

Agenda for IEEE P802.3ck
100 Gb/s, 200 Gb/s, and 400 Gb/s
Electrical Interfaces Task Force
ad hoc meeting,
December 4, 2019

Kent Lusted (Intel) – Vice Chair

Meeting

- Attendance
 - Attendee names and affiliations for these ad hoc meetings will be taken from the WebEx participants list.
 - Please ensure that your full name and employer/affiliation are indicated correctly.
 - If the WebEx participants list does not correctly indicate your name and employer/affiliation, please send an e-mail to Kent Lusted ([kent.C.lusted at intel dot com](mailto:kent.C.lusted@intel.com)).
- 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
- Participants wishing to contact the presenter can contact the Vice Chair for their contact info

.3ck Task Force ad hoc communications

- The TF web page is here:
 - <http://www.ieee802.org/3/ck/index.html>
- All e-mail communications are via the SG/TF reflector
 - archive and subscription links are here:
<http://www.ieee802.org/3/100GEL/reflector.html>

Proposed agenda

- Approval of the Agenda
- Approve October 30 2019 Ad Hoc Minutes
- IEEE Patent Policy reminder:
 - <http://www.ieee802.org/3/patent.html>
- IEEE Copyright reminder
 - <https://standards.ieee.org/ipr/index.html>
- IEEE Participation Requirements reminder
- Task Force Status
- .3ck Technical Presentations* –
 - “Comment resolution tutorial” – Matt Brown (15 mins)
 - “COM 2.76 Update” – Rich Mellitz (10 mins)
 - “ERL” – Rich Mellitz (30 mins)
 - “802.3ck Chip-to-Module TP1a/TP4 Compliance Test Measurement Methodology” – Mike Li (40 mins)

*Slides are posted in Ad Hoc area.

- <http://www.ieee802.org/3/ck/public/adhoc/index.html>

Participation in IEEE 802 Meetings

Participation in any IEEE 802 meeting (Sponsor, Sponsor subgroup, Working Group, Working Group subgroup, etc.) is on an individual basis

- **Participants in the IEEE standards development individual process shall act based on their qualifications and experience. (https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf section 5.2.1)**
- **IEEE 802 Working Group membership is by individual; “Working Group members shall participate in the consensus process in a manner consistent with their professional expert opinion as individuals, and not as organizational representatives”. (subclause 4.2.1 “Establishment”, of the IEEE 802 LMSC Working Group Policies and Procedures)**
- **Participants have an obligation to act and vote as an individual and not under the direction of any other individual or group. A Participant’s obligation to act and vote as an individual applies in all cases, regardless of any external commitments, agreements, contracts, or orders.**
- **Participants shall not direct the actions or votes of any other member of an IEEE 802 Working Group or retaliate against any other member for their actions or votes within IEEE 802 Working Group meetings, see https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf section 5.2.1.3 and the IEEE 802 LMSC Working Group Policies and Procedures, subclause 3.4.1 “Chair”, list item x.**

By participating in IEEE 802 meetings, you accept these requirements. If you do not agree to these policies then you shall not participate.

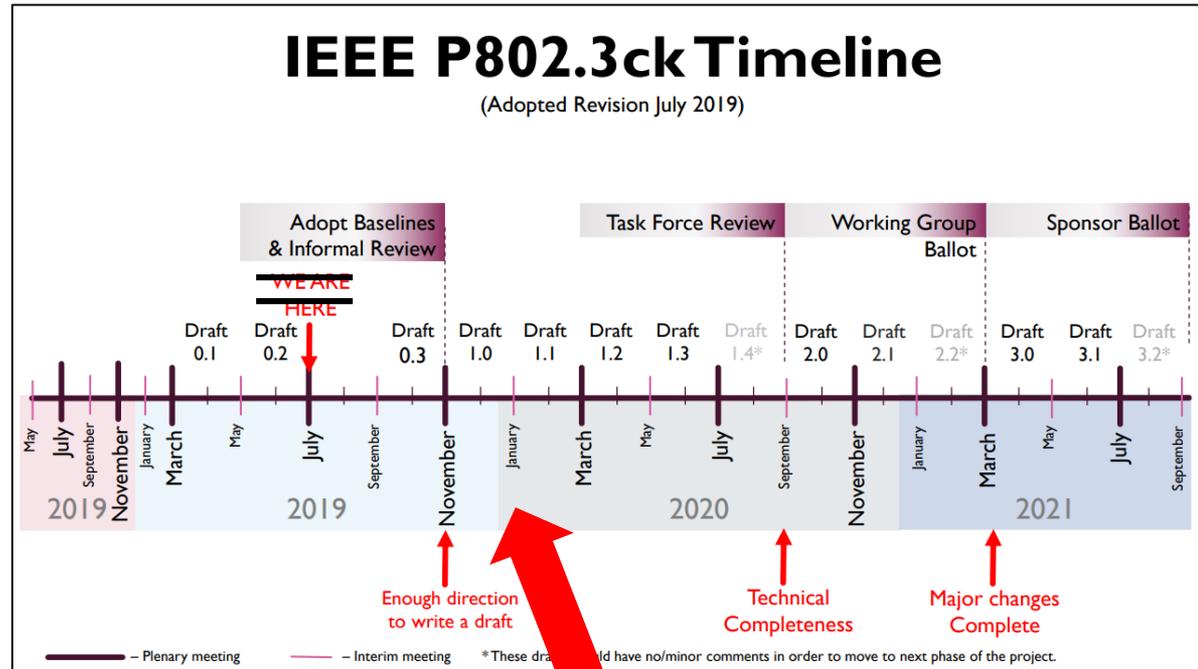
(Latest revision of IEEE 802 LMSC Working Group Policies and Procedures: <http://www.ieee802.org/devdocs.shtml>)

