

Blockchain Storage Technical Work Group Charter

SUBMITTER: Olga Buchonina, Rahul Vishwakarma, Parmeshwr Prasad

DATE SUBMITTED: June 3, 2020

VERSION: 1.2

APPROVED by Technical Council: June 11, 2020

Software License approved by Board: June 25, 2020

CHARTER:

The Blockchain Storage TWG is created for the purpose of establishing architectures and software for blockchain storage. This TWG creates software and standards that enable specific features for these devices that meet the requirements of stakeholders with these Blockchain Storage needs.

The Blockchain Storage TWG:

- Acts as a primary technical entity for the SNIA to identify, develop, and coordinate Blockchain Storage features to be added to storage devices.
- Produces or extends interfaces to accommodate new features.
- Promotes interoperability (for example plugfests) among devices and systems implementing a new Blockchain Storage feature.
- Coordinates the submission of new feature proposals to standards groups (e.g., NVM Express, IEEE Blockchain, T10 or T11)
- Creates software to encourage adoption of these updated features.
- Builds Open Source Applications using Blockchain technology to solve interoperability and security concerns in the storage industry
- Focuses on spearheading adoption of the Blockchain in the Storage industry

This is a new application for storage technology which may help addresses security threats, encourage adoption and expand storage applications.

Blockchain technology has already had widespread adoption in applications and having a solution for storage interoperability and testability can bring this adoption to a higher level.

The Blockchain Storage TWG will take responsibility to promote open source applications and interop testing.

This TWG will also assist and cooperate with other SNIA TWGs (Security, Object Drive and SSM) in their efforts to incorporate or manage these features and consider other SNIA TWG and Alliance partner work for leveraging.

This TWG intends to develop SNIA Architecture and SNIA Software. This TWG intends to use an Open Repository with public access for the Software. This TWG intends to allow external contribution as a Contributor License Agreement (CLA) Project.

PROPOSED PROGRAM OF WORK:

1. This TWG will collect and prioritize feature requests for storage drive interfaces from Blockchain customers and the developer's community and it will spearhead the expansion of Storage technology used in the Blockchain community.
2. This TWG will develop or extend interfaces, allowing device vendors to supply features using extensions to existing standard interfaces and develop software that uses those extensions.
3. This TWG will coordinate the submission of new standard proposals to accommodate the new features or create a new standard as a SNIA Architecture.
4. Once the feature is standardized, this TWG will additionally develop SNIA Software to implement the feature's interface using the new version of the underlying standard that adds the feature.
5. This TWG will educate and promote Blockchain Technology overall in Storage Applications.

The scope of new features is focused on solving problems of Blockchain customers when deploying devices at scale.

FOUNDING MEMBERS:

DELLEMC, Marvell, and Western Digital have all communicated that they will be charter members of the TWG. Development teams at several other SNIA member companies have expressed support and are waiting for official company approval to state support.

Software License

This TWG will develop software using the 3 clause BSD License as follows:

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