

Agenda and General Information

IEEE 802.3

Multi-Gigabit Automotive Optical PHYs Study Group

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RMG Consulting / KDPOF

Geneva, Switzerland, 20 January 2020

Agenda

Welcome and Introductions

Approve Agenda

Approve September 2019 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 September 2019 Meeting

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. (November 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 (November 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

Approve drafts of PAR, CSD, and Objectives

Get 802.3 approval for pre-submittal to March plenary meeting

Big ticket items

PAR, CSD, and Objectives

Reflector and Web

To subscribe to the Multi-Gigabit Automotive Optical PHYs 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 PHYs 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

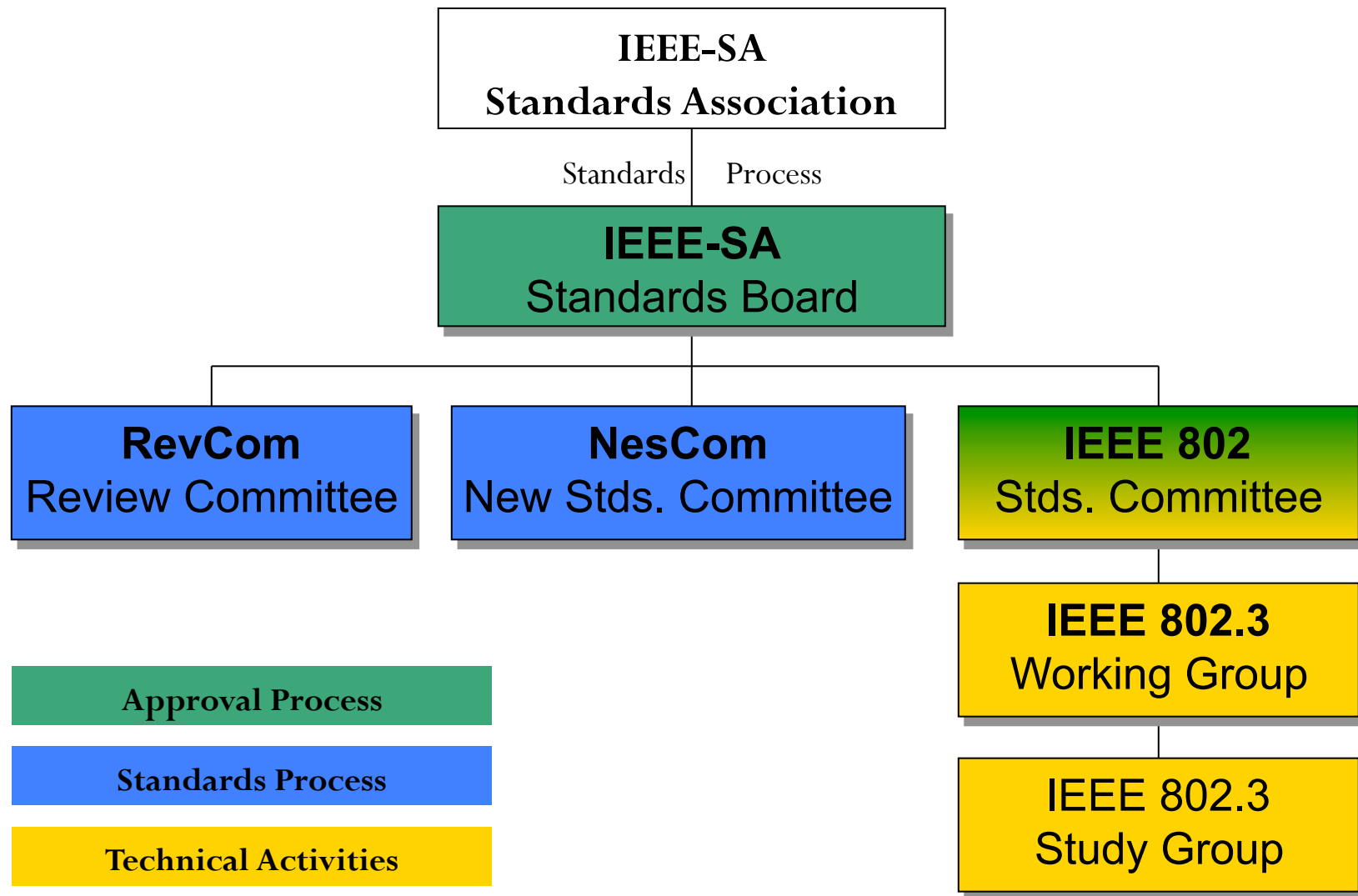
NO corporate pitches

NO prices!!!

