



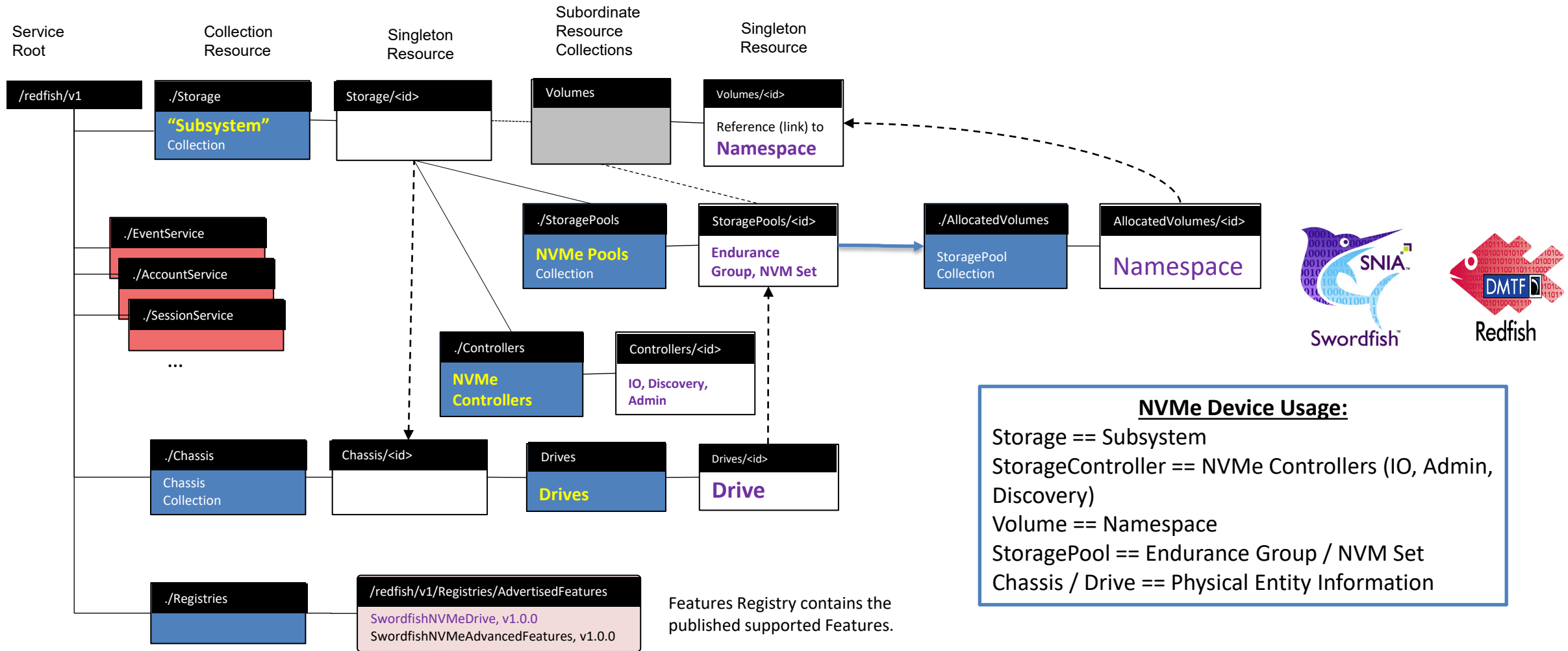
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# SNIA Swordfish™: In Action

