IEEE 802.3 Ethernet for Automotive Imaging Sensors (ISAAC) Study Group Agenda and General Information

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Dell Technologies

9 January 2024

Agenda

- 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 & General 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 2020 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 2020 IEEE-SA Standards Board Ops Manual 5.3.3.3)
- Please observe proper decorum in meetings
- Please Mute yourself when not speaking
- Please turn your video off

Goals for the meeting

- Presentations and Motions to progress the PAR and CSD
- Review potential text for Objectives

Big ticket items

- N/A

ISAAC Study Group General Information

- Study Group Organization
  - Jon Lewis, Chair
  - George Zimmerman, Recording Secretary
  - Natalie Wienckowski, Chief Editor
- Project Documentation
  - PAR:
  - CSD:
  - Objectives:
- Web and Reflector Information
  - Webpage: https://www.ieee802.org/3/ISAAC/index.html
  - Reflector: stds-802-3-ISAAC-request@listserv.ieee.org
  - 802.3 Calendar: https://www.ieee802.org/3/calendar.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
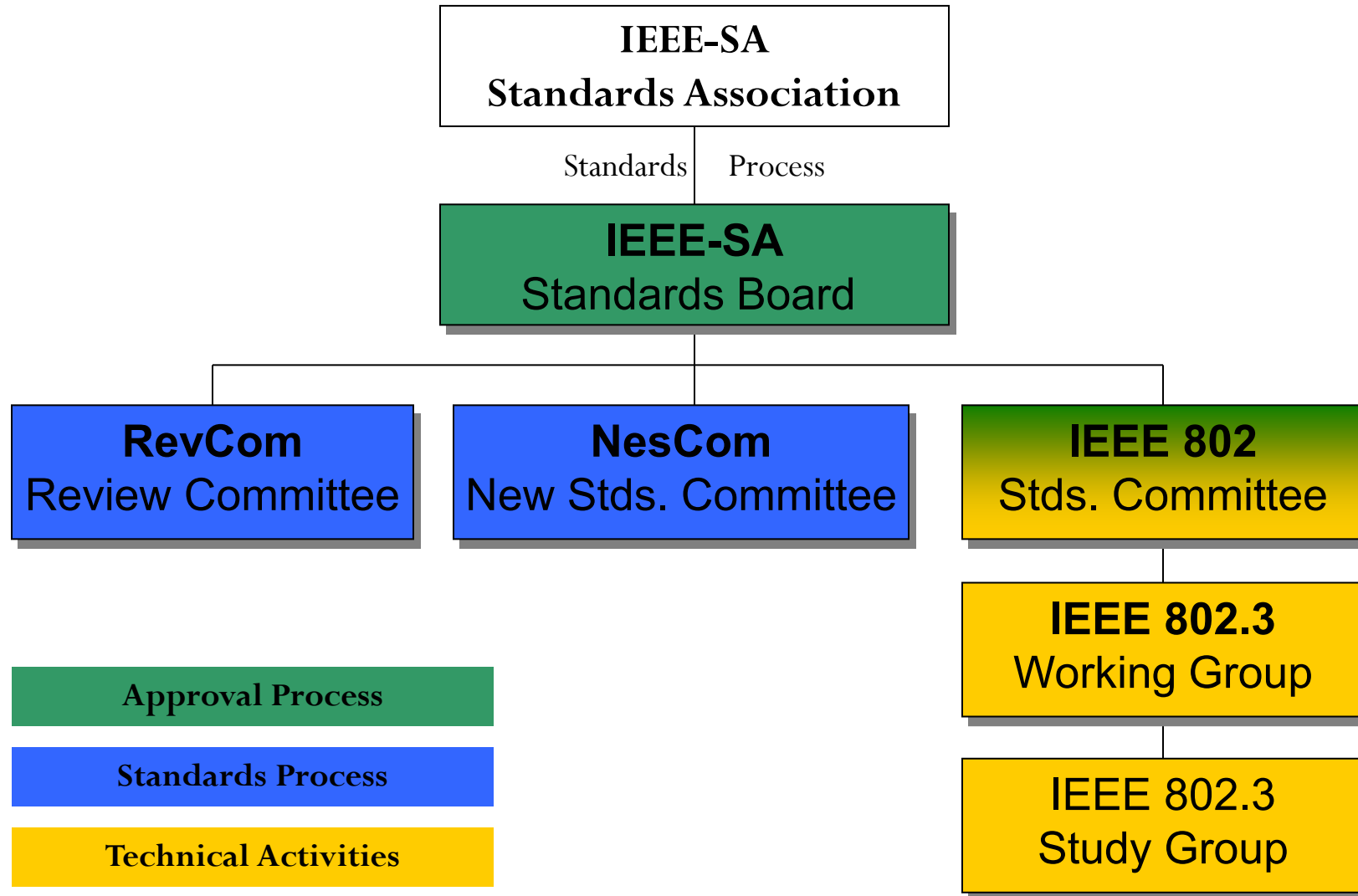- NO restrictive notices