- This includes costs, ASPs, etc. no matter what the currency

NO restrictive notices

IEEE Structure



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 ... 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>

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.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

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>

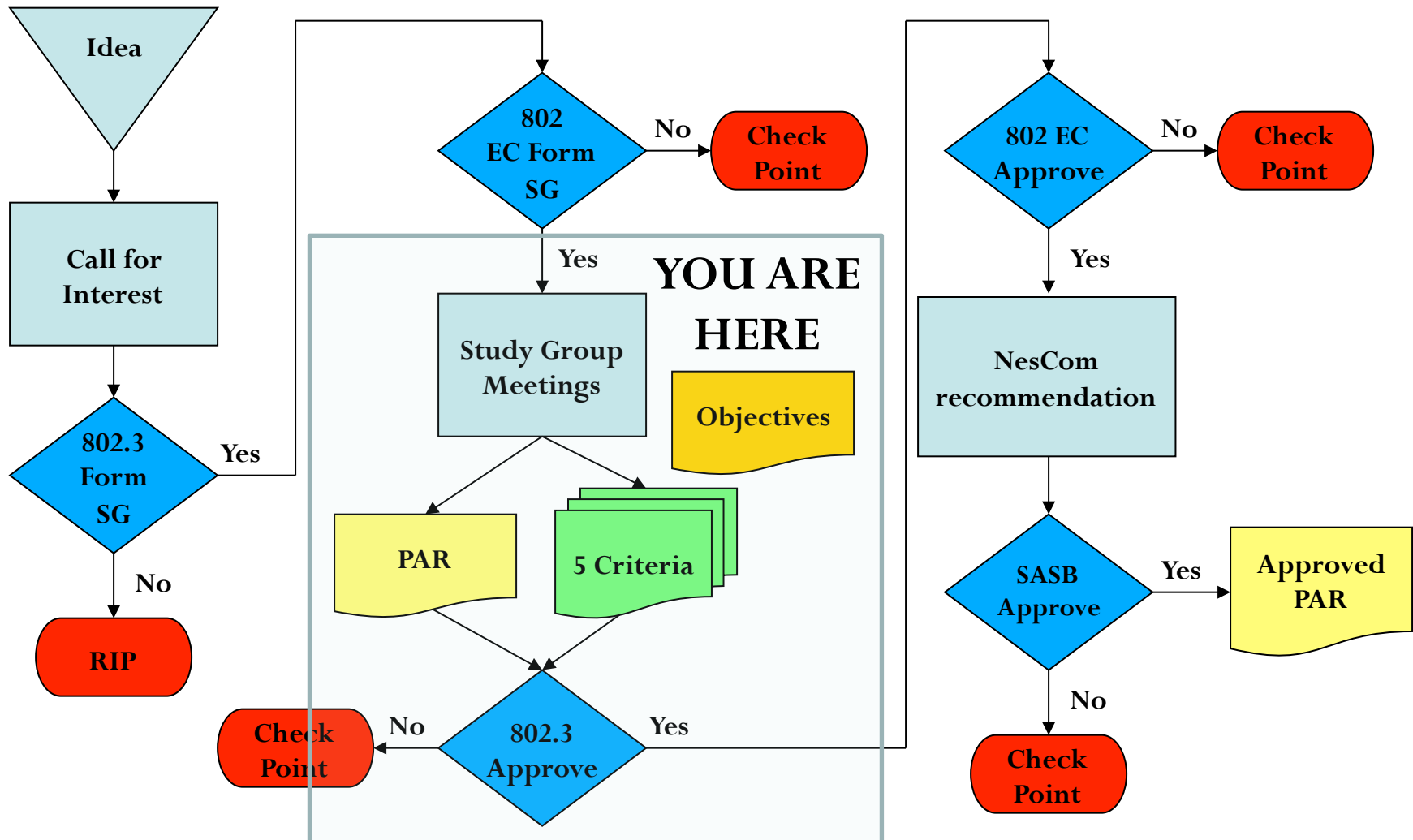
IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG) Policies and Procedures

