

Agenda and General Information

IEEE P802.3cx Improved PTP Timestamping Accuracy
Task Force Interim

Steve Gorshe

Microchip Technology

Bangkok / Hybrid Meeting, November 15, 2022

IEEE 802 Hybrid Meeting Practices

- In-room Attendees:
 - In Webex choose connect without audio before you join
 - Use the Webex queue to indicate you want to speak
 - Wait to be called on before speaking (even at the microphone)
 - Repeat any questions that may be asked away from the microphone
- Remote Attendees:
 - Join Webex and set Webex audio as ‘music’
 - Use the Webex chat window to indicate you want to speak (“q”)
 - Wait to be called on to speak – Please MUTE otherwise

Agenda

- Welcome and Introductions
- Approve Agenda
- Approve **September 13, 2022** Minutes
- Goals for this meeting
- Big Ticket Items
- Reflector and Web
- Ground Rules
- IEEE
 - Structure, Bylaws and Rules
 - Call for Patents
 - IEEE Standards Process
- Liaisons and Communications
- Review of Action Items from <<**meeting date**>> Meeting
- Comment resolution
- Presentations
- Motions and Closing Business
- Future Meetings

General 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. (January 2022 IEEE-SA Standards Board Ops Manual 5.3.3.2)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (January 2022 IEEE-SA Standards Board Ops 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
- Use the “**Raise Hand**” function to be placed into the queue
 - Don’t forget to lower your hand once recognized
- The chat can only send to “Everyone” or the WG officers
- Please observe proper decorum in meetings

IEEE P802.3cx Improving PTP Timestamping Accuracy Task Force Project information

- Task Force Organization
 - Steve Gorshe, IEEE P802.3cx Task Force Chair
 - Silvana Rodrigues, IEEE P802.3cx Task Force Secretary
 - Marek Hajduczenia, IEEE P802.3cx Task Force Chief Editor
- Task force web and reflector information
 - Reflector information: <http://www.ieee802.org/3/cx/reflector.html>
 - Home page: <http://ieee802.org/3/cx/index.html>
 - PAR: <http://www.ieee802.org/3/cx/P802d3cx.pdf>
 - [CSD|5C]: <https://mentor.ieee.org/802-ec/dcn/19/ec-19-0220-01-ACSD-p802-3cx.pdf>
 - Objectives: https://www.ieee802.org/3/cx/P802_3cx_Objectives_revised.pdf
 - Timeline: http://www.ieee802.org/3/cx/P802d3cx_timeline_updated_1-2022.pdf
 - Private Area: <http://www.ieee802.org/3/cx/private/index.html>

Goals for the meeting

- Complete the SA ballot Comment resolution for D3.1
- Approve the start of SA recirculation ballot with D3.2
- Discuss next steps

Big ticket items

- Complete the SA ballot Comment resolution for D3.1
- Approve the start of SA recirculation ballot with D3.2
- Discuss next steps
 - Potential Task Force interim in December to address D3.2 comments
 - Potential request for conditional approval to proceed to RevCom

Reflector and Web

- To subscribe to the Improving PTP Timestamping Accuracy Task Force reflector, send an email to:

ListServ@ieee.org

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

subscribe stds-802-3-ITSA-request@listserv.ieee.org *<yourfirstname>* *<yourlastname>*
end

- Send Improving PTP Timestamping Accuracy Task Force reflector messages to:

stds-802-3-ITSA@listserv.ieee.org

- Task Force web page URL:

<http://www.ieee802.org/3/cx/index.html>

Task Force Private Area

- URL: <http://www.ieee802.org/3/cx/private/index.html>
 - Username: _____
 - 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**

Non-payment of registration fees

Every attendee at any IEEE 802 virtual plenary meeting must register and pay a fee to participate.

If the individual is in arrears:

[1] The individual is not permitted to register for any future IEEE 802 Plenary or IEEE 802 Subgroup Interim (if registration is required).

[2] As a result of [1], the individual is not permitted to attend any portion of a technical meeting that is part of an IEEE 802 plenary session. They are also not permitted to attend any portion of a technical meeting that is part of an IEEE 802 Subgroup Interim if that IEEE 802 Subgroup Interim required registration.

