

IETF Liaison Report to T10

- Report on IP Storage Birds-of-a-Feather session
 - Locale: Adelaide, March 29, 2000
 - Purpose of session -
 - Determine if IETF should form a WG to develop an IP-based protocol for non-file structured storage I/O.
 - BOF is a one-shot, go - no go proposition.
 - BOF consensus needed before a WG can be formed.

Rationale

- Convergence of network and storage technologies
 - Enabling network technologies extend the reach of the storage “domain”
 - Increased carrying capacity of network interconnects
 - Storage architectures incorporate network models
 - Work driven by T10 and SNIA

Background

- Preliminaries
 - Network I/O Exploratory meeting on 10/14/99
 - Discuss how to exploit the convergence of network and storage technologies.
 - “Pre-BOF” meeting on 2/16/2000
 - BOF dress rehearsal
 - Charter and technical alternatives discussed
 - See minutes.

BOF Technical Presentations

- SCSI to IP Mappings
 - SEP -- SCSI Encapsulation Protocol
 - Presented by Adaptec
 - One session per LUN, carries both control and block data traffic.
 - iSCSI
 - Presented by IBM/Cisco
 - Separates control and block data transfer into separate sessions
- See BOF minutes for others

BOF Discussion

- Opportunities
 - Remote Backup/Mirroring
 - Enterprise-wide shared and managed pool of storage
- Issues
 - Security implications need to be considered from the outset

Next Steps

- Consensus that IETF WG should be formed to explore IP storage issues and protocols
- Contingencies:
 - Requirements document
 - Applicability statement
 - “Security must be addressed”

For more information

- IETF web site
 - <http://www.ietf.cnri.reston.va.us/home.html>
- IP/SCSI web site
 - <http://www.ece.cmu.edu/~ips/>
- IPS Mailing list
 - Majordomo@ece.cmu.edu
 - “subscribe ips john.doe@addr”

IETF documents enclosed

- IP Storage WG Minutes (BOF Minutes)
- IP Storage -- Issues and Requirements
- Technical Presentations
 - “SEP over TCP/IP”
 - “SCSI/TCP (SCSI over TCP)”
 - “TCP RDMA option”