Task Force Status

- Phenomenal progress in November! Great work by all!
 - Adopted 100G FEC, PCS, PMA baseline (Y: 48, N: 0, A: 13)
 - Adopted copper cable assembly, host, and channel, (Y: 43, N: 0, A: 12)
 - Adopted C2M reference receiver architecture (Y: 51, N: 8, A: 4)
 - Adopted another part of C2M baseline (Y: 49, N: 0, A: 5)
 - Aligned CR ref RX to KR ref RX (Y: 40, N: 0, A: 6)
 - Directed editorial team to generate D1.0 and initiate Task Force review (Y:55 N:1 A:0)

Task Force Timeline Reminder

- Updated in July 2019
- Back on track!



Logistics for January 2020

- TF meets the week of January 20, 2020 in Geneva, Switzerland
 - **3ck plans to meet Tuesday-Thursday (with obvious breaks)**
 - Goal: Review comments against D1.0, hear presentations
- **Request for presentations are TBD**
- **Presentations are due by TBD**
 - Late presentations can/should still be submitted, but will be subject to available time on the agenda and Task Force approval.
- If you are new to the IEEE standards and need more detail for submitting requests/presentations, see the webpage : <http://www.ieee802.org/3/ck/public/presentproc.html>

Overlaps for January

- *We do our best to avoid overlaps, but cannot fully avoid due to many projects of interest.*
- The Chairs requested the following:

	Monday	Tuesday	Wed	Thurs	Friday
Morning	3cu	3ct, 3ck	3ct, 3ck	3ck, 100GSR	100GSR
Afternoon	3cu	3ct, 3ck	3ct, 3ck	3ck, 100GSR	100GSR
Evening			3ck	WG meeting	

Baselines Adopted

<http://www.ieee802.org/3/ck/public/baselines/index.html>

If there is a baseline discrepancy between this webpage and the Task Force minutes, the Task Force minutes take precedence

PCS, FEC, and PMA

- [Mark Gustlin presented FEC/PCS/PMA](#) (100G C2MAUI, 200G/400G all), Adopted Mar 2019
- [Mark Gustlin presented 100G FEC \(basically slide 6\)](#), Adopted Nov 2019

Auto-Negotiation

- [Jeff Slavick presented AN](#), Adopted Sept 2018
- [Jeff Slavick presented Link Training](#) (with max_wait_timer as TBD), Adopted May 2019

AUIs: C2M, C2C

- [Phil Sun presented C2M framework](#) (ref. RX agnostic), Adopted Mar 2019
- [Mike Li and Ali Ghiasi presented C2C baseline](#) (Adopted September 2019)
- [Phil Sun presented C2M baseline \(slides 5, 7, 8, 12 with some exceptions\)](#), Adopted November 2019

PMDs: Backplane & Cu Cable

- [Tom Palkert presented MDIs](#), Adopted Sept 2018
- [Howard Heck presented Backplane framework](#) (DFE-base ref. RX), Adopted Mar 2019
- [Removed microQSFP](#) Adopted July 2019
- [MTF \(slides 24, 26-27 only\)](#), Adopted July 2019
- [Clint Walker presented Backplane Baseline](#) Adopted July 2019 (with Bmaxg = 0.05)
- [Cable Assembly, Host and Channel insertion loss \(slides 5, 6\)](#), Adopted November 2019
- [Floating tap weight range \(slide 18\)](#), Adopted November 2019
- [Floating tap weight implementation method](#), Adopted November 2019

Nomenclature

- [Kent Lusted presented 2 nomenclature options](#), Straw poll used to determine Option B Jan 2019

Still Need:

- ERL for all interfaces
- C2C Ref RX details
- C2M Ref RX details, test methodology