Meeting Minutes

Group: ◦IEEE 802.3 Bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s Optical Access PHYs (NGBiDi) Study Group

Event: *Interim* meeting

Date: 11 September 2018

Location: *Spokane WA USA*

Opening

9/11/2018 8:50 AM The meeting was called to order by Mr. David Law, the Working Group Chair. Duane Remein volunteered to serve as recording secretary. Mr. Law appointed Frank Effenberger Chair of the Study Group which was confirmed as shown below.

Motion # 1			
Confirm Frank Effenberger as Chair of Bidirectional 10Gb/s, 25Gb/s, and 50 Gb/s Optical Access PHYs (NGBIDI) Study Group.			
Moved: Duane Remein		Second: Mark Laubach	
For: 18	Against: 0	Abstain: 0	
Procedural (>50% by rule)		Motion Passed	

Introductions were made and the newly minted Chair proposed an agenda.

Motion # 2			
Move to approve the agenda.			
Moved: Duane Remein		Second: Marek Hajduczenia	
Procedural (>50%)		Motion Passed by Voice without opposition	

The Chair gave his opening report including the Study Group Web site / password, IEEE rules, and the IEEE patent policy. The Chair reviewed the IEEE Participation guidelines and process.

Motion # 3			
Approve the Minutes of 802.3 BiDi Study Group meeting held July 2018, in San Diego CA as shown in minutes_unapproved_1025BiDi_SG_0718.pdf.			
Moved: Frank Effenberger		Second: Duane Remein	
Procedural (>50%)		Motion Passed by Voice without opposition	

Presentations

All presentations are in the following format:
Presentation # #
Title Presenter affiliation
Comments
Filename: FileRef

Presentation # 1

O-band wavelength plan Hanhyub Lee ETRI

This presentation proposed an O band wavelength plan with 1271 nm ± 20 nm be used for upstream and either 1331 nm ± 2 nm or 1358 nm ± 2 nm be used for the downstream.

Filename: 180911 O-band Wavelegnth plan_hhlee_R1.pdf

Presentation # 2

Appl. & Tech Feasibility of 50G Yu Xu Huawei

This presentation provided experimental results done on 50 Gb/s optical transmitters and receivers for both 10 km (1270nm/1330nm) and 40 km (1290nm/1315nm) reach showing technical feasibility. The following objectives for 50 Gb/s BiDi were proposed:

- Support bidirectional transmission over a single strand of single mode fiber.
- Define single lane 50 Gb/s PHYs for operation over at least 10 km.
- Define single lane 50 Gb/s PHYs for operation over at least 40 km.

Filename: 180911_Appl&TechFeasibilityOfBidirectional10&40kmPHYfor50GbE_R1.pdf

Presentation # 3

25 Gbd/s APD receiver Mengyuan Huang SiPhotonics

This presentation reported experimental results on a TO-can based APD receiver with an included linear 25Gbaud APD and TIA and on a 50Gbaud APD to support technical feasibility of 50 Gb/s BiDi.

Filename: 180911_IEEE 802.3 Sep 2018 meeting Bidi 20180912 (updated).pdf

Project Documentation

9/11/18 9:45 AM the group began a review of the project documentation.

Presentation # 4

Review of PAR draft Frank Effenberger Huawei

In addition to the PAR presentation the Chair displayed the myProject PAR entry form and the group made minor changes to the PAR.

Filename: 180911_PAR_BiDi.pdf

Presentation # 5

Review of Objectives Frank Effenberger Huawei

The group reviewed and made updates to the objectives previously approved.

Filename: 180911_802d3_CSD_BiDi.pdf

9/11/18 10:30 AM morning break.

Presentation # 6

Review of CSD draft Frank Effenberger Huawei

The group reviewed and made minor updates to the CSDs previously approved.

Filename: 180911_802d3_OBJ_BiDi.pdf

Motion madness

Motion # 4
Move that the SG approve PAR as shown from MyProject system, and forward to 802.3 for their approval.
Moved: Frank Effenberger Second: Claudio DeSanti
For: 17 Against: 0 Abstain: 0
Technical (≥75%) Motion Passed

The chairman agreed to upload the pdf version of the PAR named BiDiPARfromMyProject.pdf.

Motion # 5
Move that the SG approve CSD as shown in 180911_CSD_BiDi_v2.pdf, and forward to 802.3 for their approval.
Moved: Alex Umnovo Second:Marek Hajduczenia
For: 18 Against: 0 Abstain: 0
Technical (≥75%) Motion Passed

Motion # 6
Move that the SG approve the objectives as shown in 180911_OBJ_BiDi_v2.pdf and forward to 802.3 for their approval.
Moved: Duane Remein Second: YuXu
For: 17 Against: 0 Abstain: 1
Technical (≥75%) Motion Passed

Closing

Future meeting polls were taken.

Location (start date)	**Planned attendance**		
	Will	May	Will Not
Bangkok (11/15/18)	9#	4	3
Long Beach (1/14/18)	13	3	1

Motion # 7
Move to adjourn.
1st: Duane Remein 2nd: Vince Ferretti
Procedural (>50%) Motion Passed by Voice without opposition

9/11/2018 11:20 AM Adjourned

Attendance

Full Name	Employer	Affiliation(s)	11-Sep
Adrian Amezwa	Pryamian	Pryomian	x
Barry Colella	Source Photonics	Source Photonics	x
Claudio DeSanti	Google	Google	x
Frank Effenberger	Huawei	Huawei	x
Vince Ferretti	Corning	Corning	x
Marek Hajduczenia	Charter	Charter	x
Mengyuan Huang	SiPhotonic	SiPhotonic	x
Glen Kramer	Broadcom Inc..	Broadcom Inc..	x
Hans Lackner	QoSCom	QoSCom	x
Jeff Ladak	UNH-IOL	UNH-IOL	x
Mark Laubach	Broadcom Inc..	Broadcom Inc..	x
David Law	HPE	HPE	x
Hanhyub Lee	ETRI	ETRI	x
Moonsoo Park	IDE Solutions America	IDE Solutions America	x
Ming Qi	Huawei	Huawei	x
Duane Remein	Huawei	Huawei	x
Masaru Terada	OFS		x
Alexander Umnov	Corning	Corning	x
Weyl Wang	Accelink	Accelink	x
Xinyuan Wang	Huawei	Huawei	x
Jun Shan Wey	ZTE Corp	ZTE Corp	x
Yu Xu	Huawei	Huawei	x
James Young	Commscope	Commscope	x
Richard (Yujia) Zhou	Charter	Charter	x
Yan Zhuang	Huawei	Huawei	x