

**IEEE P802.3ct Task Force:**  
100 Gb/s and 400 Gb/s over DWDM Systems /  
Joint Task Force Meeting with IEEE P802.3cn Task Force

**Agenda and General Information**

John D'Ambrosia,  
Acting Chair, IEEE P802.3ct Task Force  
Futurewei, Subsidiary of Huawei  
IEEE 802.3 Jan 2019 Interim  
Vancouver, BC, Canada

# Foreword

- IEEE P802.3cn Task Force will have joint meeting with IEEE P802.3ct Task Force.
- The IEEE P802.3ct Task Force will meet Tuesday @ 2pm (Note – Task Force meeting will happen no earlier than this time, but may be delayed due to schedule.)
- This agenda deck addresses the joint meeting and the IEEE P802.3ct Task Force Meeting
- The joint task force meeting will also be addressed in the IEEE P802.3cn agenda file
- Joint Task Force Meeting, P802.3cn, P802.3ct Task Force meetings will adjourn by Tues 6pm

# Joint Task Force Agenda

- Welcome / Introductions
- Approval of Agenda
- IEEE 802 Participation
- IEEE P802.3cn Task Force Information
- IEEE P802.3ct Task Force Information
- Attendance
- Patent Policy
- Ground Rules
- The Role of the Chair
- IEEE
  - Structure
  - Bylaws and Rules
  - IEEE 802.3 Standards Process
- Goals for the Week for both Task Forces
- Liaisons & Communications
- Ad Hocs Reports
- IEEE P802.3cn Comment Consideration – D1.0
- IEEE P802.3ct Presentations / Discussion / Strawpolls
- Future Meetings

# IEEE P802.3ct Agenda

- Appointment of Recording Secretary
- Confirmation of Task Force Chair
- Approval of Agenda
- IEEE 802 Participation
- Attendance
- Approval of Task Force Ad hoc Minutes
- Patent Policy
- Discussion & Presentations (if needed)
- Motions
- Closing Business
- Future Meetings

# 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

# 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](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](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

# IEEE P802.3cn Task Force Project information

- Task Force Organization
  - John D'Ambrosia, Chair, IEEE P802.3cn Task Force
  - Editorial Team
    - Pete Anslow – Chief Editor
    - Peter Stassar – 40km Optical PHY Clauses
  - Task force web and reflector information
    - Reflector: <http://www.ieee802.org/3/cn/reflector.html>
    - Home page: <http://www.ieee802.org/3/cn/index.html>
  - Project Documentation –
    - PAR : <https://development.standards.ieee.org/get-file/P802.3cn.pdf?t=99813600003>
    - CSD: <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0248-00-ACSD-p802-3cn.pdf>
    - Objectives: <http://www.ieee802.org/3/cn/proj doc/3cn Objectives 190212.pdf>
    - Timeline <http://www.ieee802.org/3/cn/proj doc/timeline 3cn 190119.pdf>
- Ad Hoc page <http://www.ieee802.org/3/cn/public/adhoc/index.html>
- Private Area <http://www.ieee802.org/3/cn/private/index.html>

# IEEE P802.3ct Task Force Project information

- Task Force Organization
  - John D'Ambrosia, Chair, IEEE P802.3cn Task Force
  - Editorial Team
    - TBD – Chief Editor
    - Pete Anslow – Supporting Clauses
    - Peter Stassar – 100 GbE Optical PHY Clause
    - Steve Trowbridge - 100 GbE PCS/FEC/PMA Extender Clauses
    - Tom Issenhuth - 400 GbE Optical PHY Clause
    - John DeAndrea - 400 GbE PCS/PMA Clauses
  - Task force web and reflector information
    - Reflector: <http://www.ieee802.org/3/ct/reflector.html>
    - Home page: <http://www.ieee802.org/3/ct/index.html>
  - Project Documentation –
    - PAR : [http://www.ieee802.org/3/ct/P802\\_3ct\\_PAR.pdf](http://www.ieee802.org/3/ct/P802_3ct_PAR.pdf)
    - CSD: <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0249-00-ACSD-p802-3ct.pdf>
    - Objectives: [http://www.ieee802.org/3/ct/3ct\\_Objectives\\_190212.pdf](http://www.ieee802.org/3/ct/3ct_Objectives_190212.pdf)
    - Timeline: [http://www.ieee802.org/3/ct/timeline\\_3ct\\_190119.pdf](http://www.ieee802.org/3/ct/timeline_3ct_190119.pdf)
- Ad Hoc page: <http://www.ieee802.org/3/ct/public/adhoc/index.html>



# Attendance

- Tutorial Material on attendance tool
  - [http://ieee802.org/3/minutes/attendance\\_procedures.pdf](http://ieee802.org/3/minutes/attendance_procedures.pdf)
- Attendance books
  - Keeps track of attendance in room
  - Used to support requests to verify attendance by chair if IMAT not used.

