



# SNIA – TGG Cooperation Agreement

## **Alliance Record**

*In reference to:*

**The Green Grid (TGG) / SNIA**

Revision Date: December 1, 2021

This document is SNIA Confidential until released here:  
<http://www.snia.org/alliances/>

## Revision History

<b>Date</b>	<b>By:</b>	<b>Comments</b>
7/22/20	Wayne Adams	Initial draft – v.0.5
12/11/20	Erica Thomas	TGG Input
04/15/21	Erica Thomas and Don Goddard	
04/29/21	Erica Thomas and Don Goddard	v.06
7/20/21	Wayne Adams	V0.9 Accept TGG edits, add in requested SNIA details, update Appendix for current and near- term work items
10/8/2021	Erica Thomas	Final minor edits and logos incorporated
12/1/2021	Wayne Adams	A few minor edits made, per a November Strategic Alliances Committee review

## Summary

This Cooperation Agreement (the “Agreement”) or “Alliance” defines the relationship framework between The Green Grid (TGG), a division of Information Technology Industry Council, Inc. (ITI) and the Storage Networking Industry Association (SNIA) as part of the SNIA Strategic Alliance Program and TGG’s Liaison Agreement program. Once approved by both parties, this document will be published on <http://www.snia.org/alliances/>.

This document replaces the previous Memorandum of Understanding signed between SNIA and The Green Grid in 2008 .

## Alliance Organizations/ Parties

[The Green Grid \(TGG\)](#) and the [Storage Networking Industry Association \(SNIA\)](#)

### 1. The Green Grid (TGG)

- The Green Grid is an affiliate member organization of ITI. The Green Grid works globally to create tools, provide technical expertise, and advocate for the optimization of energy and resource efficiency of Data Center ecosystems which enables a low carbon economy. The Green Grid is an open industry consortium of data center owners, operators, technology providers, facility architects, and end-users. We offer the technical expertise that the data center industry and governments turn to for insight and counsel regarding data center efficiency and sustainability.
- The Green Grid seeks to unite global industry efforts, create a common set of metrics, and develop technical resources and educational tools to further its goals. Additional information is available at [www.thegreengrid.org](http://www.thegreengrid.org) and [www.itic.org](http://www.itic.org).

### 2. SNIA

- The Storage Networking Industry Association (SNIA) is a non-profit organization made up of member companies spanning information technology. A globally recognized and trusted authority, SNIA’s mission is to lead the storage industry in developing and promoting vendor-neutral architectures, standards and educational services that facilitate the efficient management, movement and security of information.
- The SNIA Green Storage Initiative (GSI) is dedicated to advancing energy efficiency and conservation in all networked storage technologies and minimizing the environmental impact of data storage operations. The GSI’s Mission:
  - Establish and maintain the SNIA Emerald™ Program for SNIA Emerald™ Power Measurement Specification and conduct training of SNIA Emerald™ testers and industry stakeholders
  - Educate the IT industry, vendor community and regulatory bodies on techniques to conserve energy for enterprise storage environments

- Provide external advocacy and support of the technical work of the SNIA Green Storage Technical Working Group (TWG)
- Provide input to the SNIA Green Storage TWG on requirements for green storage measurement specifications, metrics and standards
- Establish and maintain cross-industry relationships and alliances to coordinate and advance data center energy efficiency related programs, test and measurement methods, and standards
- The Green Storage TWG acts as the primary technical entity for the SNIA to identify, develop, and coordinate technical matters related to energy and cooling of storage networking products. To be effective, standard metrics must be a realistic reflection of efficiency: work accomplished per energy expended, allowing a determination of clear costs for operations. We believe that a variety of types of storage work must be considered, and that several distinct 'figures of merit' will be needed. We believe that the SNIA is uniquely qualified, as an impartial forum with the right participants, to create useful metrics for users.
  - The SNIA Emerald™ Power Measurement Specification identifies metrics by which energy consumption and efficiency of storage networking products can be measured for the purposes of new product development, end-user customer evaluation, and regulatory standards development.

## **Background and Purpose**

Each of the Parties have each determined that, in light of their common objectives to optimize standards, benchmarks and tools for energy efficient storage systems in enterprise data centers, it is in each Party's best interests to enter into a cooperation agreement, pursuant to the terms and conditions set forth herein. The primary purpose of this "Alliance"/ "Cooperation Agreement" is to enable the collaboration of both organizations to create industry education, white-papers, and storage manufacturer's strategies to meet industry regulators' requests for energy efficient storage system characterization, features, and operation within enterprise data centers and cloud-based service providers.