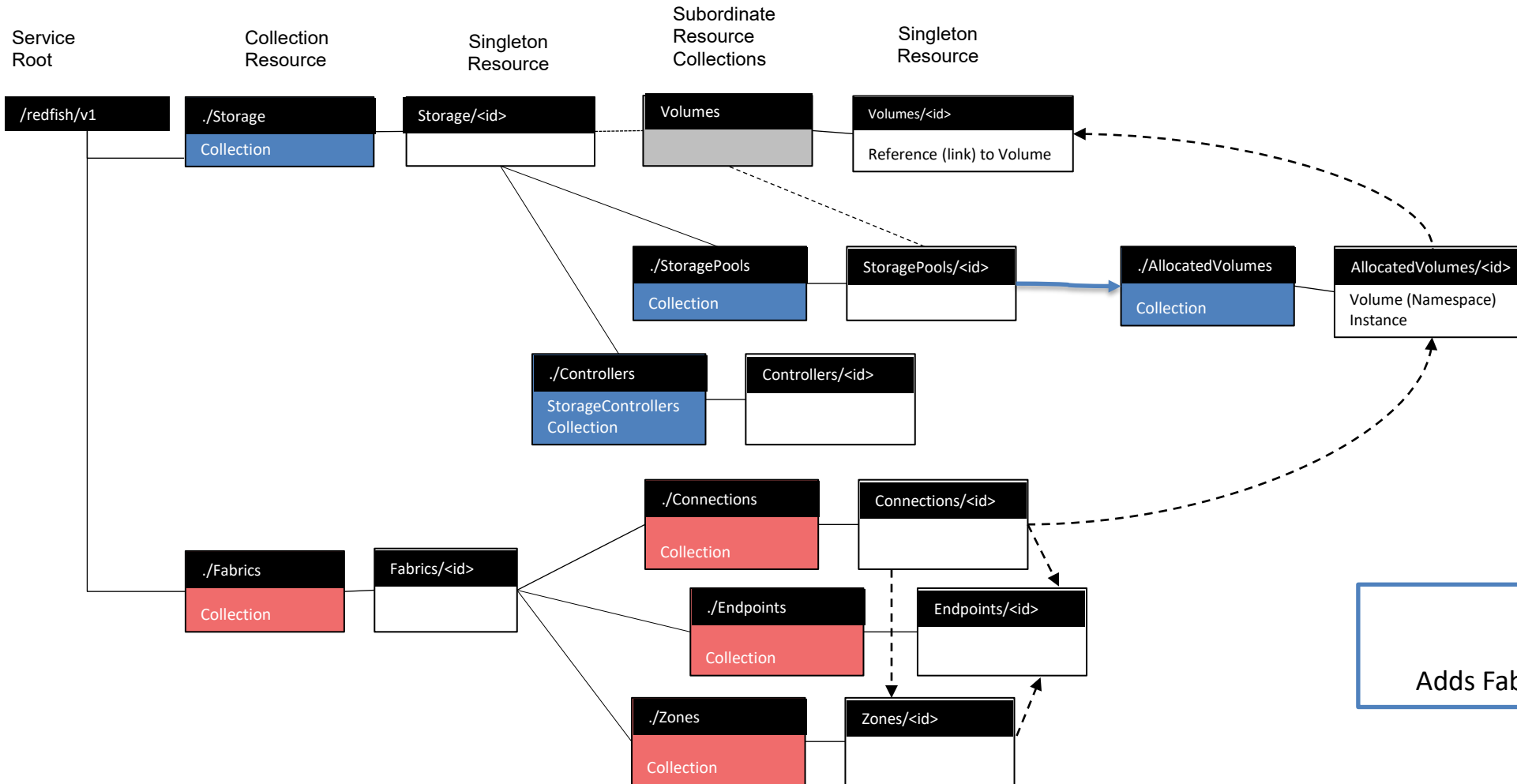
Richelle Ahlvers, Storage Technology Enabling Architect

