Agenda and General Information

IEEE 802.3

Improving PTP Timestamping Accuracy Study Group

Steve Gorshe

Microchip Technology

Waikoloa, November 2019

Agenda

- Welcome and Introductions
- Approve Agenda
- 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

Study Group 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

Minutes Approval

- Approval minutes
  - September: http://www.ieee802.org/3/ITSA/public/sept19/Unconfirmed_Meeting_Minutes_ITSA_SG_0919.pdf

Goals for the meeting

- Review any WG feedback on the ITSA draft PAR, and update the PAR accordingly
- Discuss potential strategy for new Task Force

Big ticket items

- Update PAR as needed

Reflector and Web

- To subscribe to the Improving PTP Timestamp Accuracy Study Group 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 Study Group reflector messages to:
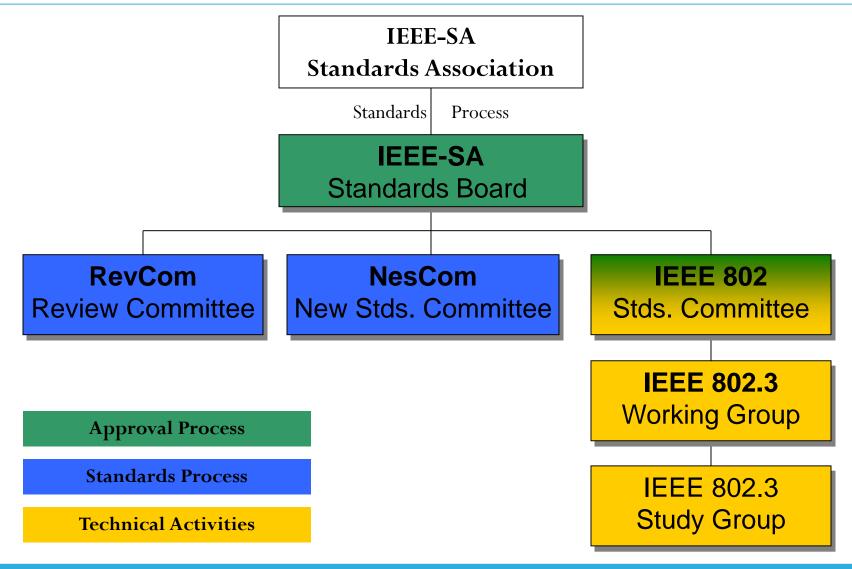
    stds-802-3-ITSA@listserv.ieee.org

- Study Group web page URL:

    http://www.ieee802.org/3/ITSA/index.html

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

IEEE Structure

IEEE-SA
Standards Association

Standards | Process

IEEE-SA
Standards Board

RevCom
Review Committee

NesCom
New Stds. Committee

IEEE 802
Stds. Committee

IEEE 802.3
Working Group

IEEE 802.3
Study Group

Approval Process

Standards Process

Technical Activities

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

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, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.

    - Technical considerations remain 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.**

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org or visit http://standards.ieee.org/about/sasb/patcom/index.html

See *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and "Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy" for more details.

This slide set is available at https://development.standards.ieee.org/myproject/Public/mytools/mob/preparslides.ppt
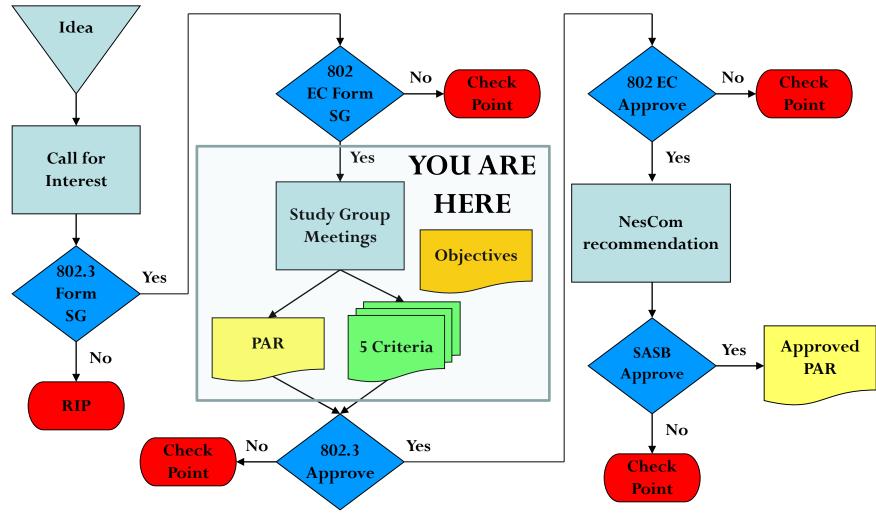
Participation in IEEE 802 Meetings

