

Meeting Reminders:

1. Participation in the 11-12 November IEEE 802.3 200GMMF Study Group Plenary meeting (face-to-face or remote) **requires** registration and payment of registration fee. This meeting does count towards IEEE 802.3 Working Group voting membership.
 - a) If you are not eligible to sign in to IMAT to claim attendance credit
 - b) For example - you are not going to attend for 75% of the meeting and have not provided your name and affiliation through Webex
 - c) Please send an email to Mabud Choudhury mabudchoudhury@gmail.com and Guangcan Mimiguangcan@huawei.com to be recorded in the minutes as an attendee
2. When Entering Webex Session
 - Please make sure you have your full name and affiliation (in English Characters) noted in the Participants List when entering the meeting
 - To Change
 - Right click on name in participants list
 - Click on Rename
 - Pop up window shows – enter info there
 - Hit Change
 - Failure to do so will result in you being expelled from call in accordance with 802.3 Rules

Agenda and General Information

**IEEE 802.3 200 Gb/s per Wavelength MMF PHYs Study
Group Electronic Plenary Meeting**

Bangkok, Thailand, 11-12 November 2025

Mabud Choudhury, Lightera

Chair, IEEE 802.3 200 Gb/s per Wavelength MMF PHYs Study Group

Agenda

- Approve Agenda
- Approval of 17 September Interim meeting minutes (See Next Page)
- Decorum (General / In-Person / Teleconference)
- Goals For the Meeting
- Big Ticket Item For the Meeting
- IEEE Structure
- Study Group Information
- Study Group Chartering Motion
- Ground Rules / Important Bylaws, Rules, and References
- Voting & Attendance
- Review IEEE SA Policies (<http://ieee802.org/3/policies.html> / included) *
- Presentations
 - [200 Gb/s over 30 m OM4 Objective: BER Floor Optimization and Baseline Link Update](#) – Bernier
 - [200G 850nm VCSEL measurement updates](#) – Rodes
 - [TDECQ with DFE tap in multimode links](#) – Murty
 - [Extending Optical ILT for 200G MMF PMDs](#) – Ghiasi
 - [Review TR 42.12 - Optical Fiber Systems update from TIA TR-42 to IEEE 802.3 liaison report](#) - Choudhury
 - Comments against project documentation
- Resolve comments against the project documentation
- Discussion / Straw polls / Motions (straw polls and motions may occur through out the meeting)
- Closing Business
- Future Meetings

* Note – additional slides covering Overview of IEEE 802.3 Standards Process are in Backup

Approval of Minutes

- **17 September 2025 Electronic Interim meeting minutes:**
[unapproved_meeting_minutes_200gmmf_01_2509](#)

General Decorum

- An officer of the Working Group or one of its subgroups, unless prohibited by the P & P of the Standards Committee or Working Group, is permitted to record the proceedings of an IEEE standards development meeting for which they are responsible by making an audio or slideshow recording or by producing a transcript using software or an artificial intelligence (AI) application approved by IEEE. 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. Software or AI shall not be used if it enables persons other than the officer making the recording or authorized Standards Department staff to initiate or obtain the transcription or recording. (March 2025 IEEE-SA Standards Board Operations Manual 5.3.3.2)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (March 2025 IEEE-SA Standards Board Operations Manual 5.3.3.3)

In-Person Decorum



- 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 sign into the teleconference without audio and video
- Please line up at the floor mic(s) to join the queue
- Please don't speak from your seat—you won't be heard on the teleconference
- Please observe proper decorum in meetings—no sidebar conversations

Teleconference Decorum



- Please MUTE unless called on
- **Please do not turn video on**
 - The chat window is used to be placed into the queue.
 - The chat can only send to “Everyone” or the officers
 - **Please observe proper decorum in meetings**