<http://www.ieee802.org/devdocs.shtml>

IEEE 802.3 Working Group Operating Rules

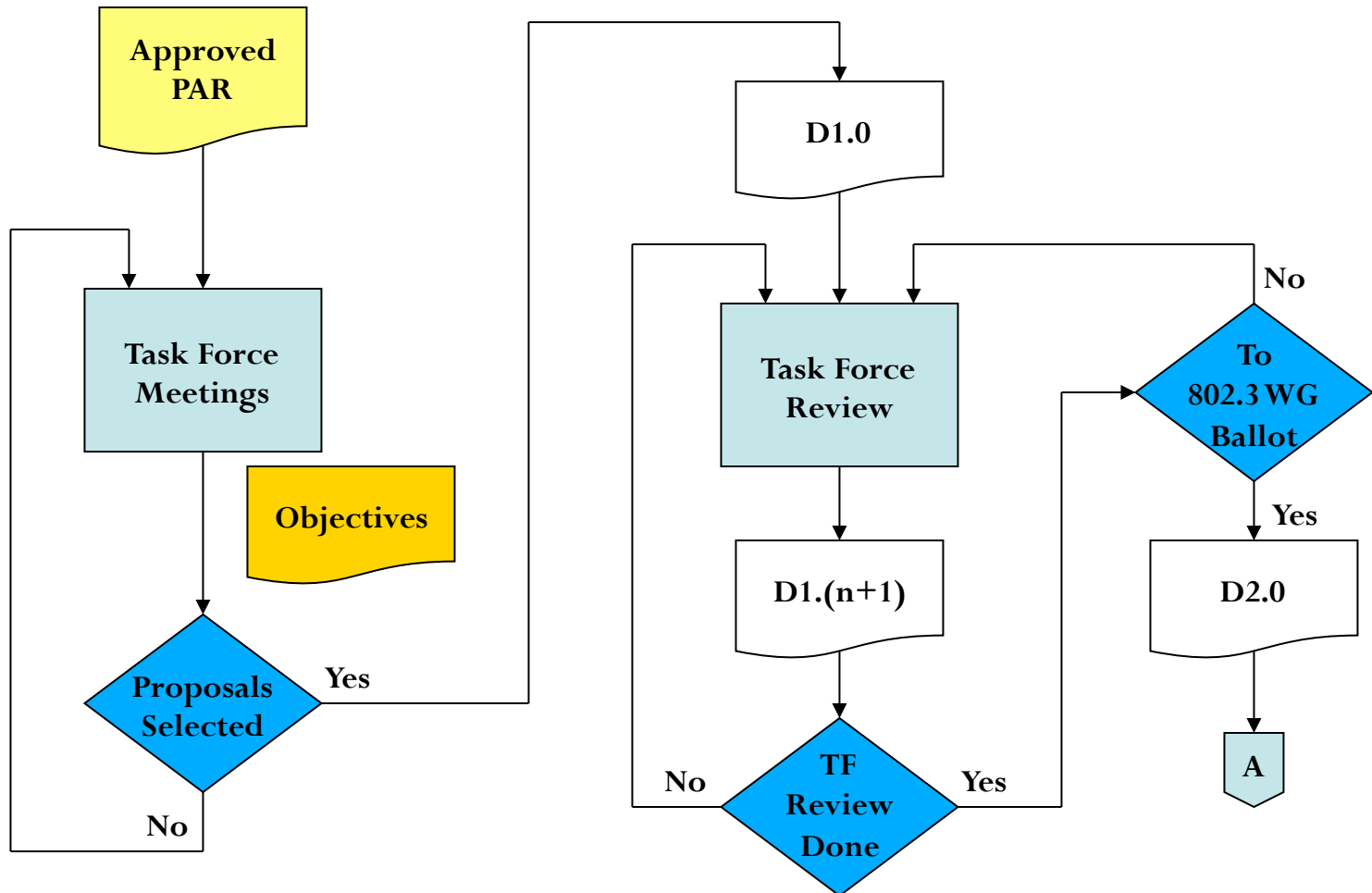
http://ieee802.org/3/rules/P802_3_rules.pdf