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); 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 WORKING GROUP 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>

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 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>

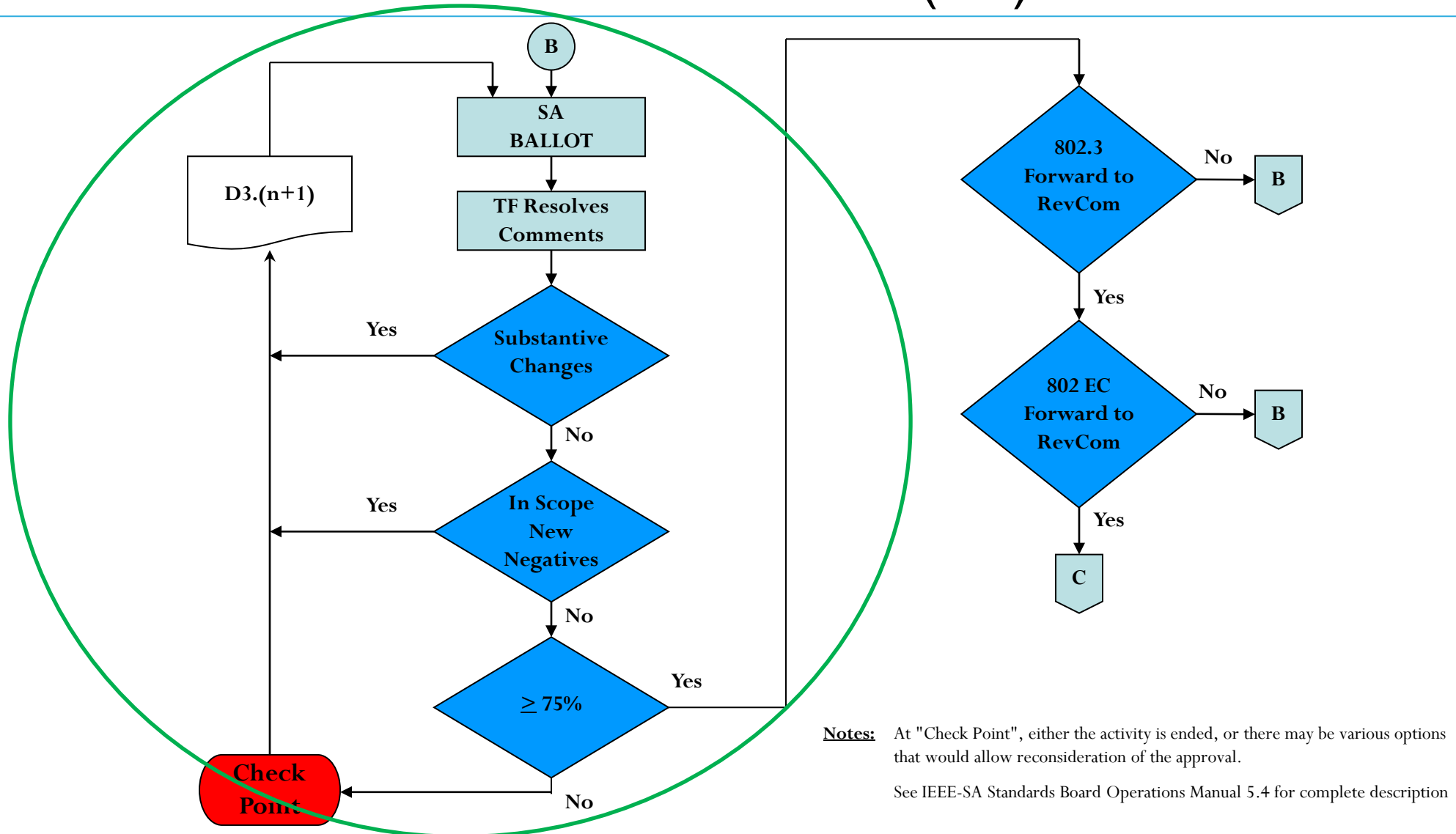
Participants in the IEEE-SA “*individual process*” shall act independently of others, including employers

