

Agenda and General Information

IEEE P802.3cx Improved PTP Timestamping Accuracy
Task Force

Steve Gorshe
Microchip Technology
Virtual Meeting, March 10, 2021

Agenda

- Welcome and Introductions
- Approve Agenda
- Approve November 2020 P802.3cx TF 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
- Presentations
- Motions and 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. (January 2019 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 2019 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

IEEE P802.3cx 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>
 - Private Area: <http://www.ieee802.org/3/cx/private/index.html>
 - Approved project documents
 - PAR: http://www.ieee802.org/3/cx/P802d3cx_PAR.pdf
 - [CSD/5C]: <https://mentor.ieee.org/802-ec/dcn/19/ec-19-0220-00-ACSD-p802-3cx.pdf>
 - Objectives: http://www.ieee802.org/3/ITSA/P802_3cx_Objectives_190912.pdf
 - Timeline: https://www.ieee802.org/3/cx/P802d3cx_Timeline.pdf

Goals for the meeting

- Identify remaining material to be added to IEEE 802.3 related to P802.3cx. For example:
 - Reach agreement on the basic outline and content of the informative annex
 - If possible, adopt portions of baseline text for the annex
- Prepare a liaison to ITU-T Q13/15 regarding the work and current status of P802.3cx
- Review and address any informal comments that have been received against D0.4
- Lay the ground work for the next meeting, with the goal of beginning TF review out of this meeting or the next one.

Big ticket items

1. *Make progress on the informative annex*
2. *Identify any additional items that are needed prior to beginning TF review of the P802.3cx draft D1.0*
3. *Prepare the status liaison to ITU-T Q13/15*

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: **XXXX**
 - Password: **XXXX**
- 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.

