Agenda and General Information

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

Frank Effenberger Futurewei technologies Vancouver, Mar 2019

Meeting coordinates

- Meeting time
 - Monday 13:00 ~ 18:00
 - Tuesday 8:00 ~ 12:00
- Meeting place
 - Tweedsmuir Fairmont Hotel Conference Level

Agenda

- Welcome and Introductions
- Approve Agenda
- Approve Nov. 2018 Minutes
- Goals for this meeting
- Big Ticket Items
- · Reflector and Web
- Ground Rules
- IEEE
 - Structure, Bylaws and Rules
 - Call for Patents
 - IEEE Standards Process
- Comment resolution
- Presentations
- Liaisons and Communications
- Future Meetings
- Motions and Closing Business

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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

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Initial motions

- Move to approve this agenda
 - M: S:
 - -Yes: No: Abs:
 - Motion result
- - M: S:
 - -Yes: No: Abs:
 - Motion result

Goals for the meeting

- Consider presentations
- Identify candidates for baseline proposals
- Lay the ground work for the next meeting

Big ticket items

- The organization of our work
- What existing clauses will serve as the basis
- PMD layers for the 3 speeds and 3 reaches
- Lay the ground work for the next meeting

Reflector and Web

 To subscribe to the BIDI reflector, send an email to: <u>ListServ@ieee.org</u>

with the following in the body of the message (do not include "<>"): subscribe <u>stds-802-3-NGBIDI</u><yourfirstname> <yourlastname> end

- Send <<Task Force name>> reflector messages to: <u>stds-802-3-NGBIDI@listserv.ieee.org</u>
- Task Force web page URL: <u>http://www.ieee802.org/3/cp/</u>

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Task Force Private Area

- URL: http://www.ieee802.org/3/cp/private/
 - Username: 802.3cp
 - Password: <<<u>xxxxxxx</u>>>
- 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.

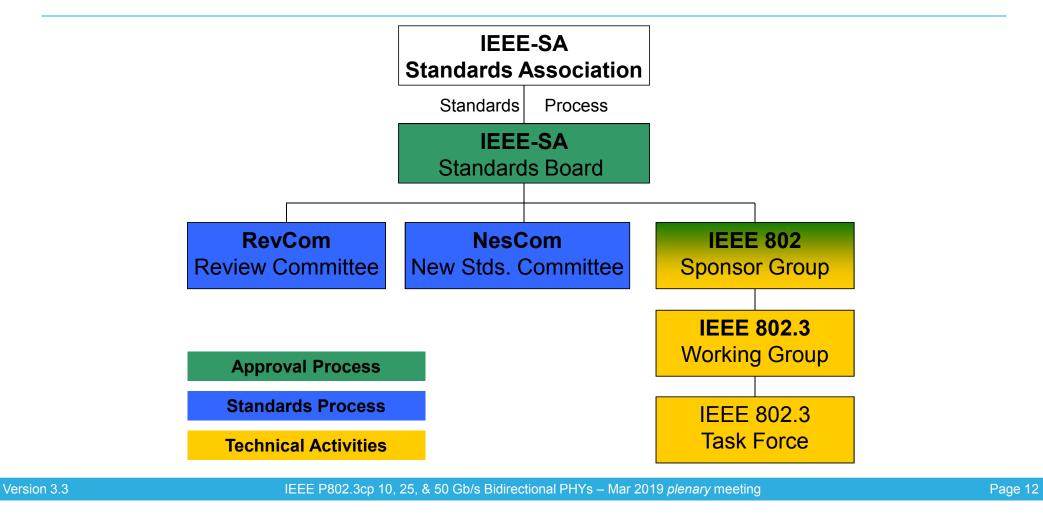
Ground Rules

- 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
 - <u>http://ieee802.org/3/minutes/attendance_procedures.pdf</u>
- Access details
 - URL: <u>http://imat.ieee.org/</u>
 - (For interim) Password will be provided

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 <u>http://standards.ieee.org/develop/policies/opman/</u>
- 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
 <u>http://www.ieee802.org/devdocs.shtml</u>
- 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

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Instructions for the WG Chair

The IEEE-SA strongly recommends that at each WG meeting the chair or a designee:

• Show slides #1 through #4 of this presentation

- Advise the WG attendees that:
 - IEEE's patent policy is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
 - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
 - There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.

