

SNIA 2009 WINTER SYMPOSIUM GUIDE

An abstract graphic composed of several squares of different sizes and colors (purple, lime green, and grey) arranged in a non-uniform, overlapping pattern on the right side of the page.

JANUARY 20 - 23, 2009
SAINTE CLAIRE HOTEL
SAN JOSE, CA



Welcome

Welcome Symposium Attendees!

On behalf of the SNIA Board of Directors, Technical Council, Committee, Forum and Initiative Leaders, and the entire SNIA Staff, it is my pleasure to welcome you to our 2009 Winter Symposium in San Jose, California.

With a host of daily meetings and a number of evening activities we have created an agenda that allows our members to continue the long legacy of SNIA Symposia by bringing groups together in a face-to-face setting so they may work on projects that help advance the core strategic goals of the SNIA—from standards development to educational programs to marketing initiatives. In addition, we have dedicated three days to Cloud Storage and are offering tutorials on other hot topics. Check out the agenda carefully—you'll definitely want to plan your days!

This Symposium we are delighted to welcome keynote speaker: Greg Schulz, Founder and Senior Analyst, StorageIO. Greg will present a Storage Industry Update for 2009 on Wednesday morning immediately following my opening remarks at 8:15 AM.

For new or prospective members, we offer a session called "Introducing the SNIA and the Symposium Experience: A Brief Orientation and Q&A" which will occur on Monday from 5-6 PM. This informal session will introduce newcomers to the Association as well provide some basics on navigating the Symposium so you'll get the most out of your time in San Jose.

During lunch on Wednesday and Thursday, we will feature SNIA Forum and Initiative Panel discussions, which will be moderated by S.W. Worth, SNIA Board Member. These discussions will cover respective industry challenges and opportunities in 2009.

Finally, we have several Birds-of-a-Feather (BOF) sessions in the evenings. These 1-2 hour programs cover topics as wide ranging as "Why SMI-S is Important to Vendors" (Tuesday, 5-6 PM), "The SNIA IP Policy Explained" (Tuesday, 6-7:30 PM), "End Users and Governments: Implementing PUE for Data Center Energy Efficiency" (Tuesday, 6-7:30 PM), and "Storage in the Clouds" (Thursday 6-7 PM). We'll have light snacks and sodas at all the BOFs so plan to hold out for a late dinner.

SNIA Symposia provide me and the Board of Directors with the opportunity to recognize and applaud our volunteer members' efforts. From technical standards development, marketing work, conferences and education, as well as the many other good works within the SNIA, your best efforts have been essential and invaluable to the Association. To that end, we will be honoring three key SNIA 2008 contributors during Wednesday's evening reception so please be sure to attend.

Personally, I look forward to another productive Symposium, and I encourage you to take the opportunity to network, get involved, and become an active participant in our vibrant association. Furthermore, I would like to express our gratitude for the value that attendees place on the Symposium, as well as their employers' support of their time and expense to travel to Symposia. The SNIA recognizes its momentum is retained through everyone's direct participation. Enjoy the week!

Best regards,

A handwritten signature in black ink, appearing to read "Wayne M. Adams". The signature is fluid and cursive, with the first name "Wayne" being more prominent.

Wayne M. Adams
Chairman, SNIA

Table of Contents

SNIA 2009 WINTER SYMPOSIUM

Symposium Agenda	4 - 7
General Information	8 - 11
Cloud Storage Summit	12
SNIA Tutorials & Presentations	13 - 14
Birds-of-a-Feather Meetings	15
Group & Session Descriptions	16 - 27

Agenda

TUESDAY, JANUARY 20, 2009

Time	Session	Location
7:30 AM - 8:30 AM	Continental Breakfast	Ballroom
7:30 AM - 5:00 PM	Registration	Grand Ballroom Foyer
8:30 AM - 5:00 PM	SMI-S Technical Track (managed by SMI TSG)	Saratoga
9:00 AM - 12:00 PM	XAM Initiative	Boardroom
9:30 AM - 3:00 PM	“Green Storage TWG sub-group Meetings: Design Metrics & Spec Metrics”	Santa Vesta
10:00 AM - 10:45 AM	Refreshments available (session breaks as determined by Chairs)	Grand Ballroom Foyer & Sainte Claire Foyer
10:30 AM - 12:00 PM	Strategy Committee (private)	Suite 217
12:00 PM - 1:15 PM	LUNCH ON YOUR OWN	
12:00 PM - 6:00 PM	Solid State Storage Initiative (SSSI)	Courtyard Room
1:15 PM - 5:00 PM	Cloud Storage Summit Day I (See page 12 for details)	Sainte Claire
2:00 PM - 3:00 PM	SNIA Tutorial - Technologies for Green Storage	Ballroom
2:30 PM - 3:30 PM	Refreshments available (session breaks as determined by Chairs)	Grand Ballroom Foyer & Sainte Claire Foyer
3:00 PM - 4:00 PM	PRESENTATION: Technical Overview of SNIA Green Storage Power Measurement Technical Specification v0.0.17 DRAFT	Ballroom
3:00 PM - 5:00 PM	Green Storage TWG Sub-group Meeting: Power Supply	Santa Vesta
5:00 PM - 6:00 PM	“Introducing the SNIA and the Symposium Experience: A Brief Orientation and Q&A”	Courtyard Atrium
5:00 PM - 6:00 PM	BOF: Why SMI-S is Important to Vendors	Ballroom
6:00 PM - 7:30 PM	BOF: End Users and Governments Implementing PUE for Datacenter Energy Efficiency - The Green Grid	Ballroom
6:00 PM - 7:30 PM	BOF: The SNIA IP Policy Explained	Courtyard Room
7:30 PM - 9:00 PM	SNIA Staff Dinner Meeting (private)	Grand Suite 631

