IEEE P802.3cm 400G over MMF Task Force Agenda & General Information

Robert Lingle Jr, OFS Chair, IEEE P802.3cm 400G over MMF Task Force IEEE 802.3 Interim, September 10, 2018 Spokane, WA USA

> IEEE P802.3cm 400G over MMF Task Force September 2018 Interim, Spokane, WA USA

Agenda

- Welcome / Introductions
- Approval of Agenda
- Approve Previous Task Force Minutes
- IEEE 802 Participation
- Patent Policy
- Task Force Information & Private Area
- Attendance
- Ground Rules
- The Role of the Chair
- IEEE Structure, Bylaws and Rules, IEEE 802.3 Standards Process
- Ad Hoc Report
- Editor's Report
- Goals for the Week, Big Ticket Items
- Schedule
- Future Meetings
- Presentations
- Draft D0.2 Comment Resolution
- Discussion, Straw Polls, Motions
- Closing Business

Task Force Decorum



- Photography or recording by permission only (2016 SASB Op Manual 5.3.3.2)
- Cell phone ringers off
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (5.3.3.3)
- 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

IEEE P802.3cm 400G over MMF Task Force September 2018 Interim, Spokane, WA USA

Approve Previous Task Force Minutes

- Move to approve
- Previously posted meeting minutes from San Diego July Plenary IEEE P802.3cm Task Force meeting:
 - <u>http://www.ieee802.org/3/cm/public/July18/unapproved_meeting</u> <u>minutes_3cm_01_0718.pdf</u>

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)

IEEE 802 Executive Committee

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



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

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
--------------	----

IEEE 802.3cm 400G over MMF Task Force Information

- Robert Lingle Jr, Chair
- Home Page <u>http://www.ieee802.org/3/cm/index.html</u>
- Reflector Information http://www.ieee802.org/3/cm/reflector.html
- Editors
 - Jonathan King, Finisar SR8 & Chief Editor
 - Jonathan Ingham, FIT SR4.2 clause
- Recording Secretary
 - Mabud Choudhury, OFS

IEEE 802.3cm 400G over MMF Task Force Private area

• Private Area -

http://www.ieee802.org/3/cm/private/index.html

- Username: (provided at meeting)
- Password: (provided at meeting)

Attendance

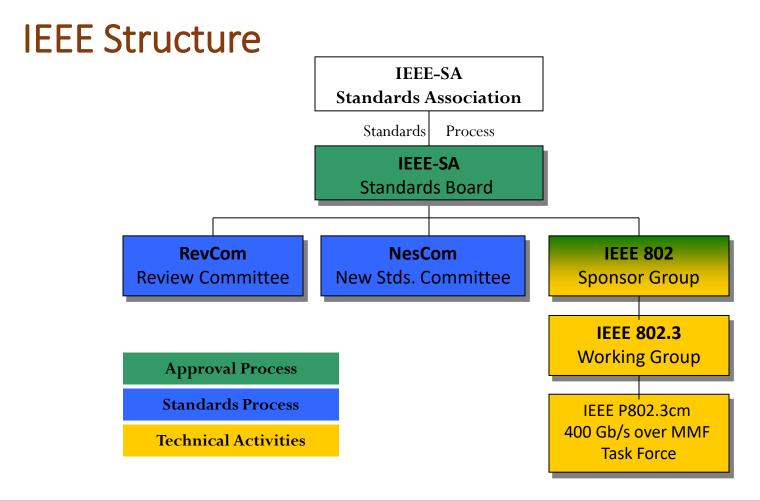
- Tutorial Material on attendance tool
 - <u>http://ieee802.org/3/minutes/attendance_procedures.pdf</u>
- Access details
 - URL: <u>http://imat.ieee.org/</u>
 - Use your IMAT login (must be on meeting SSID no VPN)
 - Password will be provided
- Attendance books
 - Please ALSO use the attendance book
 - Keeps track of attendance in room
 - Used to support requests to verify attendance by chair if IMAT not used.