• Instruct the WG Secretary to record in the minutes of the relevant WG meeting:

- That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
- That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard
- Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.
- The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
- It is recommended that the WG Chair review the guidance in *IEEE-SA Standards Board Operations Manual* 6.3.5 and in FAQs 14 and 15 on inclusion of potential Essential Patent Claims by incorporation or by reference.

Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE-SA Standards Board.

(Optional to be shown)

Participants have a duty to inform the IEEE

- Participants <u>shall</u> 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 <u>should</u> 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



Slide #1

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





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



<u>Slide #3</u>

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



Slide #4

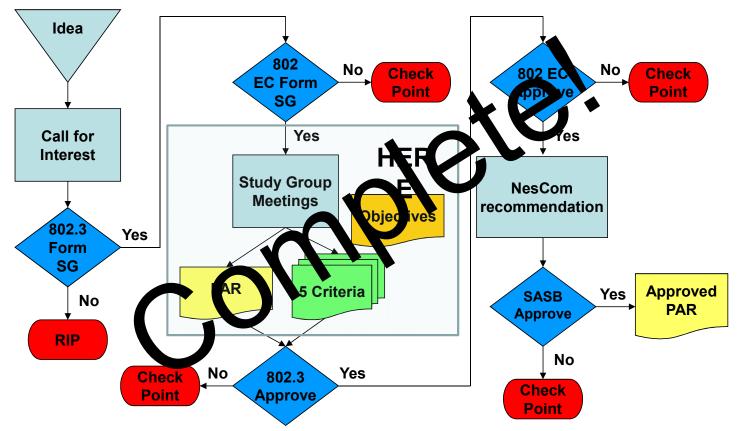
Participation in IEEE 802 Meetings

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)

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

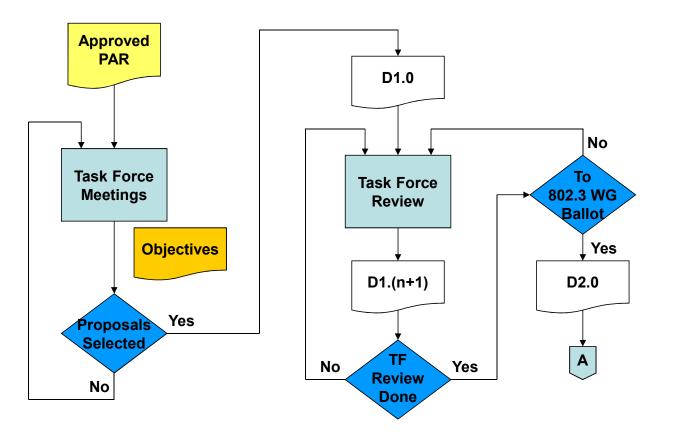


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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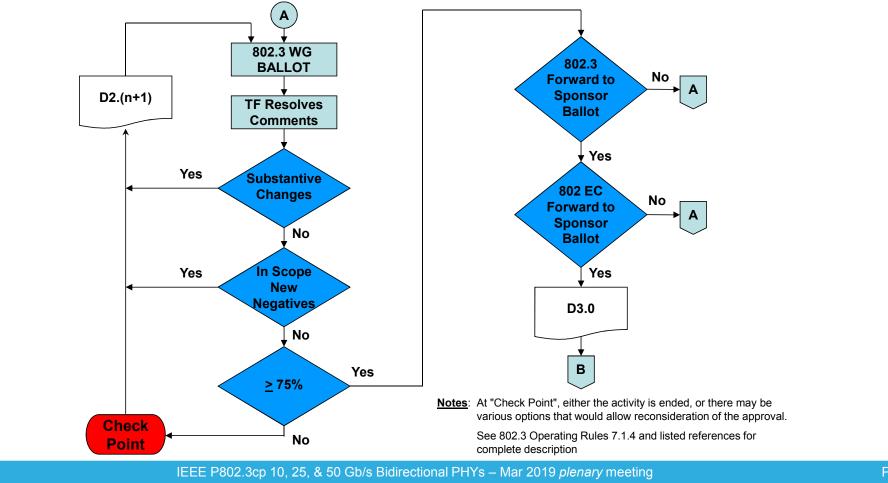
Overview of IEEE 802.3 Standards Process (2/5) – Task Force Comment Phase