**Both organizations benefit from:**

- Increased alignment of manufacturers' strategies to influence regulatory requests and shape policies relating to the energy efficiency of storage systems in data centers.
  - Examples of programs over which joint collaboration could increase influence are:
    - the United States Environmental Protection Agency's ENERGY STAR Data Center Program which includes Data Center Storage;
    - European Commission Regulation (EU) 2019/424 regulation (commonly known as EU Lot 9) ;
    - Japan Top Runner Program; and other geographic regulatory requests relating to energy efficiency storage of storage systems in data centers.
- The creation and publication of joint white papers relating to storage systems of enterprise data centers would:
  - improve data analysis,
  - improve technology adoption forecasts and trends,
  - convey technology capabilities and features,
  - advocate adoption of proven best practices, and
  - reflect manufacturer system architecture fairness.
- Increased alignment of efforts to influence standards.
  - For example, enhanced TGG and SNIA alignment would enhance each organization's ability to effectively support the JTC 1 standardization processes for ISO PAS submissions, ISO SC 39, ANSI/INCITS ITS39, and other national bodies adoptions of ISO/IEC standards
- The use of common terms and definitions

## Scope of Activity

This relationship will focus on collaboration of both organizations to create industry education materials such as white-papers and to develop storage manufacturer's strategies to respond to requests from regulators around the world about energy efficient storage system characterization, features, and operations within enterprise data centers and cloud-based service providers.

Specifically, this Agreement covers SNIA and TGG collaborations between the following Work Groups:

### 1. TGG

- TGG Server and Storage Energy Work Group
- TGG Data Center Storage Energy Work Group
- TGG/SNIA Joint Publications
- TGG/SNIA Industry Position Statements
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- Any other work groups that focus on data center storage

### 2. SNIA (more detailed descriptions included in Annex D)

- SNIA Green Technical Work Group
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- SNIA/EPA Stakeholder Meetings
- SNIA Member/Technical Symposia
- SNIA/TGG Joint Publications
- SNIA/TGG Industry Position Statements

## Terms and Conditions

Based on mutual consideration, the receipt and adequacy of which is mutually acknowledged, the Parties agree to the following terms and conditions.

### 1. Work Groups:

- a. Each of the Parties may appoint a representative from one of its Work Groups as an observer (the “Observer”) to the relevant technical standards development body (the “Body”) of the other Party. Observers shall be entitled to participate fully in discussions regarding standards and may submit written contributions to the Body. This includes the following current Work Groups in TGG and SNIA.

### 2. Intellectual Property:

- a. Each Party shall provide to the other a copy of the Party’s policies and procedures with respect to intellectual property rights.
- b. Each organization will adhere to its own committee membership requirements, IP Policies for contributions and publications, and grant permissions when needed to foster joint work products and cross-organization participation in the creation of joint work products.
- c. TGG recognizes that, when posting materials to a SNIA Work Group, that all members of the SNIA Work Group may not be obligated to TGG IP Policies but are obligated to the SNIA IP Policies to manage distribution and confidentiality.
- d. TGG recognizes that, when accepting materials from a SNIA Work Group, that TGG IP Policies will be followed to manage distribution and confidentiality.
- e. SNIA recognizes that, when posting materials to a TGG Work Group, that all members of the TGG Work Group may not be obligated to SNIA IP Policies but are obligated to TGG IP Policies to manage distribution and confidentiality.
- f. SNIA recognizes this Agreement permits TGG to copy and reproduce such SNIA-approved content within TGG.
- g. SNIA will grant complimentary individual memberships to TGG Storage Committee members on an as needed basis to enable quality joint work created in a timely fashion, to participate in SNIA meetings and projects.
- h. TGG is unable to grant complimentary individual memberships to SNIA members but may create separate independent meetings with unique invites (to select SNIA members) on an as needed basis to enable quality joint work in a timely fashion.

### 3. Presentations

- a. TGG developed presentation materials and supporting materials meant for public at large reference may be posted to SNIA Emerald website, [www.sniaemerald.com](http://www.sniaemerald.com) and to TGG’s website at <https://www.thegreengrid.org>

for free public access and download. However, TGG materials must be prepared on TGG logo-ed and copyrighted materials.