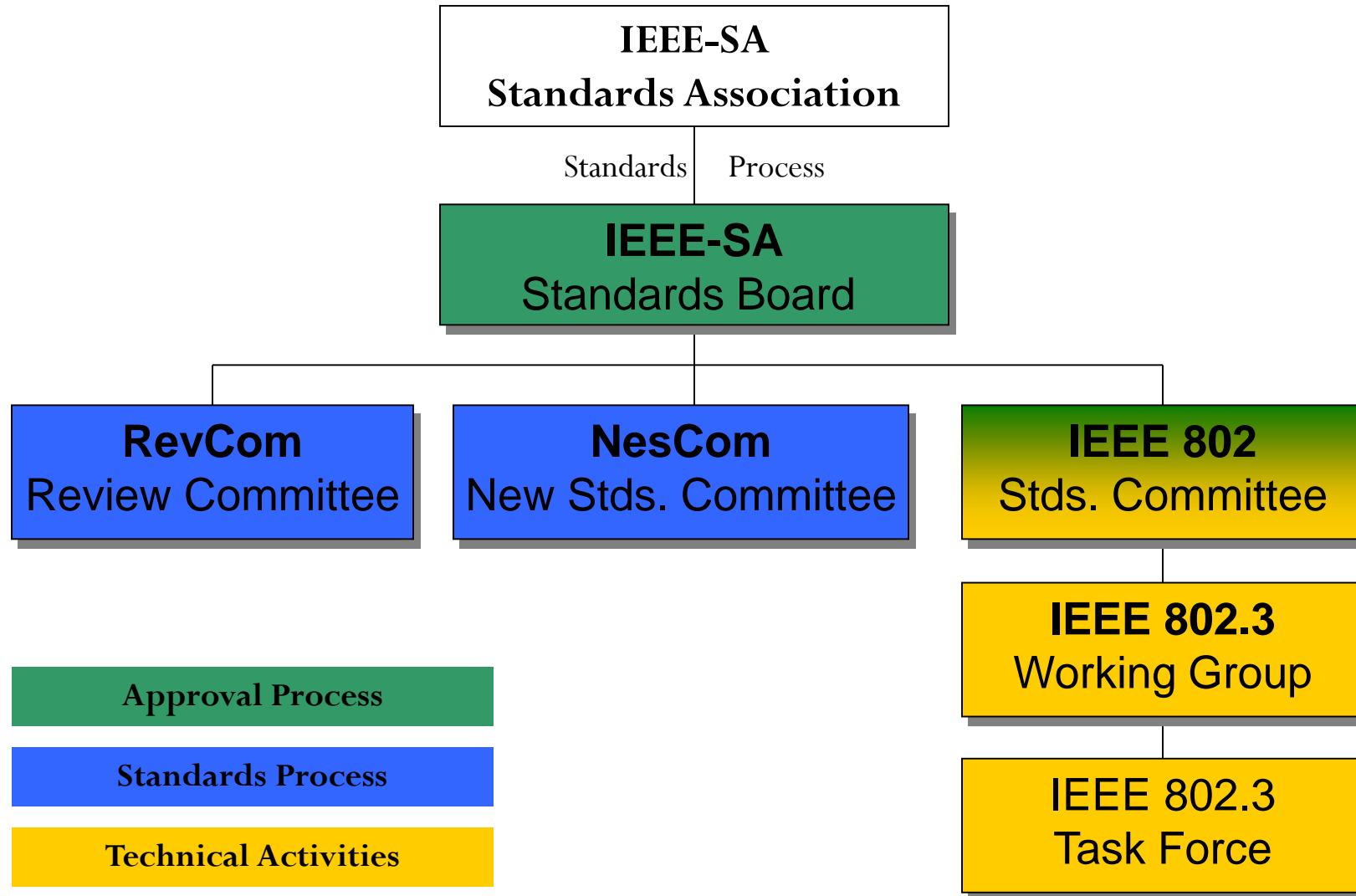
Ground Rules

- 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/>
 - Password for this meeting is _____

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

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); 