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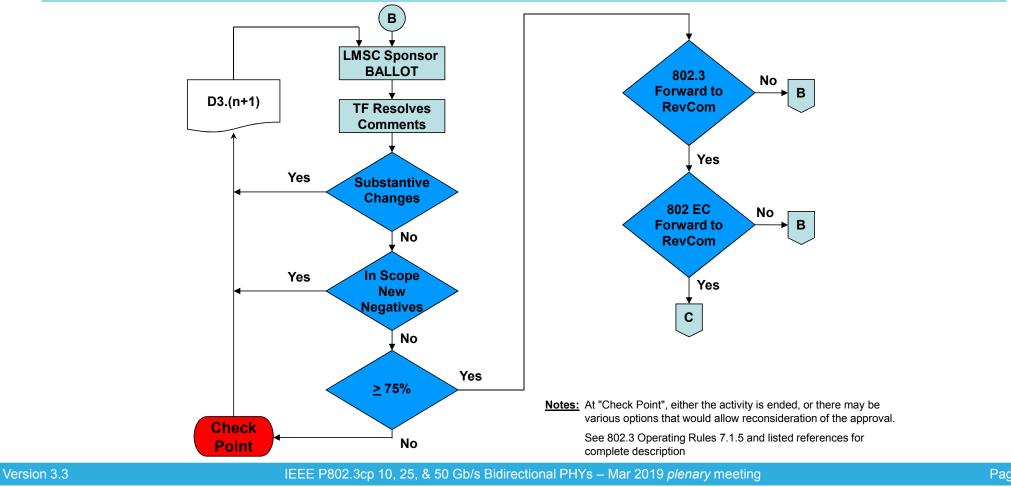
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Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase

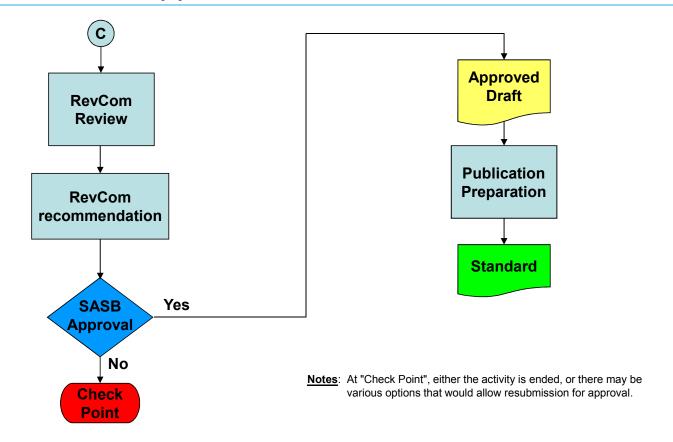


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Overview of IEEE 802.3 Standards Process (4/5)-Sponsor Ballot Phase