Study Group Voting (Motions)

- Motions will be taken first by unanimous consent.

- If that isn't possible then we will move to a roll call vote.

- Roll Call Vote procedure:

  - Use Zoom Polling feature for the initial vote.

  - Once the vote is closed the Chair will pull the report and display the results, scrolling through the list as necessary.

    - Allows everyone to review their vote.

    - Allows those not able to vote in the poll (e.g., driving) to have their vote added.

  - The Chair will then announce the results of the motion and send the results of the roll call vote to the ISAAC reflector

  - All Voting requires >= 75% to pass.

Study Group Voting (Straw Polls)

- Anyone on the call may vote.

  – Used for consensus building ☺

- Zoom Polling will be used for the voting.

- In all cases, regardless of any membership rules that may or may not be in force, all participants who feel qualified may participate in a straw poll

Note – Chair reserves the right to take informative straw polls by 802.3 WG voting membership

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 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

    If you have questions, contact the IEEE SA Standards Board Patent Committee Administrator at **patcom@ieee.org**

IEEE SA STANDARDS ASSOCIATION

08 June 2021

IEEE

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 STANDARDS ASSOCIATION

◆IEEE 2

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 STANDARDS ASSOCIATION

◈IEEE   3

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
- IEEE SA Best Practices for IEEE Standards Development
  - http://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/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

