



40GE SMF PMD Study Group Call for Interest Summary and Motion

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IEEE 802.3 Working Group
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CFI tutorial presentations

Brad Booth, AppliedMicro, “*40GE SMF PMD Overview*”

Sam Sambasivan, AT&T, & Martin Carroll, Verizon, “*The Need for 40GE SMF PMD*”

Matt Traverso, Opnext, “*The Technical Viability of 40GE SMF PMD*”

Mark Nowell, Cisco, “*40GE SMF PMD - Why Now?*”

Supporters (and contributors*)

- Andrew Ambrose Alcatel-Lucent
- Rick Rabinovich Alcatel-Lucent
- Stephen Trowbridge Alcatel-Lucent
- Brad Booth AppliedMicro *
- Martin Birk AT&T *
- George Young AT&T *
- Sam Sambasivan ATT Labs *
- Kathleen Tse ATT Labs
- Wael Diab Broadcom
- Ali Ghiasi Broadcom
- Scott Kipp Brocade
- Sashi Thiagarajan Ciena
- Gary Nicholl Cisco *
- Mark Nowell Cisco *
- Ghani Abbas Ericsson
- Chris Cole Finisar *
- John D'Ambrosia Force10 *
- Joel Goergen Force10
- Hideki Isono Fujitsu
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- Ryan Latchman Gennum
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- Hidehiro Toyoda Hitachi
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- Peter Anslow Nortel *
- Osama Ishida NTT
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- Christophe Betoule Orange-FT
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- Song Shang Sierra Monolithics
- Martin Carroll Verizon *
- Frank Chang Vitesse
- George Noh Vitesse

Summary

- Attendance – 88 people
- Carrier networks have operational constraints which are unique:
 - Operational efficiency is required to enable 40GE penetration into an existing infrastructure.
 - Existing 40GEBASE-LR4 is optically incompatible with installed based preventing implementation of multi-protocol interfaces. This has significant impact on the operational efficiency for carriers.
- Feasible technology options are available to enable a cost effective solution.
- Why now?
 - 40GE penetration at its infancy
 - Carrier optimized SMF client is necessary to enable accelerated penetration of 40GE into carrier networks
 - Accelerated adoption into carrier networks strengthens the whole Ethernet ecosystem

Issues for SG to Consider

- Objectives – what constitutes “carrier optimized”?
- Impact of enabling backwards compatibility.
- Creation of objectives, PAR, 5 Criteria responses.

Call for Interest

Should a Study Group be formed to study “40GE SMF PMD optimized for client applications in the carrier environment”?

Y: 61 N: 0

(88 present in room)

Straw Polls - Participation

- I would participate in the “40GE SMF PMD” Study Group in IEEE 802.3.

Tally: 40

- My company would support participation in the “40GE SMF PMD” Study Group in IEEE 802.3

Tally: 34

(88 present in room)

Motion

- Move the IEEE 802.3 Working Group requests formation of a “40GE PMD Study Group” to study the need for an amendment to the IEEE 802.3 standard to specify a 40Gb/s Ethernet Single-mode Fiber PMD optimized for client applications in the carrier environment.

M: Mark Nowell

S: John D'Ambrosia

>50%

802.3 Voters: Y: 46 N: 0 A: 1

Motion passes