



Cloud Object Storage (COS) Test Tools TWG 2025 Review and 2026 Plans

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Cloud Object Storage (COS) Test Tools TWG Accomplishments

SNIA COS Test Tools TWG

- Expand multi-vendor interoperability tooling available to everyone in the COS ecosystem
- Expedite collaboration among cloud storage developers, architects and test support engineers
- Enhance customer experience of popular COS APIs: AWS S3, Google Cloud Storage, and Azure Blob
- *Open to SNIA members only*

TWG Formation (2025)

- Approved by SNIA TC in June 2025
- Work item: publish white paper “Developer Strategies for Cloud Object Storage Multi-Vendor Interoperability”
- Identify and test candidate open-source tools with a focus on S3 API storage servers

COS Test Tools TWG Members:

AMD, Biomemory, Cubbit, Dell, Fadu, HS Devices, Huawei, IBM, Intel, Maxlinear, Microsoft, NetApp, Nutanix, Samsung, Sandisk, Seagate, Solidigm, Versity Software, WDC, Zhaolong Interconnect

COS Test Tools TWG - Plans 2026

COS Test Tools 2026 Plans...

- Expand scope to add S3 / COS performance test tools
- Begin development on open-source test tools based on initial findings
- Integrate open-source test tool automation into future COS Plugfests

Needs / issues we address...

- Strong customer demand / expectation for S3 multi-vendor interoperability
- S3 API can often be a moving target for third-party storage
- Variation between third-party S3 storage implementations
- Inconsistent experience and problematic isolation between SDK usage
- Diverse and expanding use-cases for object storage, especially supporting AI usage

Mission: Eliminate barriers to attain any-to-any interoperability on popular COS APIs

Takeaways: COS Test Tools TWG

Strategic Takeaways

- Promote active participation in both SNIA COS Plugfests & Test Tools TWG crucial for success
- Diverse ecosystem participation will increase value and speed of industry results
- Focused community collaboration will yield better customer & end user experience, as well as reduce development and support costs

SNIA Cloud Object Storage Test Tools

<https://www.snia.org/testtoolstwg>

We need your contribution to help shape the future of open-source COS test tools

Email us for additional info on how to join:

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