

# INCITS Annual Report, TC T11

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# Informal description of work

- Storage interconnect and networking families of standards, including:
  - Fibre Channel
  - Fibre Channel protocol mappings
  - SBCON
  - HIPPI
  - related management and API standards.

# Executive Summary

Period only covers 6 months.

Major areas of activity:

- Core Standards
- Interoperability
- Physical Layer
- Remote Access
- Security
- Management and APIs

# Standards

Family	Develop	Approval	Published
T11			1
T11.2	4	1	1
T11.3	10 +3 Study	3	3
T11.5	4 +2 Study	1	
HIPPI			1

# Assignments

- T11.2
  - FC-MJSQ, FC-PI-2, FC-PI-3, FC-PI-4, FCSM-2
- T11.3
  - FC-AE-1553, FC-AE-ASM, FC-AE-LP, FC-AE-RDMA, FC-BB-3, FC-DA, FC-FS-2, FC-GS-4, FC-LS, FC-MI-2, FC-SW-3, FC-SW-4, FC-SP, SCD, IPv6, Fabric Extensions
- T11.5
  - FC-HBA, FC-SWAPI, SM-AMD, SM-MM, FAIS, MIBs

# Significant Accomplishments

- 6 new project proposals
- >410 documents
- Thousands of volunteer hours

# Significant Challenges

- Workload
  - More load on participants. T11 can help by making efficient use of meeting times.
- T11 work moving into new technological areas.
  - Long list of liaison activities to maintain. Increases load on participants.

# Expected Challenges

- The Economy
  - Presently appears more stable
- Emergence of new SAN technologies
  - Requires participation in multiple standards venues.
- Many new technical efforts improve competitiveness of FC
  - Expansion of address space
  - Fabric Storage Application Programming Interface
  - Electronic Dispersion Control

# Liaison (1)

- INCITS
- TC T10
- IETF
  - ips, imss, ipsec, internet
- FCIA
  - SANmark, Roadmap, Speed Forum
- SNIA
  - Management

# Liaison (2)

- SFF
  - Transceivers, HPEI, HSOI
- T1X1.5, ITU-T SG-15 Question 11/15
- XFP
- UXPI
- IEEE 802.3
- DMTF

# Future Trends

- SANs key to enterprise data protection
- Fibre Channel key to enterprise storage performance
- SANs will use multiple protocols to extend capabilities.
- FC technology is base for many others
- Increased bandwidth
- Industry consortia originate standards