Agenda and General Information

IEEE P802.3cp 10, 25, and 50 Gb/s bidirectional optical access PHYs

Frank Effenberger Futurewei technologies Teleconference, 4 May 2021

Meeting coordinates

- Task force has one scheduled sessions
 - May 4, 14:00 to 16:00 UTC (10:00 noon EDT, 22:00-midnight Beijing)
 - Meeting link is: https://futurewei.zoom.us/j/8940903884

Task Force Decorum







- An officer is permitted to make an audio or slideshow recording of this meeting exclusively
 for the purpose of generating minutes which shall not be copied or distributed. IEEE 802.3
 meetings do not use this option. Recording of the proceedings by any other participant or
 observer, in part or in whole, via any means, is prohibited. (June 2018 IEEE-SA Standards
 Board Ops Manual 5.3.3.2)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (June 2018 IEEE-SA Standards Board Ops Manual 5.3.3.3)
- Cell phone ringers off
- Wear your badges at all times in meeting areas
 - Help the hotel security staff improve the general security of the meeting rooms
 - PCs HAVE BEEN STOLEN at previous meetings
 - DO NOT assume that meeting areas are secure
- Please observe proper decorum in meetings

Agenda

- Welcome and Introductions
- Approve Agenda
- Approve previous meeting minutes
- Goals for this meeting
- Reflector and Web
- **Ground Rules**
- IEEE
 - Structure, Bylaws and Rules
 - Call for Patents
 - IEEE Standards Process
- Comment resolution on the draft
- **Future Meetings**
- Motions and Closing Business

Initial motions

| • [| Move | to | ap | prove | this | agend | la |
|-----|------|----|----|-------|------|-------|----|
|-----|------|----|----|-------|------|-------|----|

– M: S:

- Yes: No: Abs:

Motion result: Approved by voice vote without opposition

 Move to approve the minutes from Dec 2020, located at: https://www.ieee802.org/3/cp/public/2103/P802.3cp_una
 pproved-minutes-2103 Telecon.pdf

• M: S:

- Yes: No: Abs:

Motion result: Approved by voice without opposition

Goals for the meeting

- Resolve comments against 3.1
- Generate D3.2 for recirculation

Big ticket items

Resolve all 27 comments

Reflector and Web

To subscribe to the BIDI reflector, send an email to:

ListServ@ieee.org

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

subscribe stds-802-3-NGBIDI <yourfirstname> <yourlastname> end

- Send << Task Force name>> reflector messages to: stds-802-3-NGBIDI@listserv.ieee.org
- Task Force web page URL:

http://www.ieee802.org/3/cp/

Task Force Private Area

URL: http://www.ieee802.org/3/cp/private/

- Username: 802.3cp

– Password: <<>>

• Write it down...

 Note - The draft, and any other content, is posted for your review only, and neither the content nor access information should be copied or redistributed to others in violation of document copyrights.

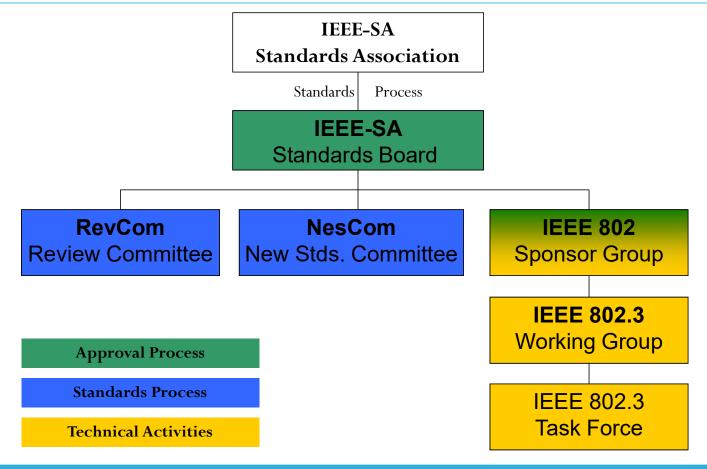
Ground Rules

- Based upon IEEE 802.3 Rules
 - Foundation based upon Robert's Rules of Order
 - Anyone in the room may speak
 - Anyone in the room may vote
- **RESPECT...** give it, get it
- NO product pitches
- NO corporate pitches
- NO prices!!!
 - This includes costs, ASPs, etc. no matter what the currency
- NO restrictive notices