Agenda

WEDNESDAY, JANUARY 21, 2009

Time	Session	Location
7:30 AM - 8:30 AM	Continental Breakfast	Ballroom
7:30 AM - 5:00 PM	Registration	Grand Ballroom Foyer
8:15 AM - 9:30 AM	<p>“Welcome & Opening Comments by Wayne M. Adams, SNIA Chairman</p> <p>KEYNOTE: Storage Industry Update V2.009: Chaos and Opportunity –What’s the Buzz! Greg Schulz, Founder and Senior Analyst, StoragelO”</p>	Ballroom
9:30 AM - 5:00 PM	Cloud Storage Summit Day II (See page 12 for details)	Sainte Claire
9:30 AM - 5:00 PM	Green Storage TWG	Santa Vesta
9:30 AM - 5:00 PM	SMI-S Technical Track (managed by SMI TSG)	Saratoga
9:30 AM - 12:00 PM	XAM Software Development Kit (XAM SDK) TWG	Santa Cruz
9:30 AM - 12:00 PM	Solid State Storage Initiative (SSSI)	Courtyard Room
9:30 AM - 12:00 PM	Standards Committee	Boardroom
10:00 AM - 10:45 AM	Refreshments available (session breaks as determined by Chairs)	Grand Ballroom Foyer & Sainte Claire Foyer
10:00 AM - 12:00 PM	Security TWG	Suite 217
12:00 PM - 1:15 PM	<p>Lunch: Forum and Initiative Panel - Leadership of SNIA’s Forums and Initiatives Discuss their Respective Industry Challenges and Opportunities in 2009 (Moderated by Wayne M. Adams, SNIA Board Chairman)</p>	Ballroom
1:15 PM - 5:00 PM	Storage Security Industry Forum (SSIF)	Santa Cruz
1:15 PM - 4:00 PM	Storage Management Initiative (SMI) Marketing	Boardroom
2:30 PM - 3:30 PM	Refreshments available (session breaks as determined by Chairs)	Grand Ballroom Foyer & Sainte Claire Foyer
3:30 PM - 5:00 PM	SNIA Staff Management Team Meeting (private)	Suite 217
1:15 PM - 6:00 PM	Trusted Computing Group (TCG) Presentation: ”Solid State Storage Security Standards, Specifications, and Requirements”	Courtyard Room
4:00 PM - 5:00 PM	Storage Management Initiative (SMI) Governing Board	Boardroom
5:00 PM - 7:00 PM	SNIA Reception and Recognition Awards	Courtyard Atrium
7:00 PM - 8:00 PM	Technical Work Group (TWG) Leadership Meeting with the SNIA Technical Council	Saratoga

Agenda

THURSDAY, JANUARY 22, 2009

Time	Session	Location
7:45 AM - 8:30 AM	Continental Breakfast	Ballroom
7:30 AM - 5:00 PM	Registration	Grand Ballroom Foyer
8:30 AM - 5:00 PM	Cloud Storage Summit Day III (See page 12 for more detail)	Sainte Claire
8:30 AM - 12:00 PM	Green Storage Initiative	Santa Vesta
8:30 AM - 12:00 PM	FCAS TWG	Boardroom
8:30 AM - 12:00 PM	NDMP Software TWG	Suite 217
8:30 AM - 12:00 PM	Strategic Alliances Committee	Grand Suite 631
8:30 AM - 3:00 PM	Education Committee	Santa Cruz
8:30 AM - 5:00 PM	SMI-S Technical Track (Managed by SMI TSG)	Saratoga
8:30 AM - 5:00 PM	Solid State Storage TWG	Courtyard Room
10:00 AM - 10:45 AM	Refreshments available (session breaks as determined by Chairs)	Grand Ballroom Foyer & Sainte Claire Foyer
12:00 PM - 1:15 PM	Lunch: Forum and Initiative Panel - Leadership of SNIA's Forums and Initiatives Discuss their Respective Industry Challenges and Opportunities in 2009 (Moderated by Wayne M. Adams, SNIA Board Chairman)	Ballroom
1:15 PM - 5:00 PM	Green Storage Initiative Marketing Committee	Santa Vesta
1:15 PM - 3:00 PM	2009 Storage Developer Conference Taskforce	Boardroom
1:15 PM - 3:00 PM	IP Storage (IPS) TWG	Suite 217
2:30 PM - 3:30 PM	Refreshments available (session breaks as determined by Chairs)	Grand Ballroom Foyer & Sainte Claire Foyer
3:00 PM - 5:00 PM	SNW Hands On Lab Planning Meeting	Santa Cruz
5:30 PM - 7:30 PM	BOF: "Storage in the Clouds"	Ballroom

Agenda

FRIDAY, JANUARY 23, 2009

Time	Session	Location
7:45 AM - 8:30 AM	Continental Breakfast	Ballroom
7:30 AM - 12:00 PM	Registration	Grand Ballroom Foyer
8:30 AM - 12:00 PM	Solid State Storage TWG	Courtyard Room
8:30 AM - 5:00 PM*	Data Integrity TWG	Santa Vesta
8:30 AM - 5:00 PM*	Object-based Storage Device (OSD) TWG	Santa Cruz
8:30 AM - 5:00 PM*	SMI-S Technical Track (managed by SMI TSG)	Saratoga
10:00 AM - 10:45 AM	Refreshments available (session breaks as determined by Chairs)	Grand Ballroom Foyer & Sainte Claire Foyer
12:00 PM - 1:15 PM	Lunch	Ballroom
2:30 PM - 3:30 PM	Refreshments available (session breaks as determined by Chairs)	Grand Ballroom Foyer & Sainte Claire Foyer

* NOTE: Friday meetings may end before 5pm, depending on the group's individual agenda.

General Information

Welcome to the SNIA 2009 Winter Symposium! This guide is designed to assist you in maximizing the benefit of your participation in the Symposium, whether you will be physically attending, or virtually attending by calling into the meetings during the week.

The SNIA Symposium's primary function is to bring together SNIA's Forums, Initiatives, Committees, and Technical Work Groups in face to face meetings to collaborate on the various projects that help advance the mission of the association.

Below are some key terms you are likely to encounter during an SNIA Symposium:

- **Forum** – A SNIA Forum is a group of SNIA Members that focus on technology specific marketing and education activities.
- **Initiative** – A SNIA Initiative is a group of SNIA Members that furthers the SNIA's purpose to develop specifications, infrastructure, and proposed standards via SNIA's normal standards development process. The primary distinction between a Forum and an Initiative is that an Initiative is charted to do technical work via a SNIA Technical Work Group whereas a Forum is not.
- **Committee** – A SNIA Committee is a group of SNIA Members that focus on specific marketing and education activities that do not fall under a specific Forum.
- **Technical Work Group** – A SNIA Technical Work Group (TWG) is a group of SNIA Members that carry out original technical work of the organization. There are multiple Technical Work Groups working on a variety of technical topics.