# IEEE P802.3ct TF Mtg Task Force Ad Hoc Minutes

- Feb 14 - [http://www.ieee802.org/3/ct/public/adhoc/19\\_0214/minutes\\_3ct\\_190214\\_approved.pdf](http://www.ieee802.org/3/ct/public/adhoc/19_0214/minutes_3ct_190214_approved.pdf)
- Feb 21 - [http://www.ieee802.org/3/ct/public/adhoc/19\\_0221/minutes\\_3ct\\_a\\_190221\\_unapproved.pdf](http://www.ieee802.org/3/ct/public/adhoc/19_0221/minutes_3ct_a_190221_unapproved.pdf)

# 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.

# 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](mailto: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.**

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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](mailto:patcom@ieee.org)**

# Ground Rules

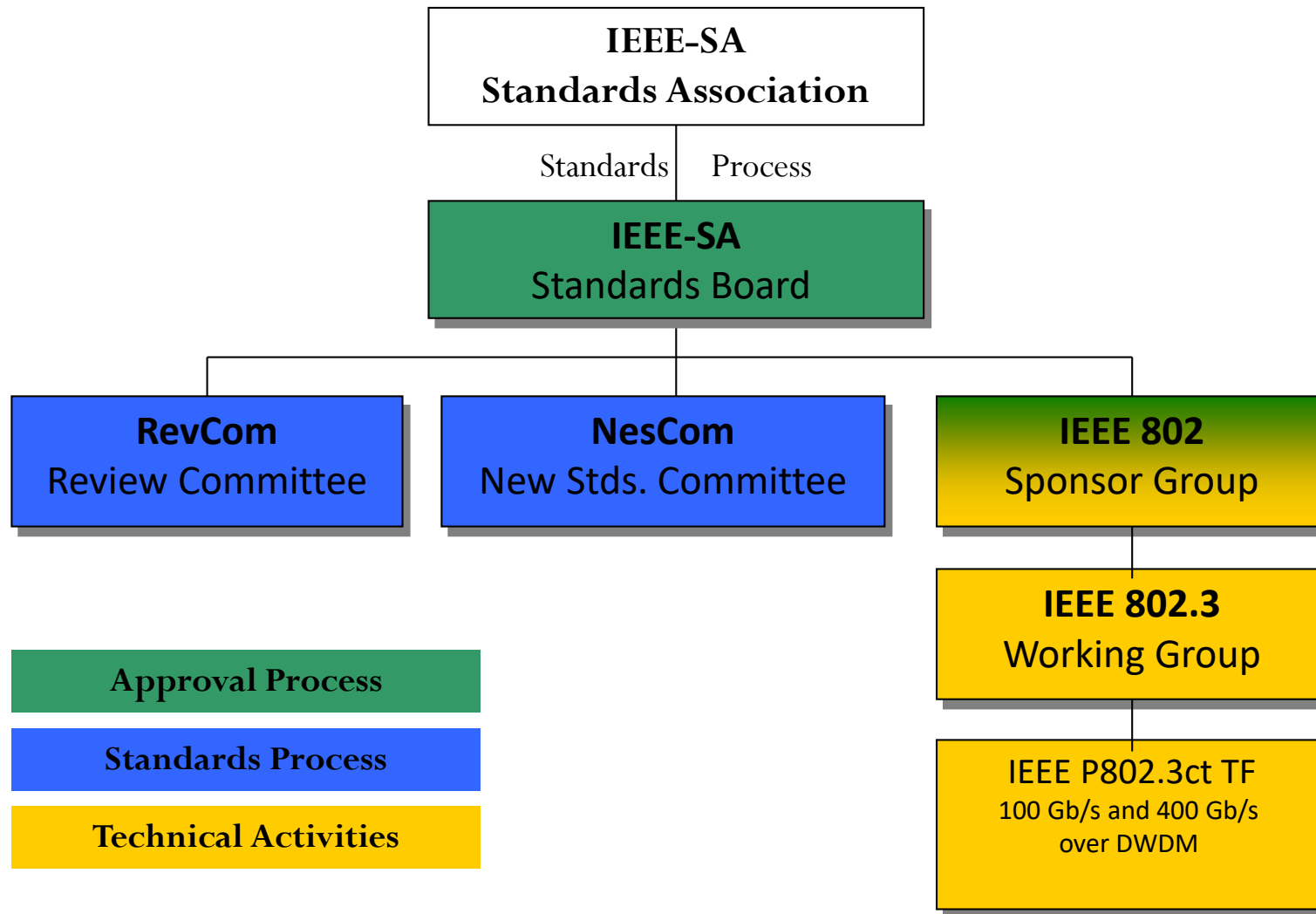
- Based upon IEEE 802.3 Rules
  - Foundation based upon Robert's Rules of Order
  - Anyone in the room may speak
  - Anyone in the room may vote
- RESPECT... give it, get it
- NO product pitches
- NO corporate pitches
- NO prices!!!
  - This includes costs, ASPs, etc. no matter what the currency
- NO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