- b. TGG/SNIA jointly developed presentation materials and supporting materials meant for public at large reference may be posted to SNIA Emerald website, [www.sniaemerald.com](http://www.sniaemerald.com) and to TGG's website at <https://www.thegreengrid.org> for free public access and download.
- c. TGG/SNIA joint materials are prepared on with either SNIA or TGG logo-ed templates, and copyrighted to one or the other organization. For the material copyrighted to one organization, the other organization will be given prominent recognition for their joint contributions.

#### 4. Third Party Meetings

- a. Prior to a scheduled SNIA/EPA Stakeholder meeting, SNIA and TGG will develop common messaging and strategy to convey a uniform manufacturer's voice of requests and responses. The messaging and strategy will be developed in either SNIA TWG or TGG storage work group meetings.

#### 5. Joint Industry Position Statements and White Papers

- a. Either party can invite the other party to jointly develop an industry position and/or white paper to respond to an opportunity by regulators for public comment. The jointly developed position and/or white paper can be submitted as a joint authorship or individually.
- b. Joint positions and/or white papers submitted individually should cross-reference the other organization for their contribution(s).
- c. Joint positions and/or white papers may be developed in either organization's collaborative body, but must be jointly approved by both bodies.
- d. Either party can invite the other party to jointly develop an industry whitepaper and/or position paper. Both parties before undertaking the project should define the scope of the white paper and/or position paper, the intended audience, the primary publisher and copyright holder, and whether the paper will be free or for a fee.
- e. For joint positions and white papers, prior to commencing the joint work:
  - i. both parties shall determine which party will be the primary publisher and copyright holder
  - ii. both parties should further agree that the secondary publisher and non-copyright holder shall be prominently recognized for its contributions
  - iii. both parties should determine whether the position or whitepaper will be available for free to the public and downloadable from the TGG website and or how SNIA will make the document available for interested parties to download.
- f. SNIA will solicit contributions from other SNIA TWGs for the domains of storage device trends, storage management, performance workloads and testing, and storage security.
- g. TGG will solicit contributions from other TGG Committees for data center trends and compute/storage/network architecture trends.
- h. Both SNIA and TGG will go through their own organization publication review and approval cycles prior to a position paper or whitepaper being released for

the public-at-large. Portions of the position paper or whitepaper may be incorporated into industry stakeholder presentations and or joint industry positioning statements prior to the final release of the publication.

- i. If TGG is the primary publisher:
  - i. SNIA contributions will be footnoted; SNIA grants TGG permission to copy and distribute (for free) all SNIA submitted contributions
  - ii. SNIA reserves the right to translate the published whitepaper and/ or position paper into other languages and adding a cover page reflecting the work is a joint publication
  - iii. SNIA will retain a source copy of the draft document in the Green TWG members only document repository.
- j. If SNIA is the primary publisher:
  - i. TGG contributions will be footnoted; TGG grants SNIA permission to copy and distribute (for free) all TGG submitted contributions.
  - ii. TGG reserves the right to translate the published whitepaper and/ or position paper into other languages and adding a cover page reflecting the work is a joint publication.
  - iii. TGG storage work group(s) will retain a source copy of the draft document in the TGG members only document repository.

## 6. Assignment

- a. Neither Party may assign any of its rights or obligations under this Agreement without the prior written consent of the other Party.

## 7. Confidentiality.

- a. The Parties acknowledge that certain information which has been or which may be disclosed, either orally or in writing, by one Party ("Disclosing Party") to the other Party in confidence, that is marked "Confidential," or which is reasonably understood to be the proprietary or confidential information of the Disclosing Party, including, without limitation, nonpublic information concerning any trade secrets, technical data, collection, tabulation, and analysis of data, designs, software, databases, inventions and works, research and development, and/or work in progress, (collectively, "Confidential Information"), is confidential and proprietary. The Parties agree to hold any and all Confidential Information of the Disclosing Party in strict confidence and not disclose such Confidential Information to any third party, except as required by law or as authorized by the Disclosing Party. Confidential Information does not include any information that: (a) is or becomes publicly available without breach of this Agreement; (b) was known to the Party receiving such information at the time of its receipt from the Disclosing Party; (c) is rightfully received from a third party who did not acquire or disclose such information by a wrongful or tortious act; (d) is independently developed by the receiving Party without reference to any Confidential Information; or (e) the Parties have agreed to incorporate into a standard or other document published by one of the Parties. The provisions of this Sections 5 shall survive the termination or expiration of this Agreement. Upon the termination or expiration of this Agreement, a Party in receipt of

Confidential Information shall, at the request of Disclosing Party, return, or at the election of Disclosing Party, destroy, all Confidential Information.