- 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

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



Liaisons and Communications

- None at this time

Action Items

- None at this meeting

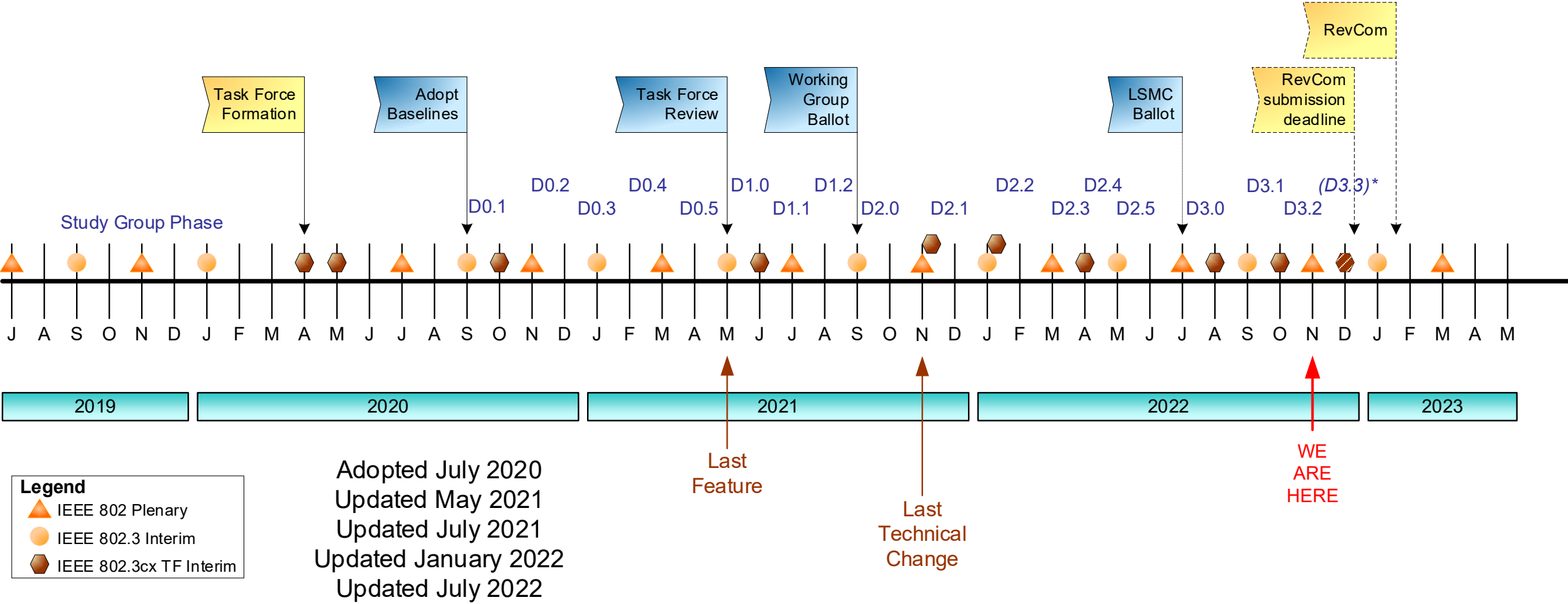
IEEE P802.3cx Improving PTP Timestamping Accuracy Task Force Approved Project Documents

- PAR
 - <http://www.ieee802.org/3/cx/P802d3cx.pdf>
- 5 Criteria
 - <https://mentor.ieee.org/802-ec/dcn/19/ec-19-0220-01-ACSD-p802-3cx.pdf>
- Objectives
 - https://www.ieee802.org/3/cx/P802_3cx_Objectives_revised.pdf

IEEE P802.3cx Improving PTP Timestamping Accuracy Task Force (updated Jan. 2021)

- To amend IEEE 802.3 to:
 - Define optional enhancements to IEEE Std 802.3 Clause 90 (support for time synchronization protocols) to support applications requiring sub-nanosecond performance requirements, e.g., “ITU-T Recommendation G.8273.2 'Class C' and 'Class D' system time error performance requirements.

IEEE P802.3cx Improving PTP Timestamping Accuracy Task Force Timeline



* If a D3.3 recirculation is required

Presentations

Tuesday November 15 (Bangkok), 2022					
Time (Bangkok / Pacific)	Presenter	Affiliation	Title	File Name	Duration
Opening					
11:00 AM / 8:00 PM	Steve Gorshe	Microchip	Agenda and General Information	agenda_3cx_0922	0:10
	Silvana Rodrigues	Huawei	Sept. 13, 2022 P802.3cx TF meeting minutes		0:05
Draft Review and Proposals					
11:15 AM / 8:15 PM	Marek Hajduczenia	Charter	Review of D3.1 comments	802d3cx_D3_1_proposed	2:00
	Andras de Koos	Microchip	Editorial proposal #1	dekoos_3cx_01_1122	
	Andras de Koos	Microchip	Editorial proposal #2	dekoos_3cx_02_1122	
	Alon Regev	Keysight	Discussion on comment R1-2	regev_3cx_01_1122	
Liaisons					
-					0:00
Meeting Wrap-up					
1:15 PM / 10:15 PM	Closing Motions <ul style="list-style-type: none"> To accept the proposed responses to D3.1 in the bucket list To proceed to authorize the Editor to produce new draft D3.2 for the SA recirculation ballot Discussion of whether to request conditional approval for moving to RevCom 				0:30
1:45 PM / 10:45 PM	Adjourn				

Note –Times listed are for **Bangkok and Pacific Time Zones** and subject to change.