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**

Participation in IEEE 802 Meetings

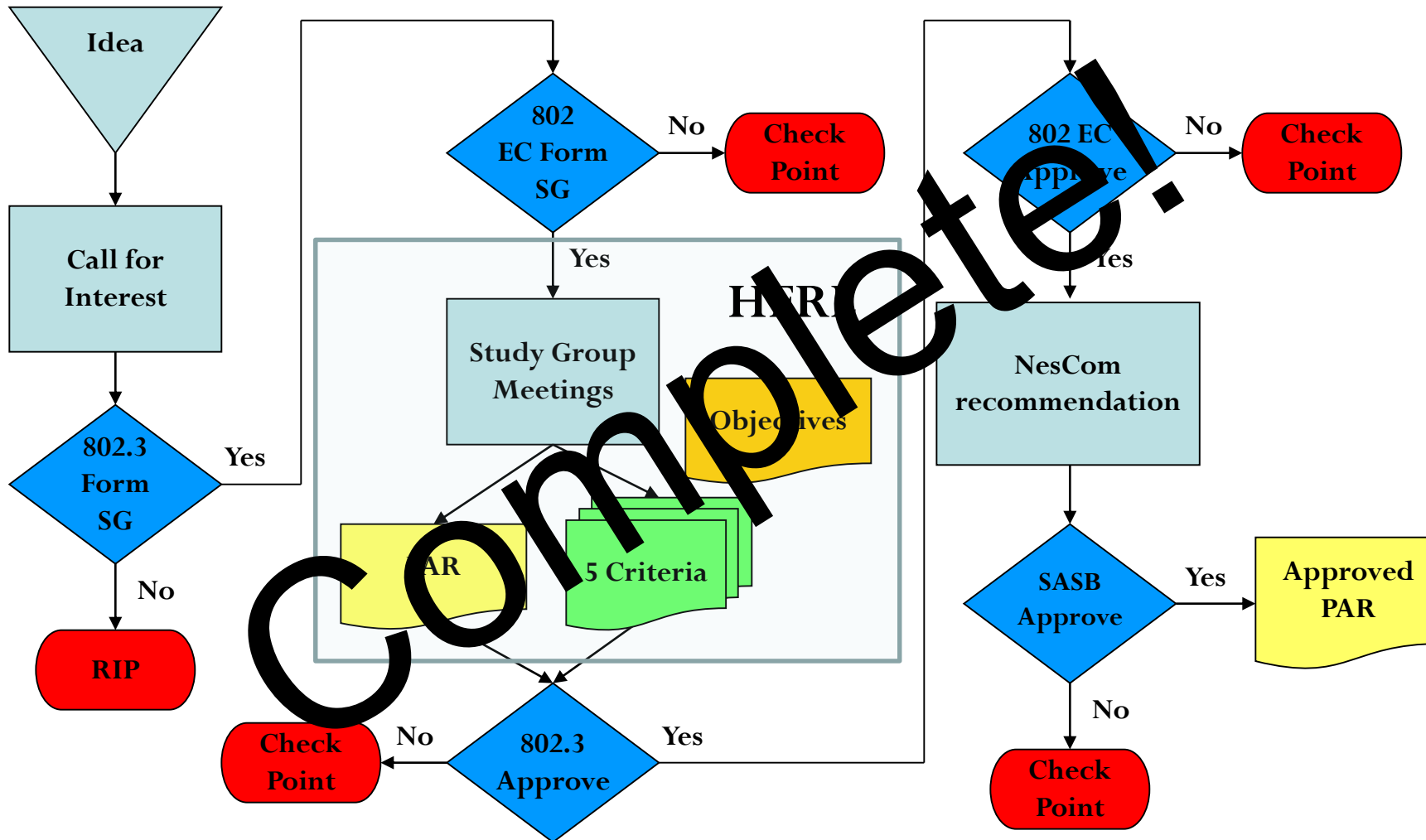
Participation in any IEEE 802 meeting (Sponsor, Sponsor subgroup, Working Group, Working Group subgroup, etc.) is on an individual basis

