Meeting Minutes

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

Event: Interim meeting

Date: 20 May 2019

Location: Salt Lake UT, USA, all times in MNT

Opening

5/20/2019 8:34 AM The meeting was called to order by Frank Effenberger the Task Force Chair. Marek Hajduczenia volunteered to serve as recording secretary. The chair also worked to complete some portions of the report.

Unless noted otherwise all files referenced in these minutes are located at the following URL: http://www.ieee802.org/3/cp/public/1905/.

Introductions were made and the Chair proposed an agenda.

Motion # 1
Move to approve the agenda as shown in 0519_BiDi_Task_Force_agenda.pdf.
Moved: Vince Ferretti   Second: Marek Hajduczenia
Procedural (>50%)   Motion Passed by Voice without opposition

Motion # 2
Move to approve the minutes from Mar 2019, located at: minutes_unapproved_NGBiDi_TF_031119_Vancouver.pdf.
Moved: Marek Hajduczenia   Second: Vince Ferretti
Procedural (>50%)   Motion Passed by Voice without opposition

The chair gave his opening report (see 0519_BiDi_Task_Force_agenda.pdf) including: meeting goals, big ticket items, TF private area, IEEE structure, and by-laws.

8:45 AM The Chair made a call for patents; no response was made.

The chair reviewed slides covering meeting guidelines, patent-related information, meeting participation, IEEE process and briefly reviewed project documents.

Presentations and Project Documentation

9:00 AM started reviewing presentations.

All presentations are in the following format:

Presentation #   #

Title   Presenter   affiliation

Comments

Filename: FileRef

Presentation #   1

Loss Budgets   Frank Effenberger   Futurewei

This presentation included a discussion on BiDi loss budgets including specific requirements from the perspective of Fabrice Bourgart (Orange).

Filename: effenberger_3cp_1_1905.pdf

Presentation #   2

Wavelength plans   Han Hyub Lee   ETRI

This presentation discussed the tradeoff between guard band and dispersion.

Filename: Lee_3cp_1a_1905.pdf

Presentation #   3

Power budget for 10G 10km   Jialong Shuai (presented by Frank Effenberger)   Huawei

This presentation gave a proposal for the power budget for 10G 10km PHY.

Filename: Shuai_3cp_1_1905.pdf

Presentation #   4

Power budget for 25G 10km   Jialong Shuai (presented by Frank Effenberger)   Huawei

This presentation gave a proposal for the power budget for 25G 10km PHY.

Filename: Shuai_3cp_1_1905.pdf

Recess from 9.34 am until 11:34 am

Comment Resolution

11:34 AM the Task Force began reviewing comments submitted against the draft. The presentations below were part of that review. The disposition of each comment was recorded in the comment database and are available in the file 802.3cp_d0.1_approved.pdf.

Presentation #   5

Clause 30 proposal   Duane Remein   Futurewei

Proposed content for Clause 30. Adding the names for the PHYs. This would be subject to change, if the group decides to change the names once more.

Filename: remein_3cp_9_1905.pdf

Presentation #   6

Clause 45 proposal   Duane Remein   Futurewei

Proposed content for Clause 45. Double check all table headers.

Filename: remein_3cp_8_1905.pdf

Presentation #   7

Clause 56 updates   Duane Remein   Futurewei

Updates to Figure 56-1, clause 56.1.2.1, 56.1.3, Table 56-1, and Table 56-2. Adding the PHYs names to these tables.

Filename: remein_3cp_3_1905.pdf

Presentation #   8
Clause 158 restructuring   Duane Remein   Futurewei
This proposed restructuring Cl 158 to match 159/160. A large number of changes to make the 10G
clause look the same as the 25/50G clauses. The FEC is an open issue.
Filename: remein_3cp_7_1905.pdf (summary), remein_3cp_4_1905.pdf (explicit proposal),
remein_3cp_5_1905 (cmp file),

The meeting recessed at 12:25.
The meeting resumed at 15:15.

