T10/99-239r0 Project Proposal for SCSI on Scheduled Transfer (SST)

Donald D. Woelz
Vice Chairman, T11.1
V. P. of Marketing, GENROCO, Inc.
What is SST?

• Mapping of SCSI onto Scheduled Transfer (ST)
  – ST is a network independent protocol
  – ST is an OS Bypass protocol
  – ST has support for short and long messages
  – ST is a high performance protocol
    • Hardware assists
    • Low host overhead
SST is Network Independent

- SST allows SCSI operation on any ST enabled network
  - Ethernet (10Base-T, 100Base-T, GigE)
  - ATM (OC12, OC48)
  - GSN (HIPPI-6400)
  - HIPPI
SST Means Performance

- Data transfer speeds approach wire speed
  - 720 MB/s on GSN (HIPPI-6400)
  - 90+ MB/s on HIPPI
  - 90+ MB/s on GigE
SST Hardware

- GENROCO FC to GSN Bridge
  - A proxy for SST

TBF-864

800 MB/s GSN

Eight 100MB/s FC Ports
SST in the SAM

Figure 1 – Relationship of SST to SAM
SST Project

• T10 sponsorship
  – Extends the scope and performance of SCSI
  – Allows standards review in SCSI context
  – No changes required in SAM

• T11.1 to edit SST
  – ST expertise
  – Changes required in ST to support SST
  – Setup liaison with T10
  – Document is nearly complete