- **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.

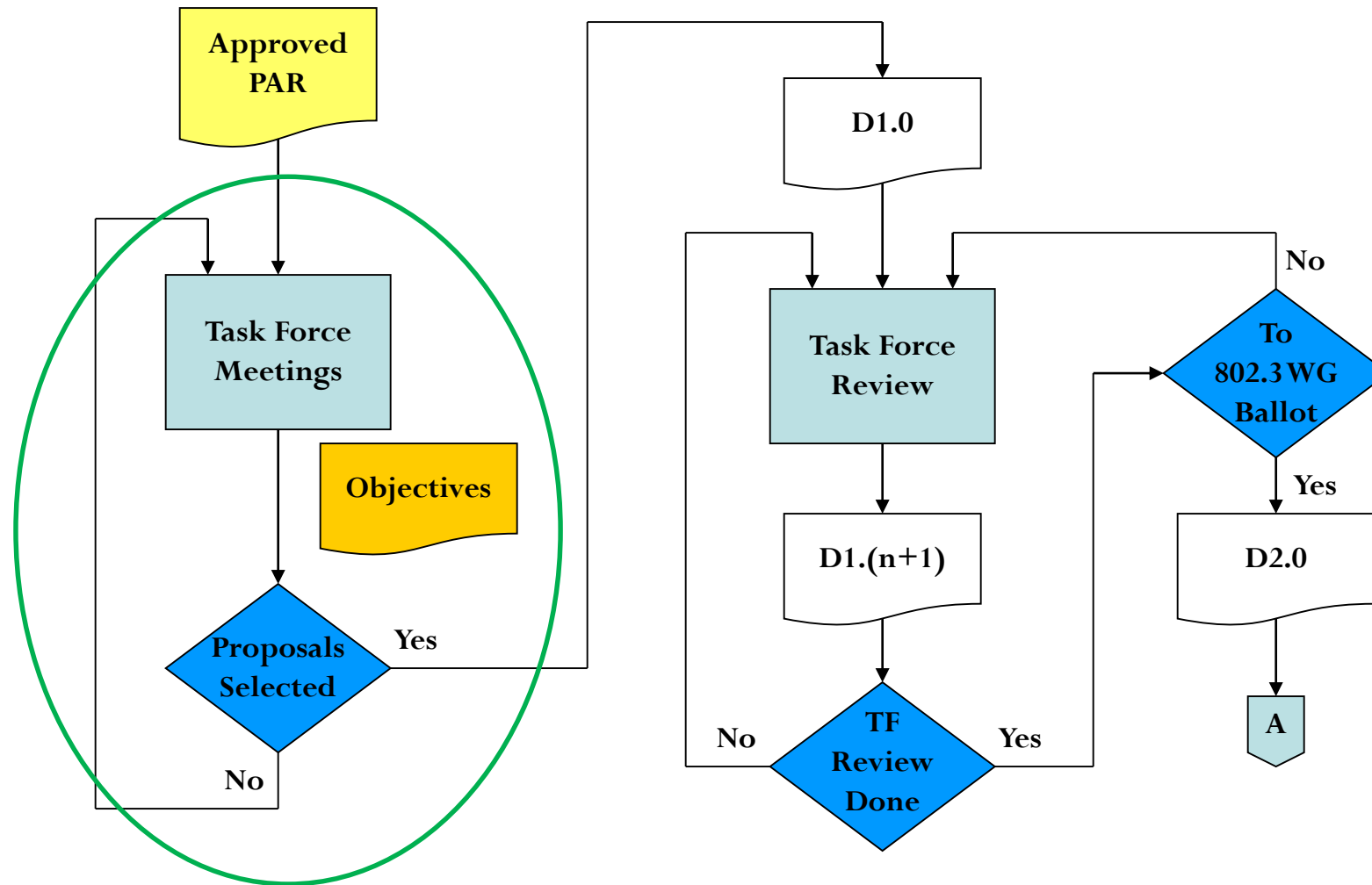
(Latest revision of IEEE 802 LMSC Working Group Policies and Procedures: <http://www.ieee802.org/devdocs.shtml>)