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

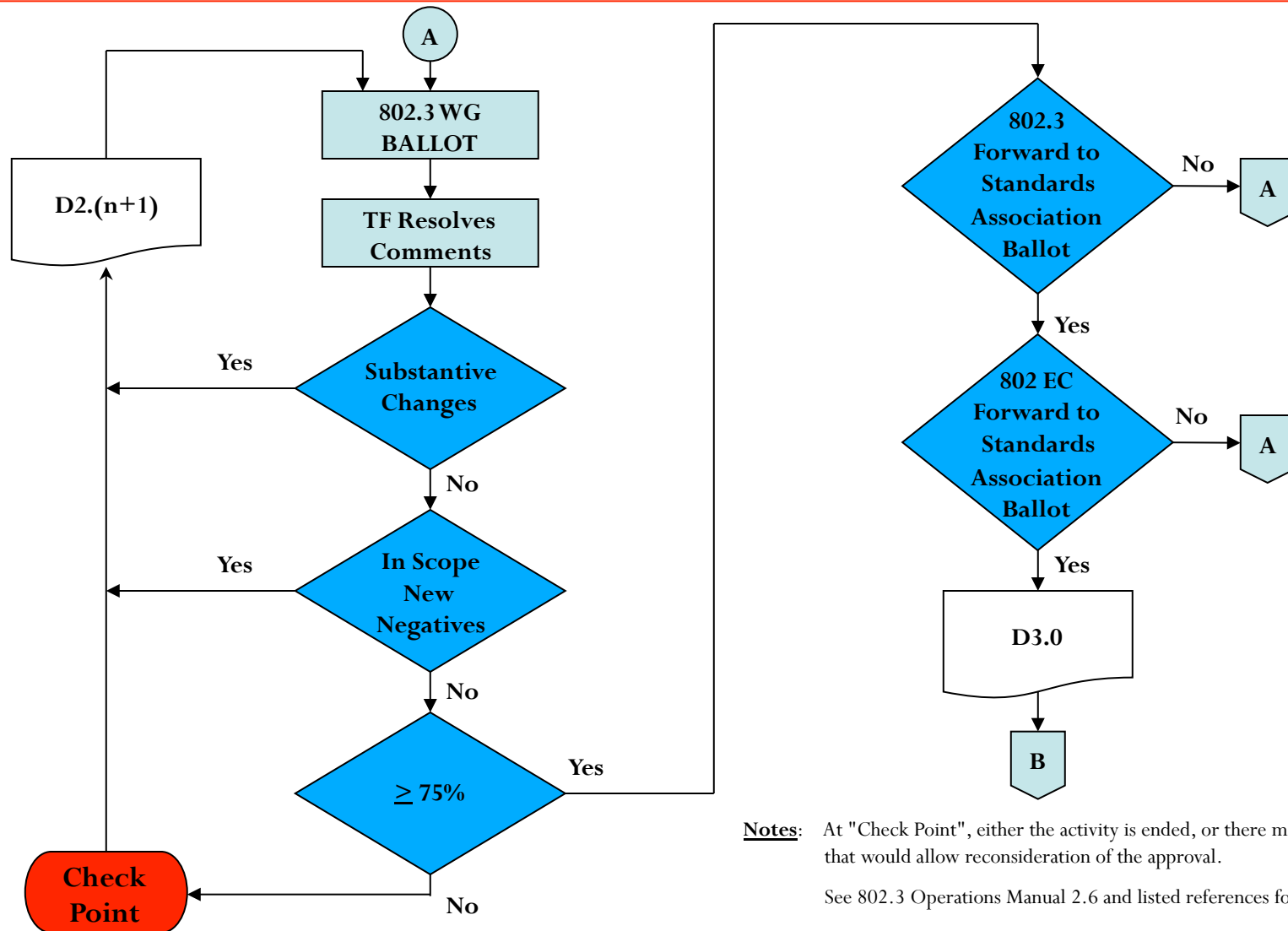


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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