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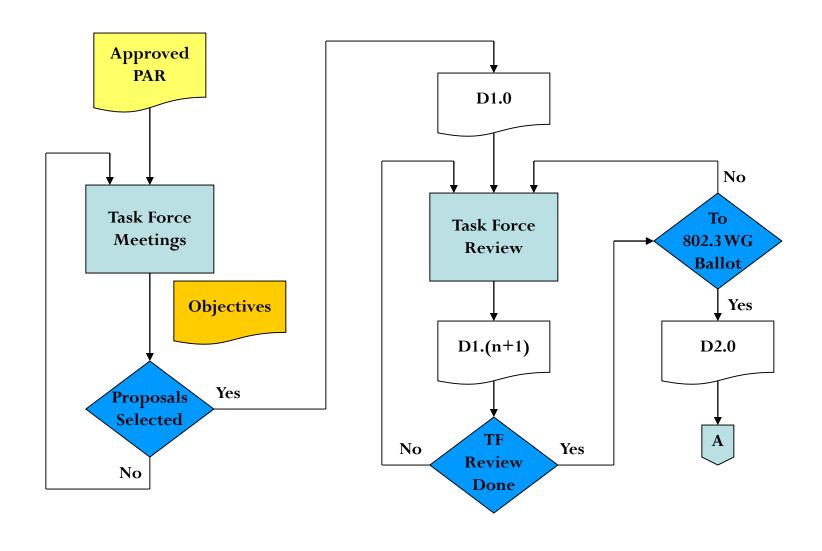
(Latest revision of IEEE 802 LMSC Working Group Policies and Procedures: http://www.ieee802.org/devdocs.shtml)

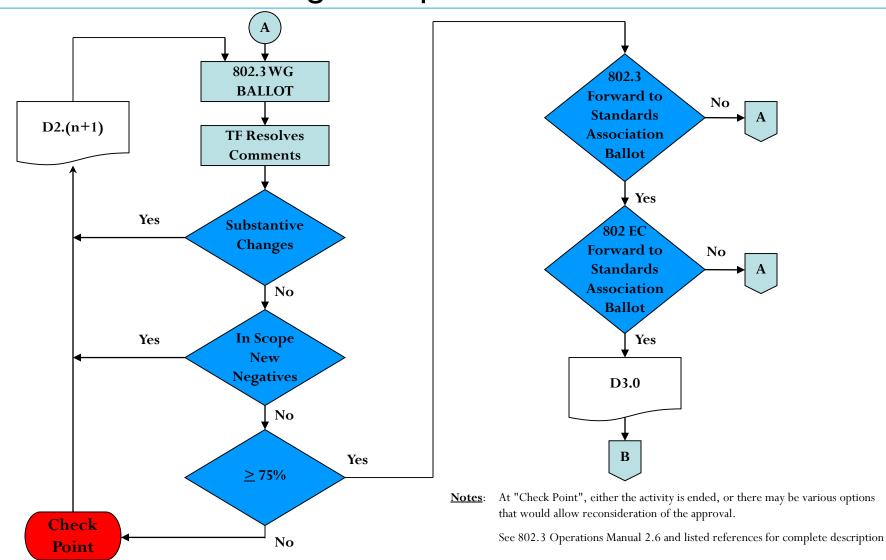# Overview of IEEE 802.3 Standards Process (1/5)- Study Group Phase

Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.
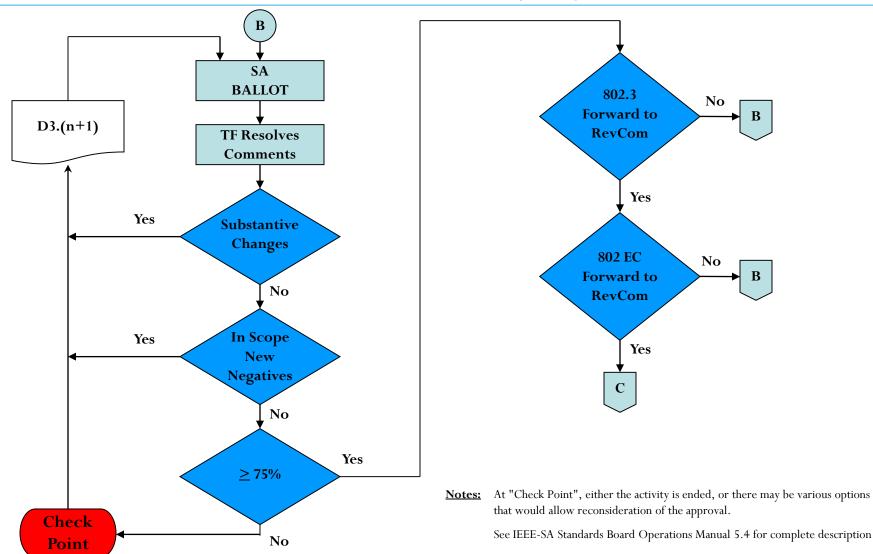
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase
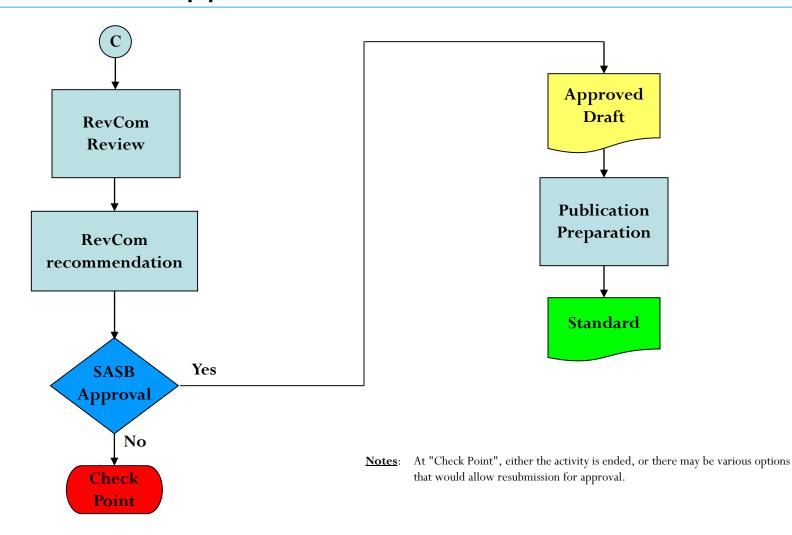

Notes: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

See 802.3 Operations Manual 2.6 and listed references for complete description

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

Notes: At "Check Point", either the activity is ended, or there may be various options that would allow resubmission for 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 EC, 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 EC
- Development of Objectives helps set the goals for the Task Force
- Consensus required to move forward

- Not a goal – choosing a solution.

ITSA Objectives agreed in September

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.

Liaisons and Communications

- None at this time

Action Items

- N/A

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

Presentations

Wed.   **13-Nov-19**

Time	Presenter	Affiliation	Title	File Name	Duration
8:00 AM	Steve Gorshe	Microchip	Agenda, General Information	agenda_itsa_1119	0:20
8:20 AM	Steve Gorshe	Microchip	Approval of previous minutes	unconfirmed_minutes	0:05
8:25 AM	Steve Gorshe	Microchip	Review WG feedback on ITSA PAR, and update PAR		1:30
10:00 AM	Break				0:20
10:30 AM	Discussion, Motions and Strawpolls				
10:45 AM	Closing Business				
11:00 AM	Adjourn				

Note –Times listed are subject to change.

Draft PAR from September

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

Motion #1

Move to approve the minutes from the last meeting from the September meeting

Approved by voice vote without objection (Procedural > 50%)

MOTION PASSES (>= 50%)

Motion #2

Move to reject the 802.1 PAR feedback captured as *"Define optional enhancements to Ethernet support for time synchronization protocols to provide improved timestamp accuracy ~~in support of~~ with the target being, ITU-T Recommendation G.8273.2 'Class C' and 'Class D' system time error performance requirements."* with the reason being those ITU specification are system level specifications with 802.3 PHY layer being a small portion of the overall timing budget for these specifications.

Technical (>=75%)

Moved by: Marek Hajduczenia

Seconded by: Bill Powell

- Y: 13
- N: 0
- A: 1

MOTION PASSES (>= 75%)

Motion #3

Move to accept 802.1 feedback on slides 2 and 3 of Comments from 802.1 presentation.

Technical (>=75%)

Moved by: Marek Hajduczenia

Seconded by: Clark Carty

- Y: 11
- N: 0
- A: 1

MOTION PASSES (>= 75%)

Future Meetings

- See: http://www.ieee802.org/3/interims/index.html

- Jan 2020
  - Week of Jan 20th
  - Geneva, CH

- Mar 2020
  - Week of March 16th
  - Hilton Atlanta
  - Atlanta, GA, USA

- Anyone interested in hosting a interim meeting contact me or the IEEE 802.3 Executive Secretary Steve Carlson.

Straw Poll – Future Meeting Attendance

- ## January (Geneva)
  - I will attend the Study Group / Task Force meeting: 6
  - I may attend the Study Group / Task Force meeting: 5
  - I will not attend the Study Group / Task Force meeting: 3
- ## March (Atlanta)
  - I will attend the Study Group / Task Force meeting: 10
  - I may attend the Study Group / Task Force meeting: 3
  - I will not attend the Study Group / Task Force meeting: 2

Thank You!