



Cloud Storage Technical Working Group

2024 Review and 2025 Plans

Presented by:

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Cloud Storage TWG 2024 Accomplishments

■ Cloud Storage TWG Charter

- Technical entity for SNIA to identify, develop, and coordinate standards for cloud storage
- Produce specifications and drive consistency of interface standards for cloud storage
- Produce reference implementations to complement specifications and aid adoption
- Document system-level requirements and share with cloud storage standards organizations
- Produce criteria and guidance to assist verifying cloud storage compatibility and interoperability
- Facilitate cloud storage implementation compatibility and interoperability testing activities

■ Recent completed work and accomplishments

- Facilitated Cloud Object Storage Plugfest efforts jointly with CST
- CDMI presentation and refresher at SDC 2024
- CDMI extension development activities (Validators extension published)
- Completed scoping exercise for CDMI 3.0
- IETF/IANA coordination for CDMI 3.0 capabilities enhancement process

Cloud Storage TWG 2025 Work Items

- 2025 Work Items
 - CDMI 3.0 specification reordering to emphasize the three key CDMI use cases: Namespace management, declarative metadata management, and data portability
 - Relax restrictions on identifiers, exports, and object representations to reduce adoption friction
 - Specification updates (Errata, RFC 9457 Problem Details, and use-case-driven examples)
 - Continue development work on CDMI Extensions: S3 export protocol, graph data support
 - Explorations of generic query support (GQL, SQL, etc.) and tensor support
- SNIA Group collaboration
 - CDMI 3.0 Whitepaper collaboration with CST
 - Support for 2025 Cloud Object Storage Plugfests (SDC Denver, SDC Santa Clara)
 - Engagement with Security TWG for CDMI 3.0 Review
- External group collaboration / Alliance work items
 - ONVIF – Propose/joint work on updates to CDMI section in ONVIF standard
 - ISO – JTC1 SC 38 Multi-cloud management, Data Storage as a Service
 - IETF/IANA – Review of CDMI 3.0 capabilities alignment to RFC 8615

Cloud Storage TWG Membership as of 2025-01-10

- TWG Membership: 77 individual members, 25 companies
- TWG Membership actively participating in TWG in 2024:



KIOXIA



Cloud Storage TWG Participation

- What is the expected industry impact of this work
 - Enhance interoperability and efficiency across different object storage platforms, ultimately leading to more robust and user-friendly object storage solutions
- What is the industry segment relevance
 - Cloud storage system vendors and clients
 - Object storage vendors and clients
- Why you should join and participate in this TWG
 - Don't miss an opportunity to contribute to shaping industry standards, networking with key industry players, and directly influencing the evolution of cloud storage technologies.
 - TWG is actively looking for a co-chair!
- Who to contact for additional information
 - David Slik, chair, cloudtwgchair@snia.org