Attendance

- Tutorial Material on attendance tool
 - http://ieee802.org/3/minutes/attendance_procedures.pdf
- Access details
 - URL: http://imat.ieee.org/
 - (For interim) Password will be provided
- I will take attendance using Zoom. Please enter in your name and affiliation when you log in

IEEE Structure



Important Bylaws and Rules

IEEE-SA Operations Manual

http://standards.ieee.org/develop/policies/sa opman/

IEEE-SA Standards Board Bylaws

http://standards.ieee.org/develop/policies/bylaws/

IEEE-SA Standards Board Operations Manual

http://standards.ieee.org/develop/policies/opman/

- IEEE 802 LAN/MAN Standards Committee (LMSC) Policies and Procedures
 https://ieee.app.box.com/v/PandP-LMSC
- IEEE 802 LAN/MAN Standards Committee (LMSC) Operations Manual http://www.ieee802.org/devdocs.shtml
- IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG) Policies and Procedures

http://www.ieee802.org/devdocs.shtml

IEEE 802.3 Working Group Operating Rules

http://ieee802.org/3/rules/P802_3_rules.pdf

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 (<u>patcom@ieee.org</u>); 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

Other guidelines for IEEE WG meetings

- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
 - Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
 - Don't discuss specific license rates, terms, or conditions.
 - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.
 - Technical considerations remain the primary focus
 - Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
 - Don't discuss the status or substance of ongoing or threatened litigation.
 - Don't be silent if inappropriate topics are discussed ... do formally object.
- •
- For more details, see IEEE-SA Standards Board Operations Manual, clause 5.3.10 and Antitrust and Competition Policy: What You Need to Know at http://standards.ieee.org/develop/policies/antitrust.pdf

Patent-related information

The patent policy and the procedures used to execute that policy are documented in the:

- IEEE-SA Standards Board Bylaws (http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6)
- IEEE-SA Standards Board Operations Manual (http://standards.ieee.org/develop/policies/opman/sect6.html#6.3)

Material about the patent policy is available at http://standards.ieee.org/about/sasb/patcom/materials.html

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org

IEEE SA Copyright Policy

- 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.
 - Previously Published material (copyright assertion indicated) shall not be presented/submitted to the Working Group nor incorporated into a Working Group draft unless permission is granted.
 - Prior to presentation or submission, you shall notify the Working Group Chair of previously Published material and should assist the Chair in obtaining copyright permission acceptable to IEEE SA.
 - For material that is not previously Published, IEEE is automatically granted a license to use any material that is presented or submitted.





IEEE SA Copyright Policy

- The IEEE SA Copyright Policy is described in the IEEE SA Standards Board Bylaws and IEEE SA Standards Board Operations Manual
- IEEE SA Copyright Policy, see

Clause 7 of the IEEE SA Standards Board Bylaws

https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7

Clause 6.1 of the IEEE SA Standards Board Operations Manual

https://standards.ieee.org/about/policies/opman/sect6.html

- IEEE SA Copyright Permission
- https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/permissionltrs.zip
 - IEEE SA Copyright FAQs
- http://standards.ieee.org/faqs/copyrights.html/
 - IEEE SA Best Practices for IEEE Standards Development
- http://standards.ieee.org/develop/policies/best practices for ieee standards development 051215.pdf
 - Distribution of Draft Standards (see 6.1.3 of the SASB Operations Manual)
- https://standards.ieee.org/about/policies/opman/sect6.html





Participant behaviour in IEEE-SA activities

- All participants in IEEE-SA activities are expected to adhere to the core principles underlying the:
 - IEEE Code of Ethics
 - IEEE Code of Conduct
- The core principles of the IEEE Codes of Ethics & Conduct are to:
 - Uphold the highest standards of integrity, responsible behavior, and ethical and professional conduct
 - Treat people fairly and with respect, to not engage in harassment, discrimination, or retaliation, and to protect people's privacy.
 - Avoid injuring others, their property, reputation, or employment by false or malicious action
- The most recent versions of these Codes are available at http://www.ieee.org/about/corporate/governance

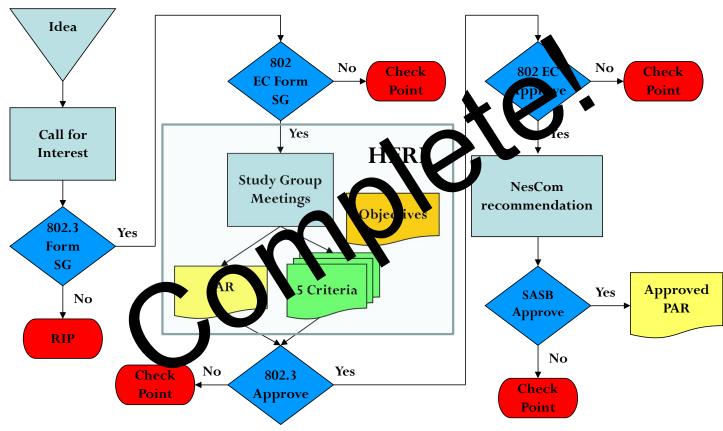
Participants in the IEEE-SA "individual process"