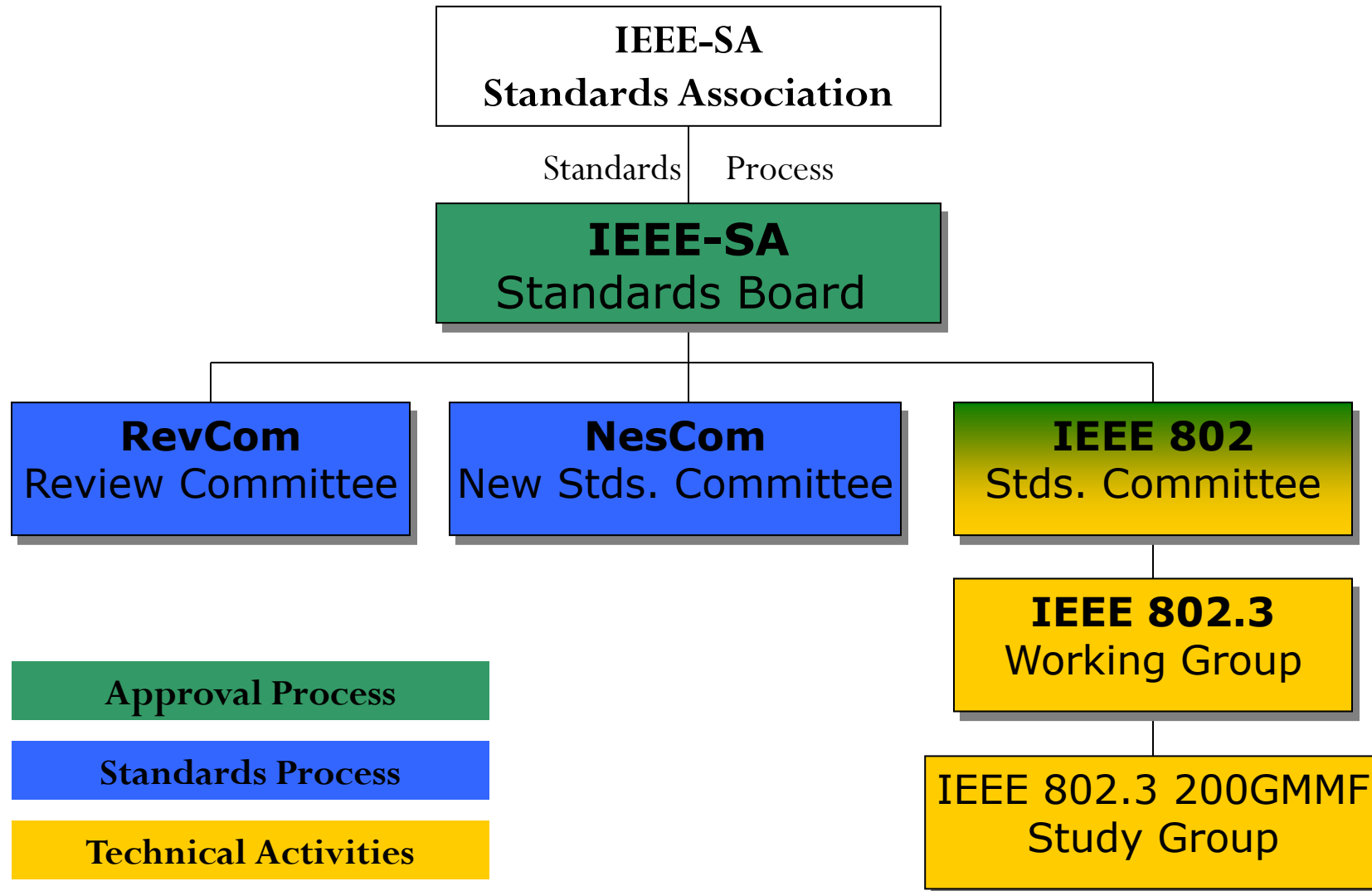
Goals for the Session

- **Request SG Rechartering**
- **Consider comments submitted against Project Documentation - Wednesday AM1/AM2.**
- **Review and discuss technical contributions that preview and lay foundation towards baseline (TF activity, pending TF approval) – Tuesday AM1/AM2.**

Big ticket item

- **Get IEEE P802.3ds Project Documentation Approved!**

IEEE Structure



IEEE 802.3 200 Gb/s per Wavelength MMF PHYs Study Group Project information

■ Organization

- Mabud Choudhury, IEEE 802.3 200 Gb/s per Wavelength MMF PHYs Study Group Chair
- Guangcan Mi, IEEE 802.3 200 Gb/s per Wavelength MMF PHYs Study Group Secretary

▪ Study Group web and reflector information:

- Home page: <https://www.ieee802.org/3/200GMMF/index.html>
- Reflector Info - <https://www.ieee802.org/3/200GMMF/reflector.html>