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

The Role of the Chair

- Per the IEEE 802.3 Ethernet WG Operations Manual (<u>http://www.ieee802.org/3/rules/P802_3_rules.pdf</u>)
 - The operation of the TF has to be balanced between democratic procedures that reflect the desires of the TF members and the TF Chair's responsibility to produce a draft standard, recommended practice, or guideline in a reasonable amount of time for review and approval by the WG. Robert's Rules of Order shall be used in combination with these operating rules to achieve this balance.
 - The full responsibilities of the chair are specified in 3.4.3 Task Force Chair's Responsibilities.
- Reminder individual standards activities within the WG are, at the discretion of the WG, carried out by Task Forces (TF) operating under, and reporting to, the WG.



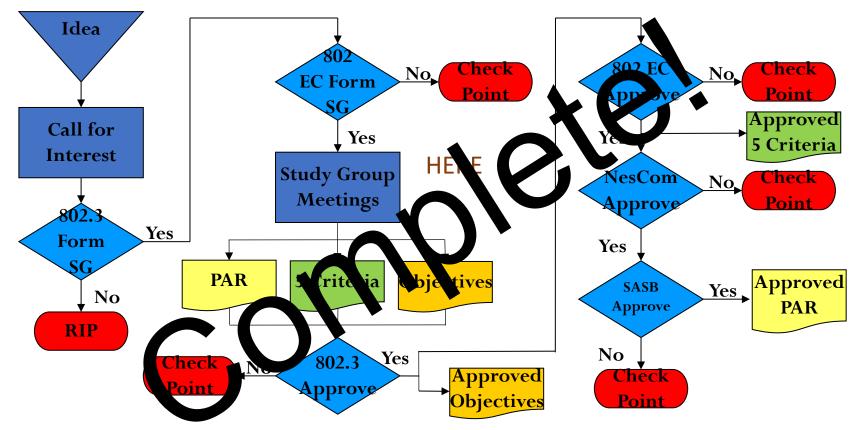
Important Bylaws, Rules, & References

- IEEE-SA Operations Manual <u>http://standards.ieee.org/sa/sa-om.pdf</u>
- IEEE-SA Standards Board Bylaws http://standards.ieee.org/guides/bylaws/sb-bylaws.pdf
- IEEE-SA Standards Board Operations Manual http://standards.ieee.org/guides/opman/sb-om.pdf
- IEEE 802 LAN/MAN Standards Committee (LMSC) Policies and Procedures http://standards.ieee.org/about/sasb/audcom/pnp/LMSC.pdf
- IEEE 802 LAN/MAN Standards Committee (LMSC) Operations Manual http://ieee802.org/PNP/approved/IEEE_802_OM_v19.pdf
- IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG) Policies and Procedures

http://standards.ieee.org/about/sasb/audcom/pnp/LMSC.pdf

- IEEE 802.3 Working Group Operating Rules http://ieee802.org/3/rules/P802_3_rules.pdf
- "Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy" http://standards.ieee.org/develop/policies/antitrust.pdf

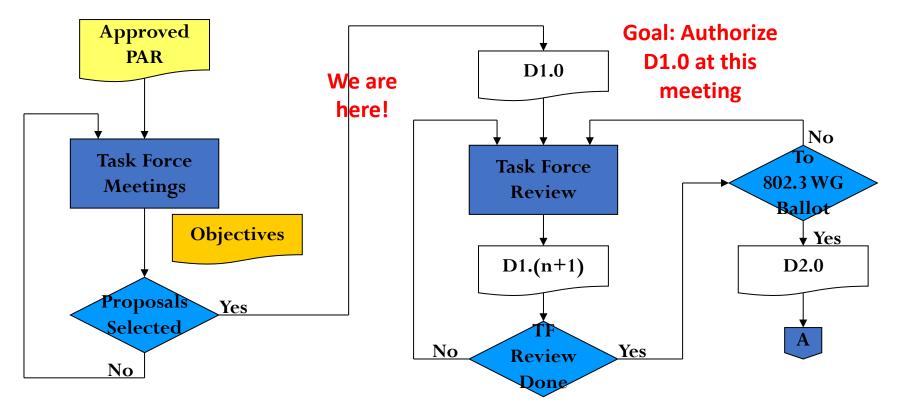
Overview of IEEE 802.3 Standards Process (1/5)- Study Group Phase