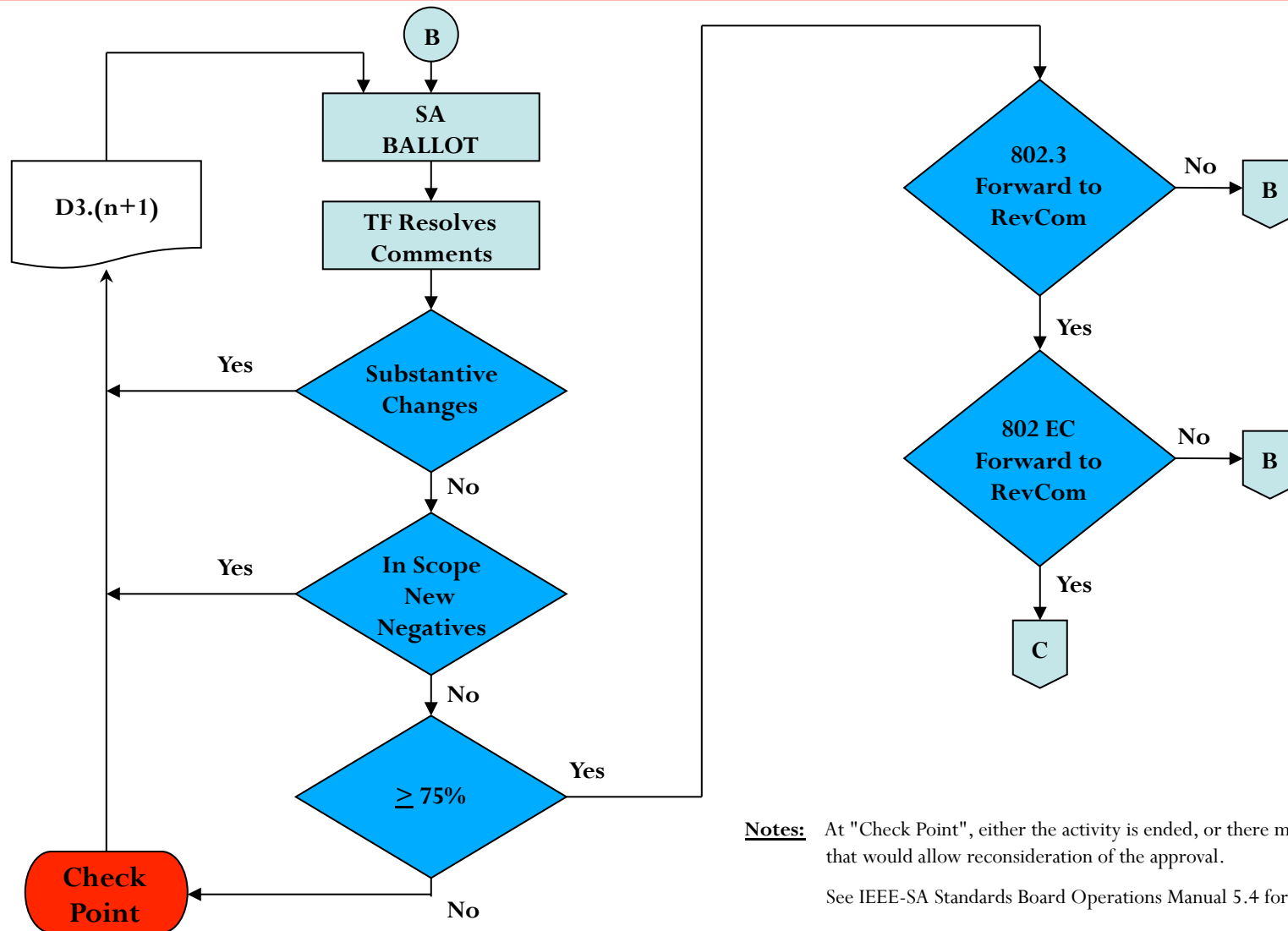
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