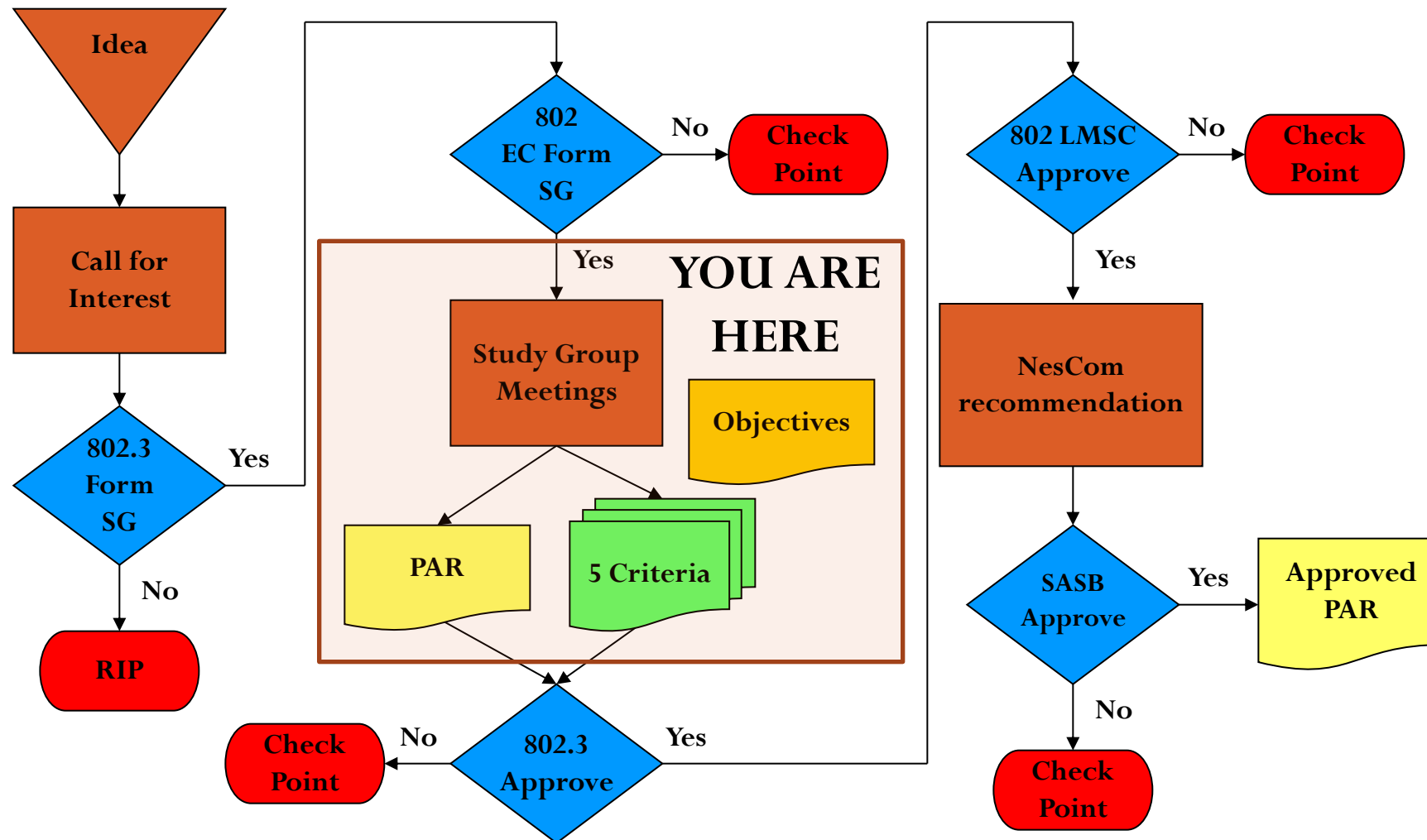
▪ Project Documentation –

- Draft PAR:
 - <https://mentor.ieee.org/802-ec/dcn/25/ec-25-0216-00-LMSC-draft-ieee-p802-3ds-par.pdf>
- Draft CSD:
 - <https://mentor.ieee.org/802-ec/dcn/25/ec-25-0217-00-LMSC-draft-ieee-p802-3ds-csd.pdf>
- Draft Objectives:
 - https://ieee802.org/3/200GMMF/objectives_200gmmf_01_250917.pdf

▪ Study Group meeting information may be found on:

- 802.3 Calendar: <https://www.ieee802.org/3/calendar.html>

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.

The Study Group

- **Normal function is to draft a complete PAR and Five Criteria**
- **Provide a plenary week tutorial to the LMSC.**
- **Gain approval at the IEEE 802.3 WG, IEEE 802 LMSC, IEEE-SA NesCom and IEEE-SA Standards Board.**
- **SG only exists for 6 months**
 - **Extensions can be requested**
 - **Voted on by IEEE 802.3**
 - **Ratified by IEEE 802 LMSC**
- **Development of Objectives helps set the goals for the Task Force**
- **Consensus required to move forward**

- **Not a goal – choosing a solution.**

Study Group Chartering Motion

- **Move that the IEEE 802.3 Working Group request the formation of a Study Group to explore the potential market requirements and feasibility of addressing AI/Data Center networks, and to develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for 200 Gb/s per wavelength MMF optical PHYs**
- By rule (>50%)
- Y: 102 N: 1 A: 4
- WG Motion Passed 31-Jul 2025, 17:43 CET

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 on straw polls, but we have to follow 802.3 Voting rules**
- **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**

Important Bylaws, Rules, and References

- **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
- **“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>

IEEE SA POLICIES

Guidelines for IEEE SA 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. Formally object to the discussion immediately.

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>

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

Instructions for Chairs of standards development activities

- **At the beginning of each standards development meeting the chair or a designee is to:**
 - Show the following slides (or provide them beforehand)
 - Advise the standards development group participants that:
 - IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
 - Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy;
 - Instruct the Secretary to record in the minutes of the relevant meeting:
 - That the foregoing information was provided and that the copyright slides were shown (or provided beforehand).