#### 8. Effective Date

This “Agreement” or “Alliance” is made by and between the Storage Networking Industry Association (“SNIA”) and The Green Grid (“TGG”), a division of Information Technology Industry Council, Inc., a District of Columbia nonprofit corporation, and will be effective as of the date of the last signature below (the “Effective Date”). Each of the foregoing parties is sometimes referred to herein as a “Party,” and together they are sometimes referred to as the “Parties” or as the “Alliance Organizations”. Once approved by both parties, this document will be published on <http://www.snia.org/alliances/>.

#### 9. Term

The term of this Agreement shall commence on the Effective Date and shall continue in perpetuity unless earlier terminated by either of the Parties upon ninety (90) days’ written notice to the other Party.

#### 10. Updates

This Agreement or Alliance should be reviewed (at a minimum of once every 2 years) and updated as needed and reapproved if changes are made. The SNIA Strategic Alliance Committee (SAC) and The Green Grid (TGG) are jointly responsible for keeping this document up to date.

#### 11. Severability

If any provision or portion of this Agreement is determined to be unenforceable in arbitration or by a court of competent jurisdiction, then the remaining portion of the Agreement shall remain in full effect.

#### 12. Relationship of the Parties.

This Agreement shall not be deemed to create any relationship of agency, partnership, or joint venture between the Parties.

13. Notices

All notices and demands of any kind or nature which either Party may be required or may desire to serve upon the other in connection with this Agreement shall be in writing and may be served personally, by certified mail, by email or by commercial overnight delivery, with constructive receipt deemed to have occurred one (1) calendar day after the mailing, sending or transmitting of such notice, to the following addresses, or such other addresses the Parties may provide in writing from time to time:

If to TGG:  
700 K. Street NW, Suite 600  
Washington, D.C. 20001  
Email: greengrid-admin@itic.org

If to SNIA:  
4360 ArrowsWest Drive  
Colorado Springs, CO 80907-3444  
Email: emerald@snia.org

14. Governing Law

This Agreement shall be governed by and construed in accordance with the laws of the District of Columbia, without regard to the conflicts of law rules thereof.

15. Dispute Resolution

In the event of a dispute between the Parties regarding the implementation or interpretation of any provision of this Agreement, the Parties shall initially attempt to resolve the dispute by negotiations between the Parties for a period of ninety (90) days from the date the dispute arises, or for a longer period if an extension is agreed to by the Parties. The exclusive forum for resolution of any dispute that cannot be resolved through negotiations between the Parties is arbitration administered by the International Centre for Dispute Resolution in accordance with its International Arbitration Rules by a panel of three (3) arbitrators. The arbitration shall take place in the District of Columbia, United States of America, and shall be conducted in the English language. The decision of the arbitral tribunal will be final and binding on the Parties and will be enforceable in any courts having jurisdiction. The arbitral tribunal will have the right to award or include in its award any relief it deems proper, including money damages and interest on unpaid amounts, specific performance and legal fees and costs in accordance with this Agreement; however, the arbitral tribunal may not award punitive, consequential or exemplary damages. The costs and expenses of arbitration will be allocated and paid by the Parties as determined by the arbitral tribunal.

16. Waiver

Either Party's waiver of, or failure to exercise, any right provided for in this Agreement shall not be deemed a waiver of any further or future right under this Agreement. No waiver of any right, obligation, restriction or breach under this Agreement will be effective or binding unless it is specifically set forth in a writing signed by the Party against whom enforcement of such waiver is sought.

#### 17. No Third-Party Beneficiaries

Nothing in this Agreement shall create or be deemed to create any rights in any person or entity other than the Parties hereto and their permitted assigns.

#### 18. Complete Agreement; Amendment

This Agreement, together with all appendices and schedules hereto, represents the entire Agreement between the Parties with respect to the subject matter hereof and supersedes all prior negotiations, representations, communications, understandings, or agreements, between the Parties, whether written or oral, concerning its subject matter. This Agreement shall not be amended except by a written instrument signed by the Parties.