# The Role of the Chair

- Per the IEEE 802.3 Ethernet WG Operations Manual ([http://www.ieee802.org/3/rules/P802\\_3\\_rules.pdf](http://www.ieee802.org/3/rules/P802_3_rules.pdf))
  - 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.

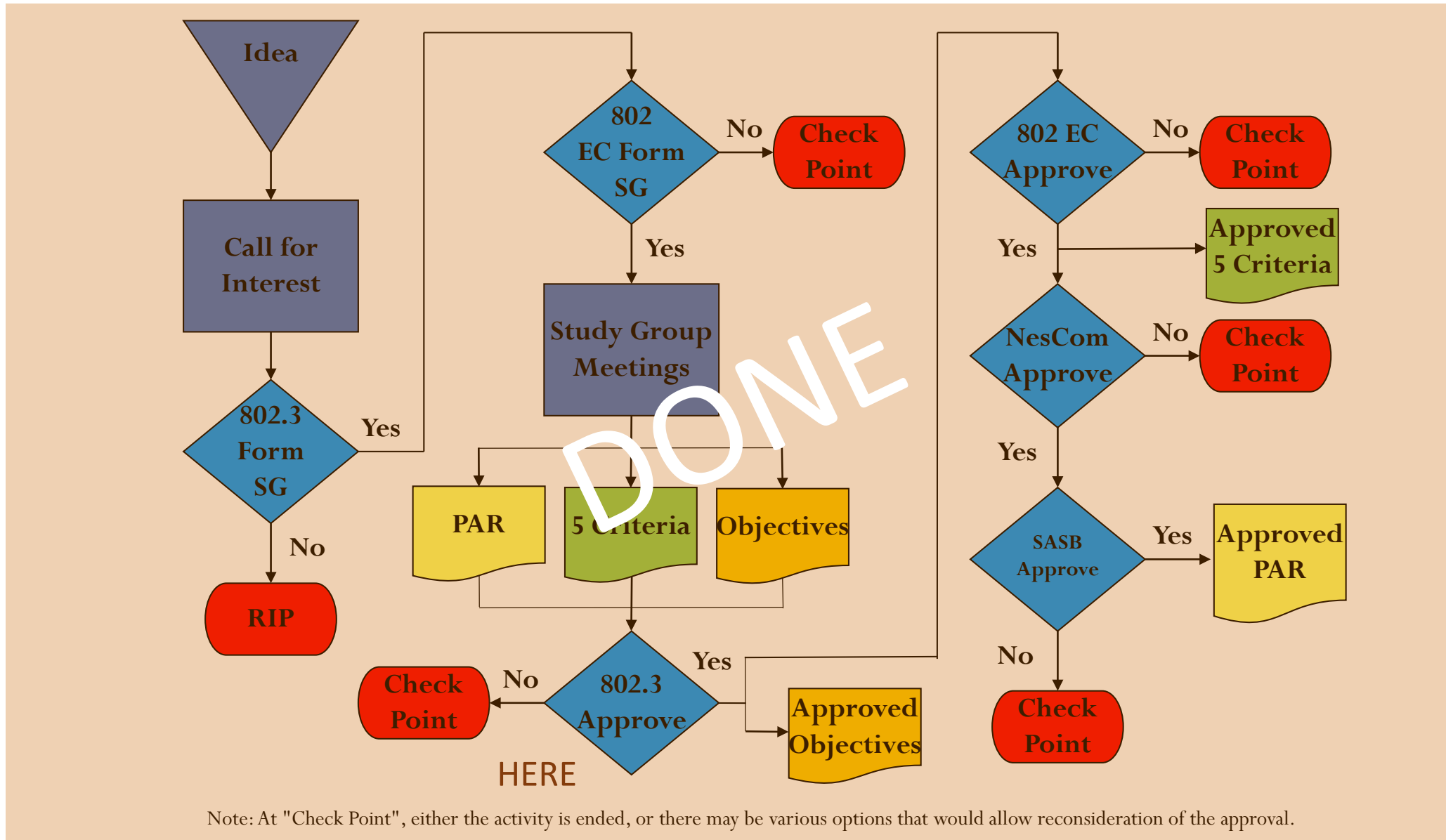
# IEEE Structure



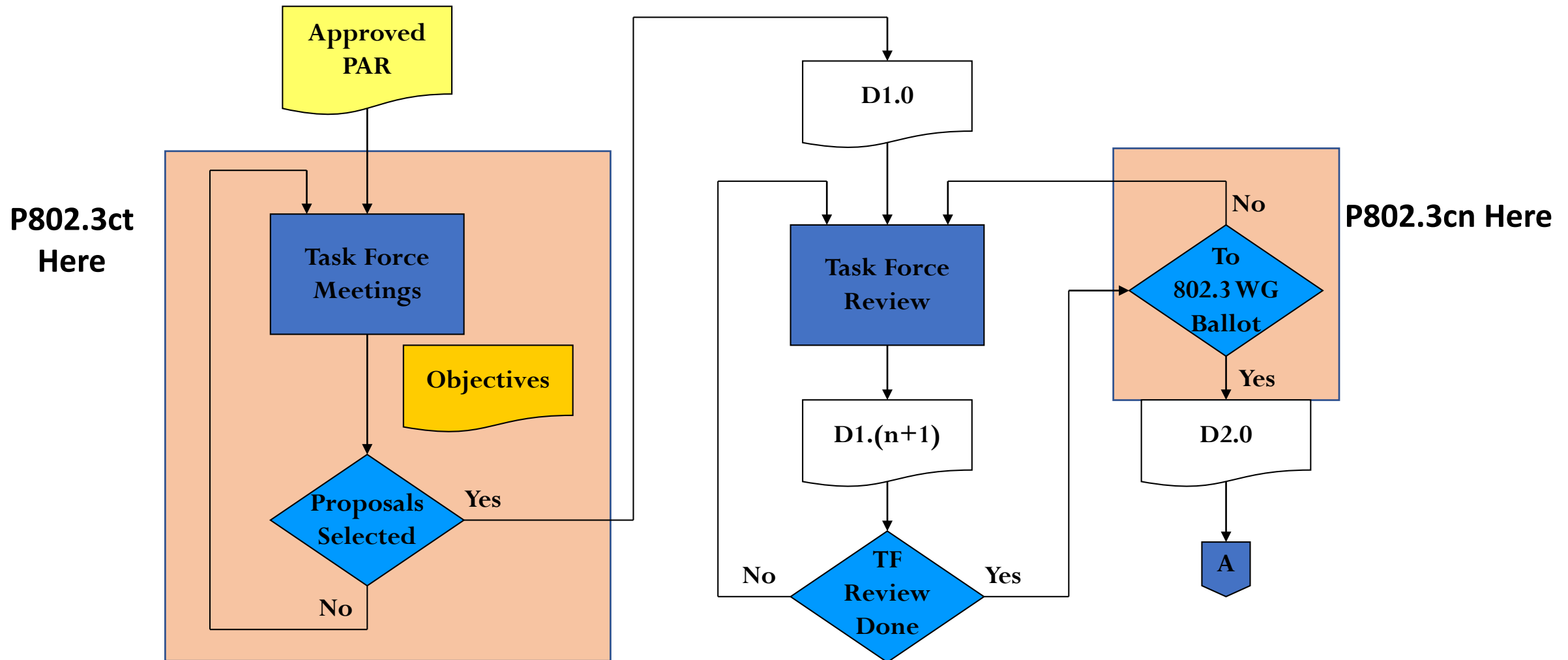
# Important Bylaws, Rules, and References

