

2008 INCITS TC Officers Symposium

Annual Report, June 2007 – June 2008

Las Vegas, NV

INCITS Fibre Channel (T11) Technical Committee

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FC-TC Scope

- TC T11 standardizes Fibre Channel Interfaces.
 - Fibre Channel implements Storage Area Networks
 - Includes most server, storage, and SAN vendors and their suppliers, more than \$18 billion.
- TC-T11 has 45 voting members + 9 advisory
 - TG T11.2 (30 voting, 3 advisory) Physical layer
 - TG T11.3 (31 voting, 4 advisory) Protocol, switch, ULP
- Also HIPPI, IPI, SBCON, FICON, SAN Management
- Co-TAG with T10 to ISO/IEC JTC1 SC25 WG4
 - Most national standards forwarded unchanged as international standards.

Significant Accomplishments

- Activities:
 - Extend present technology, improve data rate, provide for remote access, improve security, support alternate link technologies and protocols, and provide management interfaces.
- Standards published: 8
- New projects: 7
- Projects in development: about 13
- Projects in approval phase: 6
- Documents developed: >900(>140 MB)

Significant Challenges

- Open access
- Fibre Channel commercial importance places heavy emphasis on near-term extensions, sometimes creating a politically charged atmosphere.
- Continued consolidation of industry reduces membership, refocuses development.
- Registries, IP policy improvements.

Expected Challenges

- Success of Fibre Channel drives intense focus on standards.
 - Lots of money rides on successful standards.
 - Incremental improvements focus participation.
- INCITS participation policies and business model.
 - FC-TC open access policy.
 - Support of FC-TC web-site and e-mail requirements.

Liaison Activities (1)

- TAG to ISO/IEC JTC1 SC25 WG4
- Liaisons. See T11/08-028v2
 - INCITS T10 FCP and SCSI
 - IETF (imss and pwe3) MIBS and remote access
 - FCIA Industry Roadmap
 - SNIA SMI-S management
 - SFF Committee Physical Layer
 - DMTF SMI-S management
 - IEEE 802.3 10GFC, 40/100 Gb/s
 - IEEE 802.1 CEE for FCoE

Liaison Activities (2)

- Liaisons, continued. See T11/08-028v2
 - INCITS CS1 Security
 - IEEE 1619 Security
 - ITU-T SG15 Distance extension
 - TIA TR-42.11, TR-42.12 Optical Fiber
 - ISO/IEC JTC1 SC25 WG4 Optical Fiber

Future Trends

- Enterprise Storage Area Networks use Fibre Channel for high performance, storage consolidation, increased security, data protection, saving power. Needs are increasing.
- Bandwidth increases, Ethernet convergence solutions, Management, SMB extensions all in development.
- INCITS T10, T11, T13 are standards venue of choice for storage solutions. Effective liaison exists with most relevant standards venues.

Technical Activities

- Meetings, 2008-2009

- Jun 2-6, 2008 Coeur d'Alene, ID
- Aug 4-8, 2008 Seattle, WA
- Oct 6-10, 2008 Providence, RI
- Dec 8-12, 2008 Cancun, Mexico
- Feb 2-6, 2009 (tbd)
- Mar 30 - Apr 3, 2009 Santa Fe, NM
- Jun 1-5, 2009 (tbd)

- Web-site, www.t11.org

- Most T11 standards go international through ISO/IEC JTC1 SC25 WG4 with little fanfare.

How Can We Help? (well, you asked...)

- And the answers have not changed... at all...
 - **INCITS policies should continue to allow open access. Any change would be detrimental to program of work of T10, T11, T13 and to the economic “eco-system” based on their standards.** Certain other TCs may also find the model helpful.
 - INCITS should pick up web-hosting, data-base services, and e-mail reflectors, consistent with T11 requirements.
 - IP policy and disclosure forms are expected soon.