IEEE SA STANDARDS ASSOCIATION

◆IEEE 4

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
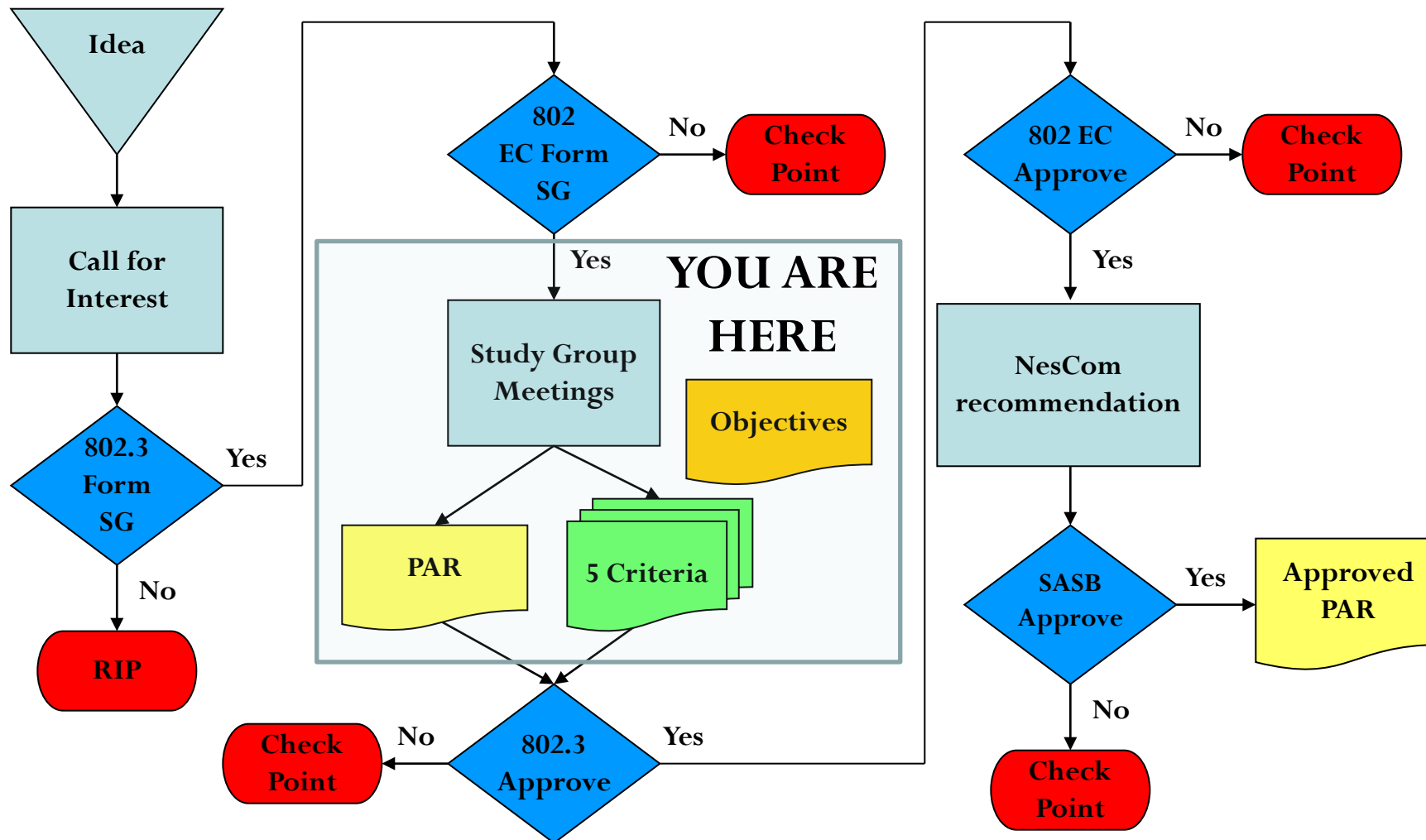
- The IEEE-SA Standards Board Bylaws (clause 5.2.1.3) specifies that "*the standards development process shall not be dominated by any single interest category, individual, or organization*"