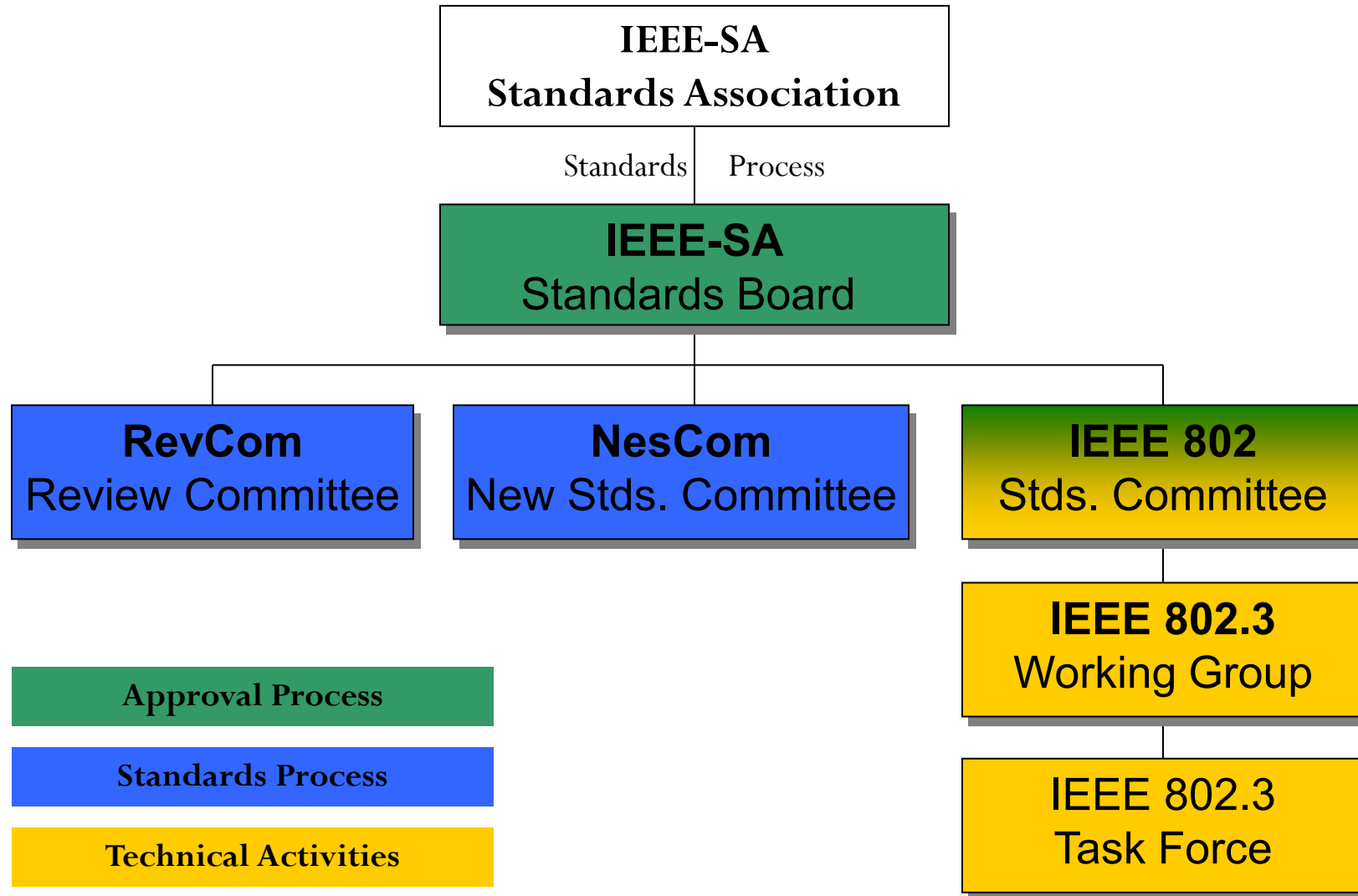
Future Meetings

- See: <http://www.ieee802.org/3/interims/index.html>
- December Task Force Interim to resolve D3.2 comments??
 - Virtual
 - TBD
- January Interim
 - Virtual
 - Week of January 16-19
- March Plenary
 - Hilton
 - Thursday, March 16
- Anyone interested in hosting a interim meeting contact me or the IEEE 802.3 Executive Secretary [Steve Carlson](#).

Thank You!