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>
- IEEE SA Best Practices for IEEE Standards Development
 - http://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/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 behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct

- 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*” shall act independently of others, including employers

- The [IEEE-SA Standards Board Bylaws](#) 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 [IEEE-SA Standards Board Bylaws](#) (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

Voting

- Reference: Section 4.4.1, IEEE 802.3 Operations Manual

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

Any person attending a Study Group meeting may participate in SG discussions, make motions and vote on all motions (including recommending approval of a PAR and five criteria) if the person feels qualified to do so.

Note – Chair reserves the right to take informative straw polls by 802.3 WG voting membership

- IEEE 802.3 Requirements for Working Group voting membership –
<https://www.ieee802.org/3/rules/member.html>

Membership and attendance recording

Membership requirements (gaining and retaining)

- Membership requirements (gaining)
 - Attendance in at least 75% of meeting slots at 2 of the last 4 plenary sessions
 - Attendance in at least 75% of meeting slots at recent IEEE 802.3 Ethernet Working Group or Task Group Interim Session may be substituted for one of the two Plenary Sessions
 - Attendance **in at least 75% of the meeting slot's duration** is required for that attendance to count towards gaining or maintaining voting membership
 - **You can only** claim IMAT attendance credit if you attend at least 75% of slot's duration
 - Note – Claiming IMAT attendance credit if you have not attended at least 75% of a slot's duration is not in accordance with IEEE Policies and Procedures, and is a violation of the IEEE Code of Conduct
 - Officers may remove IMAT attendance credit if you attend less than 75% of slot's duration
 - Provide declaration of affiliation and valid contact information
 - Request to become member during potential voter agenda item at an IEEE 802.3 Ethernet Working Group opening or closing **plenary** meeting
- Membership requirements (retaining)
 - Continue to meet above attendance, contact, and affiliation requirements
 - Participate in **two** out of the last **three** Working Group Letter Ballot Series
- For more details see: <https://www.ieee802.org/3/rules/member.html>
- Note - If you are not eligible to sign in to IMAT to claim attendance credit, for example, you are not going to attend for 75% of the meeting and have not provided your name and affiliation through [Zoom|WebEx], please send an email to Mabud Choudhury / Guangcan Mi to be recorded in the minutes.
- Note – Study Group/Task Force Meeting attendance records can not be used as evidence to request IMAT attendance credit for a slot.

Attendance

- **For November Plenary Meetings – Registration Fees Mandatory**
 - **Leadership will use IMAT as part of determining meeting attendance.**
 - If you are not eligible to sign in to IMAT to claim attendance credit
 - For example - you are not going to attend for 75% of the meeting and have not provided your name and affiliation through WebEx,
 - Please send an email to Mabud Choudhury mabudchoudhury@gmail.com and Guangcan Mimiguangcan@huawei.com to be recorded in the minutes as an attendee.
 - **IMAT –**
 - **Tutorial – https://www.ieee802.org/3/minutes/sep24/0924_imat.pdf**
 - **Access details**
 - **URL: <http://imat.ieee.org/>**
- **Please be sure to sign-in with your name / affiliation information**
- **Webex attendance will be used to identify remote attendance as well.**

Presentations & Meeting Map

- Tuesday, 11 November, AM1/AM2
 - [200 Gb/s over 30 m OM4 Objective: BER Floor Optimization and Baseline Link Update](#) – Bernier
 - [200G 850nm VCSEL measurement updates](#) – Rodes
 - [TDECQ with DFE tap in multimode links](#) – Murty
 - [Extending Optical ILT for 200G MMF PMDs](#) – Ghiasi
 - [Review TR 42.12 - Optical Fiber Systems update from TIA TR-42 to IEEE 802.3 liaison report](#) - Choudhury

- Wednesday, 12 November, AM1/AM2
 - Resolve comments against project documentation

Future Meetings

IEEE 200GMMF Study Group

- IEEE 802.3 December 2025 Electronic Ad Hoc (if needed)
 - Wednesday, 17 December 2025, 10 AM – 1 PM EST (UTC -5)
 - <https://www.ieee802.org/3/calendar.html>
 - No registration or registration fee required

Future Meetings

IEEE 802.3: <https://www.ieee802.org/3/interims/index.html>

IEEE 200GMMF Study Group/P802.3ds TF (if approved)