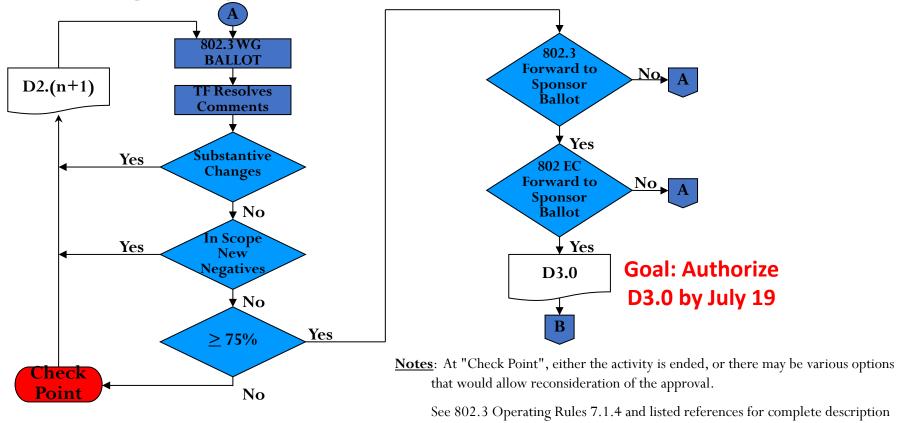
Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

IEEE P802.3cm 400G over MMF Task Force September 2018 Interim, Spokane, WA USA

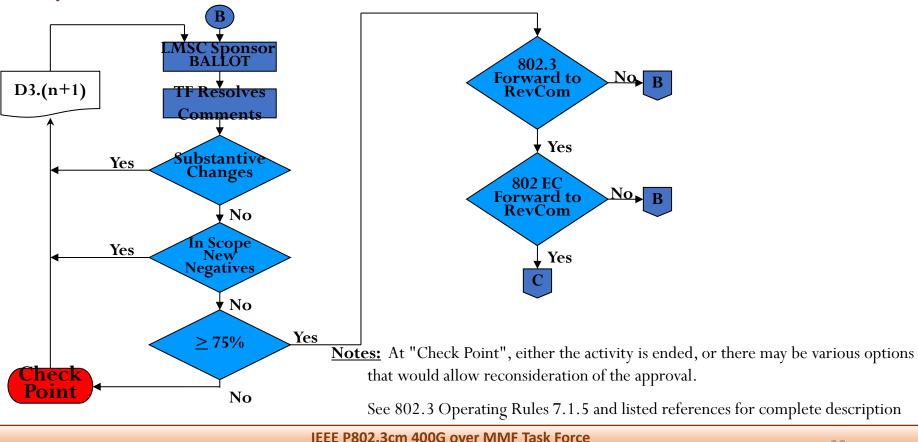
Overview of IEEE 802.3 Standards Process (2/5) – Task Force Comment Phase



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

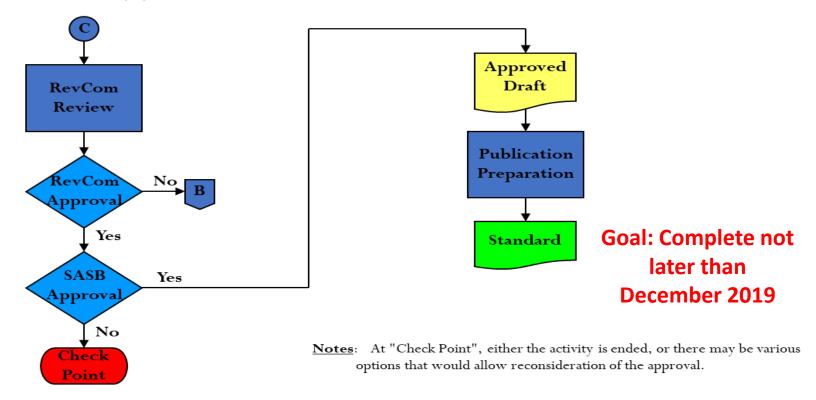


Overview of IEEE 802.3 Standards Process (4/5)-Sponsor Ballot Phase



September 2018 Interim, Spokane, WA USA

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



Our PAR and Objectives

http://www.ieee802.org/3/cm/P802_3cm_PAR_140518.pdf Approved PAR for the "400G over MMF Task Force"

