

# 2006 INCITS Technical Committee Officers Symposium

Washington DC

INCITS Fibre Channel (T11) Technical Committee  
(FC-TC)

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# 1. TC Scope

- FC-TC standardizes Fibre Channel Interfaces.
  - Fibre Channel implements Storage Area Networks
  - Most server, storage, and SAN vendors and their suppliers.
- FC-TC is 52 members + 11 advisory; more in TGs:
  - Physical layer (TG T11.2)
  - Protocol layer, framing, switching, routing, etc. (TG T11.3)
  - Management definitions and APIs (TG T11.5)
- Also HIPPI, IPI, SBCON
- Standards developed in FC-TC
  - Forwarded to ISO/IEC JTC1 SC25 WG4

## 2. Significant Accomplishments

- Activities:

- Extend present technology, improve data rate and cost of physical layer, provide for remote access, improve security, and provide management interfaces.

- Standards published: 3
- New projects: 11
- Projects in development about 23
- Projects in approval phase 8
- Documents developed 1400 (300 MB)

# 3. Significant Challenges

- Increasing interest in (and scope of) Fibre Channel in a business world of limited resources impacts FC-TC work load.
- Registries need to be provided by INCITS.
  - OID
  - Ethernet Auto-negotiation parameter
- ISO IP requirements inconsistent with INCITS

## 4. Expected Challenges

- Company priorities may not include standards.
- Success of Fibre Channel makes new standards incremental, reducing available resources.
- Fragmentation of storage standards venues.
- INCITS participation policies and business model.
  - FC-TC open participation policy.
  - Support of FC-TC web-site and e-mail requirements.

# 5. Liaison Activities

- Technical Advisory Group, ISO/IEC JTC1 SC25 WG4
- Most active liaisons, some formal. See IN060744
  - INCITS T10 FCP
  - IETF (imss, ips, and pwe3) MIBS and remote access
  - FCIA Industry Roadmap
  - SNIA SMI-S management
  - SFF Committee Physical Layer
  - IEEE 802.3 10GFC, technologies
  - DMTF SMI-S management
  - INCITS CS1 Security

## 6. Future Trends and Related Technical Activities

- Enterprise Storage Area Networks use Fibre Channel for high performance, storage consolidation, security, data protection. Needs are increasing.
- Bandwidth increases, Distance solutions, Management, Low-cost extensions in development.
- Consortia and industry organizations appearing as alternatives to standards from Accredited Standards Committees. Implications to policies.

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

- INCITS policies should continue to support open participation. Any change would be detrimental to success of T10, T11, T13 activities.
- INCITS should pick up web-hosting, data-base services, and e-mail reflectors. Business model change.
- ANSI/INCITS should harmonize IP disclosure mechanisms with ISO/IEC requirements. Single form.
- INCITS parameter registry required (OID, Company)