

SMF Proposal Summary

IEEE P802.3bs 400GbE Task Force

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- Following slides summarize
 - Task Force SMF Optics straw polls / motions since Sept 2014
 - Summary of SMF Task Force Proposals

Strawpoll #1 (Sept 2014)

- Straw poll #1: 11:13 a.m.
- For all SMF reach objectives, I would support:
 - A. 50G based optical solutions for all reach objectives
 - B. 100G based optical solutions for all reach objectives
 - C. Either 50G or 100G based optical solutions for different reach objectives
- Results at 11:13 a.m.:
 - A: 38
 - B: 21
 - C: 42

Strawpoll #2 (Sept 2014)

- Strawpoll #2: 11:16 am.
- I would support a 8x50G SMF optical solution for 10km
 - Yes
 - No
 - Abstain
- Results:
 - Y: 44
 - N: 22
 - A: 39

Motion #9 (Jan 2015)

- Move to adopt PAM-n (where n is either 2 or 4) as the basis for all SMF PMD baseline proposals
- M: John D'Ambrosia
- S: Mike Dudek
- Technical ($\geq 75\%$)
- all in room: Y: 39 , N: 31 , A: 18
- 802.3voters: Y: 31 N: 21 A: 12
- Result: fails

400 GbE SMF Summary (May 2015)

500m SMF	BiDi x 50G NRZ x8 Fibers*	2λ x 50G NRZ x4 Fibers		1λ x 100G PAM-4 x4 Fibers	
2km SMF		8λ x 50G NRZ x1 Fiber	8λ x 50G PAM-4 x1 Fiber	4λ x 100G PAM-4 x1 Fiber	
10km SMF		8λ x 50G NRZ x1 Fiber	8λ x 50G PAM-4 x1 Fiber		4λ x 100G DMT x1 Fiber

“x1” fibers uses 2 fibers total (1 in each direction)

“x4 Fibers” uses 8 fibers total (4 in each direction)

“BiDi” using 8 fibers total.