• Full title: Standard for Ethernet Amendment Physical Layer and Management Parameters for 400 Gb/s over Multimode Fiber

http://www.ieee802.org/3/cm/Adopted Objectives NGMMF 01 08mar1 8.pdf

Specific objectives approved by WG

- Define a physical layer specification that supports 400 Gb/s operation over 8 pairs of MMF with lengths up to at least 100m Baseline adopted by TF in May Interim in Pittsburgh
- Define a physical layer specification that supports 400 Gb/s operation over 4 pairs of MMF with lengths up to at least 100m Baseline adopted by TF in July Plenary in San Diego

Ad Hoc Report

- <u>http://www.ieee802.org/3/cm/public/adhoc/index.shtml</u>
- July 26, 2018: 21 attendees
 - Reviewed proposed timeline. Discussed needed contributions for September Spokane meeting
- August 23, 2018: 25 attendees
 - Reviewed contribution on MDI Lane Assignments for 400GBASE-SR4.2 and schedule for Drafts D0.1 and D0.2
- August 30 2018: 24 attendees
 - Comment resolution, discussion and next steps for Draft D0.1, and schedule for Draft D0.2

Editors' Report

- Draft 0.1
 - Posted, reviewed
 - 19 comments resolved
- Draft 0.2
 - Posted
 - x (to be updated) comments received
- Items needing more work
 - Editing instructions for Clause 1, 30, 45, 78 need to be written
 - Cross reference clean-up
 - References for the MDI for 400GBASE-SR8 TBDs
 - TDECQ measurement bandwidth for 400GBASE-SR4.2
 - MDI sections for 400GBASE-SR4.2

Goals for today

• Do the work necessary to authorize editors to generate D1.0

Big Ticket Items

- 400GBASE-SR4.2 PMD type
 - MDI lane assignments
 - TDECQ and SECQ methodology
- Draft D0.2
 - Comment resolution, discussion, next steps

Schedule

Monday 9/10: Eli	Monday 9/10: Elizabethan Room 2nd Floor> please check online schedule for updates!				
Time	Presenter	Affiliation	Title	File Name	
8:30 AM	Robert Lingle, Jr	OFS	Agenda and General Information	agenda_3cm_01_0918.pdf	
9:00 AM	Jonathan Ingham	FIT	MDI Lane Assignments for 400GBASE-SR4.2	ingham_3cm_01_0918.pdf	
9:45 AM	Jonathan Ingham	FIT	TDECQ and SECQ methodology for 400GBASE-SR4.2	ingham_3cm_02_0918.pdf	
10:30 AM	Coffee Break				
11:00 AM	Jonathan King	Finisar	Review of D0.2	comment file to be linked	
12:00 PM			Lunch		
1:30 PM	Jonathan Ingham	FIT	Review of D0.2 (continued)	comment file to be linked	
3:00 PM			Coffee Break		
3:30 PM	Mabud Choudhury	OFS	Project Timeline Proposal	timeline_3cm_01_0918.pdf	
4:00 PM			Motions		
6:00 PM	Break for the Day				

Check room assignments at <u>http://ieee802.org/3/interims/sept18/schedule.html</u> <u>https://918interim.sched.com/mobile</u>

IEEE P802.3cm 400G over MMF Task Force September 2018 Interim, Spokane, WA USA

Future Meetings

- See: <u>http://www.ieee802.org/3/interims/index.html</u>
- Nov 2018
 - Week of November 12, 2018
 - Marriott Marquis Queen's Park
 - Bangkok, Thailand
- Jan 2019
 - Week of January 14, 2019
 - Hilton Long Beach
 - Long Beach, CA, USA
- March 2019
 - Week of March 11, 2019
 - Fairmont Hotel Vancouver
 - Vancouver, BC Canada

Thank You!

IEEE P802.3cm 400G over MMF Task Force September 2018 Interim, Spokane, WA USA