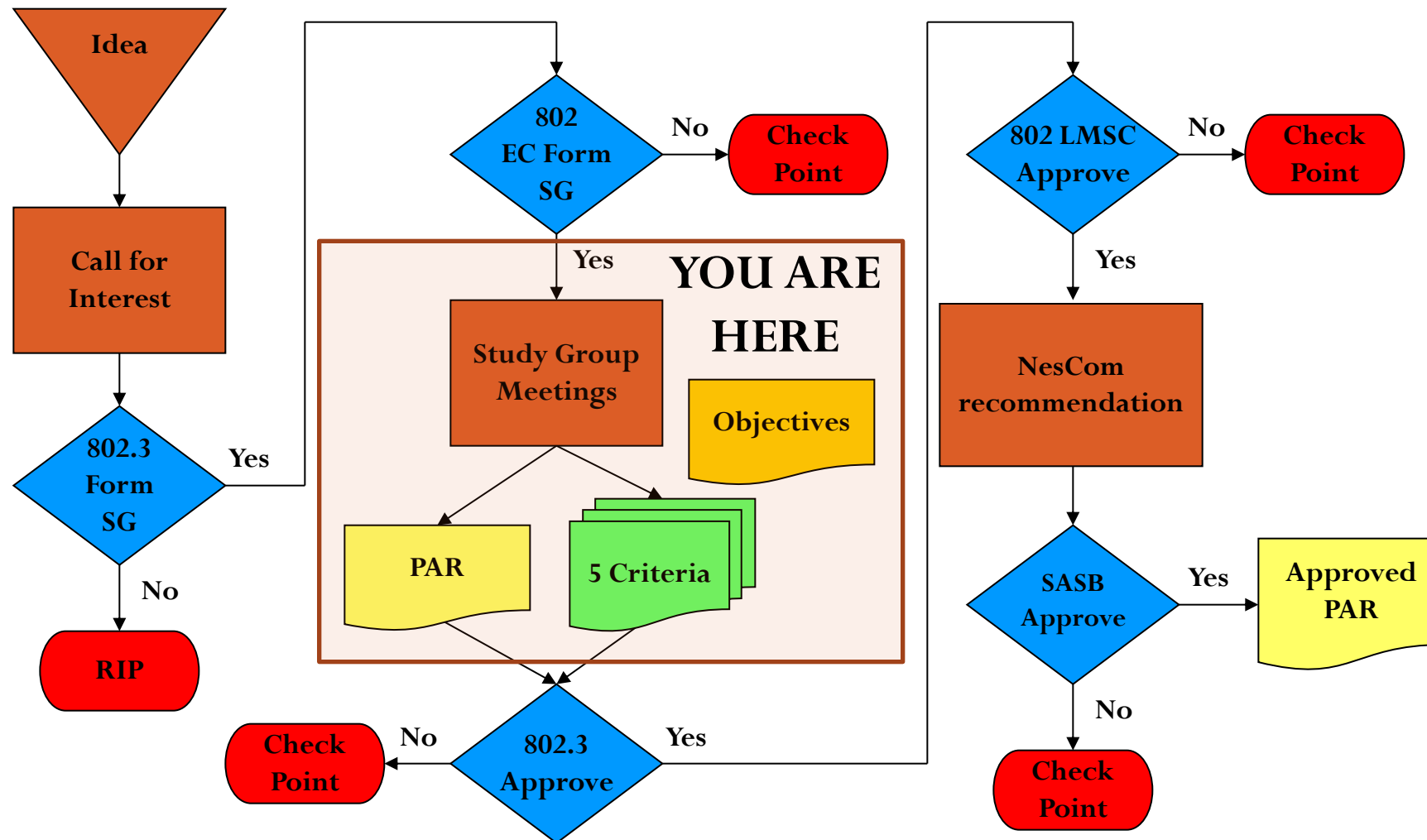
- **IEEE 802 Jan 2026 Interim**
 - **Week of Jan 19**
 - **Austin, Tx, USA**
- **IEEE 802 Mar 2026 Plenary**
 - **Week of Mar 9-13**
 - **Vancouver, BC, Canada**
- **IEEE 802.3 May 2026 Interim**
 - **Week of May 11-15**
 - **Munich Germany**
- **IEEE 802 July 2026 Plenary**
 - **Week of July 13 – 17**
 - **Montreal, Quebec, Canada**

THANK YOU!