Intellectual Property Notice

If you plan to attend any Technical Work Group and/or SMI-S Technical Steering Group (TSG) meeting:

"You are hereby informed that, under the SNIA IP Policy, your presence at a Technical Work Group meeting may obligate you and/or your company/organization with respect to any of the work items of the SNIA Technical Work Group whose meeting you attend." Attending an SMI-S Technical Steering Group (TSG) meeting is to be considered as attending a meeting of all the Technical Work Groups involved in SMI-S technical development concurrently.

TWG Meeting Participation Guidelines

Most of our Technical Work Groups (TWGs) convene at our Symposium to work on detailed technical specifications. These meetings are the continuation of an ongoing schedule established to achieve critical objectives and deadlines. Therefore, the agendas of TWG meetings are highly focused, and time management during these sessions is of great importance. SNIA Members are welcome to attend TWG meetings, but please recognize and consider that the TWG Chair and participants may not have the time to provide full updates on the group's current work due to the intensity of the activity and time and agenda constraints. During breaks or after the meeting, feel free to ask the TWG Chair about the best way for you to get updated on or possibly participate in the TWG.

If your company is not a SNIA Member, or your company is a SNIA Member but has not joined the TWG whose meeting you are attending, your participation in the TWG meeting is restricted to that of an "observer." In addition to the time and focus factors mentioned above, this restriction is primarily due to SNIA policies around Intellectual Property. For questions on TWG policies and procedures, please contact Arnold Jones at 407-574-7273, arnold.jones@snia.org.

General Information

Internet Access

1. Connect to wireless network named “Sainte Claire”
2. Open your web browser
3. Follow the on-screen instructions, and enter “larkspur” for username and “hotel1” for password

Help Desk

The Registration desk at the Symposium also serves as a help desk. During the Symposium if you have any questions please stop by the Registration desk. SNIA Staff Members will also be available to assist at any time throughout the Symposium. Look for their badges and/or SNIA name plates.

Parking

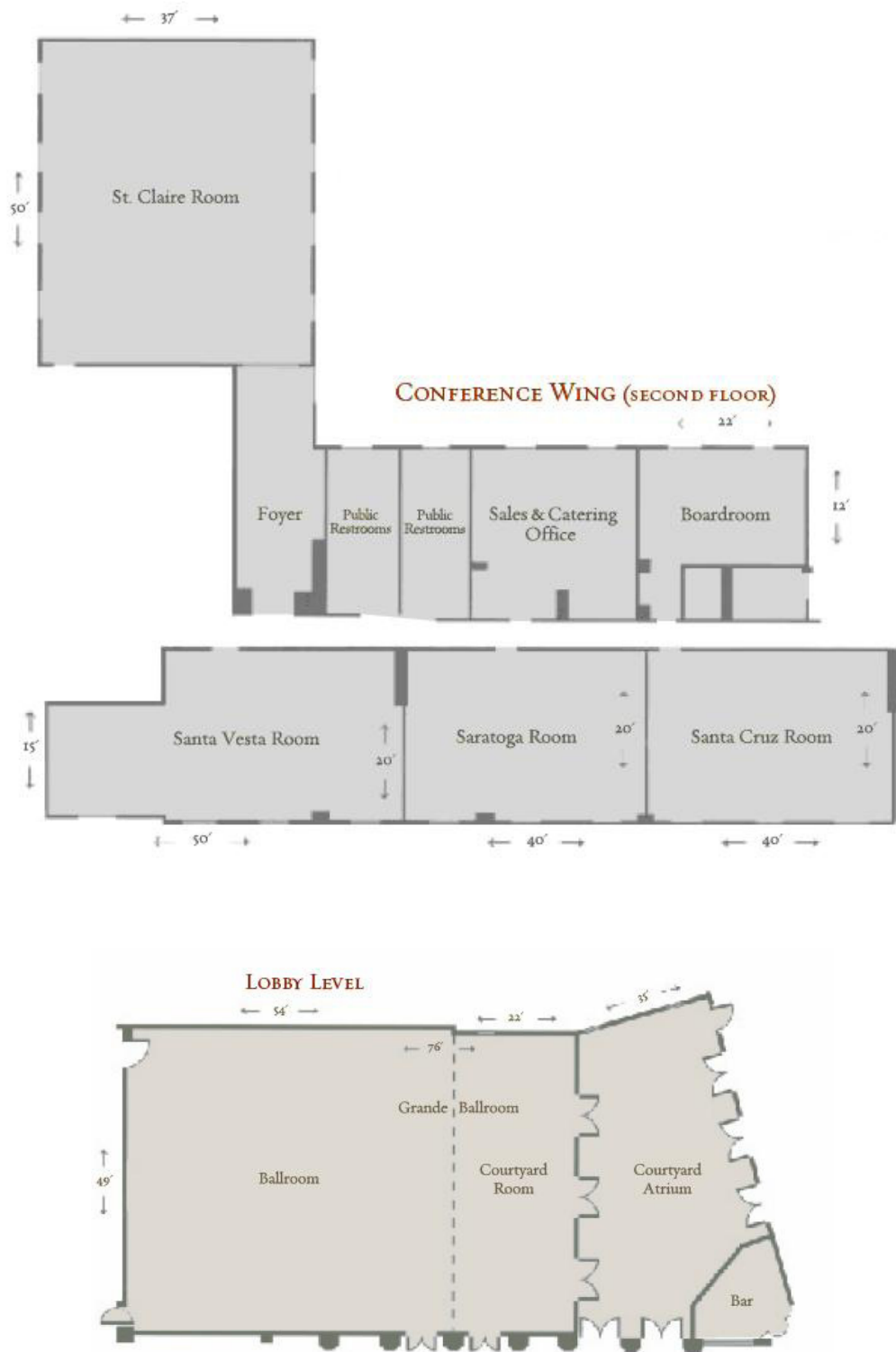
Be sure to request SNIA discounted rate for daily parking when you arrive. Daily parking is \$15 and overnight is \$21.

Abbreviations Decoder

BOF	Birds-of-a-Feather
CDP	Continuous Data Protection
CTP	Compliance Test Program
DDF	Disk Data Format
DMF	Data Management Forum
DRM	Disk Resource Management
EdComm	SNIA Education Committee
FCAS	Fixed Content Aware Storage
GSI	Green Storage Initiative
ILM	Information Lifecycle Management
IP	Intellectual Property
LTACSI	Long Term Archive and Compliant Storage Initiative
LTR	Long Term Retention
SAC	Strategic Alliances Committee
SIG	Special Interest Group
SMI	Storage Management Initiative
SMI-S	Storage Management Initiative Specification
SSIF	Storage Security Industry Forum
SSSI	Solid State Storage Initiative
TC	Technical Council
TSG	Technical Steering Group
TWG	Technical Work Group
XAM	eXtensible Access Method

General Information

Sainte Claire Hotel Floor Plan



General Information

SNIA Onsite Staff Contact Information

For a complete listing of SNIA employees and titles please visit our website.