  – 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

Attendance

- IMAT will be used for attendance at this meeting.
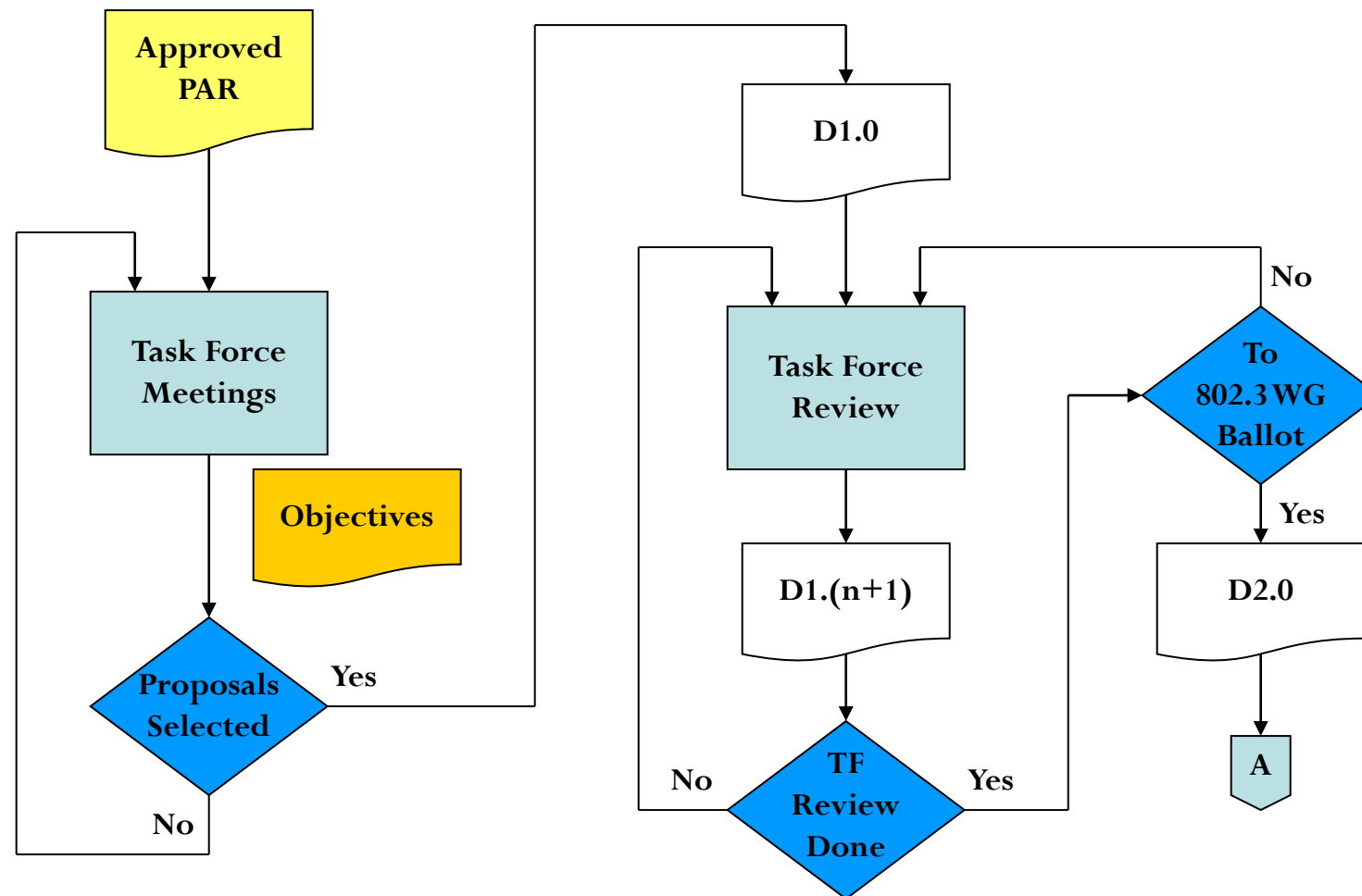
- https://imat.ieee.org/

- Session Code: ******

- Please make sure you affiliation/employer are correct
  - https://www.ieee802.org/3/minutes/sep23/0923_imat.pdf (pages 24/25)

