

Approved minutes

400Gb/s Ethernet Study Group Logic Ad hoc

Teleconference June 26th, 2013

Minutes taken by Mark Gustlin, Xilinx

The meeting started at 8:03 am Pacific chaired by Mark Gustlin, the attendee list was taken from the Webex attendee list.

Documentation for the call can be found at the Ad Hoc web page:

<http://www.ieee802.org/3/400GSG/public/adhoc/logic/index.shtml>

Mark reminded everyone of the IEEE meeting guidelines

(<https://development.standards.ieee.org/myproject/Public/mytools/mob/preparslides.pdf>) and asked if anyone was unfamiliar with them. No one responded.

Meeting minutes from June 7th 2013 were approved.

Presentation #1

Title: BER objective format for 400GbE

By: Pete Anslow, Ciena

See: [anslow_01_0613_logic.pdf](#)

There was some discussion about IPG: do errors in the IPG make a difference in the frame error ratio? Generally IPG errors do not cause frames to be dropped, but with FEC blocks it can, if the FEC block is uncorrectable due to those errors.

There were some questions on equation 1 on page #9, this equation only applies to the non FEC case.

On the conclusion slide, there was a lot of discussion on whether frame size should be included into the objective, something that needs more consensus building, some were for keeping the objective simple since FER is now defined in the standard, others thought it should be included.

Presentation #2

Title: 400GE lane configurations vs. FEC options

By: Zhongfeng Wang and Ali Ghiasi, Broadcom

See: [wangz_01_0613_logic.pdf](#)

On slide 6, some discussion that the distance between AMs does not need to be the same as for 40 & 100 GbE, and we can consider distances other than 16384 if it helps with any options. Also the distance for EEE is greatly reduced and has to be considered.

Presentation #3

Title: Multi-rate support in 400GbE logic layer

By: Xinyuan Wang, Tongtong Wang, Wenbin Yang and Suping Zhai, Huawei

See: [wangt_01_0613_logic.pdf](#)

On slide #9 there was a lot of discussion on what was being stated, anything that impacts the 40/100G PCS/PHYs could be ruled out of scope for the project. Some discussion about what is meant by re-use, could be PMD, rates, PCS, etc...might want to better clarify exactly what is being proposed in this slide.

Attendees (taken from webex):

Xinyuan Wang
Paul Mooney
Tom McDermott
michael ressl
Mark Gustlin
Jeff Slavick
John Townsend
Tongtong Wang
Steve Trowbridge
Huang Xi
John D'Ambrosia
Masashi Kono
Piers Dawe
Ed Ulrichs
Ali Ghiasi
Cedrik Begin
Gary Nicholl
Dave Brown
Scott Kipp
Robert Wang
mike dudek
David Ofelt
Zhongfeng Wang
Pete Anslow
Jeffery Maki
Adam Healey
Anil Mehta
Hugh Barrass
Mark Pilip
Galen Fromm
CK Wong
Stephen Bates
john petrilla
Myles Kimmitt
Zeng Li
Xiaolu Song
Tim Webster
Sam Sambasivan
Bert Klaps
Jerry Pepper
Martin Langhammer
Mike Li

Will Bliss
Steve Trowbridge
Haoyu Song
Ted Sprague
Beomtaek Lee
Scott Irwin
Rich Melitz
Xiaoning Ye
Jay Bhagat
Wheling Cheng
Chris Cole