- The <u>IEEE-SA Standards Board Bylaws</u> 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

IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints

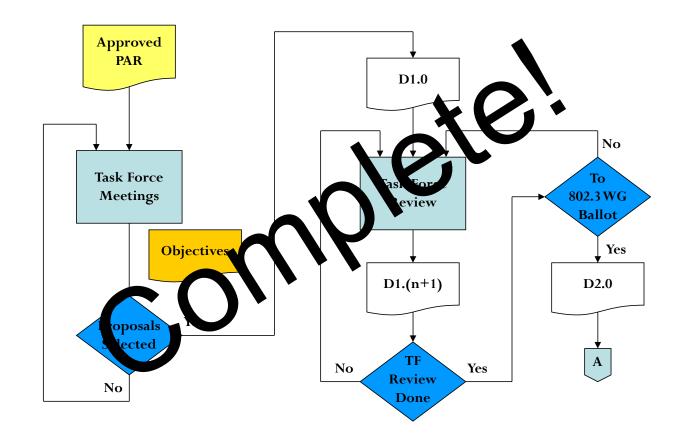
- The <u>IEEE-SA Standards Board Bylaws</u> (clause 5.2.1.3) specifies that "the standards development process shall not be dominated by any single interest category, individual, or organization"
 - This means no participant may exercise "authority, leadership, or influence by reason of superior leverage, strength, or representation to the exclusion of fair and equitable consideration of other viewpoints" or "to hinder the progress of the standards development activity"
- This rule applies equally to those participating in a standards development project and to that project's leadership group
- Any person who reasonably suspects that dominance is occurring in a standards development project is encouraged to bring the issue to the attention of the Standards Committee or the project's IEEE-SA Program Manager

Overview of IEEE 802.3 Standards Process (1/5)-Study Group Phase

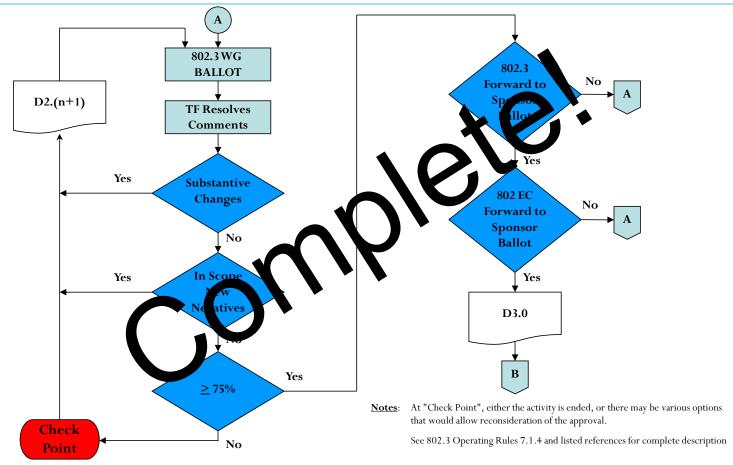


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

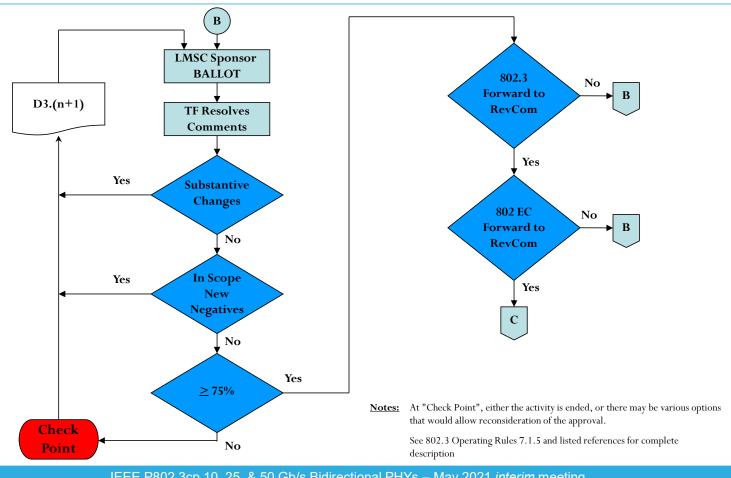
Overview of IEEE 802.3 Standards Process (2/5) – Task Force Comment Phase