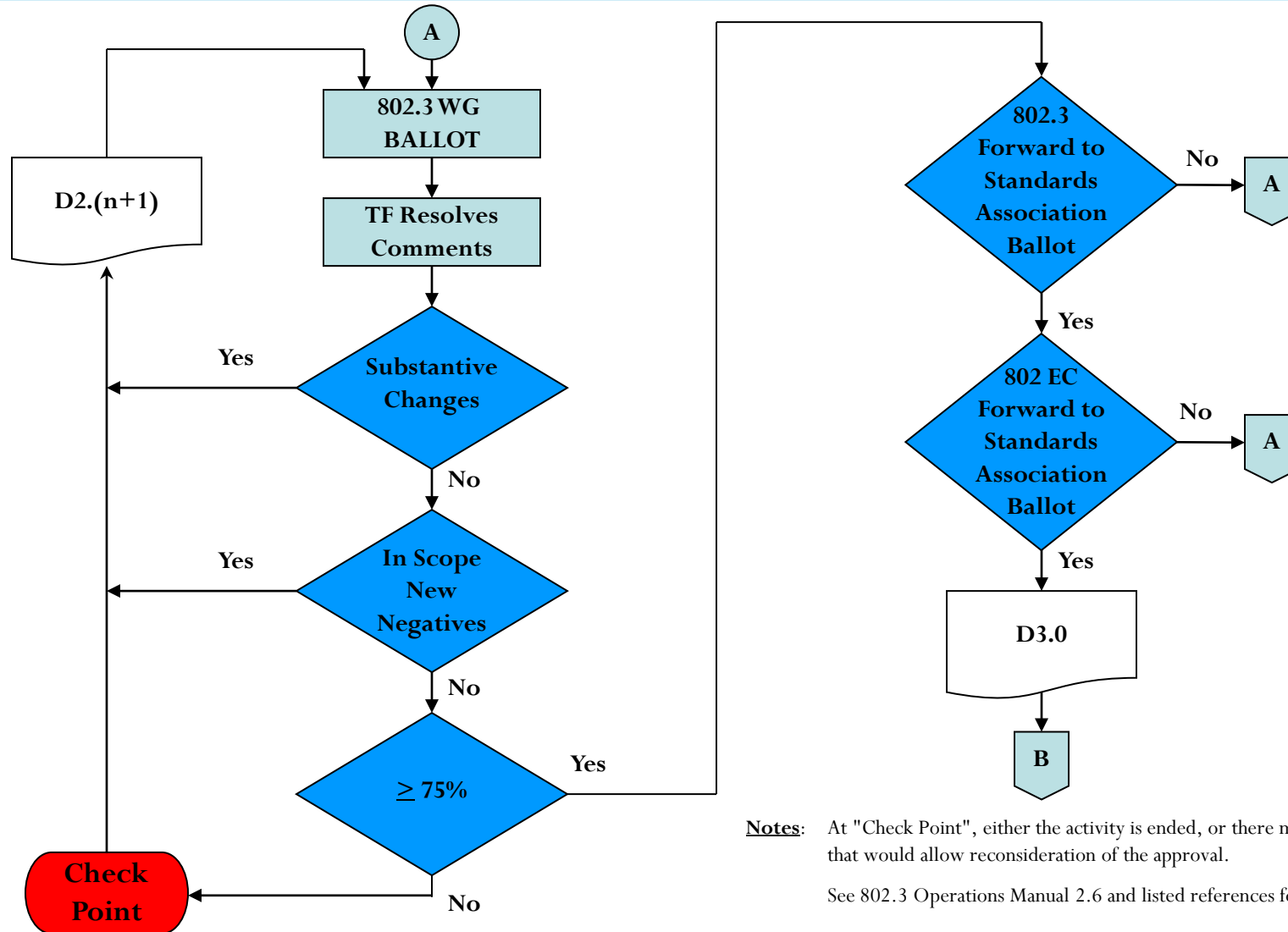# Overview of IEEE 802.3 Standards Process (1/5)- Study Group Phase

