
Agenda and General Information

IEEE 802.3

Multi-Gigabit Automotive Optical PHY Study Group

Robert M. Grow

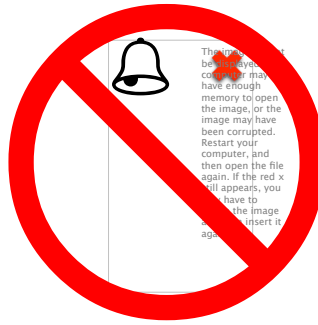
RMG Consulting / KDPOF

Indianapolis Indianapolis, 9 Sep 2019

Agenda

- Appointment of Recording Secretary
- Confirmation of SG Chair
- 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

Goals for the meeting

- Begin development of draft Project Authorization Request (PAR)
- Begin development of draft Criteria for Standards Development (CSD)
- Begin development of Objectives for our yet to be approved project
- Lay the ground work for initial drafts of these documents targeting January 2020 SG approval

Big ticket items

- PAR
- CSD
- Objectives

Reflector and Web

- To subscribe to the Multi-Gigabit Automotive Optical PHY (OMEGA) reflector, send an email to:

ListServ@ieee.org

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

***subscribe stds-802-3-omega <yourfirstname> <yourlastname>
end***

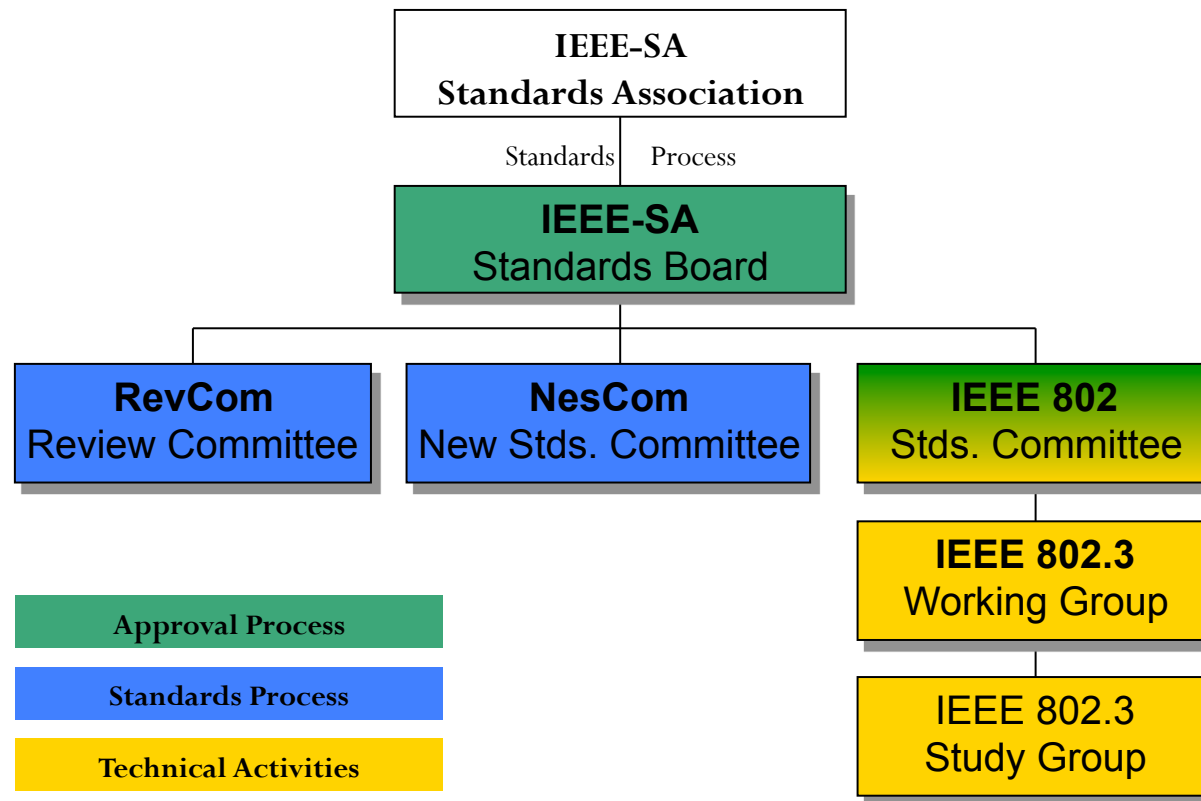
- Send Multi-Gigabit Automotive Optical PHY reflector messages to:
stds-802-3-omega@listserv.ieee.org