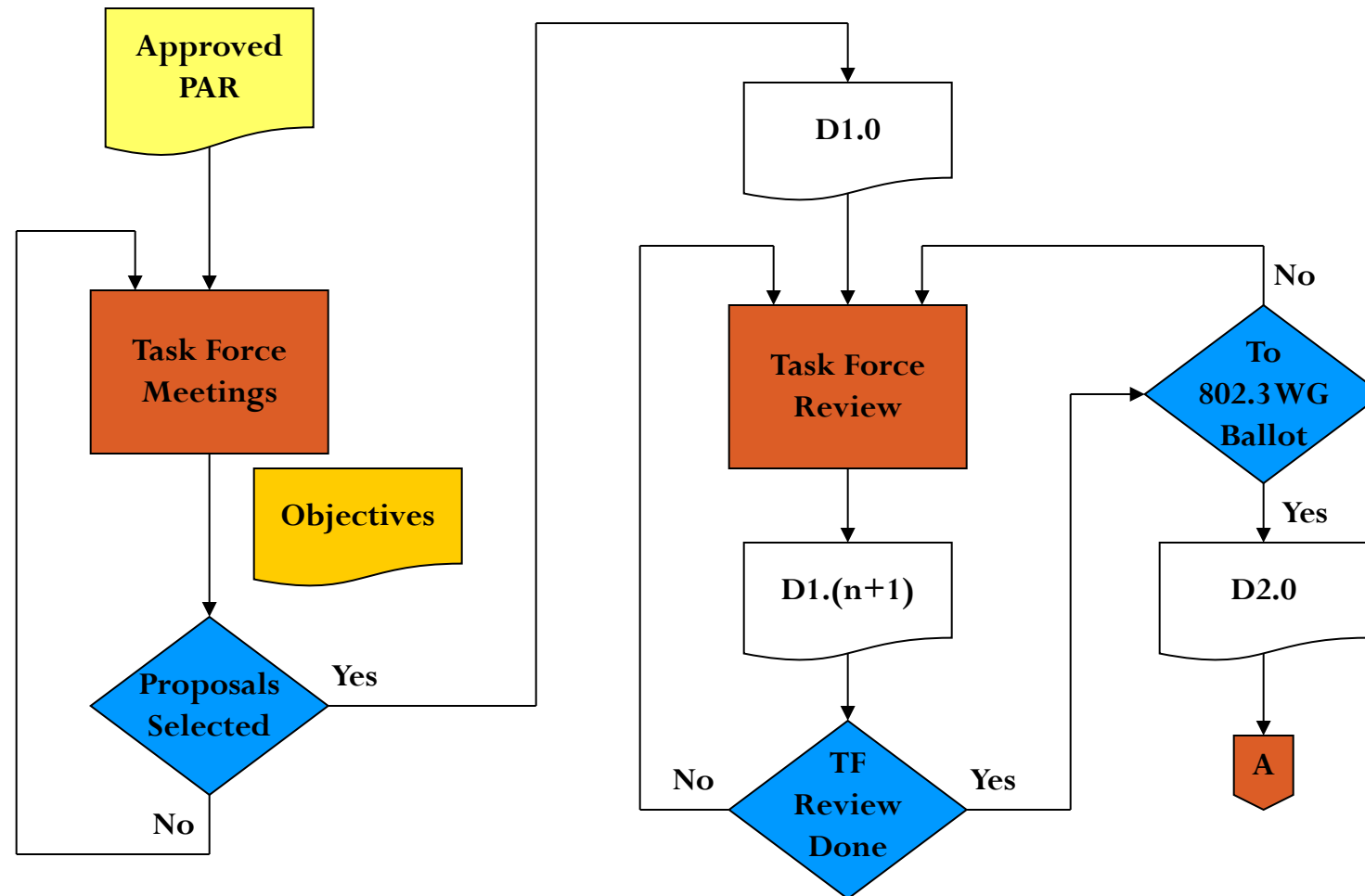
OVERVIEW OF IEEE 802.3 STANDARDS PROCESS

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

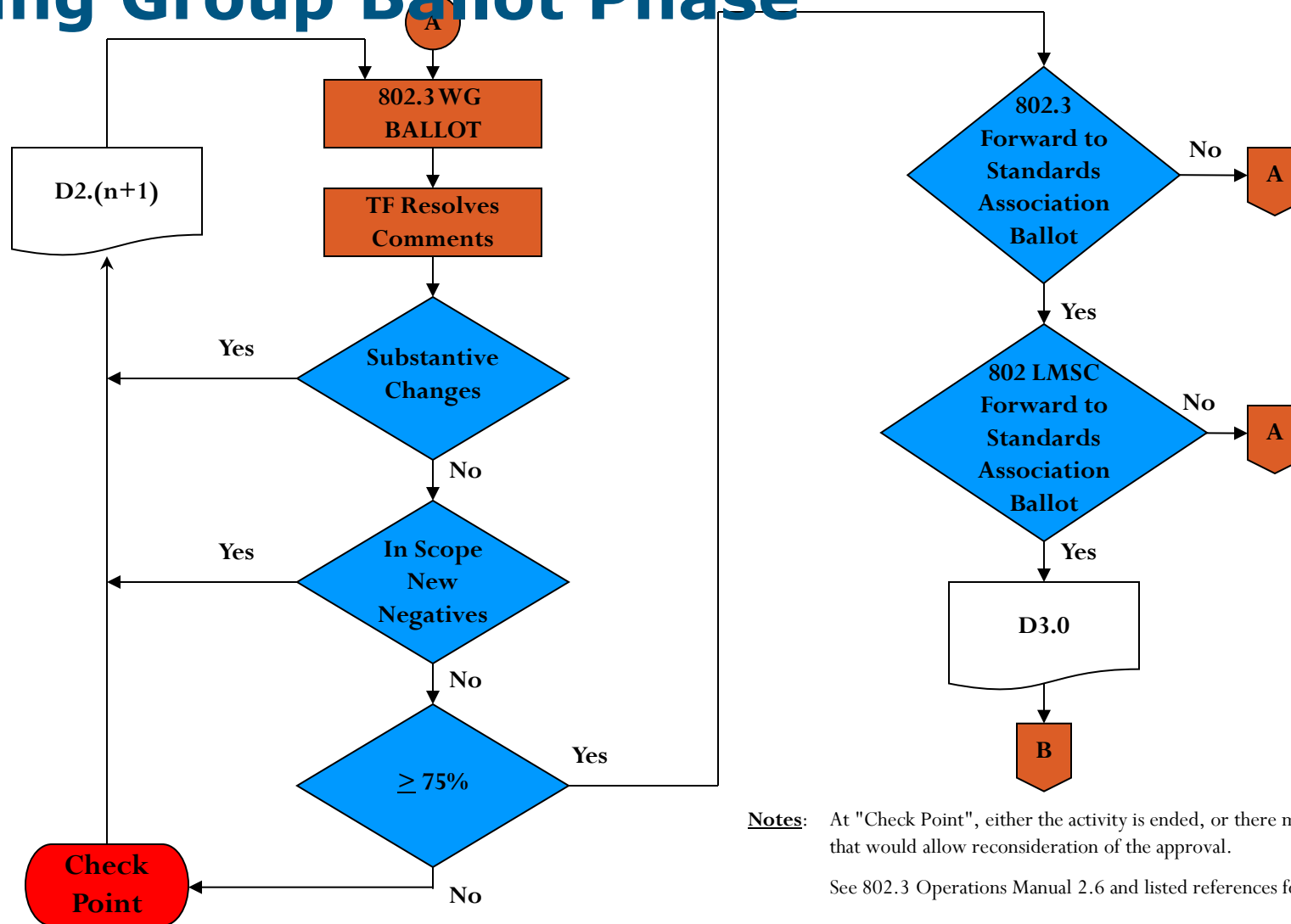