Onsite Staff Person	Cell Phone	Areas of Responsibility
Lesley Baker	610-368-1736	SNIA Marketing Activities
Rick Bauer	719-491-3752	Educational and Technical Programs - Technology Center
Serena Buckholz	415-760-6454	Website
Donna Cookston	415-420-2145	Operations and Accounting
Marilyn Fausset	207-467-1412	SMI Technical Writing
Arnold Jones	407-435-1067	Technical Work Groups
Leo Leger	508-254-4932	Management of the Association
John Malia	719-963-0889	Technology Systems and Support Engineer
Tom Mancuso	719-491-2614	SMI Program Management
Lisa Mercurio	617-957-1719	Event Management
Jodie Rodriguez	732-618-7998	Operations and Project Coordination
Jay Savell	978-844-3372	Membership Services, Sponsorship Opportunities

Upcoming Storage Events:

2009 Storage Developer Conference

Where the Storage Development Community Connects!

September 14-17, 2009

Santa Clara, California

Hyatt Regency Hotel

www.storage-developer.org

Storage Networking World Spring 2009

The world's largest and foremost storage networking event - where IT management and professionals learn, network and maximize their company's storage capabilities.

April 6-9, 2009

Orlando, FL

Rosen Shingle Creek

www.snwusa.com

Please visit <http://www.snia.org/about/calendar> for the complete SNIA Events Calendar.

Cloud Storage Summit

There is no doubt that the topics of Cloud, Cloud Computing, Cloud Services, or Cloud Storage, have the attention of many IT professionals, developers, marketers, press, and analysts. Why? Simply because it is rightly or wrongly perceived as a major shift in IT trends. The ability to remotely “borrow” for a fee various IT components, hardware or software, virtualized or real, through a specialized or open interface, is attracting many IT professionals, simple IT users, large corporations or SMB/SME. One can easily foresee the kind of impact it can have on more traditional IT operations in terms of resource management, adaptability and possibly on the benefits for the overall IT spending – but there’s no consensus about what the real benefits are. Storage is amongst the early services proposed by existing Cloud players, services providers and Cloud technology providers, small and very large companies. Many questions already exist about Cloud Storage and other types of Cloud regarding the Enterprise readiness of such solutions, the co-existence of cloud resources with existing assets in the Enterprise, the management of SLA across multiple providers or the integration of different cloud services in a single production environment.

During this Symposium, representatives of the Storage and Cloud industry will meet to discuss and identify key IT industry developments to make Cloud Storage successful in the Enterprise and in other business segments.

Agenda

Time	Topic	Speaker
Day 1 Tuesday, January 20		
1:00 PM - 2:00 PM	Storage Requirements for Cloud Deployments	Clod Barrera, IBM
2:00 PM - 3:00 PM	S3	Alyssa Henry, Amazon
3:30 PM - 4:30 PM	XAM and Metadata for Cloud Storage	Mark Carlson, Mark Saussure, SNIA XAM Initiative
4:30 PM - 5:30 PM	Cloud Computing Adoption Model	Brett Adam, rPath
5:30 PM - 6:30 PM	Cloud Storage	Jim Zierick, Nirvanix
Day 2 Wednesday, January 21		
9:30 AM - 10:30 AM	Cloud Applications	Raju Vegesna, Zoho
10:45 AM - 11:45 AM	Software for Building Private Clouds	Philippe Boyon, Active Circle
1:15 PM - 2:15 PM	SNIA Technical Council Cloud Q&A	SNIA TC Members
2:15 PM - 3:15 PM	BingoDisk	Ben Rockwood, Joyent
3:30 PM - 4:30 PM	Cloud Computing Management	Randy Bias, GoGrid
4:30 PM - 5:30 PM	Hadoop	Dhruba Borthakur
Day 3 Thursday, January 22		
8:30 AM - 9:30 AM	The Cloud Storage Market and Trends	Russ Fellows, Evaluator Group
9:30 AM - 10:30 AM	Cloud Storage	Andrew Reichman, Forrester
10:45 AM - 11:45 AM	Lessons Learned from Cloud Storage 1.0 (the SSP days)	John Webster, Illuminata
1:15 PM - 2:15 PM	Cloud Storage	Jim Baty, Sun Microsystems
2:15 PM - 3:15 PM	Dispersed Storage Open Source Project	Chris Gladwin, Cleversafe
3:30 PM - 4:30 PM	Cloud Storage	Sajai Krishnan, Oleg Kiselev and Cameron Bahar, Parascala
4:30 PM - 5:30 PM		Analyst Panel Discussion
6:00 PM - 7:00 PM	Cloud Storage BOF	Open Discussion and Q&A

SNIA Tutorials & Presentations

■ **KEYNOTE SPEAKER - Greg Schulz, Founder and Senior Analyst, StoragelO** **Storage Industry Update V2.009: Chaos and Opportunity –What’s the Buzz!**

Wednesday, January 21, 8:15 AM - 9:30 AM

To say that times are tough would be an understatement, yet, with the financial markets and economic chaos, for many organizations, the show must go on. However, it's not business as usual; it's doing more work, and processing and storing more information in a given footprint and at a lower cost than in the past. Yet in all of the current chaos and conditions, there are near-term tactical as well as long-term strategic opportunities in the storage networking and data management ecosystem. Author and industry analyst Greg Schulz of StoragelO will share his thoughts and perspectives on industry trends, what's the buzz, along with what he is seeing and hearing from IT organizations, VARs, vendors and others from around the world.

About Greg Schulz

Founder, Sr. Consulting Analyst, The StoragelO Group

As founder of the IT industry analyst and consultancy firm StoragelO (www.storageio.com), Mr. Schulz has worked as a programmer, systems administrator, disaster recovery consultant, and capacity planner for various IT organizations. He has worked for several vendors before joining an industry analyst firm and later forming StoragelO. In addition to his analyst and research duties, Greg is a prolific writer, blogger, and sought after speaker appearing regularly at venues around the world. Greg is author of the new book "The Green and Virtual Data Center" (Auerbach) and of the SNIA endorsed book "Resilient Storage Networks (Elsevier)." Learn more at www.thegreenandvirtualdatacenter.com.