Presentation #   9
Silent Start   Duane Remein   Futurewei
Proposal on how to specify the silent start feature. There was a discussion on using PCS locking as the
trigger to start transmission, but using loss of optical signal as the trigger to stop transmission.
Filename: remein_3cp_1_1905.pdf & remein_3cp_2_1905.pdf

Presentation #   10
Figure 159-2 options   Duane Remein   Futurewei
A proposal with two options for modifying Figure 159-2. There was still some confusion with this figure.
Filename: remein_3cp_6_1905.pdf

Presentation #   11
Clause 157   Duane Remein   Futurewei
A proposal about clause 157.
Filename: remein_3cp_10_1905.pdf

Motions & StrawPolls

Motion #   3
Move to use the existing 10GBASE-LR, 25GBASE-LR, and 50GBASE-LR optical Tx and Rx
characteristics for the 10GBASE-BLR, 25GBASE-BLR, and 50GBASE-BLR optical Tx and Rx
characteristics (tables 158-12, -13; 159-6, -7; 160-6, -7) with the exception of operating
wavelength, and with the caveat that TDP/TDEC(Q) will need to be re-evaluated.
Moved: Frank Effenberger   Second: Vince Ferretti
For: 8   Against: 0   Abstain: 0
Technical (≥ 75%)   Motion Passed

Motion #   4
Move to use the existing 10GBASE-ER, 25GBASE-ER, and 50GBASE-ER optical Tx and Rx
characteristics for the 10GBASE-BER, 25GBASE-BER, and 50GBASE-BER optical Tx and Rx
characteristics (tables 158-12, -13; 159-6, -7; 160-6, -7) with the exception of operating
wavelength, and with the caveat that TDP/TDEC(Q) will need to be re-evaluated.
Moved: Frank Effenberger   Second: Han Hyub Lee
For: 8   Against: 0   Abstain: 0
Technical (≥ 75%)   Motion Passed

> **Motion # 5**
>
> Move to clarify that the 40 km link objective requires approximately 25 dB of loss budget, to allow non-engineered links.
>
> Moved: Glen Kramer   Second: Duane Remein
>
> For: 5   Against: 0   Abstain: 3
>
> Technical (≥ 75%)   Motion Passed

> **Motion # 6**
>
> Move to use 1300 nm to 1320 nm as the 25G downstream wavelength for all distances.
>
> Moved: Vince Ferretti   Second: Han Hyub Lee
>
> For: 8   Against: 0   Abstain: 0
>
> Technical (≥ 75%)   Motion Passed/Failed by Voice without opposition

> **Motion # 7**
>
> Accept all comments resolutions in 802.3cp_d0.1_approved.pdf (includes all in topic "EZ Bucket") and instruct the Editor to generate Draft 0.2 from Draft 0.1 based on the approved comments and other applicable motions made during the May 2019 meeting.
>
> Moved: Duane Remein   Second: Marek Hajduczenia
>
> For: 8   Against: 0   Abstain: 0
>
> Technical (≥ 75%)   Motion Passed

Closing

4:20 PM the Chair gave his closing report.

Future meeting polls were taken.

Location (start date)	**Planned attendance**		
	Will	Will Not	May
Vienna Austria (7/15/19)	9	0	0
Indianapolis (9/9/19)	8	1	0
Waikoloa (11/11/19)	8	1	0

The Chair proposed holding one or more teleconferences (assuming sufficient contributions). Possible date is June 27, 2019.

Draft 0.2 is expected to be available within 2 weeks. A 4 week review is expected and comments via the normal process will be accepted.

> **Motion # 8**
>
> Move to adjourn.
>
> Moved: Claudio Desanti   Second: Duane Remein
>
> Procedural (>50%)   Motion Passed by Voice without opposition

4:42 PM   Adjourned

Attendance

Full Name	Employeer	Affiliation(s)	20-May
Claudio DeSanti	Google	Google	x
Frank Effenberger	Futurewei Technologies, Inc.	Futurewei Technologies, Inc.	x
Vince Ferretti	Corning	Corning	x
Marek Hajduczenia	Charter	Charter	x
Glen Kramer	Broadcom Inc..	Broadcom Inc..	x
Hanhyub Lee	ETRI	ETRI	x
Kevin Noll	Tibit Communication	Tibit Communication	x
Moonsoo Park	IDE Solutions America	IDE Solutions America	x
Bill Powell	Nokia	Nokia	x
Duane Remein	Futurewei Technologies, Inc.	Futurewei Technologies, Inc.	x
Joseph Coffey	Commscope	Commscope	x

Attendance