- **IEEE-SA Operations Manual**  
[http://standards.ieee.org/develop/policies/sa\\_opman/](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](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>

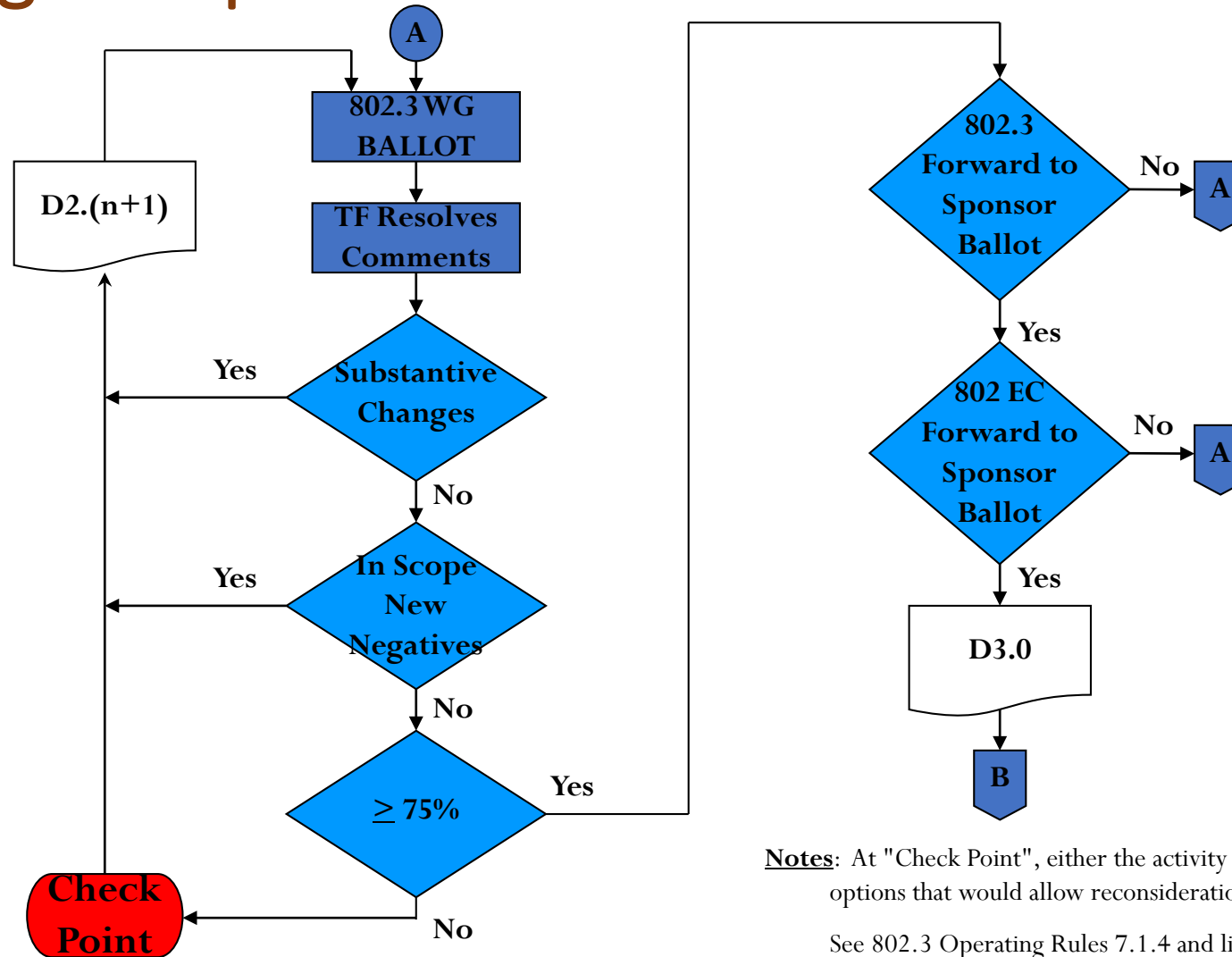
# Overview of IEEE 802.3 Standards Process (1/5)- Study Group Phase