■ **FORUM AND INITIATIVE PANEL**

Leadership of SNIA's Forums and Initiatives Discuss their Respective Industry Challenges and Opportunities in 2009

Moderated by Wayne M. Adams, SNIA Board Chairman

Wednesday, January 21 & Thursday, January 22, 12:00 PM - 1:15 PM

■ **SNIA TUTORIAL**

Technologies for Green Storage

Tuesday, January 20, 2:00 PM - 3:00 PM

Hardware efficiencies are essential to reducing the amount of power used by storage. Equally real savings are obtained by reducing the number of copies of your data that must be made, kept and managed. This talk presents a number of technologies, ranging from thin provisioning and virtualization to flywheel UPSs, that each address part of the problem, and illustrates the impact that each technology can have on your data center footprint.

Learn about snapshots, deduplication, writeable clones, compression, thin provisioning, and other green storage technologies. Learn how each green storage technology can help your business reduce its data center footprint.

SNIA Tutorials & Presentations

■ PRESENTATION

Technical Overview of SNIA Green Storage Power Measurement Technical Specification v0.0.17 DRAFT

Tuesday, January 20, 3:00 PM - 4:00 PM

Erik Riedel, SNIA Green Storage TWG Chair, will present a technical overview of the recently released first draft of the Green Storage Power Measurement Technical Specification.

■ PRESENTATION

Introducing the SNIA and the Symposium Experience: A Brief Orientation and Q & A

Tuesday, January 20, 5:00 PM - 6:00 PM

This Symposium session will provide a brief introduction to the SNIA - including its mission, key activities, organization, leadership, and staff. An overview of SNIA membership benefits will be provided along with highlights of SNIA technology, education, and event programs. Our work in specifications and standards will be outlined as well as an orientation to our Forums and Initiatives.

We will provide “tips” and advice on how to understand and leverage the SNIA Symposium “experience” in order to make the most of your participation in our planned sessions, meetings, BOFs, and other activities. Questions and Answers will follow the presentation and discussion.

■ TRUSTED COMPUTING GROUP (TCG) PRESENTATION

“Solid State Storage Security Standards, Specifications, and Requirements”

Wednesday, January 21, 1:15 PM - 6:00 PM

Representatives from the Trusted Computing Group and IEEE 1667 will present overviews, status, and recommendations for Solid State Storage security (encryption, key exchange, authentication, etc) to members of the SSSI and SSS TWG.

Birds-of-a-Feather Meetings

■ **BOF: Why SMI-S is Important to Vendors**

Tuesday, January 20, 5:00 PM - 6:00 PM

This BOF talks about why SMI-S continues to be important for storage networking vendors - device, application, and solutions vendors. One of the concerns some vendors voice is that end users are not asking for SMI-S. But end users often ask for solutions that address a problem solved by a standard, rather than demanding the standard by name. This presentation talks about how end user requests for multi-vendor storage configurations, a common management console, or “stop making me use multiple vendor-specific tools” can be addressed by SMI-S solutions.

Meeting Details:

Conference Call Information:

Toll-free: 1-866-548-4703

Passcode: 888999

Webex Information:

snia.webex.com

Join: “Why SMI-S is important to Vendors” meeting

Meeting Password: smis2009

■ **BOF: End Users and Governments Implementing PUE for Data Center Energy Efficiency**

Tuesday, January 20, 6:00 PM - 7:30 PM

The Green Grid will introduce both end users and governmental interests actively contributing to its global impact in developing and promoting standards, measurement methods, processes and technologies to improve overall data center energy efficiency worldwide. The discussion will also present businesses implementing PUE metrics, and the associated impacts on their businesses within various industries.

■ **BOF: The SNIA IP Policy Explained**

Tuesday, January 20, 6:00 PM - 7:30 PM

Presented by Winston Bumpus, Green Grid Director and Director of Standard Architecture, VMware, this BOF will be an explanation of the requirements and restrictions of the SNIA IP Policy. It will be led by Michael Duncheon, SNIA’s legal representative who was involved in the drafting of and who has knowledge of the origin and intent of the IP Policy, along with Phil Mills, SNIA’s Secretary on the Board of Directors. It will include a comparison with other IP Policies from other standards development organizations highlighting the similarities and the differences. Additionally, the Waiver to this IP Policy will be described, with commentary on who may sign the waiver and the consequences of doing so. If you’ve ever been confused by this IP Policy, or have had questions about it that you didn’t get answered to your satisfaction, please come to this BOF.

■ **BOF: Storage in the Clouds**

Thursday, January 22, 5:30 PM - 7:30 PM

Is Cloud just the latest buzzword for existing technology? Has it been defined effectively? Is anyone making money from it? Should SNIA get involved? If so, what role should my company play?

Join us as we discuss and debate the role Cloud should play in the industry and in SNIA. Bring your ideas, opinions, and questions as SNIA considers its role in Cloud Storage.

Group & Session Descriptions

Below you will find descriptions for each of the groups participating in the Winter Symposium listed in alphabetical order. Take a moment to locate groups that are of interest to you to aid your Symposium schedule planning. If an agenda was supplied, you will find it following the group description.

■ DATA INTEGRITY TWG

Friday, January 23, 8:30 AM – 5:00 PM

The Data Integrity TWG is the technical arm within SNIA that will specify a standardized means of providing end to end data integrity between an application and storage devices. It will provide guidance and educational direction to other SNIA TWG's and the industry at large. This work will leverage the existing INCITS T10-SBC standard utilizing the Protection Information Model (DIF). Other data integrity standards and internally developed protocols will also be considered.

Chair: Bill Martin (bill.martin@emulex.com)

Purpose of Meeting:

This meeting will continue to define the mechanisms that can be used to provide data integrity between the application and the storage devices.

