



# SNIA Technical Activities Update

January 2025



# SNIA Technical News: New SNIA Standard

- DNA Stability Evaluation Method for DNA Data Storage Containment Systems v1.0
  - The DNA Stability Evaluation Method for DNA Data Storage Containment Systems defines a standard procedure to measure and a standard metric to characterize the molecular stability of DNA in a DNA Data Containment System (DCS) so that a DCS being considered as a part of a DNA data storage solution can be objectively compared, in terms of how effectively the DCS protects the media, vs. other DCSs being so considered.

# SNIA Technical News: Current Public Review Drafts

- Smart Data Accelerator Interface (SDXI) Specification v1.0.3r5
- Computational Storage Architecture and Programming Model v1.0.4
- SNIA Emerald™ Power Efficiency Measurement Specification for Data Center Storage Devices v0.0.36
- CDMI Extensions and Profiles

# SNIA Experts on Data Podcast: Latest Episode



This week's highlighted Podcast:

**Accelerating Tomorrow's Data Storage Technology and Standards**  
with Scott Shadley, Jason Molgaard and Shyam Iyer

Discover how SNIA is redefining the future of data through collaboration and innovation. Join Scott Shadley, Jason Molgaard, and Shyam Iyer to hear how SNIA's initiatives, particularly in accelerating data, are blending storage solutions with data-centric strategies to drive the industry forward. The conversation highlights the significance of standardization in data management, emphasizing the importance of collaboration among competitors.

# Upcoming SNIA LIVE Webinars

- A Deep Look at New Memories

- Tuesday January 28, 2025; 10 am PT / 1:00 PM ET

- New Memories like MRAM, ReRAM, PCM, or FRAM are vying to replace embedded flash and, eventually, even embedded SRAM. Are there other memory technologies threatened with similar fates? What will the memory market look like in another 20 years?
    - Catch up on the latest in new memory technologies in this fast-paced, entertaining panel, as we explain what these new memory technologies are, the applications that have already adopted them in the marketplace, their impact on computer architectures and AI, the outlook for important near-term changes, and how economics dictate success or failure.



# Upcoming SNIA LIVE Webinars

- Ceph in a World of AI/ML Workloads

- Thursday January 30, 2025; 10 am PT / 1:00 PM ET

- Artificial intelligence and Machine learning (AI/ML) is a hot topic in every business at the moment, and there is a growing dialog about what constitutes an Open Model, is it the weights? Is it the data?
    - Those are important questions, but equally important is ensuring that the tooling and frameworks to train, validate, fine-tune, and perform inference are open source. Storage systems are a crucial component of these workflows, how can open-source solutions address the needs for high capacity and high performance?
    - Data is key to any and all AI/ML workflows, without it there would be no data to use as an input for model training, re-evaluation and refinement of models, or even just securely storing models once training is complete, especially if they have taken weeks to produce!
    - Open source solutions like Ceph can provide almost limitless scaling capabilities, both for performance and capacity. In this webinar learn how Ceph can be used as the backing store for AI/ML workloads.

# Recent SNIA Webinars available on Demand

- Building Community to Tackle Cloud Object Storage Incompatibilities
- Ethernet in the Age of AI: Adapting to New Networking Challenges
- The Critical Role of Storage in Optimizing AI Training Workloads
- Advancing Sustainable Storage: The Impact of the Circular Economy, Media Sanitization Policies, and Carbon Accounting
- The Evolution of Congestion Management in Fibre Channel
- Navigating Transactions: ACID Complexity in Modern Databases
- Empowering Developers: Exploring LLM Models for Code Generation
- AIOps: Reactive to Proactive – Revolutionizing the IT Mindset
- Ceph: The Linux of Storage Today

# Upcoming SNIA EVENT



## **By Developers, for Developers**

SNIA is excited to bring a special edition of our developer conference to Denver. Created by developers for developers, SDC is a premier educational conference dedicated to providing vendor-neutral information on advancements in data technology. Whether you're a software engineer, product manager, or CTO, SDC caters to professionals across all disciplines.



# Upcoming SNIA EVENT



## By Developers, for Developers

Call for presentations now open

SNIA is excited to bring a special edition of our developer conference to Denver. Created by developers for developers, SDC is a premier educational conference dedicated to providing vendor-neutral information on advancements in data technology. Whether you're a software engineer, product manager, or CTO, SDC caters to professionals across all disciplines.

# 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.snia.org/webcasts>
  - SNIA Webcasts
- <https://www.snia.org/podcasts>
  - SNIA on Data Podcast
- <http://www.sniadeveloper.org>
  - SNIA Developer Conference (SDC)