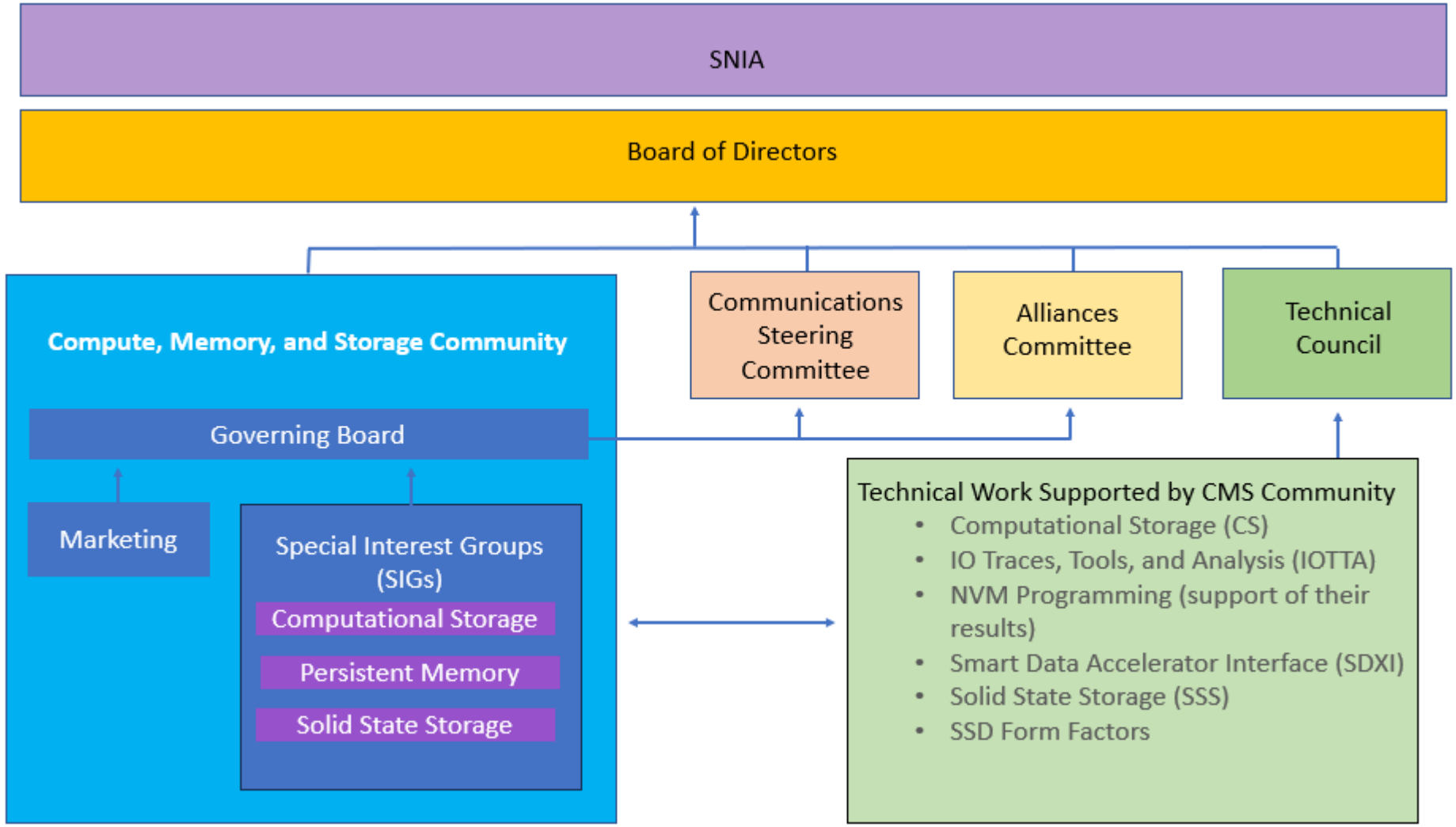
SNIA | Compute, Memory, and Storage

CMS Community

2025 Review and 2026 Plans

Presented by Leah Schoeb, CMS Chair
Email: CMS-chair@snia.org

SNIA and the Compute, Memory, and Storage Community



CMS Governing Board:

- Leah Schoeb, Chair
- Willie Nelson, Treasurer
- James Borden
- Tom Coughlin
- Nicolas Maigne
- Bill Martin
- Scott Shadley

SNIA | CMS A SNIA Community

Mission

The SNIA CMS Community is dedicated to fostering the growth and success of the market for computational storage, solid state storage, persistent memory, and other advanced storage technologies in both commercial and consumer environments.

CMS Community 2025 Accomplishments

Education

Goal: End users and industry learn about the technology and technical work that is supported.

- Webinars on
  - A Deep Look at New Memories
  - Unlocking CXL's Potential: Revolutionizing Server Memory and Performance
  - Unlocking Sustainable Data Centers: Optimizing SSD Power Efficiency and Liquid Cooling for AI Workloads
  - Accelerating AI with Real-World CXL Platforms
- Continued Persistent Memory education with updates of the **Persistent Memory Programming Workshop and Hackathon** curriculum with CXL® exercises and new equipment in the SNIA Innovation Lab to include new technologies
- Expansion of support on **SSD Form Factor** deployments and use cases
- New material and updates to snia.org **webpages**
  - SSD Form Factors
  - NVMe SSD Classification
  - SSD Endurance
  - TCO for SSD
  - PM Hackathon

Outreach

Goal: Communicate the benefits of SNIA supported technologies and technical work.

