Agenda and General Information

**IEEE P802.3dj
Task Force
COM Ad hoc**

16 April 2024

**Kent Lusted
Chair, Ad hoc
Intel Corporation**

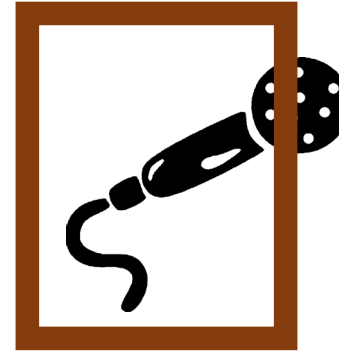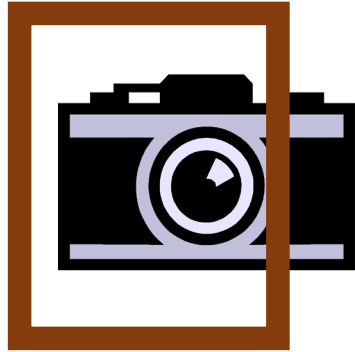# IEEE P802.3dj Ad Hoc Electronic Meeting

- **Please sign into IMAT to record Meeting attendance**
- **Agenda**
  - **Approve Agenda**
  - **Review IEEE SA Policies (http://ieee802.org/3/policies.html / included)**
    - **IEEE SA Patent Policy**
    - **IEEE SA Copyright Policy**
    - **IEEE SA Participation Policy and Code of Ethics**
  - **Presentations/Discussion**
    - **see slide 7**
  - **Future Meetings**

* Note – additional slides covering procedures and IEEE-SA Policies are in Backup

IEEE P802.3dj Task Force Project information

- **Organization**
    - **John D'Ambrosia, Chair, IEEE P802.3dj Task Force**
    - **Mark Nowell, Vice-Chair, IEEE P802.3dj Task Force; Chair, Optics Track**
    - **Kent Lusted, Secretary, Chair, Electrical Track**
    - **Matt Brown, IEEE P802.3dj Chief Editor**
    - **Gary Nicholl, Chair, Architecture and Logic Track**

- **Task force web and reflector information:**
    - Home page: **https://www.ieee802.org/3/dj/index.html**
    - Reflector Info - **https://www.ieee802.org/3/df/reflector.html**
        - TF Reflector: **stds-802-3-b400g@listserv@ieee.org**
        - Logic Reflector: **stds-802-3-b400g-logic@listserv@ieee.org**
        - Optical Reflector: **stds-802-3-b400g-optx@listserv@ieee.org**
        - Electrical Reflector: **stds-802-3-b400g-elec@listserv@ieee.org**

- **Project Documentation –**
    - PAR : **https://www.ieee802.org/3/dj/projdoc/P802d3dj_PAR.pdf**
    - CSD: **https://mentor.ieee.org/802-ec/dcn/22/ec-22-0256-00-ACSD-p802-3dj.pdf**
    - Objectives: **https://www.ieee802.org/3/dj/projdoc/objectives_P802d3dj_240314.pdf**
    - Adopted Timeline: **https://www.ieee802.org/3/dj/projdoc/timeline_3dj_231128.pdf**

- **P802.3dj TF meeting information may be found on:**
    - Public page: **https://www.ieee802.org/3/dj/public/index.html**
    - 802.3 Calendar: **https://www.ieee802.org/3/calendar.html**

Meeting 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. (Jan 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 (Jan 2019 IEEE-SA Standards Board Ops Manual 5.3.3.3)**
- **Cell phone ringers off**
- **Please observe proper decorum in meetings**
- **Please mute your self when not speaking**
- **Please turn video off**

Review of IEEE SA Policies

- **Policies**
  - **Patent Policy (slides 23-28)**
  - **Copyright Policy (slides 29-32)**
  - **Participation (slides 33-36)**
- **See Backup for slides**
- **Latest policies available at https://www.ieee802.org/3/policies.html**

Ad Hocs

1.   Architecture and Logic Ad hoc – Gary Nicholl, Ad Hoc Chair

Charter: The Architecture and Logic Ad Hoc is chartered to address the following:

1) Develop terminology and definitions for terms related to architecture, including but not limited to FEC Architecture, FEC Scheme, End-to-end FEC, Segmented FEC, Concatenated FEC. .