Meeting Details:

Conference Call Information:

Toll-Free: 1-866-910-4857

Toll: 1-719-387-5500

Participant Passcode: 194393

Webex Information:

snia.webex.com

Meeting Number: 790 610 204

Meeting Password: data2009

Agenda:

- Dialog about Oracle/Emulex Data Integrity work (Bill Martin/Martin Petersen) 30 min
- Form of a first reference document based on Oracle/Emulex work 1 hr
- Combining Checksums and Bloom Filters (Stephen Spackman) 1 hr
- Future Checksums (Martin Petersen/Jim Williams) 1 hr
- Address mapping between layers (Stephen Spackman) 1 hr
 - o Getting context is perhaps a more difficult problem than the calculation that is desired.
 - o Page table discussion
- Versioning (Martin Petersen/Jim Williams) 1 hr
 - o Is the block the one that you thought you wrote? Where does this belong in the stack? The application can understand this, but the array cannot detect this. Possible way to accomplish this is to separate the metadata from the data.
- How does an app protect file data before it is block data? (Dave Crespi) 1 hr
- Successor to T10 DIF? What Checksum do we want? (Bill Martin) 1 hr

Group & Session Descriptions

■ EDUCATION COMMITTEE

Thursday, January 22, 8:30 AM - 3:00 PM

The SNIA Education Committee (EdComm) is an education organization that delivers educational products and services that enhance storage networking knowledge, and contributes to the strength of SNIA's brand. Through a variety of strategies and engagements, SNIA Education proactively disseminates to the marketplace opportunities to learn about the value and methodology of storage networking and information management. Our vision is that SNIA Education can support and empower global standards, which are widely accepted and implemented throughout the storage networking and information management industries.

Chair: Jim Blue, IBM (jblue@us.ibm.com)

Vice-Chair: Stephanie Boger, HP (Stephanie.Boger@hp.com)

Purpose of Meeting:

Transition to new EdComm leadership, review of 2008 activities, outline 2009 activities & budget; detailed discussions on volunteer efforts, rich media production of SNIA educational materials, international matters affecting SNIA Education, financial constraints and issues having impact on SNIA education.

Meeting Details:

Conference Call Information:

Toll-free: 1-866-548-4716

Toll: 1-719-785-9433

Participant Passcode: 375489

Agenda:

- Welcome & Introduction of new Chair & Vice Chair
- Review of 2008 Activities
 - Tutorials
 - Hands-On Labs
 - SNIA Dictionary & Media
 - Certification
 - Training at the SNIA Technology Center
- Proposed 2009 Activities
 - Tutorials
 - Hands-On Labs
 - SNIA Dictionary & Media
 - Certification
 - Training at the SNIA Technology Center
- Review of 2009 Educational Committee Budget
- Other Agenda Items (to be ordered and sequenced):
 - Development of web serving for SNIA educational materials/demonstration
 - Key volunteer needs for 2009
 - Contracts, agreements, and financial approval workflow in the SNIA Education Committee: Developments & Discussion
 - Certification training at the SNIA Tech Centers
 - Certification testing at SNW
 - LinkedIn group for SNIA Certification
 - Specialized educational classes & training pponsored by SNIA
 - Upcoming SNW 2009 educational events & preparedness

Group & Session Descriptions

■ **FIXED CONTENT AWARE STORAGE (FCAS) TWG**

Thursday, January 22, 8:30 AM - 12:00 AM

The Fixed Content Aware Storage (FCAS) TWG serves as a center of technical activities related to application-level interfaces for storage of unchanging data (fixed content) and associated metadata based on a variety of naming schemas including Content Addressed Storage and global content-independent identifiers. The primary current activity of the FCAS TWG is development of the XAM (eXtensible Access Method) API for fixed content storage.

Chairs:

David L. Black (black_david@emc.com)

Jered Floyd (jered@permabit.com)

Purpose of Meeting:

Completion of Errata to XAM v1.0 to produce XAM v1.0.1.

Discussion of features for possible inclusion in XAM v1.1 (project not yet launched)

Meeting Details:

Conference Call Information: (Conference call lines donated by EMC)

Toll: 857-207-4204

Toll-free: (888) 643-3084

Meeting ID: 15667613

International access numbers (same Meeting ID) -

Belgium: +32 2 200-6492 or 0800 8 0799

France: +33 1 5732 3313 or 080 554-0147

Germany: +49 69 5098-5552 or 0800 664-6745

UK: +44 203 024-9140 or 0800 121-4662

■ **GREEN STORAGE INITIATIVE (GSI)**

Thursday, January 22, 8:30 AM - 12:00 PM

SNIA's Green Storage Initiative (GSI) is dedicated to advancing energy efficiency and conservation in all networked storage technologies in an effort to minimize the environmental impact of data storage operations.

■ **GREEN STORAGE TWG**

Wednesday, January 21, 9:30 AM - 5:00 PM

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. This TWG will develop SNIA Architecture. We believe that the SNIA is uniquely qualified, as an impartial forum with the right participants, to create useful metrics for users.

■ **GREEN STORAGE TWG SUB-GROUP MEETINGS**

There are two separate meetings for this group. See below for date and time.

Meeting #1) Design Metrics & Spec Metrics

Tuesday, January 20, 9:30 AM - 3:00 PM

Meeting #2) Power Supply

Tuesday, January 20, 3:00 PM - 5:00 PM

Group & Session Descriptions

■ HANDS-ON LAB PLANNING MEETING FOR SPRING 2009 SNW

Thursday, January 22, 3:00 PM – 5:00 PM

Chair: Marty Foltyn (Marty@bitsprings.com)

Meeting Details:

Conference Call Information:

Toll-free: 1-800-289-5126

Passcode: 198120

Webex Information:

snia.webex.com

Join: Hands-On Lab Planning Meeting

Meeting Password: handson

Agenda:

Join us to preview the SNW Hands-On Lab program at SNW Spring 2009 in Orlando Florida. With the great feedback to our previous HOLs, now is a better time than ever to think about participating. Attend the meeting or dial-in to discuss the following:

- HOL process, agenda, venue, schedule
- Abstracts and topics brainstorming
- How to participate as a vendor company
- Exercises for prospective labs
- Next steps

■ IP STORAGE (IPS) TWG

Thursday, January 22, 1:15 PM - 3:00 PM

The IP Storage TWG is the primary technical focal point in SNIA for IP Storage related work. The IPS TWG is currently working on the iSCSI Management API (IMA).

■ NETWORK DATA MANAGEMENT PROTOCOL (NDMP) SOFTWARE TWG

Thursday, January 22, 8:30 AM - 12:00 PM

The NDMP Software TWG is working to implement a reference implementation of the industry standard NDMP Version 4.

■ OBJECT-BASED STORAGE DEVICE (OSD) SPECIFICATION

Friday, January 23, 8:30 AM - 5:00 PM

The OSD specification defines low-level storage device functions that enable accessing a storage device through a standard object interface rather than a traditional block-based interface such as SCSI or IDE. The OSD specification is published through INCITS T10 as part of the SCSI standard.