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



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IEEE P802.3cp

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

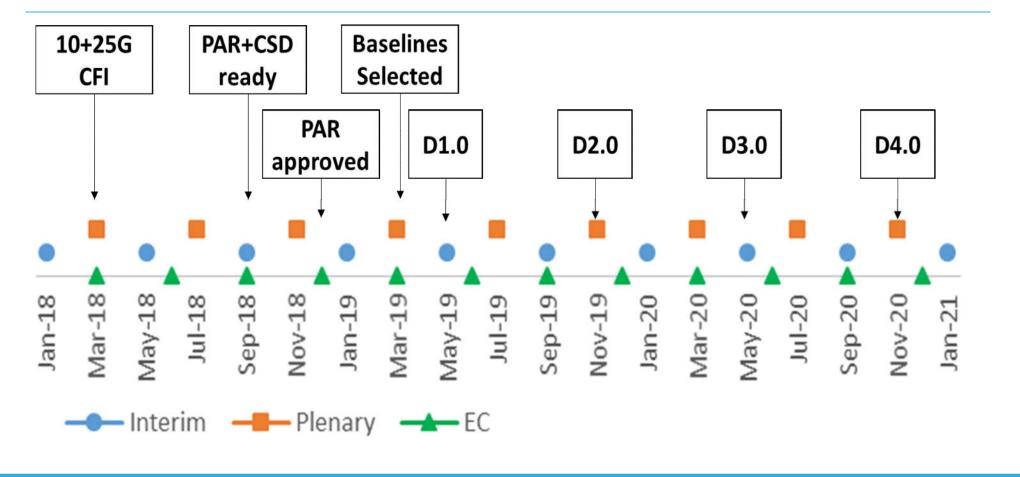
- PAR
 - <u>http://www.ieee802.org/3/cp/P802_3cp_PAR.pdf</u>
- 5 Criteria
 - https://mentor.ieee.org/802-ec/dcn/18/ec-18-0245-00-ACSD-p802-3cp.pdf
- Objectives
 - http://www.ieee802.org/3/cp/180911_802d3_OBJ_BiDi _v2.pdf

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 Timeline



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IEEE P802.3cp Bidi optical access PHYs Working Group ballot results

- Item 1 Date the ballot closed:
 - The << [*Initial* | X^{xx}] >> Working Group <<*recirculation*>> ballot on IEEE P802.3<<*xx*> draft D<<*n.n*> closed on <<*date*>> at 11:59 PM AOE.

 Item 2 - Vote tally: 		<< [<i>Initial</i> X ^{xx} recirculation] >> Draft D < <n.n></n.n>			Req	
Comments: <>>		#	%	Status	%	
	Abstain	nn	nn	PASS/FAIL	< 30	
	Disapprove with comment	n	-	-	-	
	Disapprove without comment	n	-	-	-	
	Approve	nn	nn	PASS/FAIL	≥75	
	Ballots returned	nn	nn	PASS/FAIL	> 50	
	Voters	nn	-	-	-	

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

- Item 1 Date the ballot closed:
 - The << [*Initial* | X^{xx}] >> Sponsor <<*recirculation*>> ballot on IEEE P802.3<<*xx*> draft D<<*n.n*> closed on <<*date*>> at 11:59 PM <<*EST/EDT*>>.

 Item 2 - Vote tally: 		<< [<i>Initial</i> X ^{xx} recirculation] >> Draft D < <n.n></n.n>			Req
	Comments: << <u>nn</u> >>	#	%	Status	%
	Abstain	nn	nn	PASS/FAIL	< 30
	Disapprove with comment	n	-	-	-
	Disapprove without comment	n	-	-	-
	Approve	nn	nn	PASS/FAIL	≥75
	Ballots returned	nn	nn	PASS/FAIL	≥75
	Voters	nn	-	-	-

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Action Items from last meeting

• Respond to liaison from ITU-T SG15

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Presentations

- Draft outline
- Draft CI 56 changes
- Draft new CI 200
- Draft new Cl 201
- Draft new CI 202
- Wavelength plans
- Liaison from SG15
- Liaison response to SG15

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Frank Effenberger

Futurewei

Futurewei

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 - Futurewei

Futurewei

Note –Times listed are subject to change.

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Liaisons and Communications

- LS from ITU-T SG15 Q2
- <u>http://www.ieee802.org/3/minutes/jan19/incoming/ITU_SG15-LS-</u> <u>174_to_IEEE_802d3.pdf</u>

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Action Items for next meeting

IEEE P802.3cp 10, 25, & 50 Gb/s Bidirectional PHYs – Mar 2019 plenary meeting

Future Meetings

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

	I expect to attend this meeting				
	Yes	Maybe	Nope		
 May 2019 <i>Interim</i> – Salt Lake City – May 20 					
 July 2019 <i>Plenary</i> Vienna, Austria July 15-18 					
 Sep 2019 <i>Interim</i> Indianapolis Sep 9-13 					

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

Motions and closing business

 Move to confirm Duane Remein as Chief Editor of 802.3cp task force

Thank You!

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