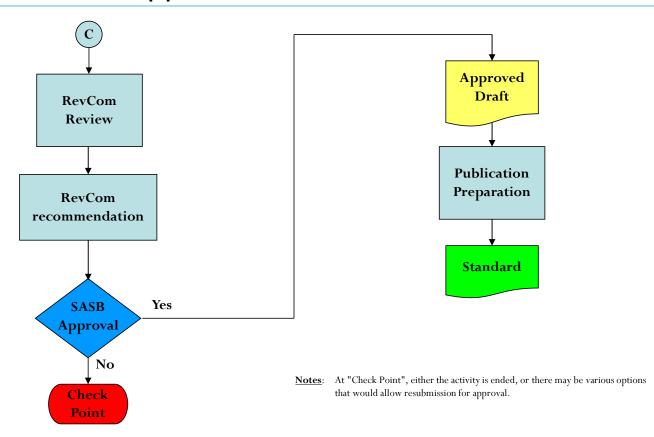
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



Overview of IEEE 802.3 Standards Process (4/5)-**Sponsor Ballot Phase**



Overview of IEEE 802.3 Standards Process (5/5) – Final Approvals / Standard Release



IEEE P802.3cp

10, 25, & 50 Gb/s bidirectional optical access PHYs Approved Project Documents

- PAR
 - http://www.ieee802.org/3/cp/P802 3cp PAR.pdf
- 5 Criteria
 - https://mentor.ieee.org/802-ec/dcn/18/ec-18-0245-00-ACSD-p802-3cp.pdf
- Objectives
 - http://www.ieee802.org/3/cp/180911_802d3_OBJ_BiDi_ _v2.pdf

IEEE P802.3cp Bidi optical access PHYs Objectives

- Support full-duplex operation only
- Support bidirectional transmission over a single strand of single mode fiber using a single wavelength in each direction
- Support MAC data rates of 10 Gb/s, 25 Gb/s, and 50 Gb/s
- Support distances of at least 10 km, at least 20 km, and at least 40 km
- Preserve the Ethernet frame format utilizing the Ethernet MAC
- Support a BER of better than or equal to 10⁻¹² at the MAC/PLS service interface (or the frame loss ratio equivalent)
- Support optional Energy-Efficient Ethernet operation
- Support silent start* operation to prevent bidirectional PHYs interfering with P2MP networks
- * Silent start means that the upstream-facing PHY does not transmit unless a valid downstream signal is received. This prevents the bidirectional PHY from jamming transmission on the P2MP network in cases of unintentional connection

IEEE P802.3cp Bidi optical access PHYs Sponsor ballot results

- Item 1 Date the ballot closed:
 - The initial Sponsor ballot on IEEE P802.3cp draft D3.0 closed on Apr 24 at 11:59 PM AOE

• Item 2 - Vote tally:

| - voic tany. | Ir | Req | | |
|----------------------------|----|-----|--------|------|
| Comments: 27 | # | % | Status | % |
| Abstain | 4 | 4 | PASS | < 30 |
| Disapprove with comment | 1 | 2 | - | - |
| Disapprove without comment | 0 | - | - | - |
| Approve | 84 | 98 | PASS | ≥ 75 |
| Ballots returned | 89 | 89 | PASS | ≥ 75 |
| Voters | 99 | - | - | - |

Action Items from last meeting

None

Comment review

• <u>Draft 3.1</u> (Password) Yuanqiu Luo Futurewei

Comments received Task Force

Proposed responses Yuanqiu Luo Futurewei

Liaisons and Communications

None so far

Motion #3

- Move that the editor create draft 3.2 based upon draft 3.1, reflecting the motions and comments collected in this meeting, and submit it for recirculation ballot.
- Technical (>=75%)
- M: S:
- Results Y: N: A:

Future Meetings

See: http://www.ieee802.org/3/interims/index.html

Meeting plan is uncertain – please check back routinely

Anyone interested in hosting an interim meeting contact me or the IEEE 802.3 Executive Secretary <u>Steve Carlson</u>.

Any other issues?

Motion #4

- Move to adjourn the meeting.
- Procedural (>50%)
- M: S:
- Results Y: N: A:

Thank You!