- Study Group web page URL:
<http://www.ieee802.org/3/OMEGA/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



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>

March 2015

IEEE-SA Standards Board Patent Committee

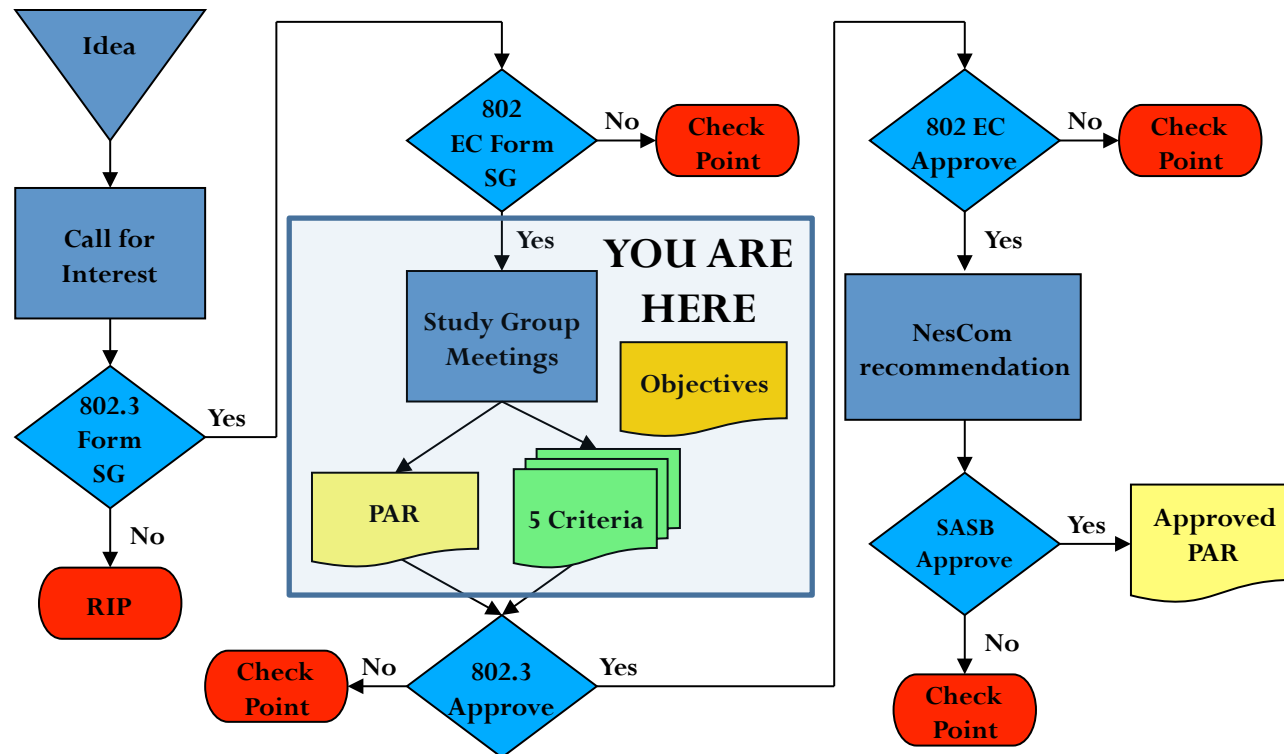
Participation in IEEE 802 Meetings

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.**

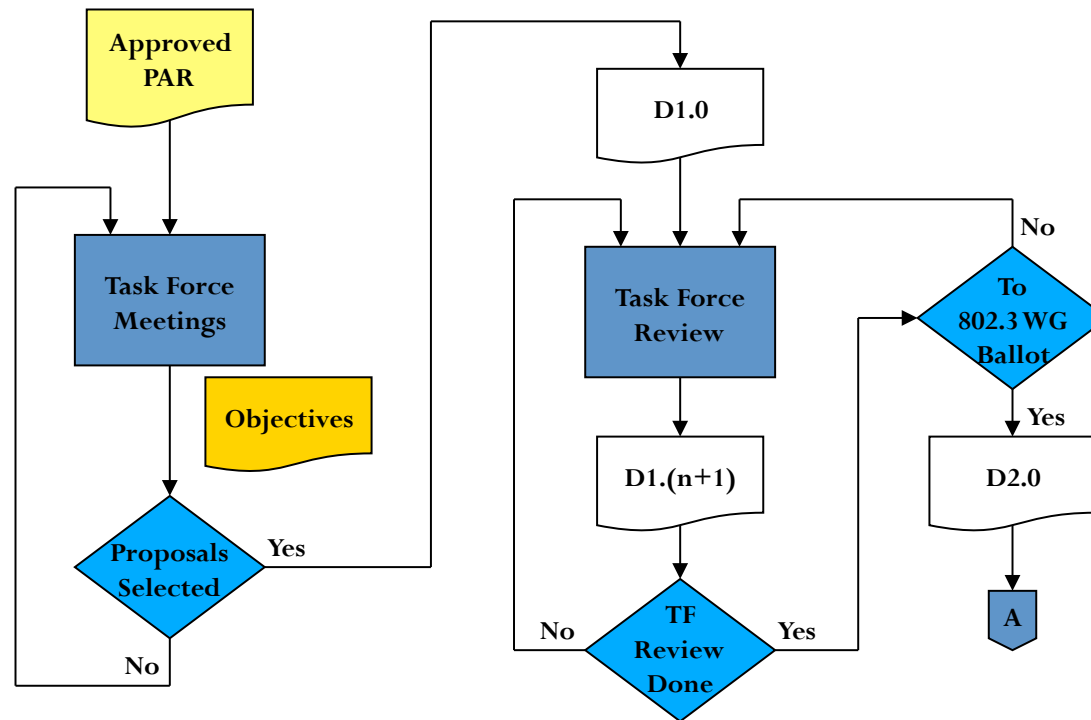
By participating in IEEE 802 meetings, you accept these requirements. If you do not agree to these policies then you shall not participate.

