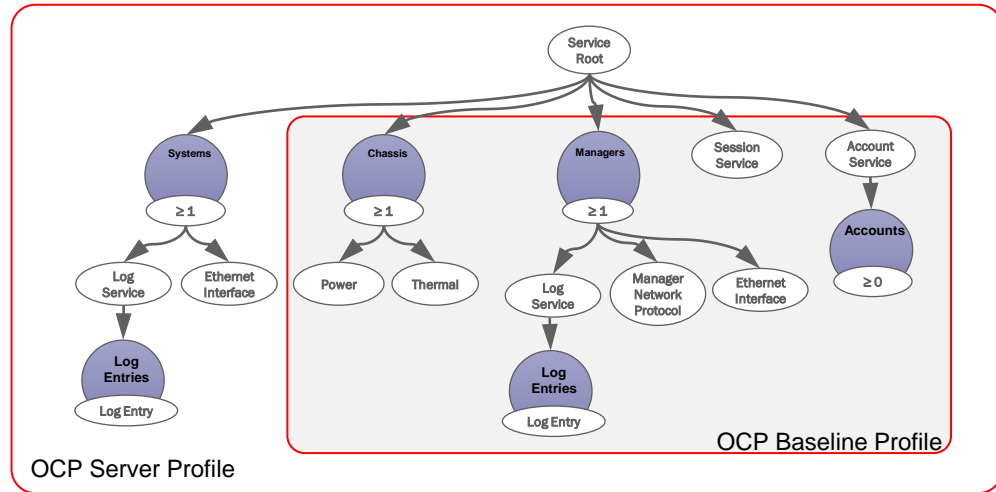
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Overview

- Adding local storage to Server Profile
- Profile for storage platforms

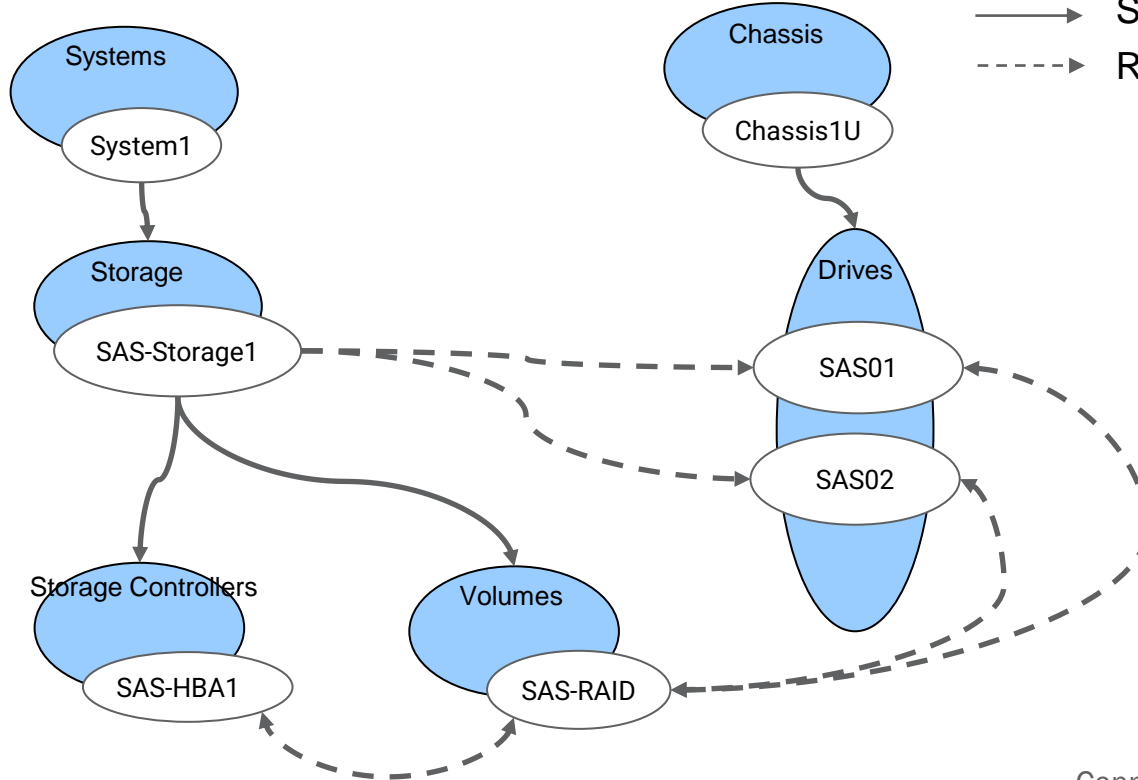
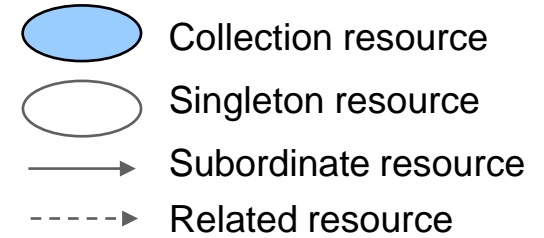




Local Storage Model

- The Storage resource within a ComputerSystem represents a storage subsystem available to that system
- The Redfish model contains the following resources
 - **Storage:** The overall subsystem; shows the drives, volumes, and controllers that belong to the subsystem
 - **Drive:** The physical media for the storage; contains manufacturing information and capabilities of the hardware
 - **Volume:** The logical storage presented to a system; contains capacity, RAID information, and shows the drives providing the storage
 - **StorageController:** The controller providing access to the storage, such as a SAS controller
- The manageability of local storage is proposed for OCP Server Profile v1.1

Local Storage (SAS RAID)



Storage Model

- SNIA has extended the Redfish model to manage advanced storage capabilities and platforms - Swordfish
 - Swordfish was released in 2016
 - Recognized as an international standard in 2021¹
- The following storage technologies can be managed with Swordfish
 - Storage arrays
 - Ethernet attached drives, standalone and with EBOF enclosures
 - NVMe, and NVMe over fabric devices

SNIA = Storage Network Industry Association, snia.org

¹<https://www.iso.org/standard/81872.html>



Next Steps

- Submit simple storage profile for contribution, with Usage Guide
 - Initial focus on simple, direct-attach drive functionality
- Develop path to support increasingly more complex configurations



Thank you!

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