

Agenda and General Information

IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber
Task Force

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OFS

Ad Hoc Teleconference, January 14, 2021

Meeting

- Attendance
 - Please use <http://imat.ieee.org/> to record attendance
 - Session code/password (provided during meeting):
 - Attendance record based on IMAT only
 - Please add your affiliations to your names in the Webex participants list, or else list your name with affiliation in the Webex chat window (**Meeting requirement**)
- Webex
 - Please mute your lines if you are not speaking
 - *6 to mute/unmute or click on mute button in the WebEx window
 - Noisy, unmuted lines will be muted by the WebEx organizer
 - *6 to unmute if this happens to you

Proposed Agenda

- Meeting Attendance and Webex
- Approve Agenda
- Approval of Minutes for December 17 ad hoc meeting
- Reflector and Web
- IEEE
 - Call for Patents. IEEE Patent Policy reminder: <http://www.ieee802.org/3/patent.html>
 - IEEE Copyright reminder: <https://standards.ieee.org/ipr/index.html>
 - IEEE Participant reminder: <http://www.ieee802.org/devdocs.shtml>
- Straw polls on baseline proposal
- Items that may need benefit by further contributions
- Future meetings

Approve Minutes

- Any modifications, additions, deletions or corrections?
- Move to approve meeting minutes, previously posted, for December 17, 2020 IEEE P802.3db Task Force Ad Hoc Webex meeting:
 - [unapproved_minutes_3db_adhoc_01_121720.pdf](#)

Reflector and Web

- To subscribe to the IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force reflector, send an email to:

ListServ@ieee.org

with the following in the body of the message (do not include “<>”):

subscribe **stds-802-3-100GSR** *<yourfirstname>* *<yourlastname>*

- Send IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force reflector messages to:

STDS-802-3-100GSR@listserv.ieee.org

- Task Force web page URL:

<http://ieee802.org/3/db/index.html>

Participants have a duty to inform the IEEE

- Participants shall inform the IEEE (or cause the IEEE to be informed) of the identity of each holder of any potential Essential Patent Claims of which they are personally aware if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
- Participants should inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims

**Early identification of holders of potential
Essential Patent Claims is encouraged**

Ways to inform IEEE

- Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
- Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
- **Speak up now and respond to this Call for Potentially Essential Patents**

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

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By participating in this activity, you agree to comply with the IEEE Code of Ethics, all applicable laws, and all IEEE policies and procedures including, but not limited to, the IEEE SA Copyright Policy.

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Participants in the IEEE-SA “*individual process*” shall act independently of others, including employers

- The [IEEE-SA Standards Board Bylaws](#) require that “*participants in the IEEE standards development individual process shall act based on their qualifications and experience*”
- This means participants:
 - **Shall act & vote** based on their personal & independent opinions derived from their expertise, knowledge, and qualifications
 - **Shall not act or vote** based on any obligation to or any direction from any other person or organization, including an employer or client, regardless of any external commitments, agreements, contracts, or orders
 - **Shall not direct** the actions or votes of other participants or retaliate against other participants for fulfilling their responsibility to act & vote based on their personal & independently developed opinions
- By participating in standards activities using the “*individual process*”, you are deemed to accept these requirements; if you are unable to satisfy these requirements then you shall immediately cease any participation

Review of Baseline Proposal

- "Baseline Proposal for 100 Gb/s per Lane Optical PMDs Supporting 50 and 100m OM4 MMF" - Ramana Murty (Broadcom), David Dolfi (Broadcom)
 - [murty_3db_adhoc_01b_121720.pdf](#)

Straws Poll on Adopting Baseline Proposal

- I would support the adoption of Slides 4, 8 to 11 of [murty_3db_adhoc_01b_121720.pdf](#) (values denoted by OM4 50m column) as baseline for the IEEE P802.3db **50 m** reach objectives for 100 Gb/s, 200 Gb/s and 400 Gb/s PHYs.
 - Yes
 - No
 - Abstain/Not Voting:
- I would support the adoption of Slides 4, 8 to 11 of [murty_3db_adhoc_01b_121720.pdf](#) (values denoted by OM4 100m column) as baseline for the IEEE P802.3db **100 m** reach objectives for 100 Gb/s, 200 Gb/s and 400 Gb/s PHYs.
 - Yes
 - No
 - Abstain/Not Voting:

Items that may benefit from contributions in TF review

- Some items raised in previous contributions and meetings:
 1. Ramana Murty encouraged contributions on questions he raised in [murty_3db_adhoc_01b_121720.pdf](#), especially note:
 - a) Assumptions on slide 6, including interoperability of 50m and 100m PMDs
 - b) The four (4) items called out on the RHS of slide 7
 - c) Overshoot/undershoot on slide 8
 - d) the reference EQ length & tap constraints on slide 10
 2. Greg raised some questions on slide 8-11 of [le_cheminant_3db_adhoc_01_121720.pdf](#)
 3. Connectors/MDI
 - a) 802.3cd & 3bm did not required APC MPO connectors – should 3db do so?
 - b) Same insertion loss for two PMDs?
 - c) Reflection budget
 4. Reference Rx – how many taps
 - a) 9-taps favors relaxed VCSEL specs (CMOS)
 - b) 5-taps favors possibility of lower power analog circuits (SiGe)
 5. Naming convention for 50m and 100m PMDs – SR and ??
 6. MN and MPN budgets, esp for 100m reach

Future Meetings

- See: <http://ieee802.org/3/calendar.html> and <http://ieee802.org/3/interims/index.html>
- P802.3db TF Ad Hoc Teleconferences are currently scheduled:
 - Biweekly on Thursdays at 12 Noon to 2 pm Eastern US (EST/UTC -5):
<http://www.ieee802.org/3/db/public/adhoc/index.html>
 - Next Ad Hoc meeting: Thursday, February 4, 2021, 12 Noon to 2 pm Eastern US (EST/UTC -5)
- P802.3db TF Interim Teleconference:
 - Next meeting: Thursday, January 21, 2021, 12 noon to 2 pm Eastern US (EST/UTC -5),
 - During 802.3 WG Interim Teleconference Weeks (January 18 – January 28)

Thank You!