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

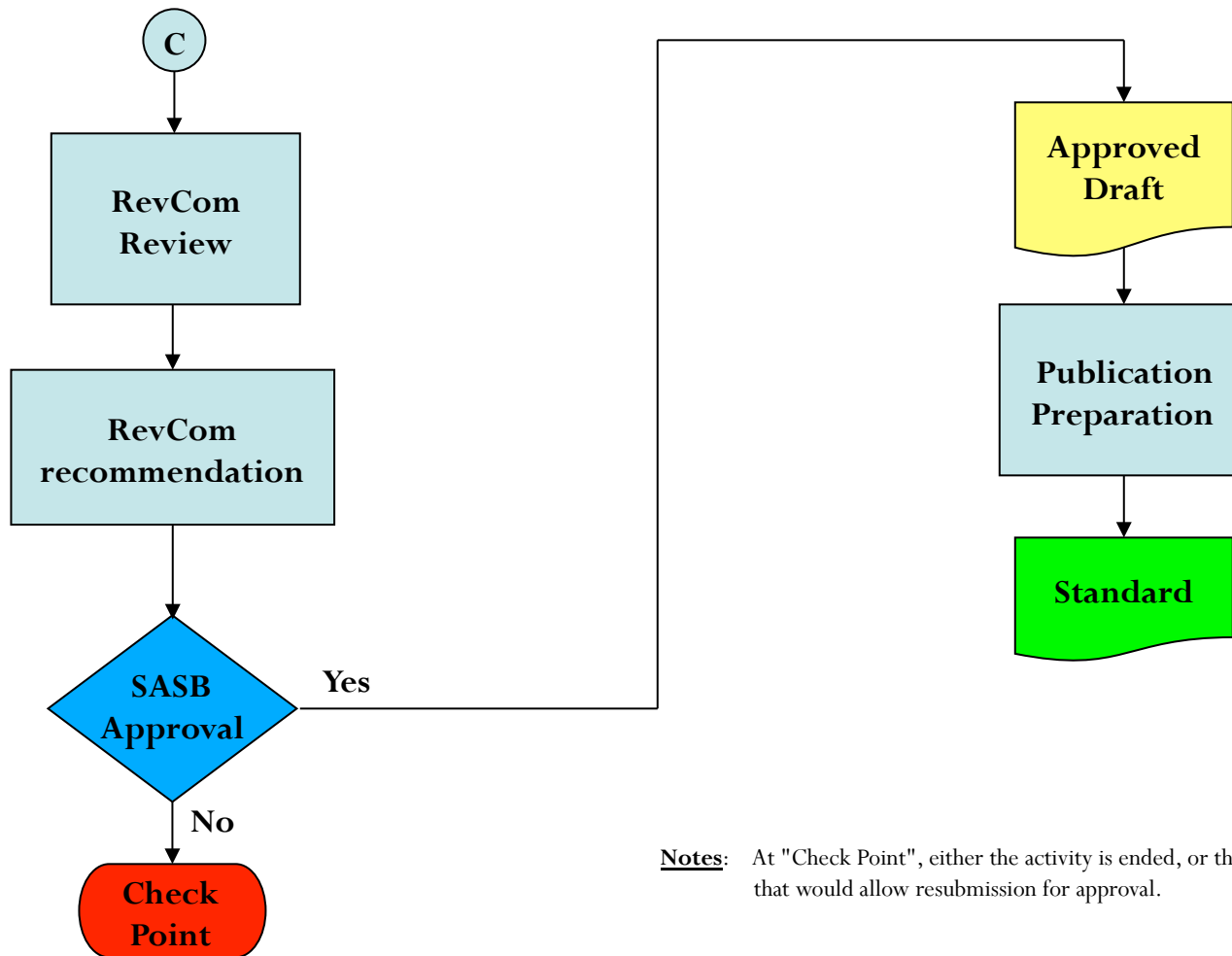
Overview of IEEE 802.3 Standards Process (4/5)- IEEE Standards Association (SA) Ballot Phase



