# SNIA

# Storage Networking Industry Association

## Technical Activities Update

August 2021

# SNIA Technical News:  New ISO Standard

- ISO/IEC 20919:2021 Linear Tape File System (LTFS) Format Specification
  - The LTFS Format Specification defines a file system format separate from any implementation on data storage media. Using this format, data is stored in LTFS Volumes. An LTFS Volume holds data files and corresponding metadata to completely describe the directory and file structures stored on the volume..

http://www.snia.org/ltfs

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# SNIA Technical News: New SNIA Standard

- ## Native NVMe-oF™ Drive Specification v1.1
  - This Native NVMe-oF™ Drive Specification describes the features and functions of a storage device class known as Native NVMe-oF Drives. It includes a taxonomy covering the scope of involved device capabilities.

http://www.snia.org/nvme

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# SNIA Technical News:  New SNIA Standard

- Swordfish Scalable Storage Management API Specification v1.2.2a
  - The Swordfish Scalable Storage Management API ("Swordfish") uses RESTful interface semantics and a standardized data model to provide a scalable, customer-centric interface for managing storage and related data services.

http://www.snia.org/swordfish

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# SNIA Technical News: New Public Review DRAFT

- Blockchain Interoperability Specification v0.5 rev 0.1
  - Blockchain Data & Storage Network Interoperability specification.

http://www.snia.org/publicreview

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# SNIA Technical News: New Public Review DRAFT

- Computational Storage Architecture and Programming Model v0.8 rev 0
  - This SNIA document defines recommended behavior for hardware and software that supports Computational Storage.

http://www.snia.org/publicreview

# SNIA Technical News:  New Public Review DRAFT

- Computational Storage API v0.5 rev 0
  - This SNIA Draft Standard defines the interface between an application and a Computational Storage device (CSx). For each CSx there will need to be a library that performs the mapping from the APIs in this specification and the CSx on the specific interface for that CSx.

http://www.snia.org/publicreview

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# SNIA Public Review Drafts

- Blockchain Interoperability Specification v0.5 rev 0.1
- Computational Storage Architecture and Programming Model v0.8 rev 0
- Computational Storage API v0.5 rev 0
- DRAFT CDMI Extensions and Profiles
  - Capabilities Selection Extension v2.0
  - CORS Extension v2.0
  - Data Affinity Extension v2.0
  - Extended Child Listing v2.0
  - Jobs v2.0
  - Partial Upload Extension v2.0

**Check them out!  -  Provide Feedback!**
*Participate in their development!*

**http://www.snia.org/publicreview**

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# Storage Developer Podcast:  Latest Episode

**This week's highlighted Podcast:**
**#151: Redfish Ecosystem for Storage** by  Jeff Hilland and Scott Bunker of Hewlett Packard Enterprise.

DMTF's Redfish® is a standard designed to deliver simple and secure management for converged, hybrid IT and the Software Defined Data Center (SDDC). This presentation will provide an overview of DMTF's Redfish standard. It will also provide an overview HPE's implementation of Redfish, focusing on their storage implementation and needs. HPE will provide insights into the benefits and challenges of the Redfish Storage model, including areas where functionality added to SNIA™ Swordfish is of interest for future releases.

Learning Objectives: Introduce the DMTF Redfish AP; Provide an overview of HPE's shipping Redfish Storage implementation; Understand where SNIA Swordfish is of interest for HPE's server-attach storage implementations

http://www.snia.org/podcasts

# Storage Developer Podcast:  Upcoming Episodes

- SkyhookDM: storage and management of tabular data in Ceph.

- Data Preservation & Retention 101

- Amazon FSx For Lustre Deep Dive and its importance in Machine Learning

- NVMe and NVMe-oF Configuration and Manageability with Swordfish and Redfish

- What's going on with NVMe? An Examination of New Technology Adoption

- Unlocking the Potential of Flash with the New Open Source Software-Enabled Flash™ API

- Next-Gen NVMe-oF Reference System: From Media to Network

- Real World Experiences With High Availability Storage Systems

http://www.snia.org/podcasts

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**https://www.storagedeveloper.org**

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# Geek Out on Storage: NVMe over Fabrics



## http://www.snia.org/geekout

# Important SNIA Links

- [http://www.snia.org/standards/](http://www.snia.org/standards/)
- [http://www.snia.org/software/](http://www.snia.org/software/)
- [http://www.snia.org/publicreview/](http://www.snia.org/publicreview/)
  - Draft SNIA Technical Work available for public review
- [http://www.snia.org/feedback/](http://www.snia.org/feedback/)
  - Public feedback submission form for draft SNIA Technical Work
- [http://www.snia.org/dictionary/](http://www.snia.org/dictionary/)
  - Current SNIA Dictionary
- [http://www.snia.org/library](http://www.snia.org/library)
  - Educational Library
- [http://www.sniacloud.org](http://www.sniacloud.org)
  - Latest news on SNIA Cloud activities
- [http://www.storagedeveloper.org](http://www.storagedeveloper.org)
  - SNIA Storage Developer Conference (SDC)
- [http://www.snia.org/podcasts/](http://www.snia.org/podcasts/)
  - SDC Podcasts

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