intel®

# UNDERSTANDING THE REST HIERARCHY: REDFISH / SWORDFISH FOR STORAGE



# REDFISH/SWORDFISH HIERARCHY: ADDING FABRICS FOR ACCESS RIGHTS MANAGEMENT



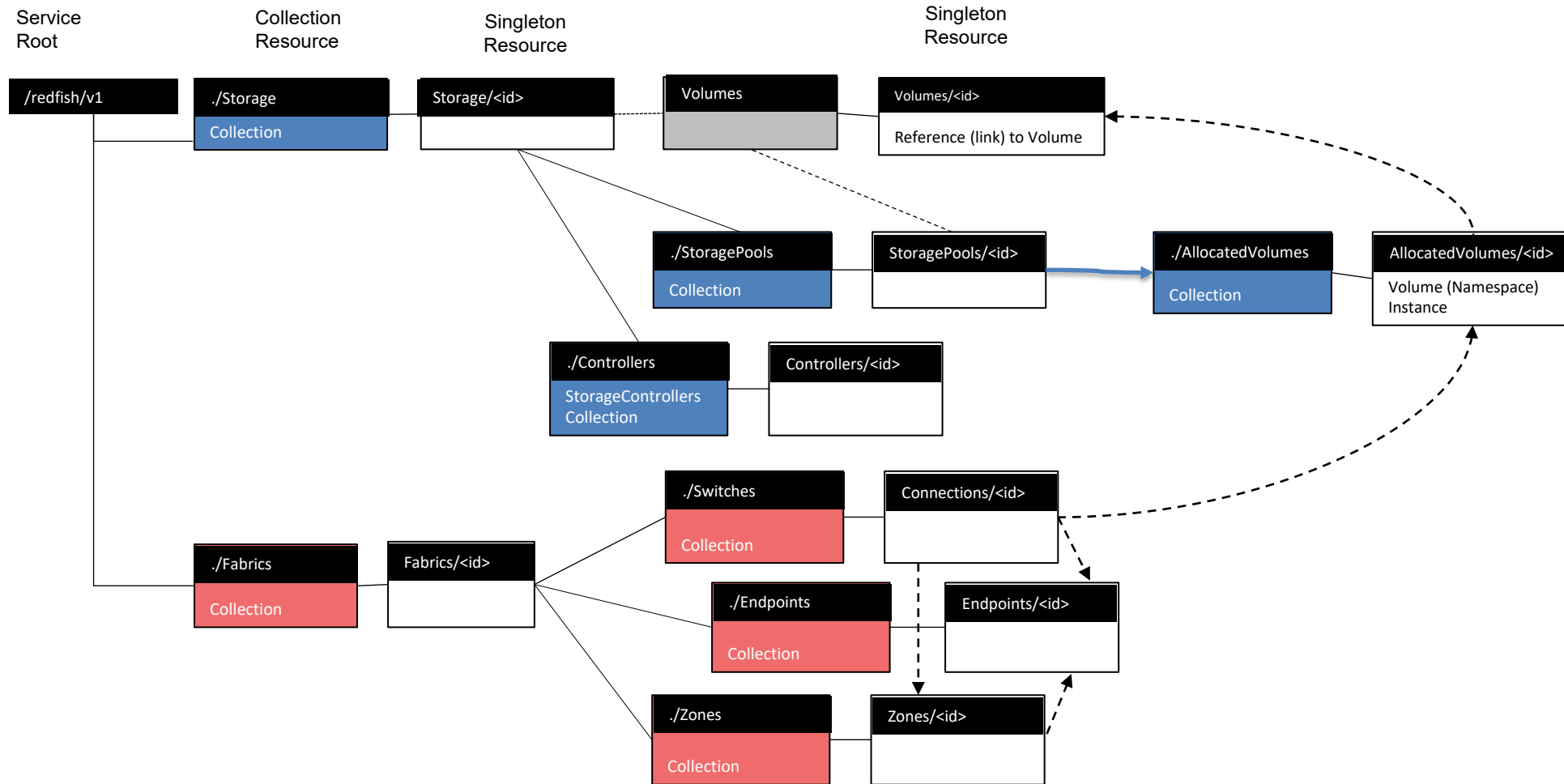
Redfish



Swordfish™

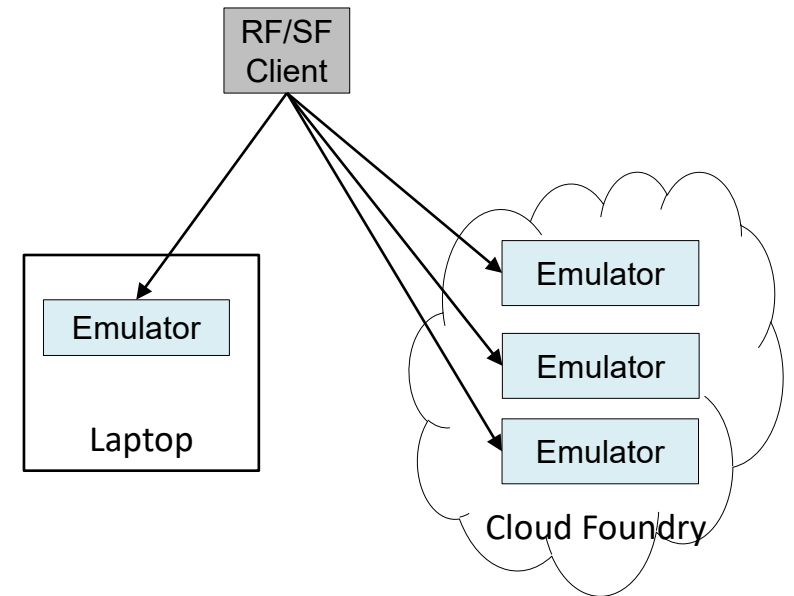
**NVMe oF:**  
Adds Fabric and access rights

# REDFISH/SWORDFISH HIERARCHY: EXTENDING FABRICS FOR CONNECTIVITY MANAGEMENT



# REDFISH-SWORDFISH EMULATOR CAPABILITIES

- Open source (python)
  - DMTF: Redfish Interface Emulator<sup>1</sup>
  - SNIA: Swordfish API Emulator<sup>2</sup>
- Rapid instantiation
  - Static emulation requires copying mockup<sup>3</sup>
  - Dynamic emulation – coded Python objects
    - Auto-generators exists to create Python code from mockup files
- Multiple emulation instantiations
  - Can be hosted standalone, in a cloud foundry, or as docker container