Backup

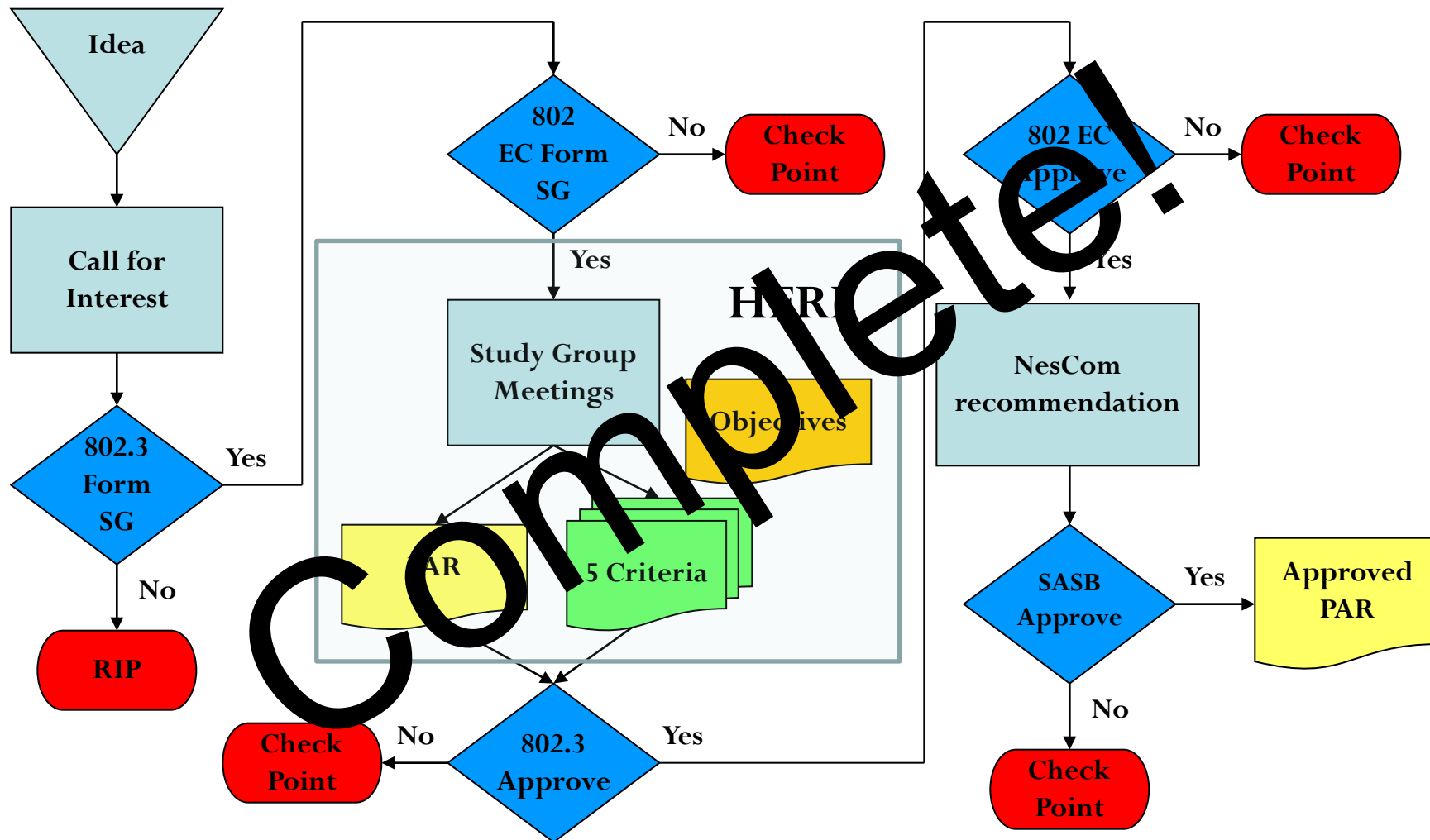
IEEE Structure



Important Bylaws and Rules

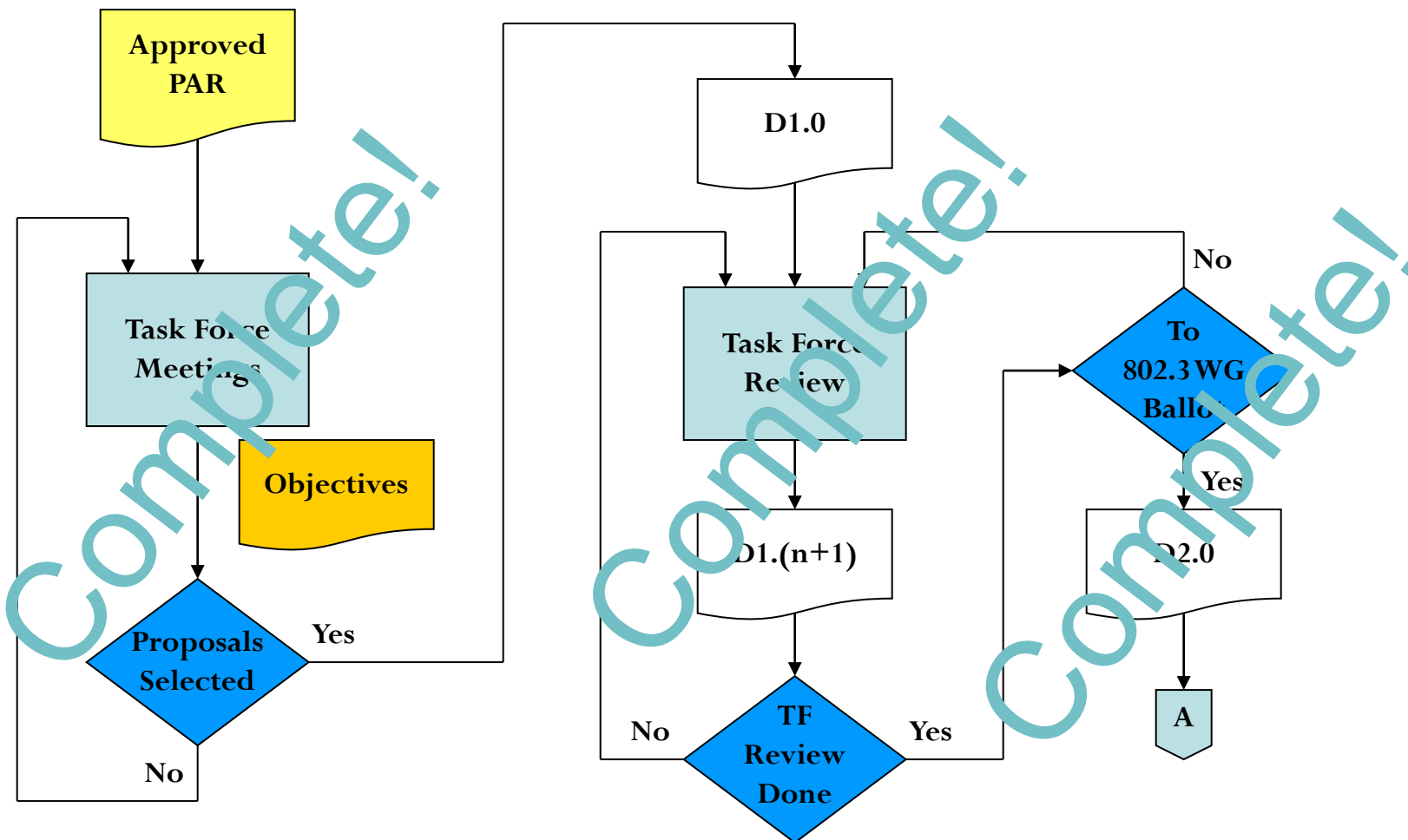
- **IEEE-SA Operations Manual**
http://standards.ieee.org/develop/policies/sa_opman/
- **IEEE-SA Standards Board Bylaws**
<http://standards.ieee.org/develop/policies/bylaws/>
- **IEEE-SA Standards Board Operations Manual**
<http://standards.ieee.org/develop/policies/opman/>
- **IEEE 802 LAN/MAN Standards 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