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

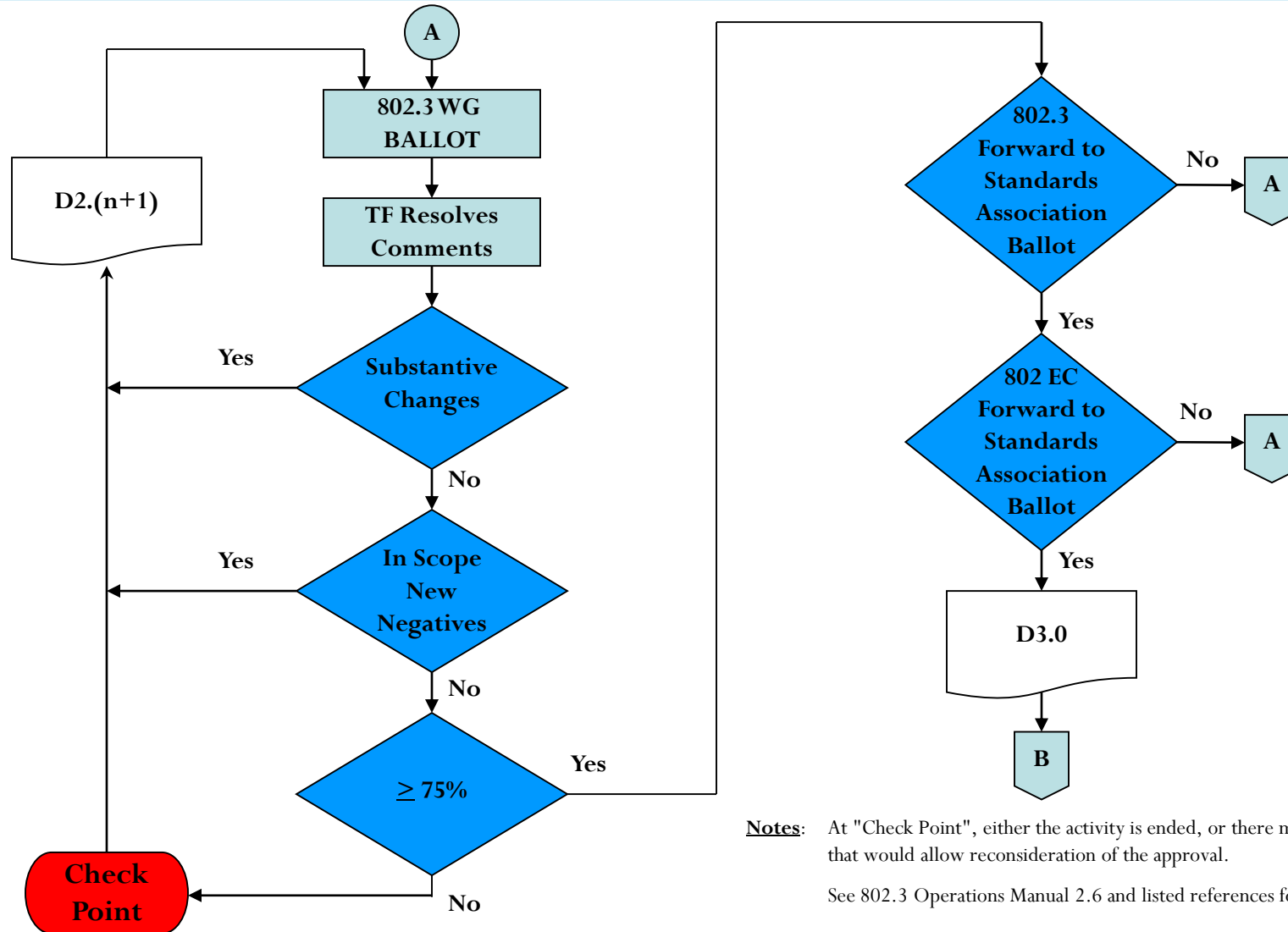


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