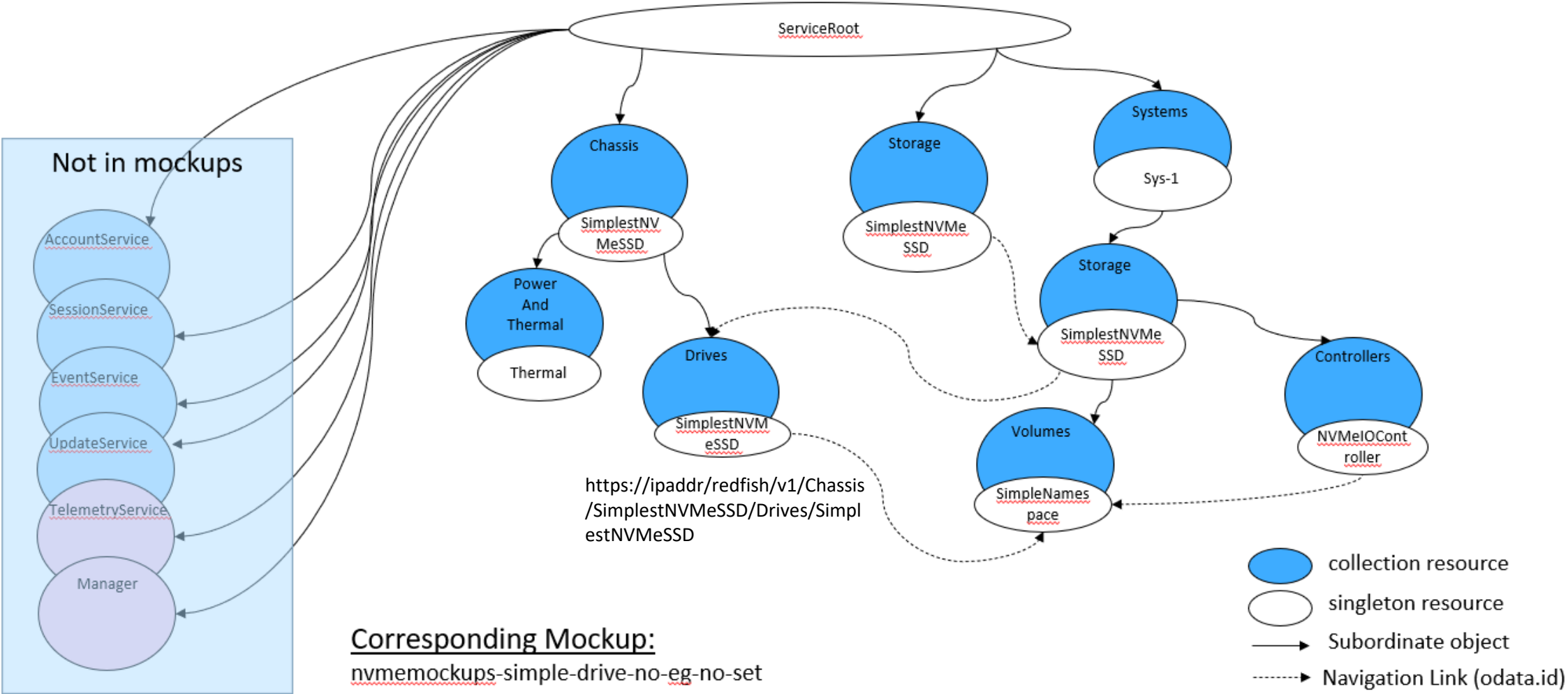


<sup>1</sup>[github.com/dmtf](https://github.com/dmtf)

<sup>2</sup>[github.com/snia](https://github.com/snia)

<sup>3</sup><https://redfish.dmtf.org/redfish/v1>

# NAVIGATING THE SYSTEM: NVMe SSD



**Corresponding Mockup:**  
[nvmemockups-simple-drive-no-eg-no-set](#)

# WHERE TO FIND MORE INFO...

## SNIA Swordfish™

- **Swordfish Standards**
  - Schemas, Specs, Mockups, User and Practical Guide`s, ... <https://www.snia.org/swordfish>
- **Swordfish Specification Forum**
  - Ask and answer questions about Swordfish
  - <http://swordfishforum.com/>
- **Scalable Storage Management (SSM) TWG**
  - Technical Work Group that defines Swordfish
  - Influence the next generation of the Swordfish standard
  - Join SNIA & participate: [https://www.snia.org/member\\_com/join-SNIA](https://www.snia.org/member_com/join-SNIA)
- **Join the SNIA Storage Management Initiative**
  - Unifies the storage industry to develop and standardize interoperable storage management technologies
  - <https://www.snia.org/forums/smi/about/join>
- **Open-source projects on Github**
  - <https://github.com/SNIA>



## DMTF Redfish™

- **Redfish Standards**
  - Specifications, whitepapers, guides, ... <https://www.dmtf.org/standards/redfish>



## Open Fabric Management Framework

- **OFMF Working Group (OFMFWG)**
  - Description & Links <https://www.openfabrics.org/working-groups/>
- **OFMFWG mailing list subscription**
  - <https://lists.openfabrics.org/mailman/listinfo/ofmfwg>
- **Join the Open Fabrics Alliance**
  - <https://www.openfabrics.org/membership-how-to-join/>



## NVM Express

- **Specifications**  
<https://nvmexpress.org/developers/>
- **Join:** <https://nvmexpress.org/join-nvme/>





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**THANK YOU**

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