- Communicated SSD **TCO Benefits**
  - Promoted at FMS and SC25
- **Taught Persistent Memory Programming** at Workshops and Hackathons
  - Live at FMS and SC25
- Communicated the benefits of the NVM Programming Specification,**SDXI Specification,** and **SFF form factor specifications**
  - Promoted at Industry Events to 40K plus attendees
  - PM Workshop and Hackathon Specifications won **Best of Show** at Future Memory Storage Summit 2025
- Reached out to **industry experts**
  - Objective Analysis and Coughlin Associates on persistent memory

Enablement

Goal: Making the benefits of SNIA technical work easier to access and use.

- Highlighted **use cases** from member companies and **work from opensource teams at industry events**
  - CXL Memory Modules/Hackathon
  - TCO Performance
- Advertised and promoted opensource work – **collaborative efforts with SNIA Alliance and Collaboration Partners**
  - Open Standards Pavilion at Future Memory Storage Summit reaching 3,000+ attendees
    - CXL Consortium
    - PCI-SIG
    - Ultra Accelerator Link Consortium
    - UCIe Consortium
  - Open Standard Pavilions at SC25 reaching 17,000+ attendees
    - DMTF
    - OpenFabrics Alliance
    - UCIe Consortium
    - Ultra Accelerator Link
    - Ultra Ethernet Consortium

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CMS Community Overall 2026 Plans

Education

Goal: Educate end users and industry about the technology and technical work that CMSC supports.

- Produce **webinars, podcasts, and blogs** on technology topics from Community member thought leaders. Topics of interest to date:
  - New Memories
  - TCO Cost Performance Use Cases
  - Benchmarking SSDs
  - E1 and E3 cold plate cooling
  - Memory and AI
- Develop and publish updates to **Total Cost of Ownership (TCO) Model and Solid State Drives.**
- Develop and publish educational material on **EDSFF form factors** and **Benchmarking Large SSD Drives**
- Develop and publish **CXL Memory Module Programming Exercises** video and PDF instructions
- Continue research and documentation of **use cases**
  - Memory to Memory Data Transfer
  - TCO for SSDs
  - SSD Form Factors
- Create education on **New Memory Types**
- Create new and update existing snia.org **webpages**

Outreach

Goal: Communicate the benefits of SNIA supported technologies and technical work.

- Contribute to **SNIA Developer Conferences**
- Outreach and participate in **industry events** including Future Memory Storage Summit, AI Infra Summit, and SC25
- Communicate Solid State Drive **TCO Benefits at events**
- **Teach Persistent Memory Programming** at Workshops and Hackathons
- Brief **analysts** and **industry experts**
- Contribute to and support **SNIA Alliance Committee** activities

Enablement

Goal: Make SNIA technical work easier to access and use.

- Evangelize and outreach on **SNIA Technical Work Group activities** at company and industry events
  - Computational Storage
  - SDXI
  - Solid State Storage
- Support **Joint Marketing Activities** of SNIA Groups and SNIA Alliance/Collaboration Partners at Future Memory Storage Summit 2025 and SC25
  - SCSI Trade Association (STA) Community
  - SFF Technology Affiliate
  - CXL® Consortium
  - JEDEC
  - NVM Express®
  - OpenFabrics Alliance
  - UCIe Consortium
  - Ultra Ethernet Consortium
  - Ultra Accelerator Link Consortium

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Compute, Memory and Storage Community Members

All SNIA Member Companies are able to join a SNIA Community. These companies have members who have joined the CMS Community Causeway roster as of 12/1/2025

+ 13 new members since January 2025

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Join Us and Participate in 2026

- Expected industry impact of our work
  - Significant education deliverables contributing to expanded knowledge of memory an and smart data acceleration interface technology
  - The place to go for information on SSD form factors, NVMe classification, and Total Cost of Ownership (TCO) information
  - Expanded reach to end users
  - Implementation knowledge of the NVM Programming Model benefits and application to persistent and CXL memory applications
- Industry segment relevance of our work
  - Compute industry
  - Memory industry
  - Storage industry
- Why you should join and participate in the community
  - Propel technology adoption
  - Engage and educate the industry on compute, memory, and storage technologies
  - Accelerate standards
- Who to contact for additional information
  - Reach out to our leadership –- CMSchair@snia.org
  - Website – www.snia.org/CMS
  - Fact Sheet https://www.snia.org/sites/default/files/SSSI/2026_CMS_Community_Fact_Sheet.pdf

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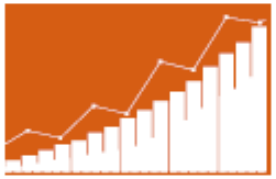
A SNIA Community

The industry leading member companies of the SNIA Compute, Memory, and Storage Community support the industry drive to combine processing with memory and storage, and to create new compute architectures and software to analyze and exploit the explosion of data creation over the next decade.

Engage and Educate

- Computational Storage
- Persistent Memory
- PM and SSD Performance
- Emerging Memories
- Smart Data Accelerator
- Solid State Drives
- Solid State Systems
- SSD Form Factors



Accelerate Standards

- Computational Storage Architecture & Programming Model
- Computational Storage API
- NVM Programming Model
- Smart Data Accelerator Interface
- Solid State Storage Performance Test Specifications
- SSD Form Factor Specifications

Propel Technology Adoption

- Persistent Memory Programming Workshops
- SSD Form Factors Explained
- Compute, Memory and Solid State Drive Demonstrations at live and online technology events
- Interactive Webinars with Technology Industry Experts
- Videos on the SNIA Video YouTube Channel

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