Group & Session Descriptions

■ OBJECT-BASED STORAGE DEVICE (OSD) TWG

Friday, January 23, 8:30 AM - 5:00 PM

Chairs:

Julian Satran (Julian_Satran@il.ibm.com)

Sami Iren (Sami.Iren@seagate.com)

Purpose of Meeting: Next Steps – V3 plans and alternative transports and APIs

Agenda (tentative)

- V3 plans
- Alternate APIs and transports
- Active Object Storage

■ SECURITY TWG

Wednesday, January 21, 10:00 AM - 12:00 PM

The Security TWG provides a focus for defining methods of increasing the security of both information residing within (or transmitting through) storage networks and information related to the management of those networks.

The Security TWG:

- Defines requirements for storage network security in collaboration with other groups
- Creates architectures, interfaces, and practices that make optimal use of existing security technologies in a storage network
- Creates, or simulates creation of, new information security technologies where nothing exists that meets the requirements for use in a storage network
- Develops educational material appropriate to security in storage networks

The scope of work encompasses storage and storage networking security for installations from the departmental level to the multi-enterprise. Technologies of interest include Fibre Channel and IP storage networks, NAS, CAS, object-based storage, storage devices, and hosts. The target audiences for the TWG's deliverables are the vendors and customers of advanced storage infrastructures.

Chair: Eric A. Hibbard, CISSP, CISA (eric.hibbard@hds.com)

Meeting Details:

Conference Call Information:

Toll-free: 1-866-469-3239

International #: 1-1-650-429-3300

Participant code: 758 367 054

Webex Information:

<https://hds.webex.com/hds>

Meeting Number: 758 367 054

Meeting Password: security012109

Agenda:

The Security TWG meeting will be focused on the following:

- Program of Work & Active Projects 60 minutes
- Joint discussion with LTR TWG 30 minutes
- Joint discussion with Forums 30 minutes

Group & Session Descriptions

■ SOLID STATE STORAGE INITIATIVE (SSSI)

There are two separate meetings for this group. See below for date and time.

The SNIA SSSI is dedicated to fostering the growth and success of the market for solid state storage in both commercial and consumer environments. This mission addresses marketing outreach, education, collaboration with other industry bodies (relative to SSS standards), development of specific SSS standards (as needed, via the creation of SNIA TWGs), and a close following of the advancements in the area of non-volatile solid state memory that can be used for storage.

Chairs:

Chair – Phil Mills (millsp@us.ibm.com)

Vice-chair – Val Bercovici (valentin.bercovici@netapp.com)

Meeting #1) Tuesday, January 20, 12:00 PM - 6:00 PM

Meeting Details:

Toll-free: 1-877-421-0038

Passcode: 307942

Agenda:

- Consumer SSS Subcommittee
 - Need for new subcommittee
 - Proposed charter
 - SSS/SSD classification project
- Spring SNW
 - In-depth planning & preparation
- Marketing
 - Review Marketing plan; Article contributions (SNS, Farsighted); Posting of SSS articles
 - International Activities
 - SSSI Website - updates, maintenance, process and plan for 2009
 - SSSI Blogging

Meeting #2) Wednesday, January 21, 9:30 AM - 12:00 PM

Meeting Details:

Toll-free: 1-877-421-0038

Passcode: 307942

Agenda:

- BusDev: 2009 event plan; Alliance plans; Membership status
- Education: Plan for tutorials & white papers
- TechDev: 2009 deliverables, including SSS TWG
- Budget: Review status, make necessary changes
- Elections, P&P: Governance plan for 2009

Group & Session Descriptions

■ **SOLID STATE STORAGE TWG**

Thursday, January 22, 8:30 AM - 5:00 PM & Friday, January 23, 8:00 AM - 12:00 PM

The Solid State Storage Initiative (SSSI) has created a Solid State Storage Technical Work Group (SSS TWG) to create a reference SNIA architecture and facilitate industry-wide adoption of common requirements, methods, and specifications in related standards organizations.

Chair: Jonathan Thatcher (jt@fusionio.com)

Purpose of Meeting:

Review Proposals for SSS TWG direction and technical content; prioritize work efforts; set objectives and work items for IH2009.

Meeting Details:

Conference Call Information:

Toll-free: 1-866-642-1665

Passcode: 117677

Webex Information:

snia.webex.com

Join: SSS TWG

Password: SSSrocks

Agenda

- Introductions
- Review of action items
- New business
- Review of proposals (e.g. Isolated Test Region, PCIe Interface, Life Mgmt, Classification)
- Review or related work (e.g. Trim, Security)
- Prioritization and work organization

■ **STANDARDS COMMITTEE**

Wednesday, January 21, 9:30 AM - 12:00 PM

The Standards Committee is responsible for all standardization activities within the SNIA. The Standards Committee oversees the policies and procedures associated with SNIA approved architectures as they follow the standardization process to become an ANSI and ISO standard. The Standards Committee also manages the official relationships with standards organizations, and other standards related work.

■ **STORAGE MANAGEMENT INITIATIVE (SMI) GOVERNING BOARD**

Wednesday, January 21st, 4:00 PM -5:00 PM

The SMI Governing Board is an elected board that operates the Storage Management Initiative, which is responsible for funding and operating the business for SMI-S.

Group & Session Descriptions

Chair(s):

Paul von Behren (smiboard-chair@snia.org)

Jerry Duggan (smiboard-chair@snia.org)

Purpose of Meeting:

Introduction of the SMI Governing Board for 2009 and selection of officers.

Meeting Details:

Conference Call Information:

Toll Free: 1-866-548-4703

Toll: 1-719-785-9423

Participant Passcode: 888999

Webex Information:

snia.webex.com

Join: SMI Marketing and GB

Meeting Password: smi2009

Agenda:

- Report on results of the SMI Governing Board Elections
- SMI Governing Board Selection of 2009 Officers
- Opening of nominations for SMI Committee chairs and co-chairs

■ STORAGE MANAGEMENT INITIATIVE (SMI) MARKETING

Wednesday, January 21, 1:15 PM - 4:00 PM

The SMI Marketing Committee provides a leadership role ensuring that the goals, objectives and emerging SMI goals are clearly communicated to their various target audiences. This includes tapping into and motivating all of the resources—internal (initiatives, volunteers, etc.) and external (press, media, partners, end users, etc.)—necessary for making it happen. New activities in SMI provide numerous opportunities for the SNIA and the SMI to re-engage vendors, end users and analysts, etc. to help deliver a highly function standardized interface that will enable the applications and tools administrators use to easily manage storage resources in a heterogeneous environment.