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



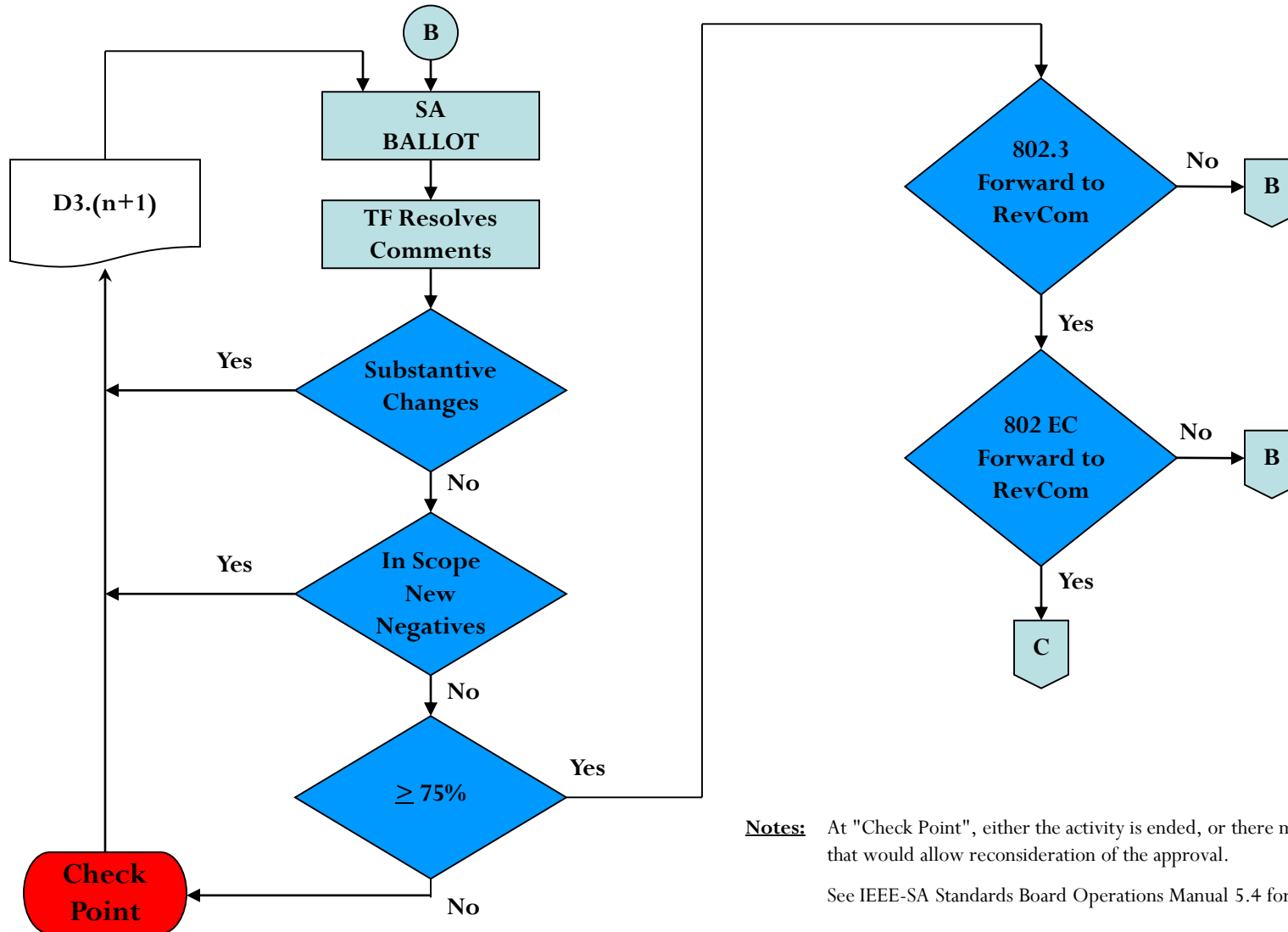
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