2) Act as forum to discuss architectural requirements and consider proposals related to PCS, FEC, and PMA logic sublayers.

2.   Electrical Ad Hoc – Kent Lusted, Ad Hoc Chair

Charter: The Electrical Ad Hoc is chartered to address the following:

1) Act as forum to discuss and consider technical proposals and contributions:

   a. Related to electrical interfaces and electrical PMD sublayers

   b. Related to logic PCS, FEC, and PMA sublayers that may impact electrical interfaces and electrical PMD sublayers

   c. Electrical interfaces and electrical PMD nomenclature

2) Provide inputs based on electrical interfaces and electrical PMD sublayers into any relevant ad hocs

3.   Optics Ad Hoc – Mark Nowell, Ad Hoc Chair

Charter: The Optical Ad Hoc is chartered to address the following:

1) Act as forum to discuss and consider technical proposals and contributions:

   a. Related to optical PMD sublayers

   b. Related to logic PCS, FEC, and PMA sublayers that may impact optical PMD sublayers

   c. Optical PMD nomenclature

2) Provide inputs based on optical PMDs into any relevant ad hocs

4.   COM Ad Hoc – Kent Lusted, Ad Hoc Chair

Charter: The COM Ad Hoc is chartered to address the following:

1) Act as a forum to discuss and consider technical proposals and contributions related to the implementation and execution of TF adopted features and functionality in the Channel Operating Margin (COM) code, including code architecture and sub-routine functions.

2. Identify, collect, verify, and fix COM code-related issues stemming from 3dj TF implemented features and functions.

Presentations/Discussions

- **Presentations**
  - **"COM Commit Requests: 4p4_4 – 16 April 2024", Rich Mellitz**
  - **"Commit requests for COM 4.5", Adam Healey and Raj Hegde**

Voting

- As an ad hoc, no decisions (i.e. motions) will be made but it is possible to conduct straw polls to test the group's consensus on certain topics.
  -

- Anyone on the call that feels qualified may vote on a straw poll
  - Task Force chair may request a straw poll by 802.3 voters for informative purposes

Future Ad hoc Meetings

- **Joint Optics / Logic**
    - **11 Apr 2024, 10 – 1:00pm ET**
    - **25 Apr 2024, 10 – 1:00pm ET**