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

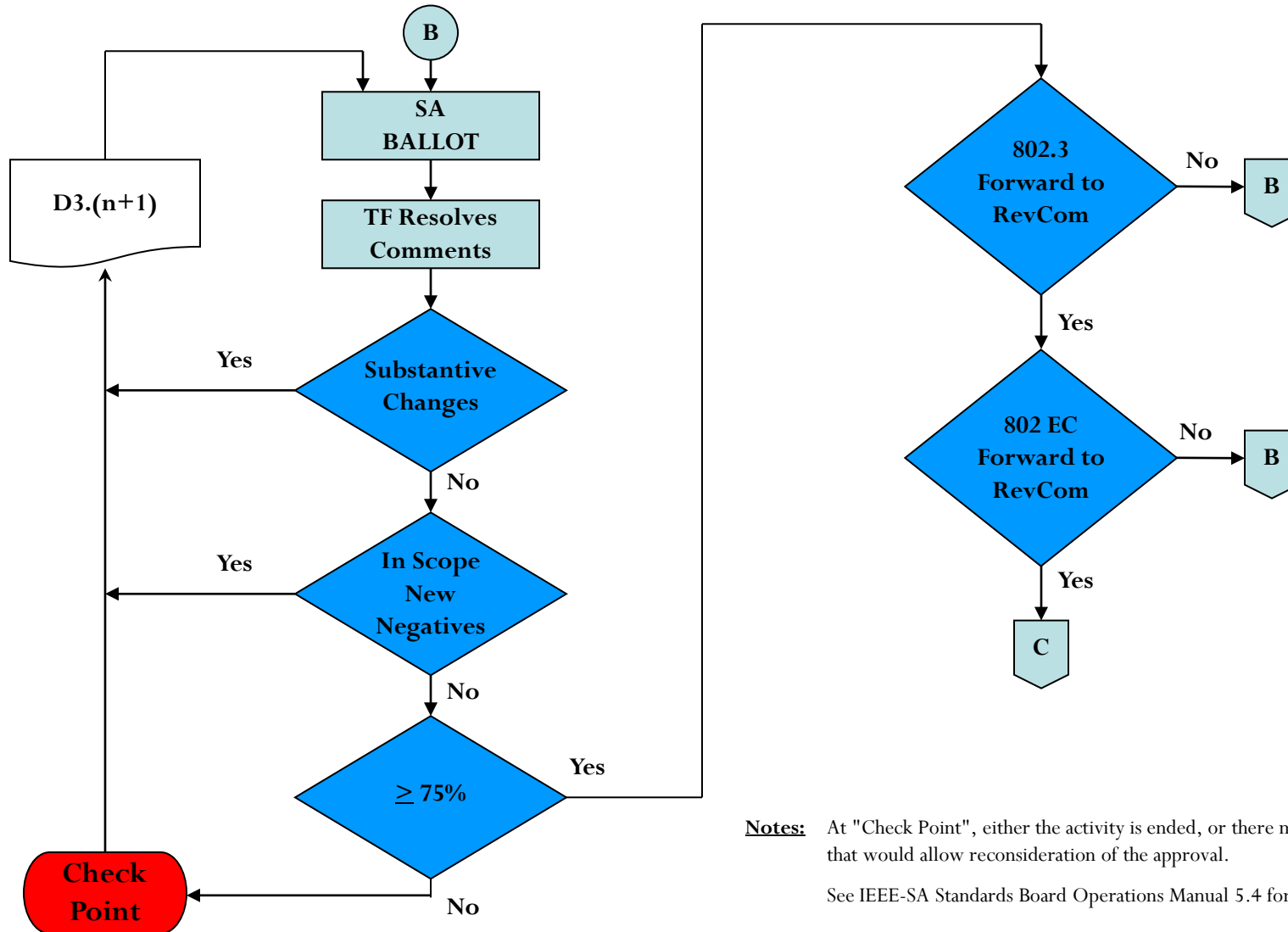# Overview of IEEE 802.3 Standards Process (2/5) – Task Force Comment Phase

