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

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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

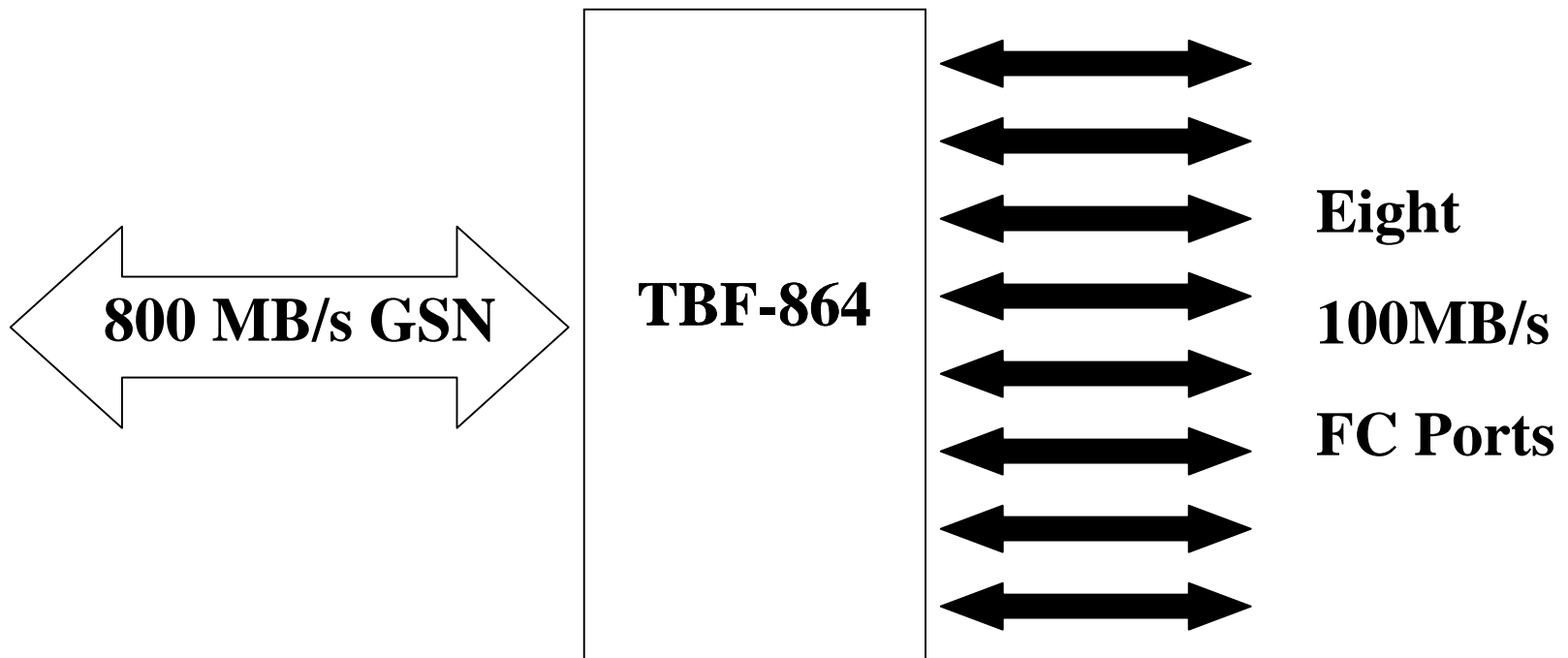# SST is Network Independent

- **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

800 MB/s GSN

TBF-864

Eight

100MB/s

FC Ports
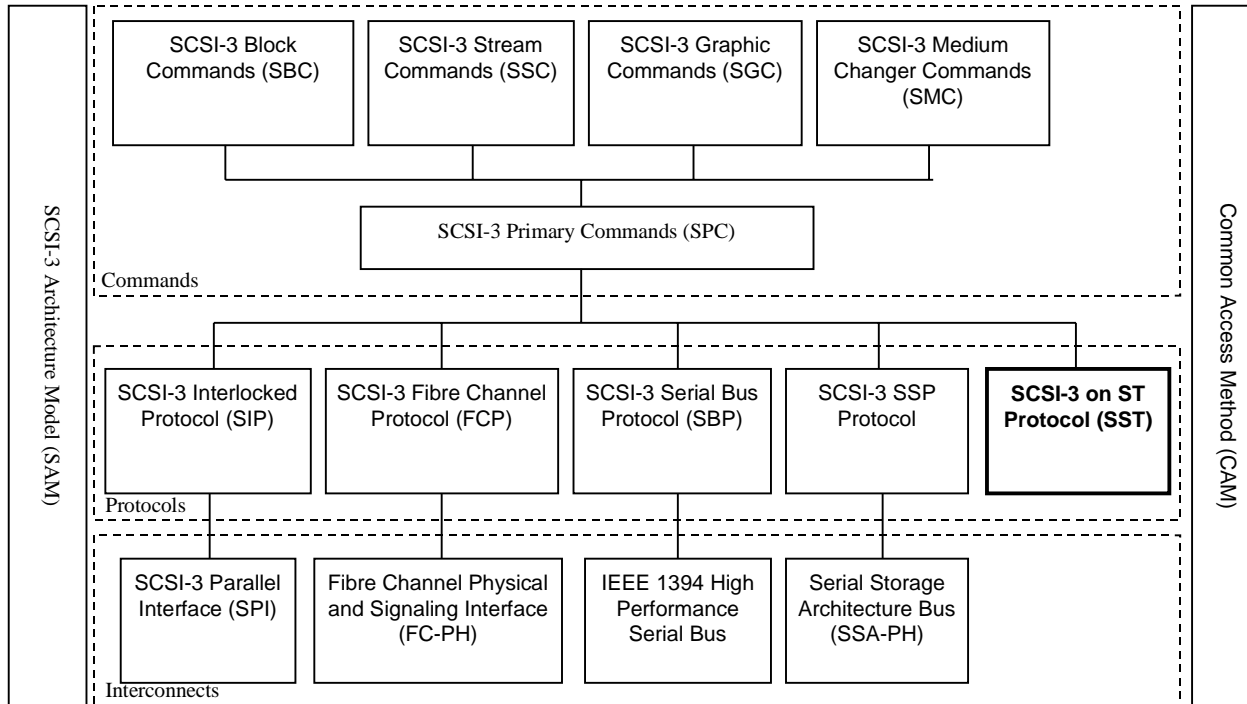
SST in the SAM

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