#### 19. Counterparts

The Parties agree that this Agreement may be executed in one or more counterparts, including in Portable Document Format (PDF), each of which shall be deemed an original and all of which taken together shall constitute one and the same instrument. The Parties acknowledge and agree that this Agreement may be executed by electronic signature (including electronically transmitted versions of an original signature and digital signatures) which shall be deemed an original signature and shall have the same force and effect as an original signature.

#### 20. Representation on Authority of Signatories

Each person signing this Agreement represents and warrants that he or she is duly authorized to execute and deliver this Agreement. Each Party represents and warrants to the other Party that the execution and delivery of the Agreement and the performance of such Party's obligations hereunder have been duly authorized, and that the Agreement is a valid and legal agreement binding on such Party and enforceable in accordance with its terms.

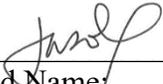
***[Signature Page Follows]***

IN WITNESS WHEREOF, the Parties hereto have caused duplicate originals of this Agreement to be executed by their duly authorized representatives.

STORAGE NETWORKING INDUSTRY ASSOCIATION

By: \_\_\_\_\_ SNIA Board of Directors \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_ 1/27/2022 \_\_\_\_\_

THE GREEN GRID, a division of  
INFORMATION TECHNOLOGY INDUSTRY COUNCIL, INC. (ITI)

By:  \_\_\_\_\_  
Printed Name: \_\_\_\_\_ Jason Oxman \_\_\_\_\_  
Title: \_\_\_\_\_ President and CEO, ITI \_\_\_\_\_  
Date: \_\_\_\_\_ October 11, 2021 \_\_\_\_\_

## Appendix A: Milestones / Dates

*This section contains the list of milestones that will be accomplished by the alliance partnership. Milestones should be oriented towards specific objectives that have a predefined completion date. For example, white papers, profiles, best practice documents, participation in SNIA or other IT events, and contributions to SNIA or other organization specifications.*

These dates are for the Alliance Agreement review and approval events only. All other specific milestones will be detailed in Work Registers, rather than here in the Alliance Agreement itself, to easily allow for expansion of the alliance in the future.

## Alliance Record Review Date

To be reviewed every two years, or when new terms are necessary to be added to the Alliance Agreement (whichever comes first).

## Contacts

*Identify one or more members from each organization that will act as points of contact between the two organizations.*

TGG	Name	Email	Tel
TGG Storage Committee chair	Donald Goddard	Donald.Goddard@netapp.com	
TGG Staff	Erica Thomas Valrie Dyhouse	admin@thegreengrid.org	

SNIA	Name	Email	Tel
GSI Co-Chair	Wayne Adams	waynemadams@gmail.com	
GSI Co-Chair	Chris Lueth	<a href="mailto:Chris.Lueth@netapp.com">Chris.Lueth@netapp.com</a>	
Green TWG Co-chair	Donald Goddard	Donald.Goddard@netapp.com	
Green TWG Co-chair	Herb Tanzer	herbtanz@gmail.com	

## Appendix B: Approval Matrix

This section will not be published on the SNIA website, but will be refreshed any time changes are made or additional Work Registers are added.

	Decision	Date	Comments
SNIA GSI/GreenTWG		Q3 2021	
SNIA Strategic Alliance Committee (SAC)		Q4 2021	
SNIA Board of Directors (BOD)		Q4 2021	

	Decision	Date	Comments
TGG Storage Committee		Q3 2021	
TGG Lawyer		Q3 2021	
TGG Executive Leadership Council		Q3/Q2 2021	
ITI Strategic Alliances			

## Appendix C: Work Register

Initiated: July 2020

This Work Register is created between SNIA and TGG to formally define the scope, benefits, and deliverables of the alliance. The register helps all organizations coordinate efforts to achieve the stated goals and objectives. This document is to replace the outdated TGG/SNIA MOU.

### Activities/Milestones/Dates

The following activities are listed as definitive objectives to occur during the duration of this work register, but this list does not limit other additional collaborative activities in any way.

