Computational Storage TWG

2024 Review and 2025 Plans

Presented by Bill Martin & Jason Molgaard (co-chairs)

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Computational Storage TWG 2024 Accomplishments

- TWG Charter - Computational Storage TWG Charter V1c-Approved.pdf
- Computational Storage Architecture and Programming Model v1.0.4
  - Incorporated security recommendations for multi-tenant environments
  - Incorporated sequencing of CSFs
  - Released for public review
  - Completed RFC Ballot
- Computational Storage API
  - Incorporated error reporting clarifications
  - Completed RFC Ballot

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Computational Storage TWG Work Items

- v1.1 Architecture and Programming Model
  - Complete RFC feedback changes
  - Expect membership vote for 1.1 in February
  - Release v1.1
- v1.1 API
  - Complete RFC feedback changes
  - Expect membership vote for 1.1 in February
  - Release v1.1
- SNIA Group collaboration
  - Continue effort with SDXI TWG combining SDXI with Computational Storage
- External group collaboration / Alliance work items
  - Continue NVM Express interaction
  - Potential engagement with CXL
- Investigating implications of Computational Memory

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Computational Storage TWG Participation

- What is the expected industry impact of this work
  - Encourage development, deployment, and compatibility of Computational Storage Devices (CSxes) in the current and future ecosystem
- What is the industry segment relevance
  - Volumes of generated data exposes current infrastructure bottlenecks and the need to augment host compute with Computational Storage offloads
- Why you should join and participate in this TWG
  - Participation allows members the ability to impact the direction, development, and deployment of Computational Storage architecture and API enhancements and Computational Memory Architecture
- Who to contact for additional information
  - computationaltwgchair@snia.org

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29 Participating Companies - 169 Member Representatives

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