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

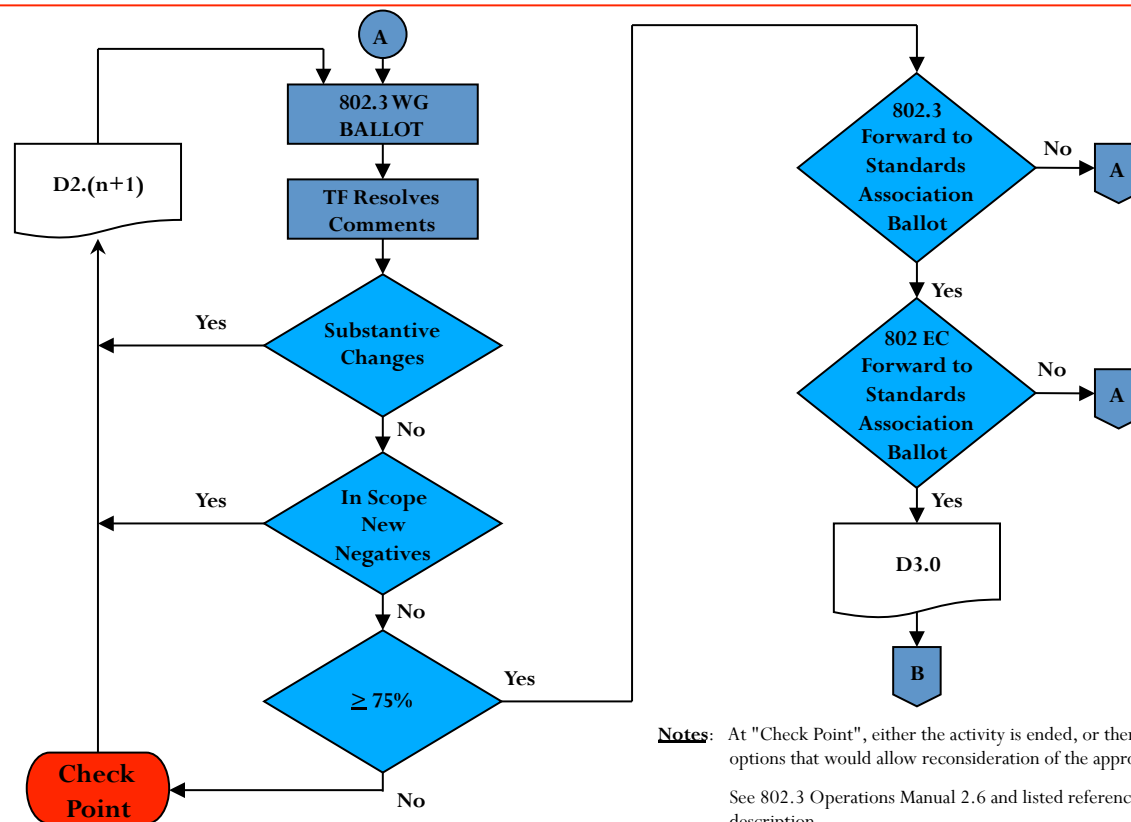


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