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

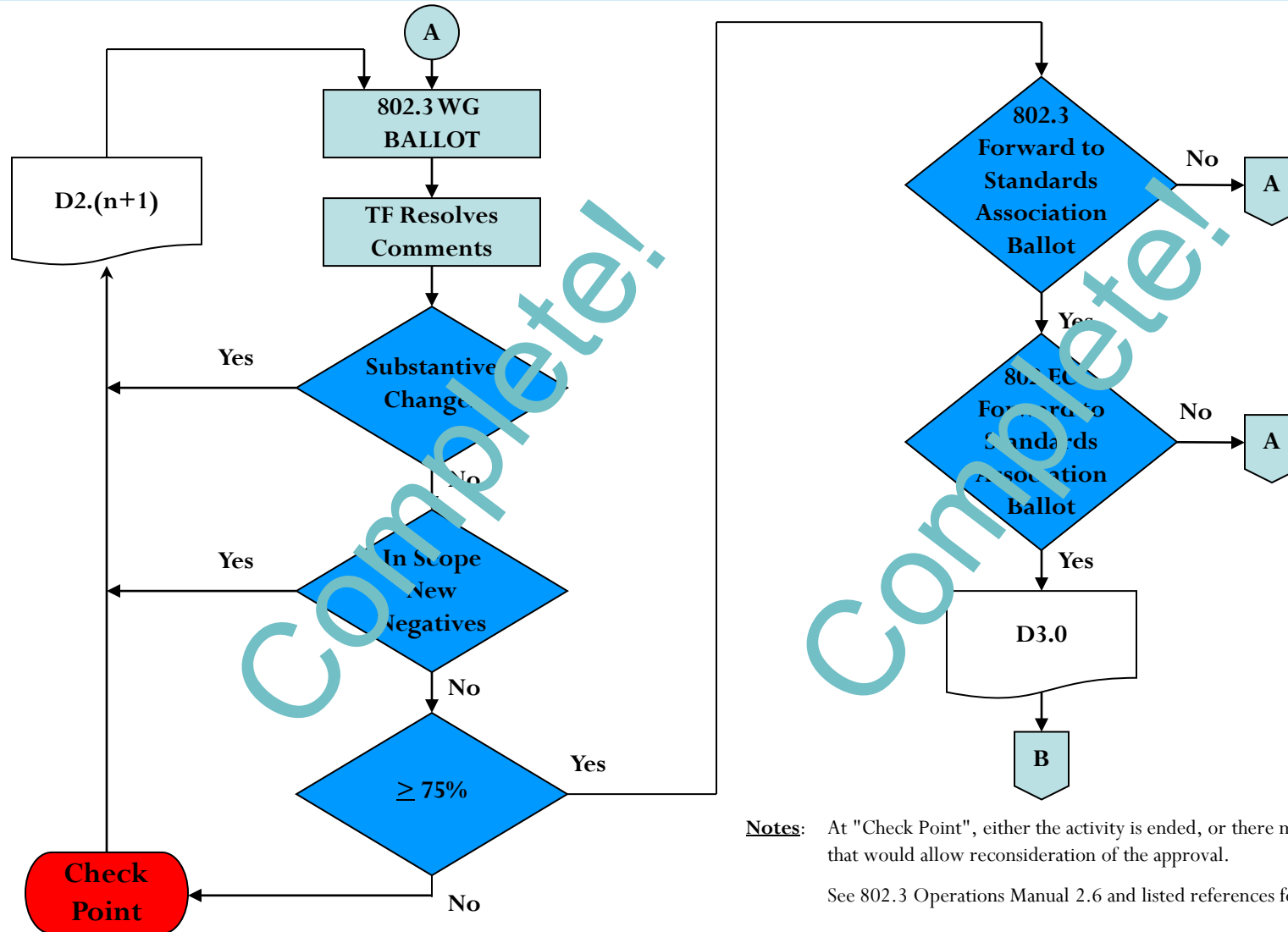


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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



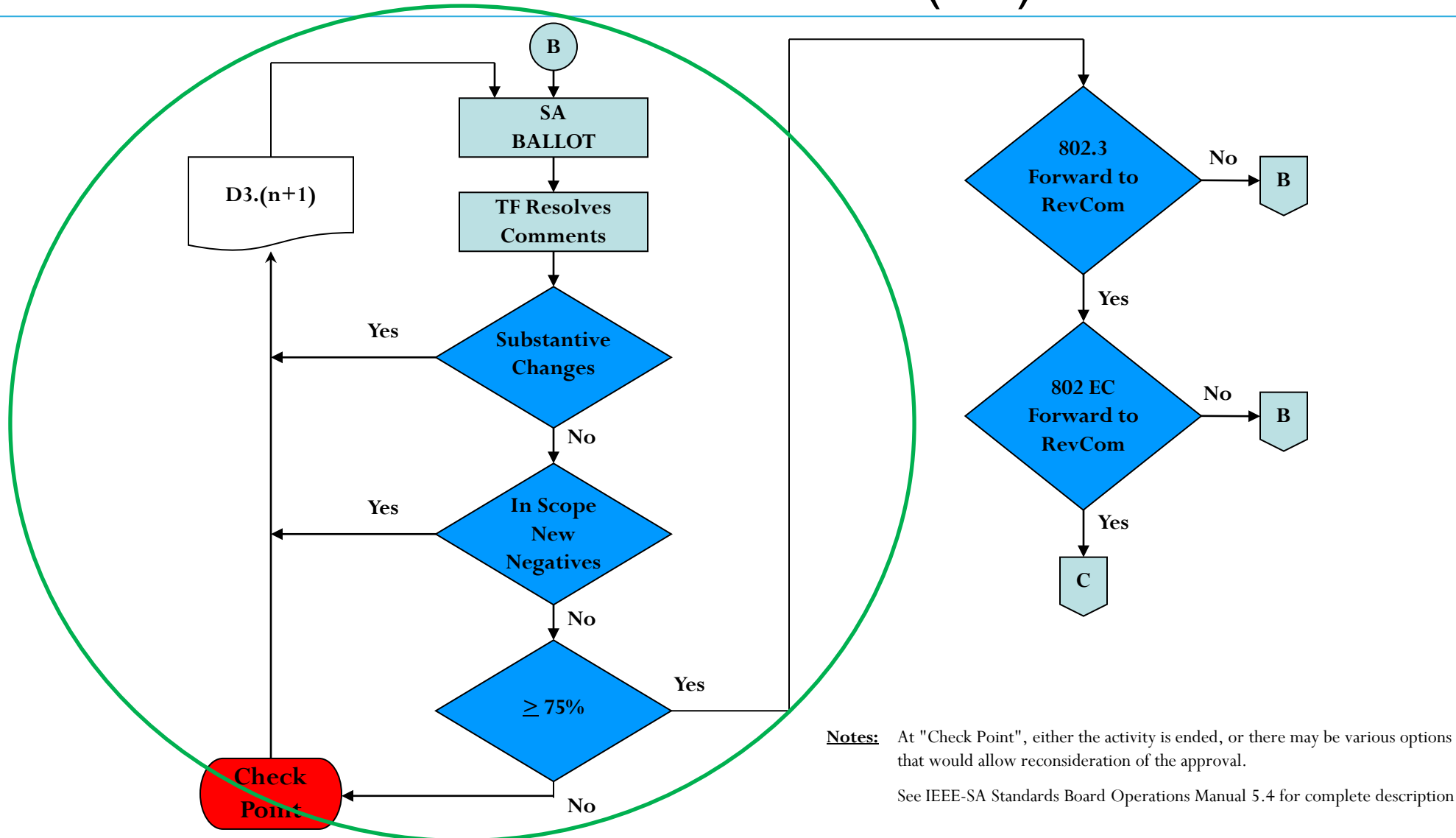
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