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

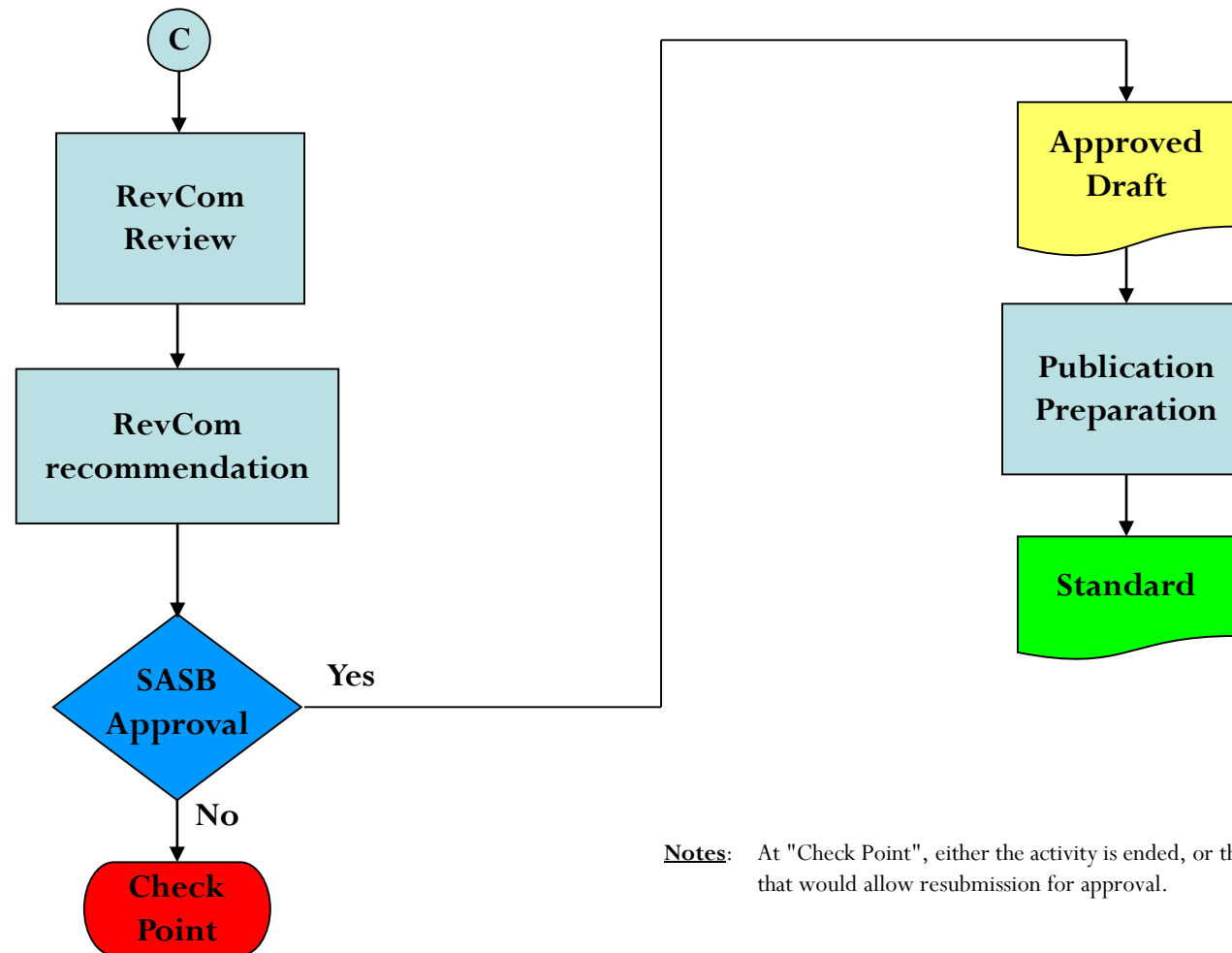
See 802.3 Operations Manual 2.6 and listed references for complete description