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



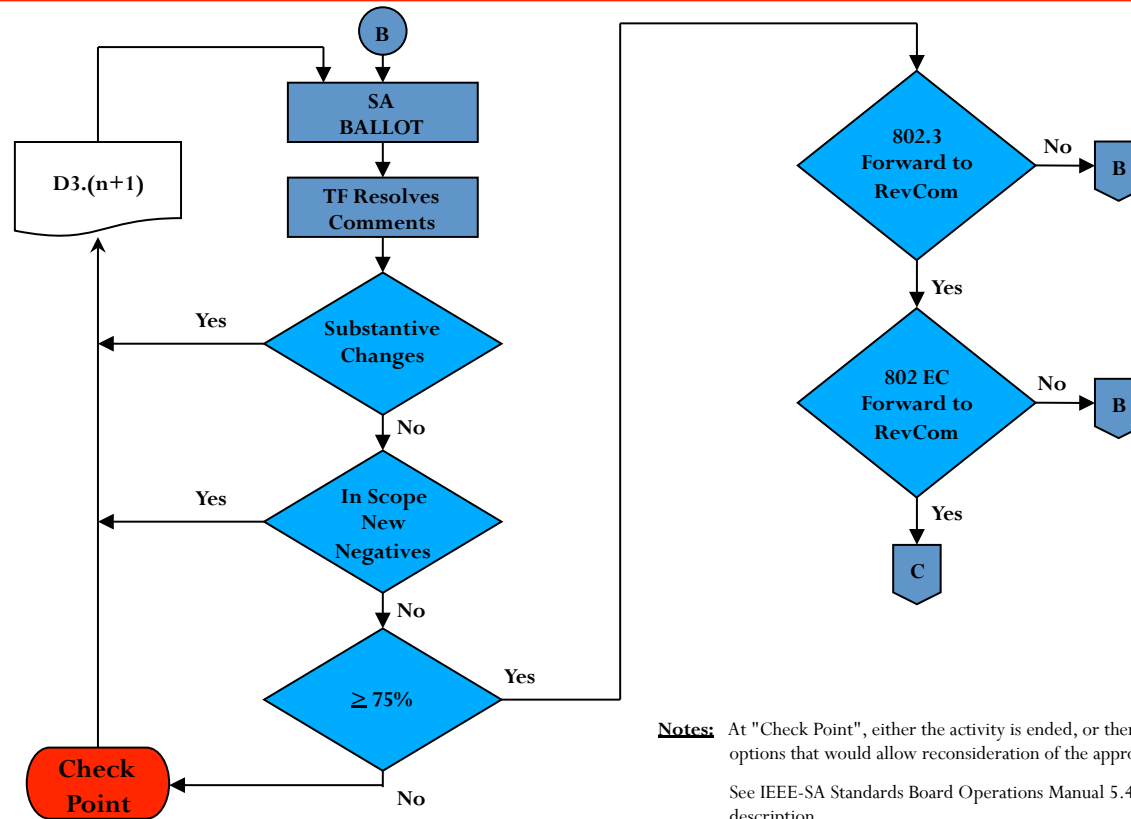
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



