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Demonstrating Technical Feasibility for 10GBASE-SX4

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Why do we need a Technology Demonstration?

- Criteria 4, Technical Feasibility
 - Proven technology, reasonable testing, confidence in reliability
 - 10 Gb/s Ethernet technology will be demonstrated during the course of the project prior to completion of sponsor ballot

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What is a reasonable technology demonstration?

- Products that “comply” with the standard will interoperate with other products that “comply” with the standard
- 1. More than one system vendor
2. Each using ICs from different logic vendors
3. Each using PMDs from different transceiver vendors
- Connectivity Demonstration proposed for September Interim

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Status of 10GBASE-SX4

- Multiple system vendors currently designing blades with 10GBASE-SX4, several have demonstrated at public forums
- Demonstrated compatibility with multiple XAUI chip vendors
- Manufactured several thousand 10GBASE-SX4 transceivers
- Procured and tested tens of thousands of internal components
- Draft posted to IEEE website under July 2001 Plenary presentations
- Included in Fiber Channel, passed straw ballot at OIF
- MSA underway for 10GBASE-SX4
- 10GBASE-SX4 available in XENPAK and XGP pluggable form factors

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10GBASE-SX4 in IEEE 802.3ae

- Most widely supported PMD going into July 2000 selection for first draft
- Third highest supported PMD coming out of July meeting
- Fourth and fifth supported PMDs, when voted on as a group, obtained enough votes in September interim to surpass 10GBASE-SX4
- Strong support to add 10GBASE-SX4 at May 2001 Interim

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10GBASE-SX4 in IEEE 802.3ae

- 75% approval required to be added
- 25% disapproval to block
- Current supporters of solutions that would be prejudiced by inclusion of 10GBASE-SX4 will block
- Proponents of a minimum number of PMDs will block
- Current belief that inclusion may disrupt the schedule and or IEEE process
- These current situations need to change before 10GBASE-SX4 can be added to IEEE 802.3ae