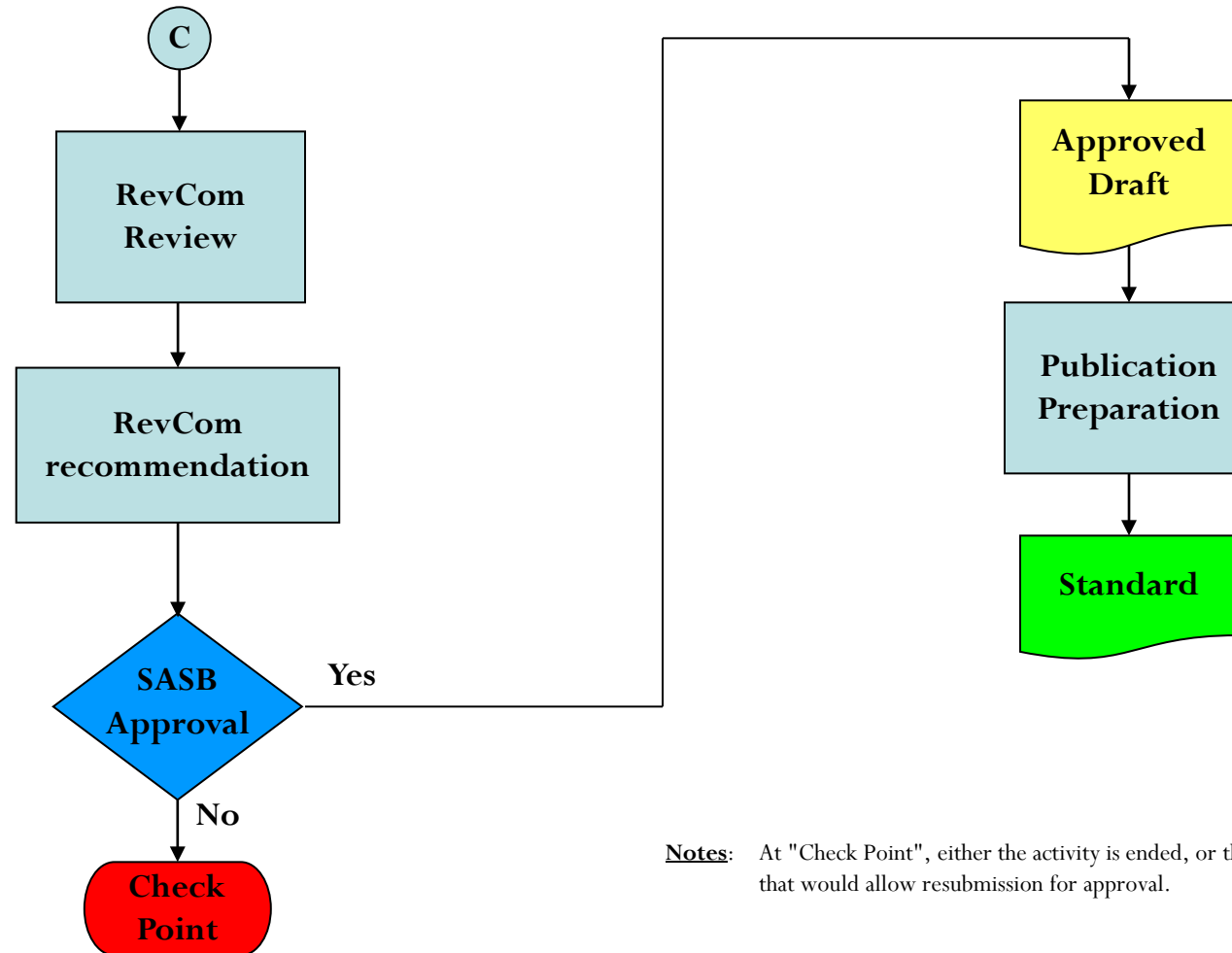
Notes: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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



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.

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.

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).