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

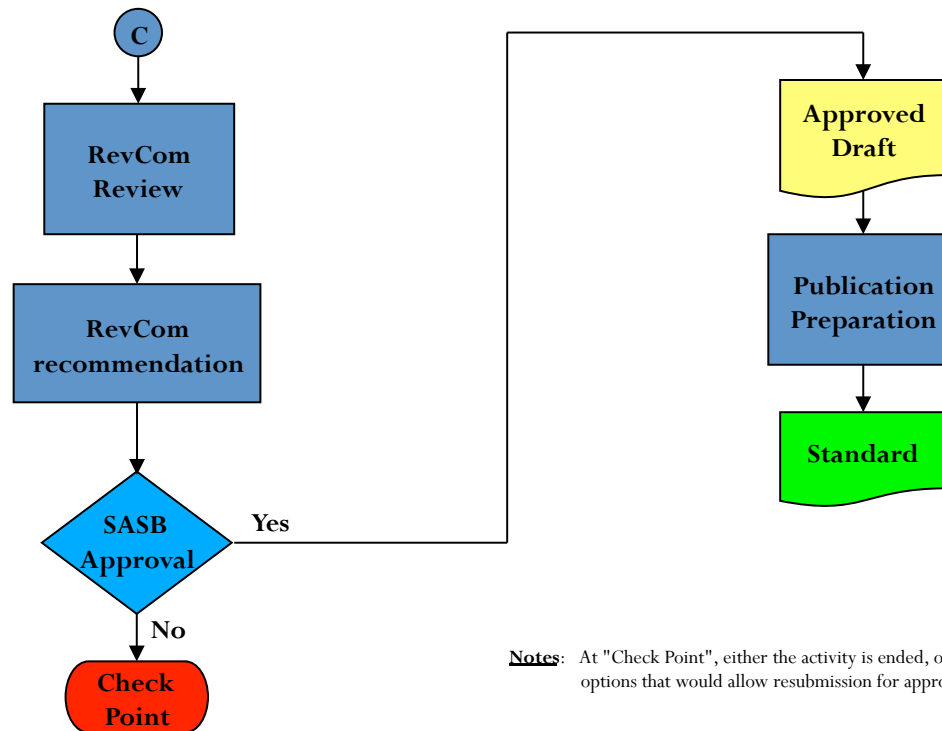
Overview of IEEE 802.3 Standards Process (4/5)- IEEE Standards Association (SA) Ballot Phase