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



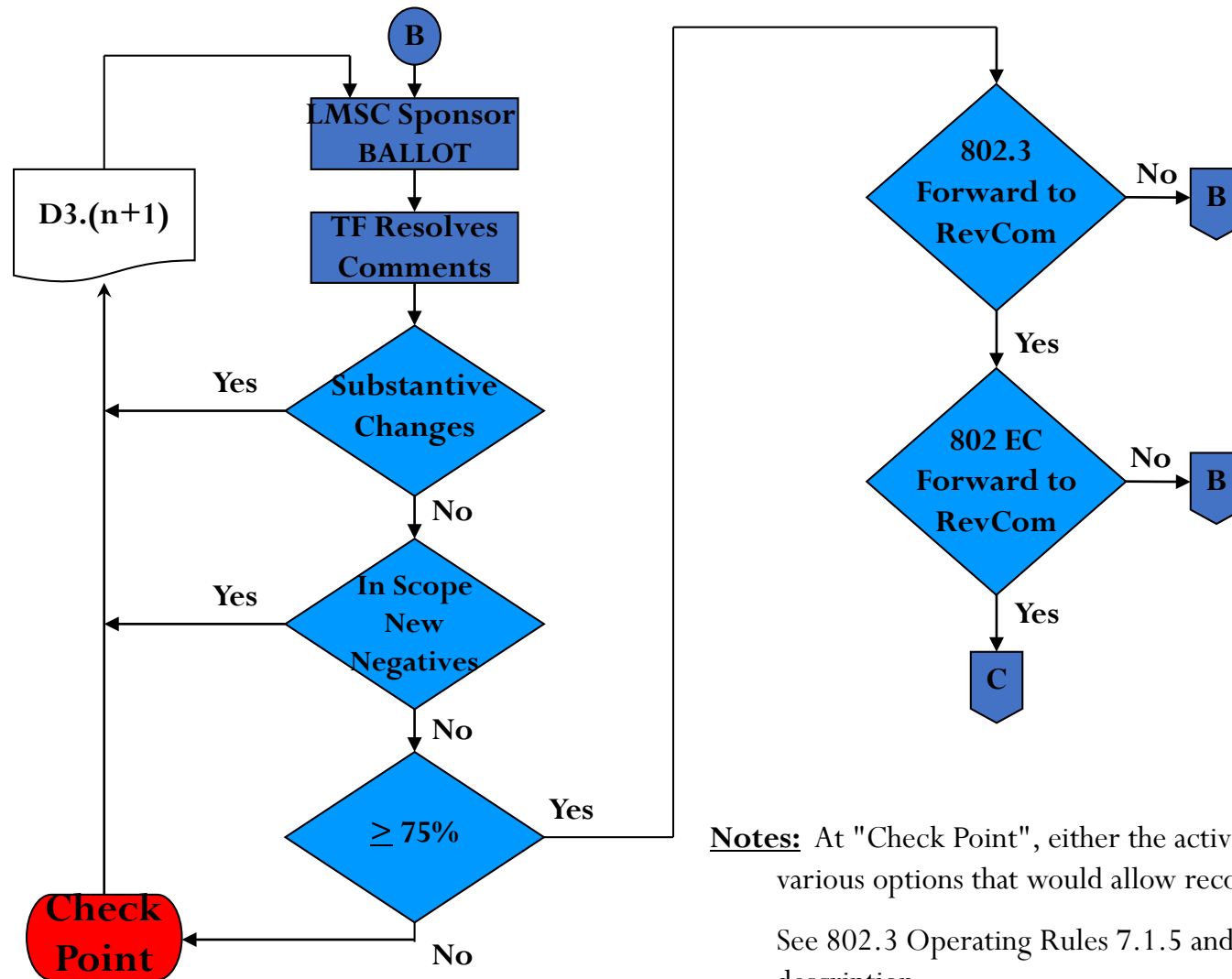
# Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