**■ STORAGE MANAGEMENT INITIATIVE SPECIFICATION (SMI-S) TECHNICAL TRACK
(MANAGED BY SMI-S TWG)**

(There are 4 separate meetings for this group. See the following description for details on each one.)

Meeting #1) Tuesday, January 20, 8:30 AM – 5:00 PM

Chair: Steve Peters (Steven.Peters@hp.com)

Purpose of Meeting:

The TSG will be hosting a series of SMI-S topics for the Workgroups.

Group & Session Descriptions

Meeting Details:

Conference Call Information:

Toll free: 1-800-361-8109;

Toll: 1-574-941-6770

Password: 8413003

Webex Information:

snia.webex.com

Join: TSG Face to Face;

Meeting Password: sanjose2009

Agenda:

- TSG welcome
- V1.5 schedule
- V1.5 status
- V2.0 status
- FSM TWG topics

Meeting #2) Wednesday, January 21, 9:30 AM – 5:00 PM

Purpose of Meeting:

The TSG will be hosting a series of SMI-S topics for the Workgroups.

Meeting Details:

Conference Call Information:

Toll free: 1-800-361-8109;

Toll: 1-574-941-6770

Password: 8413003

Webex Information:

snia.webex.com

Join: TSG Face to Face;

Meeting Password: sanjose2009

Agenda:

- DRM TWG topics

Meeting #3) Thursday, January 22, 8:30 AM – 5:15 PM

Purpose of Meeting:

The TSG will be hosting a series of SMI-S topics for the Workgroups.

Meeting Details:

Conference Call Information:

Toll free: 1-800-361-8109;

Toll: 1-574-941-6770

Password: 8413003

Group & Session Descriptions

Webex Information:

snia.webex.com

Join: TSG Face to Face;

Meeting Password: sanjose2009

Agenda:

- Core TWG topics
- MP TWG topics
- MAP TWG topics
- Host TWG topics

Meeting #4) Friday, January 23, 8:30 AM – 12:00 PM

Purpose of Meeting:

The TSG will be hosting a series of SMI-S topics for the Workgroups.

Meeting Details:

Conference Call Information:

Toll free: 1-800-361-8109

Toll: 1-574-941-6770

Password: 8413003

Webex Information:

snia.webex.com

Join: TSG Face to Face;

Meeting Password: sanjose2009

Agenda:

- MP TWG topics.

■ STORAGE SECURITY INDUSTRY FORUM (SSIF)

Wednesday, January 21 1:15 PM – 2:30 PM

The SNIA Storage Security Industry Forum (SSIF) – where security and storage meet - is the only industry group that focuses exclusively on the complete life cycle of data security from its creation and storage to end of life and destruction. The SSIF is a consortium of storage professionals, security professionals, security practitioners, and academics providing data and information security expertise. The SSIF contributes to a better understanding of information assurance and how it applies in IT operations, influencing the design, use, and management of storage technology to better protect and secure information. For more information, and to join, visit www.snia.org/ssif.

Chair: Gordon Arnold (garnold@us.ibm.com)

Purpose of Meeting:

To cover 2009 plans and call for participation.

Group & Session Descriptions

Meeting Details:

Conference Call Information:

Toll-free: 1-888-566-8440

Passcode: 202078

Webex Information:

snia.webex.com

Join: Storage Security F2F

Meeting Password: security

Agenda:

- Joint meeting with Security TWG – 11:30 am – Noon (Held before lunch during last 30 minutes of TWG Meeting)
- Q&A on Storage Security industry – during lunch (Karen Huffstutter, presenter)
- SSIF F2F and Concall Meeting – 1:15 pm – 2:30 pm
 - o Introductions and review of 2008 achievements
 - o 2009 business/marketing plan updates/items and call for participation
 - o Membership update – new and potential member review
 - o Alliances and 2009 plans
 - o SSIF end user focused website discussion and action plan
 - o Wrap and action item compilation
- Solutions Guide to Data at Rest Rev. 2 Kickoff and Deep Dive – 2:30 on
 - o Members and interested parties kick off work on revision 2 of the Solutions Guide, scheduled to be released at SNW Spring 2009

■ STRATEGIC ALLIANCES COMMITTEE

Thursday, January 22, 8:30 AM - 12:00 PM

The SAC coordinates SNIA's alliances with other industry associations ensuring consistent formal agreements, helping prioritize and promote joint activities, and providing direction and impetus for new relationships. Leaders and participants in any of these strategic alliances should attend this meeting to report on progress and help set overall priorities. Other SNIA members involved with other industry associations are welcome to attend and provide input and suggestions.

■ TWG LEADERSHIP MEETING WITH THE SNIA TECHNICAL COUNCIL

Wednesday, January 21, 7:00 PM - 8:00 PM

TWG leaders and TC members are urged to attend; TWG members welcome. This session is another of the TC – TWG Leadership interactions that we often have at SNIA Symposia.

Group & Session Descriptions

■ XAM INITIATIVE

Tuesday, January 20, 2009, 9 AM - 12 PM

The SNIA XAM Initiative drives the adoption of the eXtensible Access Method (XAM) specification. The Initiative serves a XAM community that includes storage vendors, independent software vendors, and end users to ensure that the specification fulfills market needs for a reference data interface standard. These needs include interoperability, information assurance (security), storage transparency, long-term records retention and automation for Information Lifecycle Management (ILM)-based practices.

Chair: David Martin, HP (xam-chair@snia.org)

Purpose of Meeting: Planning session to determine activities and events for promoting XAM in 2009.

Meeting Details:

Conference Dial-in Number:

Toll: 1-712-432-0600

Participant Access Code: 540066#

Agenda:

- Planning for Spring SNW and SDC
- XAM Coding Challenge
- Best Practices for Metadata
- Plugfest
- Funding of Linux developer
- Vendor-specific ISV Communities Engagements through the XAM Developer Portal
- Promotion of XAM v1.0.1 for Submission to INCITS for ANSI

■ XAM SOFTWARE DEVELOPMENT KIT (XAM SDK) TWG

Wednesday, January 21, 9:30 AM - 12:00 PM

The XAM SDK TWG is working to implement a reference implementation, tools, and developer documentation for the XAM Specification from the FCAS TWG.



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