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.

Liaisons and Communications

- None at this time
 - A liaison to ITU-T Q13/15 will be considered at this meeting

Action Items

- None at this time

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

- PAR

- <https://mentor.ieee.org/802-ec/dcn/19/ec-19-0160-01-00EC-ieee-p802-3cx-draft-par-response.pdf>

- 5 Criteria

- <https://mentor.ieee.org/802-ec/dcn/19/ec-19-0161-01-00EC-ieee-p802-3cx-draft-csd-response.pdf>

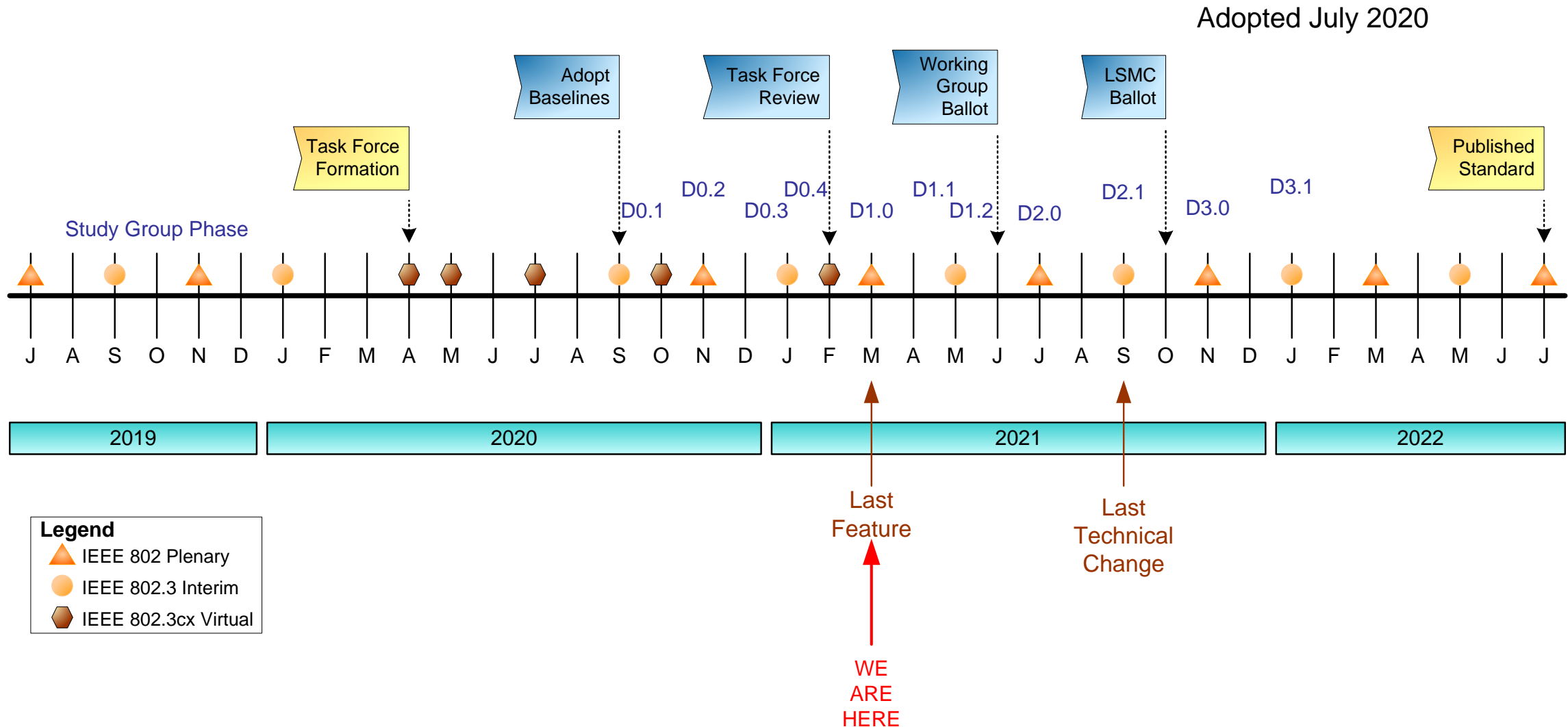
- Objectives

- http://www.ieee802.org/3/ITSA/P802_3cx_Objectives_190912.pdf

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

- To amend IEEE 802.3 to:
 - Define optional enhancements to Ethernet support for time synchronization protocols to provide improved timestamp accuracy in support of 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



Presentations

| Wednesday March 10, 2021 | | | | | |
|-----------------------------------|--|-------------|--|--------------------|----------|
| Time | Presenter | Affiliation | Title | File Name | Duration |
| Opening | | | | | |
| 7:00 AM | Steve Gorshe | Microchip | Agenda and General Information | agenda_a_3cx_0321 | 0:20 |
| 7:20 AM | Steve Gorshe | Microchip | January 2021 P802.3cx TF meeting minutes (updated) | | 0:05 |
| Draft Review and Proposals | | | | | |
| 7:25 AM | Richard Tse | Microchip | Updated Annex Proposal for 802.3cx | tse_3cx_01_0321 | 0:20 |
| 7:45 AM | Richard Tse | Microchip | Proposed Draft P802.3cx Informative Annex | tse_3cx_02_0321 | 0:40 |
| Liaisons | | | | | |
| 8:25 AM | Steve Gorshe | Microchip | Draft liaison to ITU-T Q13/15 | gorshe_3cx_01_0321 | 0:20 |
| Meeting Wrap-up | | | | | |
| 8:45 AM | Closing Polls and Motions | | | | 0:30 |
| 9:15 AM | Marek Hajduczenia | Charter | Review of D0.4 comments | | 0:15 |
| 9:30 AM | Next Steps discussion – What additional content is required before Working Group review? | | | | |
| 9:40AM | Adjourn | | | | |

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

Straw Poll #1

XXX

Results:

- A. xx
- B. yy
- C. Abstain

Motion #3

Current IEEE Voter List: https://www.ieee802.org/3/minutes/nov20/1120_voters.pdf

Motion: To ---

Moved:

Seconded:

Results:

Motion #3

Current IEEE Voter List: https://www.ieee802.org/3/minutes/nov20/1120_voters.pdf

Motion: To ...

Moved:

Seconded:

Results:

Future Meetings

- See: <http://www.ieee802.org/3/interims/index.html>
- <<May 2021 Interim >>
 - <<Virtual>>
 - <<March date TBD>>
- <<Month Year [Interim | Plenary] >>
 - <<Meeting location>>
 - <<Meeting date>>
- <<Month Year [Interim | Plenary] >>
 - <<Meeting location>>
 - <<Meeting date>>
- Anyone interested in hosting a interim meeting contact me or the IEEE 802.3 Executive Secretary [Steve Carlson](#).

Thank You!