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

See 802.3 Operating Rules 7.1.4 and listed references for complete description

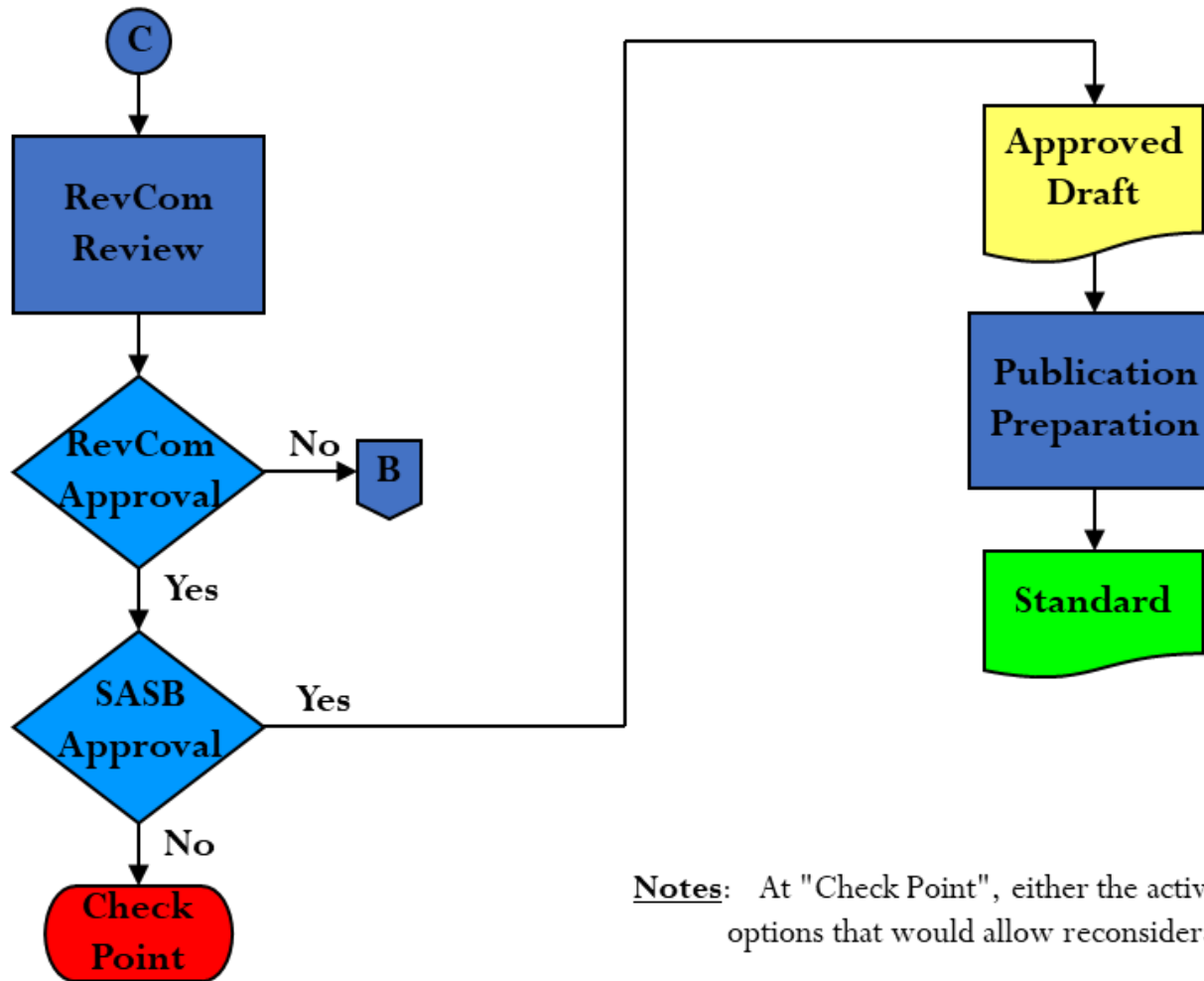
# Overview of IEEE 802.3 Standards Process (4/5)- Sponsor Ballot Phase



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

See 802.3 Operating Rules 7.1.5 and listed references for complete description

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



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



# Goals for the Week

- Joint Meeting with P802.3ct Task Force
  - Consider comments submitted against D1.0
  - Hear 7 (.3ct) technical presentations / baseline proposals
- P802.3cn Task Force Meeting – Tues 1pm to 2pm
  - Motions & Closing Business
  - Approve Generation of D2.0
  - Request to 802.3 to proceed to WG Ballot
- P802.3ct Task Force Meeting – Tues 2pm to 6pm
  - Additional time for .3ct presentations / strawpolls
  - Motions & Closing Business

# Liaisons and Communications

- None at this time.