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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



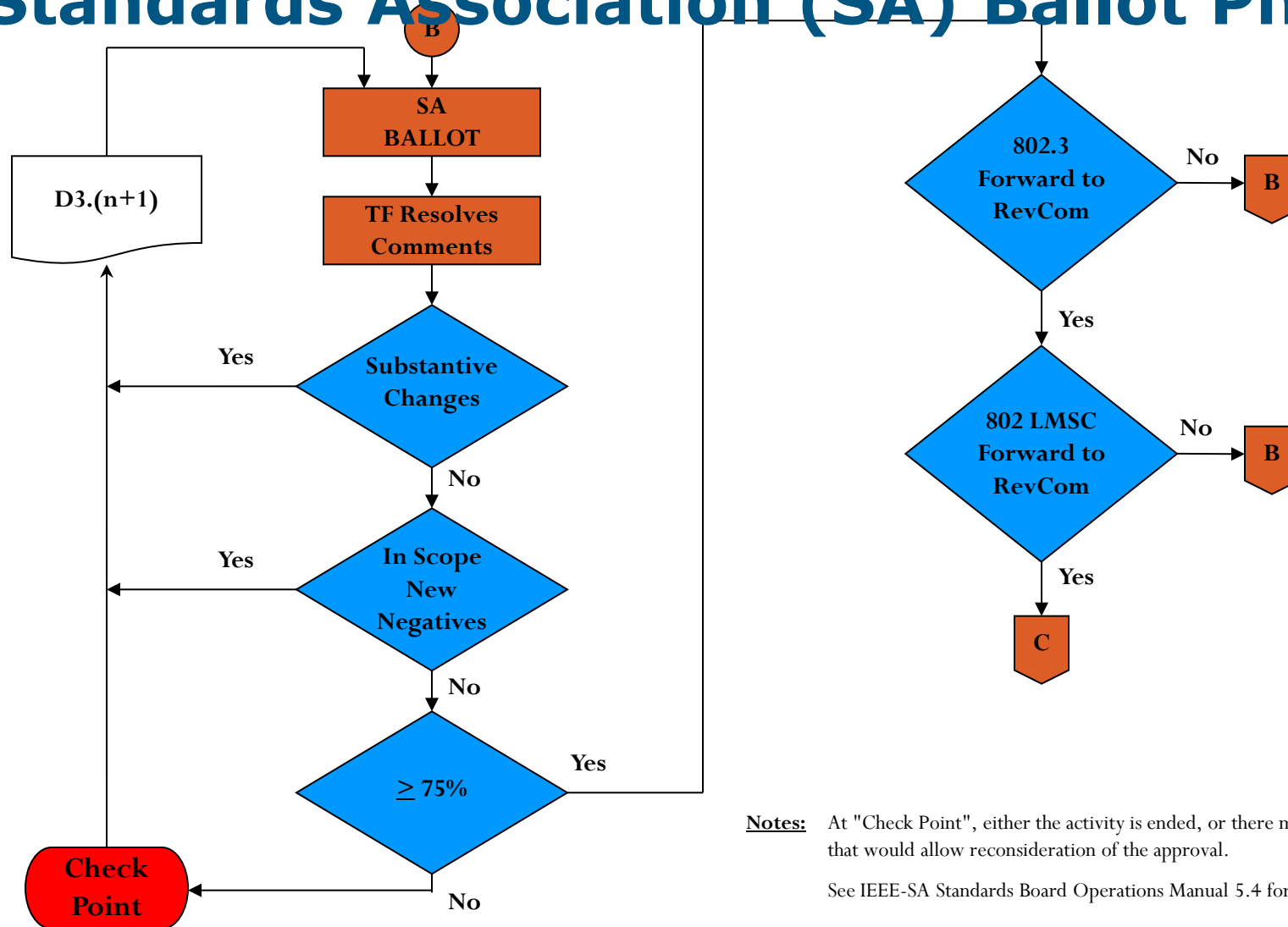
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



