Storage Networking Industry Association

Technical Activities Update

October 2021

T11-2021-00284-v000

SNIA Technical News: New ISO Standard

- ISO/IEC 5965:2021 Information technology — Swordfish Scalable Storage Management API Specification
  - Swordfish extends the Redfish Scalable Platforms Management API Specification, as defined by ISO 30115. It defines a comprehensive, RESTful API for storage management that addresses block storage, file systems, object storage, and storage network infrastructure. It is centered around common operational and business concerns of storage management.

http://www.snia.org/swordfish

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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 Public Review DRAFT

- Smart Data Accelerator Interface ("SDXI") Specification v0.9.0 rev 1
  - This document describes the Smart Data Accelerator Interface, an architectural data-mover device for server platforms. SDXI aims to provide a variety of benefits including architectural stability, modularity, virtualization-friendly programming interface, both user and kernel mode support, and new capabilities designed to accelerate virtualized workloads.

http://www.snia.org/publicreview

SNIA Technical News: New Public Review DRAFT

- Swordfish Scalable Storage Management API Specification v1.2.3
  - The Swordfish Scalable Storage Management API defines a RESTful interface and a standardized data model to provide a scalable, customer-centric interface for managing storage and related data services.

http://www.snia.org/publicreview

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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

SNIA Public Review Drafts

- Smart Data Accelerator Interface ("SDXI") Specification v0.9.0 rev 1
- Swordfish Scalable Storage Management API Specification v1.2.3
- 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:
#154: Amazon FSx For Lustre Deep Dive and its importance in Machine Learning by Suman Debnath, Amazon Web Services .

Amazon FSx for Lustre, a fully managed service that makes it easy and cost-effective for AWS customers to launch and run a Lustre high performance file system for their data-intensive applications. In this talk I shall introduces you to the features and benefits of the service, such as its massively scalable performance, seamless integration with Amazon S3(object storage), and compatibility with customer applications. Several use cases in particular, we will see how this file system can accelerates and simplifies training Machine Learning models.

Learning Objectives: Understand Amazon FSx for Lustre internals,How Amazon FSx can be used so that you can accelerate Machine Learning Training,Hands on demo, so that participants can implement the same,Understand how FS Storage is consumed on AWS and design consideration.

http://www.snia.org/podcasts

Storage Developer Podcast: Upcoming Episodes

- 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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Conference sessions available on demand!

https://www.storagedeveloper.org

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Geek Out on Storage: *The Great Storage Debates*

http://www.snia.org/geekout

Important SNIA Links

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

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