# Ad hoc Report

- IEEE P802.3cn

- Feb 7, 2019 (Note – this ad hoc call addressed topic matter related to IEEE P802.3ct prior to the approval of the P802.3ct PAR):

[http://www.ieee802.org/3/cn/public/adhoc/19\\_0207/index.html](http://www.ieee802.org/3/cn/public/adhoc/19_0207/index.html)

- Addressed test metrics/methods coherent Tx, Update on 100G Extender

- IEEE P802.3ct

- Feb 14, 2019: [http://www.ieee802.org/3/ct/public/adhoc/19\\_0214/index.html](http://www.ieee802.org/3/ct/public/adhoc/19_0214/index.html)

- Addressed Inverse RS-FEC Baseline Proposal

- Feb 21, 2019: [http://www.ieee802.org/3/ct/public/adhoc/19\\_0221/index.html](http://www.ieee802.org/3/ct/public/adhoc/19_0221/index.html)

- Review of Industry Standards WDM channel maps and recommendation to IEEE, 400GBASE-ZR Optical Specs

# Schedule - Joint Task Force

<u>Monday</u>	<u>11-Mar-19</u>	<u>All</u>			
Time	Presenter	Affiliation	Title	File Name	Duration
1:00 PM	John D'Ambrosia	Futurewei, Subsidiary of Huawei	Agenda and General Information	Joint Task Force Mtg (agenda_3cn_01_0319 or agenda_3ct_01_0319)	0:30
1:30 PM	Pete Anslow	Ciena	P802.3cn Chief Editor's Report	anslow_3cn_01_0319	0:10
1:40 PM	Pete Anslow	Ciena	P802.3cn Consideration of comments submitted against D1.0		0:15
1:55 PM	Pete Anslow	Ciena	P802.3ct Editors' Report	anslow_3ct_01_0319	0:10
2:05 PM	Gary Nicholl	Cisco	Inverse RS-FEC Baseline Proposal	nicholl_3ct_01_0319	0:30
2:35 PM	Ilya Lyubomirsky	InPhy	Toward Baseline for 400GBASE-ZR Optical Specs	lyubomirsky_3ct_01_0319	0:30
3:00 PM	Break				0:30
3:30 PM	Peter Stassar	Huawei	Baseline considerations for 100G and 400G DWDM	stassar_3ct_01_0319	0:45
4:15 PM	John DeAndrea	Finisar	Updated Review of Industry Standard Channel Maps	deandrea_3ct_01_0319	0:30
4:45 PM	John DeAndrea	Finisar	Channel Compliant Bandwidth Mask Considerations for 100 GHz spaced 100G and 400G links	deandrea_3ct_02_0319	0:30
5:15 PM	Discussion / Strawpolls				
5:30 PM	Break				0:30

<u>Tuesday</u>	<u>12-Mar-19</u>	<u>All</u>			
Time	Presenter	Affiliation	Title	File Name	Duration
9:00 AM	John D'Ambrosia		Opening Comments		0:10
9:10 AM	Matt Schmitt	CableLabs	Optical Power and OSNR Comparison and Proposal for 100G Objective	schmitt_3ct_01_0319	0:30
9:40 AM	Pete Anslow	Ciena	EVMRMS Measurement Update	anslow_3ct_02_0319	0:30
10:00 AM	Lunch				0:20
10:20 AM	Discussion, Strawpolls				0:45
12:00 PM	Break				0:20

6:00 PM	Adjourn				0:20
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# Schedule IEEE P802.3ct Task Force Meeting

Tuesday

12-Mar-19

P802.3ct

Time	Presenter	Affiliation	Title	File Name
2:00 PM	David Law	HPE	Confirmation of TF Chair	
2:10 PM	John D'Ambrosia	Futurewei, Subsidiary of Huawei	Agenda and General Information	agenda_3ct_01_0319
2:25 PM	Discussion / Strawpolls			
3:00 PM	Break			
3:20 PM	Motions			
5:30 PM	Closing Business			
6:00 PM	Adjourn			

# Future Meetings

See: <http://www.ieee802.org/3/interims/index.html>  
for meeting details and additional meetings.

- **May 2019**
  - Week of May 20<sup>th</sup>
  - Sheraton Salt Lake City
  - Salt Lake City, UT, USA
- **July 2019**
  - Week of July 15<sup>th</sup>
  - Austria Congress Centre
  - Vienna, Austria
- **Sept 2019**
  - Week of Sept 9<sup>th</sup>
  - Location / Venue TBD
  - Indianapolis, IN, USA
- **Nov 2019**
  - Week of Nov 11<sup>th</sup>
  - Hilton Waikoloa Village
  - Waikoloa Village, HI, USA

# Thank You!