



Storage Networking Industry Association

Technical Activities Update

February 2021

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SNIA Technical News: New SNIA Standard

- TLS Specification for Storage Systems v2.0

- This document specifies the requirements and guidance for use of the Transport Layer Security (TLS) protocol in conjunction with data storage technologies. The requirements are intended to facilitate secure interoperability of storage clients and servers as well as non-storage technologies that may have similar interoperability needs. This document was developed with the expectation that future versions of SMI-S and CDMI could leverage these requirements to ensure consistency between these standards as well as to more rapidly adjust the security functionality in these standards.

- Publication in process

SNIA Public Review Drafts

- Computational Storage Architecture and Programming Model v0.5 rev 1
- DRAFT CDMI Extensions and Profiles

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

Storage Developer Podcast: Latest Episode



This week's highlighted Podcast:

#139: Use Cases for NVMe-oF for Deep Learning Workloads and HCI Pooling by Nishant Lodha, Marvell Semiconductor .

The efficiency, performance and choice in NVMe-oF is enabling some very unique and interesting use cases – from AI/ML to Hyperconverged Infrastructures. Artificial Intelligence workloads process massive amounts of data from structured and from unstructured sources. Today most deep learning architectures rely on local NVMe to serve up tagged and untagged datasets into map-reduce systems and neural networks for correlation. NVMe-oF for Deep Learning infrastructures enables a shared data model to ML/DL pipelines without sacrificing overall performance and training times. NVMe-oF is also enabling HCI deployment to scale without adding more compute, enabling end customers to reduce dark flash and reduce cost. The talk explores these and several innovative technologies driving the next storage connectivity revolution.

Learning Objectives: Storage architectures for Deep Learning Workloads, Extending the reach of HCI platforms using NVMe-oF, Ethernet Burst of Flash architectures.

Storage Developer Podcast: Upcoming Episodes

- libnvme: An open source library for NVM Express
- Unlocking the New Performance and QoS Capabilities of the Software Enabled Flash™ API
- ZNS: Enabling in-place updates and transparent high queue-depths
- Deep Compression at Inline Speed for All-Flash Array
- Key Value Standardized
- The Future of Accessing Files remotely from Linux: SMB3.1.1 client status update
- Understanding Compute Express Link (CXL): A Cache-coherent Interconnect

2021 SNIA Annual Members Virtual Symposium

- If you missed this event you can *still learn what SNIA has planed for 2021*
 - See the presentations and videos at <https://www.snia.org/symposium>
 - Updates from all the current Technical Work Groups, Forums, Initiatives, and Committees.

Geek Out on Computational Storage



SNIA[®] STORAGE BASICS

**Computational Storage -
Start from the Beginning**

<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