Milestone/Deliverables	Resp. Team	Timeframe
Update Joint TGG/SNIA Storage Whitepaper #77	TGG	CY 2021
Stakeholder meetings with EPA for DCS	SNIA	Ongoing
Responses to EU Lot 9	TGG	Ongoing
Responses to TopRunner (Japan)	SNIA/SNIA-J	CY 2021
SNIA Emerald V4.0 Industry Stakeholder Training	SNIA	Q3 2020
Response to ETSI (France)	TGG	As needed
Response to Blue Angel (Germany)	TGG	As needed

## **Work Register Review Date**

The next review date is expected to be on or before December 2023

## **Additional Resources Identified / Points of Contact:**

- SNIA Emerald Program Manager, David Thiel, [David.thiel@snia.org](mailto:David.thiel@snia.org) or [emerald@snia.org](mailto:emerald@snia.org)
- TGG Staff, Erica Thomas, [Ethomas@itic.org](mailto:Ethomas@itic.org)
- TGG Staff general, [admin@thegreengrid.org](mailto:admin@thegreengrid.org) and greengrid-admin@itic.org

## **Appendix C: Past Joint Deliverables from TGG/SNIA Alliance**

SNIA/EPA Stakeholder Meetings: 2015, 2017, 2018, 2019, 2020, 2021

<https://www.snia.org/emerald/stakeholder-meetings>

TGG/SNIA Responses to EU Lot 9, submitted through Digital Europe, ongoing since EU Lot 9 focus on storage

[https://ec.europa.eu/growth/industry/sustainability/ecodesign/product-groups\\_en](https://ec.europa.eu/growth/industry/sustainability/ecodesign/product-groups_en)

Whitepaper Published by TGG Titled

The Green Grid Data Center Storage Productivity Metrics (DCsP)

White Paper #58, September 30, 2014 (published)

<https://www.thegreengrid.org/en/resources/library-and-tools/234-WP>

Whitepaper Published by TGG Titled

The Green Grid WP#77, February 13, 2018 (published)

ENERGY EFFICIENT DATA CENTER STORAGE

<https://www.thegreengrid.org/en/resources/library-and-tools/469-WP#77--->

[Energy-Efficient-Data-Center-Storage](https://www.thegreengrid.org/en/resources/library-and-tools/469-WP#77---Energy-Efficient-Data-Center-Storage)

SNIA-Japan translation of WP#77

[https://www.snia-j.org/cmm/images/2018/09/GSI\\_WhitePaper\\_2018\\_1\\_V1J.pdf](https://www.snia-j.org/cmm/images/2018/09/GSI_WhitePaper_2018_1_V1J.pdf)

Storage Input to Data Center Technology Adoption Planning Tool

DATA CENTER MATURITY MODEL, June 2015 (Published)

<https://www.thegreengrid.org/en/resources/library-and-tools/438-Data-Center-Maturity-Model>

DCIM Requirements for SNIA Swordfish, 2019, 2020

On request, SNIA or TGG representative(s) to attend SNIA or TGG member symposiums, to attend meetings, provide organization overviews, and or projects underway, since 2009

## **Appendix D – Description of SNIA Work Groups and Activities**

1. SNIA Green TWG Calls
  - GreenTWG hosts a call every week, Wednesday 11am-1pm PT. Several members of the GreenTWG are also members of the TGG Storage Committee. These members are the conduit to provide TGG material confidentially to SNIA Green TWG and to facilitate SNIA Green TWG content submission to TGG Storage Committee.
2. TGG Storage Committee Calls
  - TGG Storage Committee hosts a call as needed. Several members of the TGG Storage Committee are also members of the SNIA GreenTWG. These members are the conduit to provide TGG material confidentially to SNIA Green TWG and to facilitate SNIA Green TWG content submission to TGG Storage Committee.
3. SNIA/EPA Stakeholder Meetings
  - SNIA and EPA on a periodic basis schedule industry stakeholder meetings to respectively share relevant details for the SNIA Emerald Specification and the ENERGY STAR Data Center Storage specification, since the EPA Specification relies on the SNIA Specification. Typical and common of a stakeholder meeting is to discuss trends, data analysis, and forward looking plans. TGG is an organizational participant in the stakeholder meetings.
4. SNIA Member/Technical Symposiums
  - SNIA throughout the course of a 12 month year will hold a Member Symposium meeting in January and a series of Technical Symposiums (up to 4). A symposia is typically 3.5 days, of which a TWG usually meets for 2 days and may opt to hold 1-1.5 days of additional meetings that may encompass SNIA/EPA Stakeholder meeting and or SNIA Emerald Technical Training.