

Minutes of the Call for Interest in “FE over 100 Mb/s dual single-mode fiber”

Meeting chaired by Ulf Jönsson
Recorded secretary Hans Mickelsson

Introduction

There was an overwhelming support for 100 Mbps over SMF within 802.3ah, 95% in favor.

7 presentations from network operators, system providers, and component vendors had been announced in advance for this Call for Interest (CFI), all clarifying their view on 100Mbps dual SMF. Tom Murphy and Seto Koichero, yielding 9 presentations in total, requested two additional presentations on single fiber.

The main objective is to prepare a presentation on the CFI to be put forward to 802.3. Approximately 50-60 persons attended the CFI.

Presentations

All to be found at http://grouper.ieee.org/groups/802/3/smfx_study/public/index.html

1. Call for Interest (Ulf Jönsson)
2. KPN vision of FTTH (Federiko Krommendijk)
3. A Telia view on fiber in the access network (Erland Sundberg)
4. Applications for 100 Mbps (Hans Mickelsson)
5. Single fiber, single wavelength PMD over SMF for 100 and 1000 Mbps (Tom Murphy)
6. Ethernet 100 Mbps dual SMF (Torbjörn Palm)
7. Proposal for Optical Parameters for fast Ethernet single mode dual fiber (Larry Golob)
8. SMF bi-directional 100 Mbps PMD baseline proposal (Seto Koichero)

One of the PMD presentations supporting discussing a 100Mbps dual SM fiber PMD where withdrawn since there was a significant overlay with the others.

Comments

A new PMD will affect clause 30, registration of type of PMD. An additional value must be included. (Geoff Thompson)

There was a question whether the FDDI standard is still a standard. It is not maintained anymore and is therefore not a good reference to a new 100 Mbps PMD. (Geoff Thompson)

There might be a need for a small change in the PCS in order to meet the SONET eye-mask specification.

Major concern was whether a study group should be formed or if this work rather should be performed within the 802.3ah (EFM) umbrella. Already too many PMD groups (ah, ae and now this) and EFM has earlier today adopted a 100BASE-X SMF objective.

There is a market for both dual and single fiber. (Bruce Tolley). This means more than one PMD for 100Mbps SMF.

Straw polls

Straw poll #1: If the 802.3ah 100Mbps fiber objective is not affirmed by 802.3, or the 100 Mbps dual fiber proposal is not accepted as a baseline proposal in 802.3ah, IEEE 802.3 should form a study group to develop a project proposal for “100Base-X over dual SMF.”

Yes: 27 No: 4 Abstain: 11

Straw poll #2: I would participate in the “100Base-X over dual SMF” study group in IEEE 802.3

Tally: 17

Straw poll #3: My company would support participation in the “100Base-X over dual SMF” Study group in IEEE 802.3.

Tally: 14

How to proceed with the proposal?

One single and one dual PMD in EFM for 100 Mbps. Will that be acceptable to the 802.3? (Bruce Tolley)

Lack of people doing work is a risk and keeping it in EFM is beneficial.
There are both one and two wavelength proposals for single fiber PMD. Needs to be a convergence on this specific matter.

If a study group is formed it is possible to add new objectives for example a single fiber PMD.

802.3 will ultimately decide on how many PMD:s that are reasonable.