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

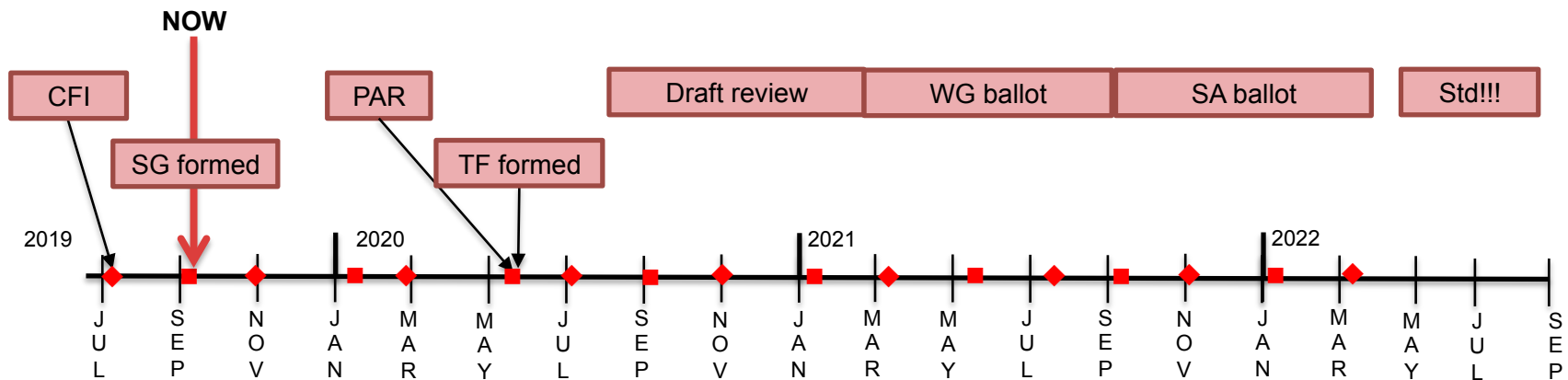


Notes: At "Check Point", either the activity is ended, or there may be various options that would allow resubmission for approval.

The Study Group

- Normal function is to draft a complete PAR and CSD (the Five Criteria being relevant)
- Optionally 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 chartered for 6 months (4 months in IEEE 802)
 - 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 study group goal – choosing a solution.

Major timeline benchmarks



* 2020 Continuous Processing meetings have not yet been scheduled. The above PAR approval assumes there will be an April NesCom teleconference meeting allowing the TF to be formed at the May 2020 802.3 interim, else the next opportunity would be TF formation in July 2020.

** Once we get a better feel for our scope of work, we will want to adopt a timeline with target draft review/ballot dates.

Request for Formation of Study Group (per July 2019 Plenary Motion)

- Move that the IEEE 802.3 Working Group request the formation of a Study Group to develop the Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for Multi Gigabit Automotive Optical PHY.

Why OMEGA?

- What are we working on – PHYs for:
Multi-Gigabit Optical Automotive Ethernet
- Take the first letter of each word.

MGOAE

- What pronounceable anagram can we get from those letters?

OMEGA

Liaisons and Communications

- None

Action Items

- None

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

- Bob Grow – PAR, CSD and Objectives
- Yasuhiro Hyakutake – Require for Automotive Optical Components
- Carlos Pardo - Optical Multi Gigabit Ethernet for Automotive–Market Size Estimation
- Xingxin Zhang – Use Case Requirements for Camera and Backbone
- Rubén Pérez-Aranda – Technical and Economic Feasibility Requirements and Methodology for Assessment
- Rubén Pérez-Aranda – Possible Objectives

Other business

- Motions?

Future Meetings

- See: <http://www.ieee802.org/3/interims/index.html>
- November 11-14, 2019 Plenary Meeting
 - Waikoloa Village, Hawaii, USA (big island)
- January 20, 2020 Interim meeting week
 - ITU Headquarters, Geneva, Switzerland
- March 16-19, 2020 Plenary Meeting
 - Atlanta, Georgia, USA
- Anyone interested in hosting an interim meeting contact SG Chair, or the IEEE 802.3 Executive Secretary [Steve Carlson](#).



Thank You!