

Meeting Minutes

Group: *IEEE P802.3ca 100G-EPON Task Force*

Event: Interim meeting

Date: From: *21 May 2018* **To:** *23 May 2018*

Location: *Mighty. Beautiful. Pittsburgh PA USA*

Opening

5/21/2018 1:00 PM The meeting was called to order by the Chair. Duane Remein volunteered to serve as recording secretary. The Chair gave the opening report (tf_opening_3ca_1_0518.pdf).

Motion # 1

Approve the agenda for 802.3ca May 2018 Task Force meeting as shown in file agenda_3ca_1a_0518.pdf.

Moved: Duane Remein

Second: Phil Miguez

Procedural (>50%)

Motion Passed by Voice without opposition

Motion # 2

Approve the Minutes of 802.3ca Task Force meeting held March 2018, in Chicago, IL as shown in minutes_unapproved_3ca_0318.pdf and post the approved minutes as minutes_approved_3ca_0318.pdf

Moved: Marek Hajduczenia

Second: Phil Miguez

Procedural (>50%)

Motion Passed by Voice without opposition

The chair reviewed the Task Force Web site / password, IEEE rules & process, and IEEE patent policy.

5/21/2018 1:19 PM The Chair made a call for patents, no response was made.

After reviewing the IEEE Participation guidelines the chair took the future meeting polls.

All presentations are in the following format:

Presentation # #

Title

Presenter

affiliation

Comments

Filename:

filename.pdf

Comment Resolution

5/21/2018 1:26 PM The Task Force moved into comment resolution. During comment resolution several presentations were given.

Presentation # 1

802.3ca PHY Names

Glen Kramer

Broadcom

This reviewed past naming in EPON and proposed a new naming convention for 100G-EPON.

Filename:

kramer_3ca_4_0518.pdf

Motion # 4 Adopt the naming conventions as outlined in Option #2 on slide 17 of kramer_3ca_4a_0518.pdf. Moved: Glen Kramer Second: Frank Effenberger For: 23 Against: 0 Abstain: 4 Technical (≥75%) Motion Passed

Presentation # 5

Arguments for keeping 4 channels at MPRS/PCS

Glen Kramer

Broadcom

This presentation suggested that we maintain the number of channels in the draft at 4 by creating a dual fiber PON architecture.

Filename: kramer_3ca_5_0518.pdf

Presentation # 6

Why not 100G MAC

Ed Harstead

Nokia

This presentation argued against defining 4x25G 100G dual fiber PON architecture.

Filename: harstead_3ca_3_0518.pdf

During the discussion following the above two presentations there was a general consensus to make the entire MPRS specification channel independent (i.e., upper number of channels unspecified) and make a formal requirement that for P802.3ca PHYs, the number of channels shall be equal to either 1 or 2.

5/22/2018 4:05 PM The Task Force resumed comment resolution.

Presentations

5/22/2018 4:40 PM The Task Force transitioned into presentations leaving 2 open comments (excluding “bucket” comments).

Presentation # 7

Reducing Ton and Toff maximum values **Ed Harstead**

Nokia

This presentation suggested tightening up the values for Ton and Toff.

Filename: harstead_3ca_2a_0518.pdf

Motion # 5 Change Ton and Toff maximum values from 512 ns to 128 ns. Moved: Ed Harstead Second: Hanhyub Lee For: 25 Against: 0 Abstain: 1 Technical (≥75%) Motion Passed
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5/22/2018 5:55 PM Recessed for the day.

5/23/2018 8:00 AM Reconvened, continued presentations.

Presentation # 8

FEC Codeword Format and Alignment Mechanism

Glen Kramer

Broadcom

Prior to giving this presentation the presenter showed a few slides from kramer_3ca_1_0318.pdf which was given at the previous meeting. This presentation addressed block alignment within the FEC codeword and included the current state diagrams in the draft and associated results of simulations of the state diagrams for a FEC alignment delimiter of 10 bits.

Filename: kramer_3ca_1_0518.pdf

Presentation # 9

Grant Spacing Signaling at the ONU

Glen Kramer

Broadcom

This presentation discussed proposed changes to the MPCP and MPRS needed to allow for proposed PCS state diagrams (included in remain_3ca_3a_0518.pdf).

Filename: kramer_3ca_2a_0518.pdf

Presentation # 10

PCS SD

Duane Remein

Huawei

This presentation proposed state diagrams for the PCS.

Filename: remein_3ca_3a_0518.pdf

Presentation # 11

ER Dependency of APD Receiver Sensitivity

John Johnson

Broadcom

This presentation, given by Mr. Johnson but authored by Umeda san affiliated with Sumitomo Electric, discussed the sensitivity of APDs and its dependence on the extinction ratio of the input optical signal.

Filename: umeda_3ca_2a_0518.pdf

Presentation # 12

OMA sensitivity ER dependency

Frank Effenberger

Huawei

This presentation, given by Mr. Effenberger but authored by Dekun Liu of Huawei and Richard Goodson of Adtran, discussed OMAs dependence on the extinction ratio of the input optical signal.

Filename: liu_3ca_2_0518.pdf

Presentation # 13

25G EPON PR20 loss budget

Ed Harstead

Nokia

This presentation suggested values for the PR20 optical budget PMD tables.

Filename: harstead_3ca_1_0518.pdf

Presentation # 14

Populating 25G-EPON PR30 PMD Tables

John Johnson

Broadcom

This presentation suggested values for the PR30 optical budget for 25G PMD tables. Also included were some potential optimizations for how we specify the optical values.

Filename: johnson_3ca_1a_0518.pdf

Attendance

Full Name	Affiliation	21- May	22- May	23- May
David Baran	Arris	x	x	x
Alan Brown	Adtran	x	x	x
Craig Carlson	Cavium	x		
Ayla Chang	Huawei		x	
Barry Colella	Source Photonics	x	x	
Eugene Dai	Cox Communication		x	x
Claudio Desanti	Google	x	x	x
Liang Du	Google	x	x	
Frank Effenberger	Huawei	x	x	x
Vincent Ferretti	Corning	x	x	x
Bo Gao	Huawei	x	x	x
Jonathan Goldberg	IEEE	x		
Marek Hajduczenia	Charter	x	x	x
Ed Harstead	Nokia / Nokia, Bell Labs	x	x	x
Vincent Houtsma	Nokia / Nokia, Bell Labs	x	x	x
Kenneth Jackson	Sumitomo		x	x
John Johnson	Broadcom	x	x	x
Curtis Knittle	CableLabs	x	x	x
Glen Kramer	Broadcom	x	x	x
Mark Laubach	Broadcom	x	x	x
Greg LeCheminant	Keysight Tech	x		
Hanhyub Lee	ETRI	x	x	x
Jacob Meachen	Semtech	x	x	
Phil Miguelez	Comcast	x	x	x
Kevin Noll	Tibit Communication	x	x	x
Earl Parsons	CommScope			x
Bill Powell	Nokia	x	x	x
Duane Remein	Huawei	x	x	x
Alexander Umnov	Corning		x	x
Edward Walter	AT&T	x	x	x
Richard (Yujia) Zhou	Charter		x	x