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 Five Criteria

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 exists for 6 months

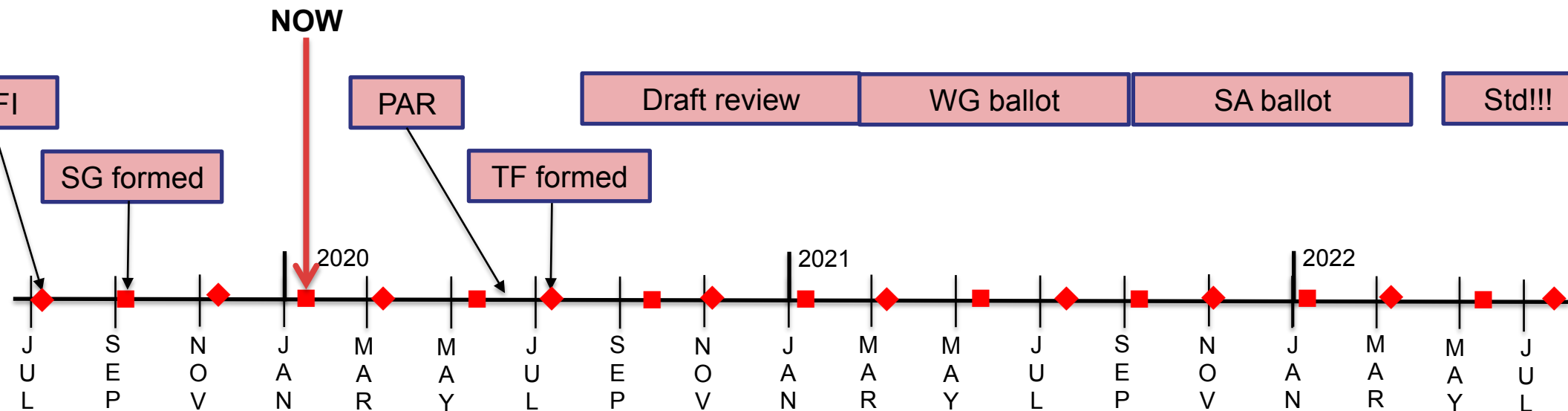
- Extensions can be requested
- Voted on by IEEE 802.3
- Ratified by IEEE 802 EC

Development of Objectives helps set the goals for the Task Force

Consensus required to move forward

Not a study group goal – choosing a solution.

Major timeline benchmarks



If PAR and CSD are ready for consideration at the March 802 meeting, SASB consideration based on current NesCom/SASB calendar would be in June, with the TF being organized at the July 802 meeting. If early consideration is scheduled for April, PAR and TF formed dates might move earlier.

Once we get to TF, we will want to adopt a timeline with target draft review/ballot dates.

Request for Formation of Study Group (per July 2019 Plenary Motion, amended Sep/Oct 2019)

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 PHYs.

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/>

Presentations

Title	Presenter(s)/Author(s)	Affiliation(s)
Input - Automotive Use-cases and Requirements Multi Gigabit	Magnus Eek	Volvo
From POF Solutions to Next Generation, Challenges	Robert Rodenkirchen	Yazaki
50 Gb/s PAM4 transmission with InGaAs 25G VCSEL	Rubén Pérez-Aranda	KDPOF
A study for highly-reliable optical transceiver based on Si Photonics technology	Ichiro Ogura Kazuhiko Kurata	PETRA AIO Core
Optical Fiber Harness for Multi-X Automotive Applications	Takashi Fukuoka	SEI
Plastic Optical Fiber for Automotive	Naoto Ota Yuji Watanabe Hidenari Hirase	AGC Inc. AGC Inc. AGC Inc.
25 Gb/s transmission over harsh environment multimode fiber	Rubén Pérez-Aranda Steve Swanson	KDPOF Corning, Inc.
25 Gb/s transmission over harsh environment multimode fiber	Rubén Pérez-Aranda Mabud Choudhury John Earnhardt	KDPOF OFS OFS
Draft Objectives	Carlos Pardo	KDPOF
Draft PAR	Bob Grow	RMG Consulting/KDPOF
Draft CSD	Carlos Pardo	KDPOF

Motions

(Motions will be recorded in the meeting minutes.)

Future Meetings

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

March 16-19, 2020 Plenary Meeting

– Atlanta, Georgia, USA

May 18-22, 2020 interim meeting week

– Pasadena, California, USA

July 13-16, 2020 Plenary Meeting

– West Montreal, Quebec, Canada

September 21-25, 2020 Interim meeting week

– Kansas City, Missouri, USA

Anyone interested in hosting an interim meeting contact SG Chair, or the IEEE 802.3 Executive Secretary [Steve Carlson](#).

Meeting polls

will attend the March, Atlanta, Georgia, USA meeting
20, N: 3, M: 3

will attend the May, Pasadena, California, USA meeting
16, N: 3, M: 6

Thank You!