SNIA Swordfish™: In Action

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intel®
UNDERSTANDING THE REST HIERARCHY:
REDFISH / SWORDFISH FOR STORAGE

Features Registry contains the published supported Features.

NVMe Device Usage:
Storage == Subsystem
StorageController == NVMe Controllers (IO, Admin, Discovery)
Volume == Namespace
StoragePool == Endurance Group / NVM Set
Chassis / Drive == Physical Entity Information
REDFISH/SWORDFISH HIERARCHY: ADDING FABRICS FOR ACCESS RIGHTS MANAGEMENT

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\(^1\)
  • SNIA: Swordfish API Emulator\(^2\)

• Rapid instantiation
  • Static emulation requires copying mockup\(^3\)
  • 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

\(^1\)github.com/dmtf
\(^2\)github.com/snia
\(^3\)https://redfish.dmtf.org/redfish/v1
WHERE TO FIND MORE INFO...

**SNIA Swordfish™**
- **Swordfish Standards**
  - Schemas, Specs, Mockups, User and Practical Guide`s, …  [https://www.snia.org/swordfish](https://www.snia.org/swordfish)
- **Swordfish Specification Forum**
  - Ask and answer questions about Swordfish
- **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](https://www.snia.org/forums/smi/about/join)
- **Open-source projects on Github**
  - [https://github.com/SNIA](https://github.com/SNIA)

**DMTF Redfish™**
- **Redfish Standards**
  - Specifications, whitepapers, guides,…  [https://www.dmtf.org/standards/redfish](https://www.dmtf.org/standards/redfish)

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

**NVM Express**
- **Specifications**
  - [https://nvmexpress.org/developers/](https://nvmexpress.org/developers/)
  - Join: [https://nvmexpress.org/join-nvme/](https://nvmexpress.org/join-nvme/)
THANK YOU
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