

Approved Minutes
IEEE P802.3cm 400 Gb/s over Multimode Fiber Task Force Ad Hoc Web/Teleconference
December 07, 2018

Group Name: IEEE P802.3cm 400 Gb/s over Multimode Fiber Task Force Ad Hoc

Date/Location: Friday, December 07, 2018. Web/Teleconference

Chair: Robert Lingle, Jr., P802.3cm TF Chair

Recording Secretary: Mabud Choudhury

Meeting Participants:

	Name	Employer	Affiliation
1	Adrian Young	Leviton Mfg.	Leviton Mfg.
2	David Law	HPE	HPE
3	David Dolfi	Broadcom	Broadcom
4	Dominic Lapierre	EXFO	EXFO
5	Earl Parsons	CommScope	CommScope
6	Flavio Marques	Furukawa Electric LatAm	Furukawa Electric LatAm
7	John Kamino	OFS	OFS
8	John Abbott	Corning Inc	Corning Inc
9	Jonathan Ingham	Foxconn Interconnect Technology	Foxconn Interconnect Technology
10	Jose Castro	Panduit	Panduit
11	Ken Jackson	Sumitomo	Sumitomo
12	Mabud Choudhury	OFS	OFS
13	Mike Dudek	Marvell	Marvell
14	Paul Kolesar	CommScope	CommScope
15	Piers Dawe	Mellanox	Mellanox
16	Ramana Murty	Broadcom	Broadcom
17	Rick Pimpinella	Panduit	Panduit
18	Robert Lingle	OFS	OFS

18 attendees participated in the December 07, 2018 web call. If you participated in the meeting but are not listed or if you attended and company employer/affiliation is incorrect, please email Mabud Choudhury, mchoudhury@ofsoptics.com with a correction.

Call to order/Meeting Start Time: 11:03 am Eastern Standard Time/EST (UTC -5)

Chair's remarks:

- Reminder for participants to record their attendance along with employer/affiliation to Mabud Choudhury at mchoudhury@ofsoptics.com
- Reviewed Agenda, Slide 3 of:
http://www.ieee802.org/3/cm/public/adhoc/lingle_3cm_adhoc_01_120718.pdf

Approval of agenda: Agenda was approved.

- Participation in IEEE 802 Meetings and Guidelines for IEEE-SA Meetings, including Patent Policy, reviewed (Slides 4 - 8 of link above). No one indicated being unfamiliar with these policy slides.
- Approved Unapproved Minutes for August 23rd, August 30th, September 27th, October 11th and October 25th, 2018 ad hoc meetings
- Chair indicated that there would be an additional draft under TF review, D1.2, to provide adequate time to resolve 3 big ticket open technical items (covered below under technical topics). The current adopted timeline, Slide 11 of http://www.ieee802.org/3/cm/public/adhoc/lingle_3cm_adhoc_01_120718.pdf . Target date for authorizing WG review, D2.0 will now be March, 2019. Discussion if 2 or 3 drafts will be required under WG review.
- Discussion of Big Ticket items for advancing to WG ballot (also, see Technical Topics below):
 - Modal noise penalty
 - Tx transition time
 - RMS spectral width for 910nm wavelength
- Deadlines for requesting agenda time and submitting presentations (Slide 14 of above link):
 - Request time by midnight Thursday, January 3rd, 2019 (AoE)
 - Submit presentation by midnight Thursday, January 10th, 2019 (AoE)
 - Chair indicated updated request time deadline of **Friday, January 4th** and presentation submission deadline of **Friday, January 11th** during the meeting.
- TF Interim meeting dates:
 - **Thursday January 17th, 2019, 13h00 - 18h00** and **Friday, January 18th, 2019, 08h00 - 12h00**
- Reviewed preparation and goals for January Interim TF meeting:
 - Primary focus: comment resolution against D1.1
 - Consensus building on Big Ticket items
 - Motion to formally modify the timeline

Technical Topics:

1. Editors' update – Jonathan Ingham, Acting Chief Editor:

- Slide 10 of http://www.ieee802.org/3/cm/public/adhoc/lingle_3cm_adhoc_01_120718.pdf :
 - Draft 1.1 open for review from November 30th, 2018 through midnight AoE on New Years' Eve December 31st, 2018.
 - Links for access to D1.1 provided. Username and password for 802.3cm Private area provided.
 - Comment files sent to Robert Lingle, Jr., TF Chair, Jonathan Ingham, Acting Chief Editor and Pete Anslow, 802.3 Secretary, editorial advisor for 802.3cm TF.
 - Editorial team will provide proposed responses to comments before Long Beach Interim TF meeting
 - Comments will be resolved at Long Beach Interim TF meeting, January 17-18, 2019

2. RMS spectral width on the 900 – 918 nm:

- Ramana Murty indicated that he would submit comment against D1.1, clause (now) 150, to change maximum RMS spectral width on the 900 – 918 nm from 0.60 to 0.65 nm
- Discussion on impact of a change in RMS spectral width on MPN penalty and TDECQ filter reference response
- Discussion indicated that some more work is necessary to build consensus

- Chair suggested a presentation on this topic for next ad hoc meeting

3. Tx transition time:

- Discussion about changing the max Tx transition time from 34 to 32 ps
- Need for further study and consensus building discussed
- Piers Dawe indicated that he may bring in contribution on this topic for next ad hoc meeting

4. “Modal Noise Measurements with 25G VCSELs” – Jose Castro:

- Discussion and feedback on previous contribution:
http://www.ieee802.org/3/cm/public/November18/castro_3cm_01_1118.pdf
- Experimental method and initial data for estimating the magnitude of modal noise produced by lateral misalignment of fibers
- Extensive technical discussion and suggestions to build on and improve experiment. Authors welcomed suggestions and comments. Additional experimental measurements will be made
- General discussion. Clarifying questions were asked and answered
- Chair suggested using reflector to further technical discussion on this topic
- Suggestion to invite Prof. Stephen Ralph of Georgia Tech for next ad hoc meeting to add his expertise on the topic

Meeting closed: 12:25 pm Eastern Standard Time/EST (UTC -5)

Next Meeting: Thursday, January 10, 2019, 12:00 pm – 2:00 pm Eastern Standard Time/EST (UTC -5), 400G over MMF TF Ad Hoc Web/Teleconference.