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 Operations Manual 2.6 and listed references for complete description

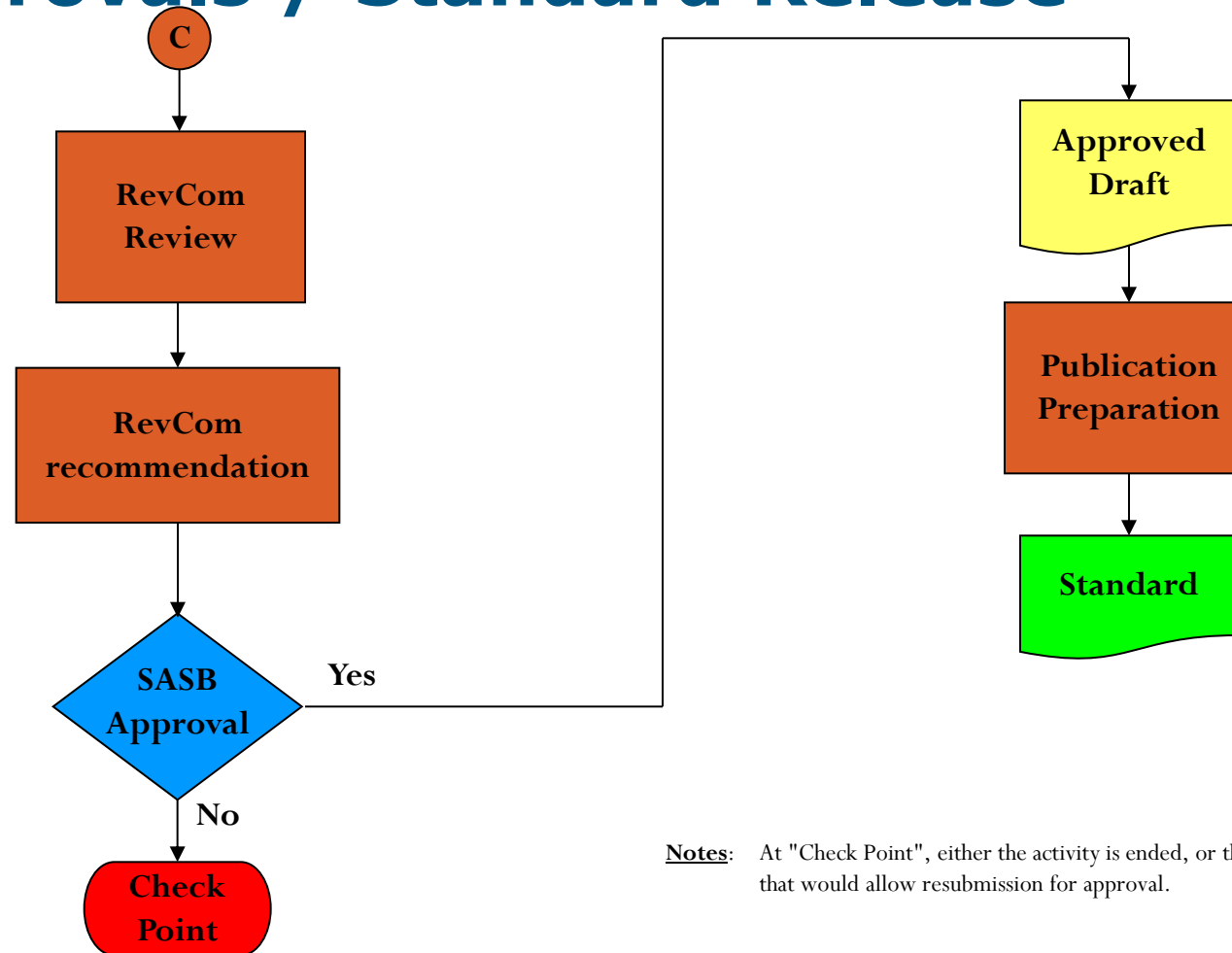
Overview of IEEE 802.3 Standards Process (4/5)- IEEE Standards Association (SA) Ballot Phase



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

See IEEE-SA Standards Board Operations Manual 5.4 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 resubmission for approval.