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.
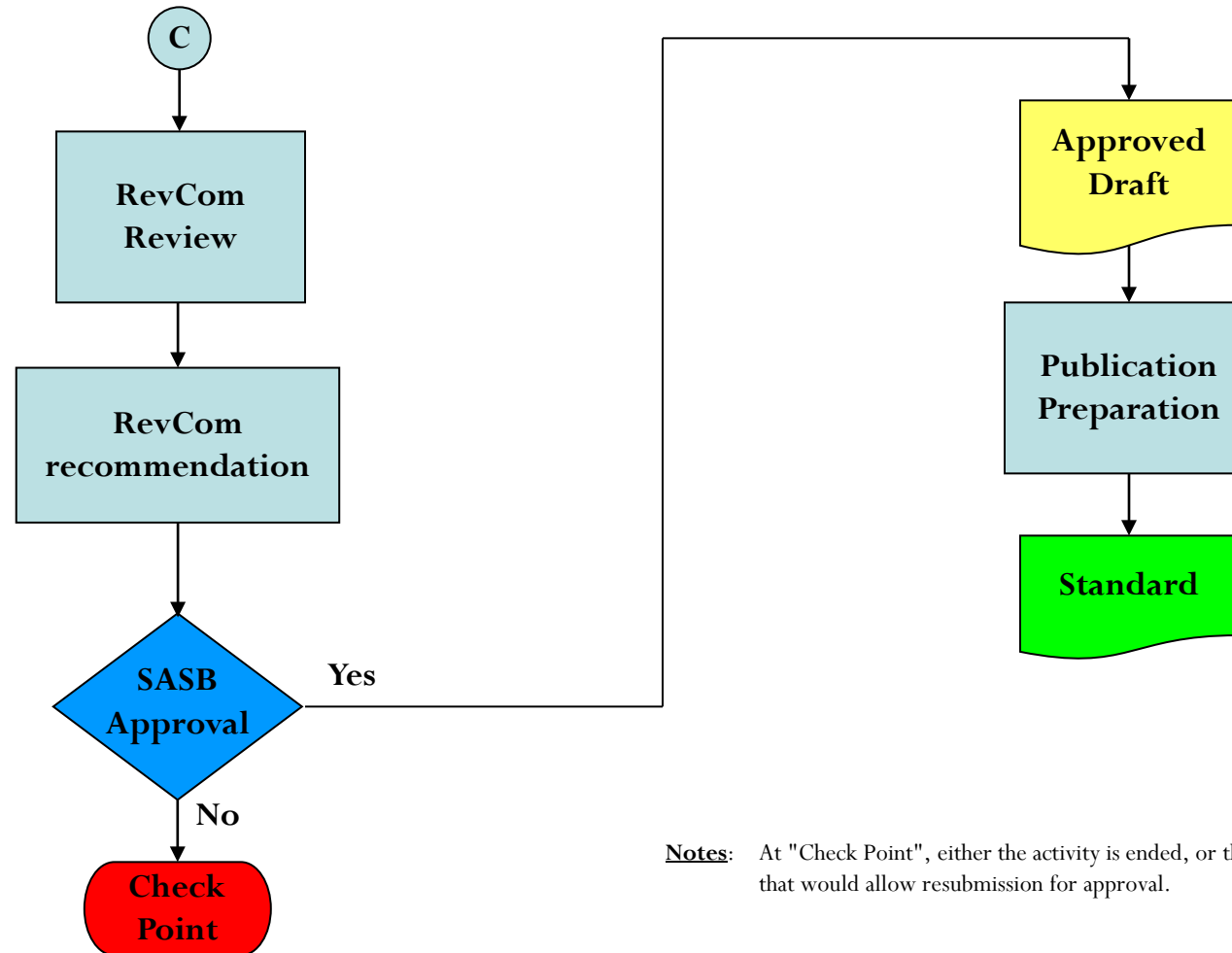
See 802.3 Operations Manual 2.6 and listed references for complete description

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.

Liaisons

- None

Presentation Procedures

- All Presenters will have 15 minutes for the presentation and Q&A.
  - Each presentation question/answer will have a maximum of 2 minutes. Upon expiration you may get back into the queue.
  - Once the 45 minutes expires, we will move on to the next presentation regardless of the queue.
  - Additional questions and consensus can be completed using the reflector.

Presentations

Title	Presenter(s)	Affiliation(s)
Agenda	Jon Lewis	Dell Technologies
Meeting Presentations		
EEE for ISAAC	Kamal Dalmia	Aviva Links
Questions and responses to help move forward with PAR and objectives	Kirsten Matheus	BMW
Automotive Cameras and 25Gbps (01b)	Conrad Zerna	Aviva Links
Preliminary Feasibility Study for 25Gbps over Coaxial Channels	German Feyh	Broadcom
Why the PAR should not preclude 25G (01a)	Natalie Wienckowski	Independent
Considerations for a 1 Gbps downlink PHY (Continued)	Kirsten Matheus	BMW
On the Pros and Cons of Adding 1Gbps Downstream Data Rate	Ragnar Jonsson	Marvell
Other Business		

Future Meetings

- January 22-25, 2024: St. Petersburg, FL, USA
  - 1/22: 13:00 – 18:00
  - 1/23: 08:00 – 12:00

- February 7, 2024: 08h00-10h50 CDT (contingent)
  - **Last day to pre-circulate for March plenary**

- March 11-14, 2024: Denver, CO, USA

- Registration is required for January 22-25 and March!
  - https://www.ieee802.org/3/interims/index.html

MOTIONS AND STRAW POLLS

BACKUP

SG Voting Details

- Subclause 4.4.1 'Voting at Study Group Meetings' of the IEEE 802.3 Ethernet Working Group Operations Manual (OM) says that 'Any person attending a Study Group meeting may participate in SG discussions, make motions and vote on all motions'

- Subclause 3.4.2 'Voting' of the OM says that for electronic Task Force meetings, 'If a motion is not approved by unanimous consent it shall be taken as a roll call vote.'