- **Electrical**
    - **2 May 2024, 9:30 – 12:30pm ET**

- **Joint Electrical/Optics/ Logic**
    - **18 Apr 2024, 9:30 – 12:30pm ET**

- **COM**
    - **9 Apr, 16 Apr, 23 Apr, 30 Apr; 7-730am Pacific**

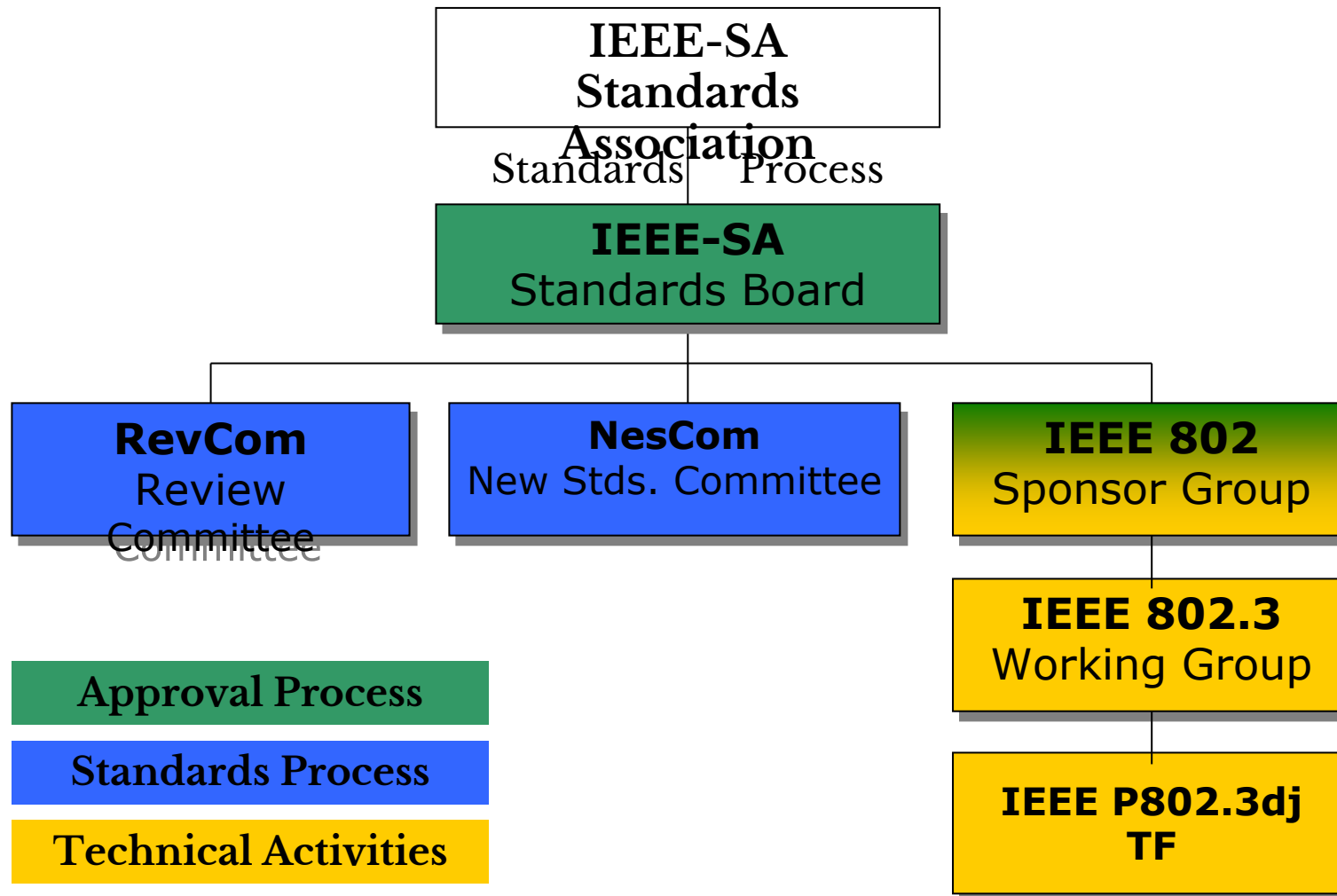**See https://www.ieee802.org/3/calendar.html**

THANK YOU!

BACKUP

IEEE P802.3dj Task Force Organization

	Leadership	Editorial Team
Task Force	John D'Ambrosia, Chair Mark Nowell, Vice-Chair	Matt Brown, Chief Editor
Logic Track	Gary Nicholl, Chair	Gary Nicholl, Lead Editor
Optics Track	Mark Nowell, Chair	Tom Issenhuth, Lead Editor
Electrical Track	Kent Lusted, Chair	Adee Ran, Lead Editor

The Role of the Chair / Vice Chair

- **Per the IEEE 802.3 Ethernet WG Operations Manual (http://www.ieee802.org/3/rules/P802_3_rules.pdf)**

  - **Per 3.4 - Operation of the Task Force**

    - **The operation of the TF has to be balanced between democratic procedures that reflect the desires of the TF members and the TF Chair's responsibility to produce a draft standard, recommended practice, or guideline in a reasonable amount of time for review and approval by the WG. Robert's Rules of Order shall be used in combination with these operating rules to achieve this balance.**

  - **The full responsibilities of the chair are specified in 3.4.3 Task Force Chair's Responsibilities.**

  - **The Role of the Vice Chair is specified in 3.2 –**

    - **There may be a TF Vice-Chair. A TF Vice-Chair carries out the TF Chair's duties if the TF Chair is temporarily unable to do so or chooses to delegate specific duties.**

- **Reminders –**
  - **We are a contribution driven organization.   It should not be assumed by anyone that work will just get done without contributions to drive it. Areas not moving forward will be brought to the attention of the Task Force for consideration on how to address.**
  - **Individual standards activities within the WG are, at the discretion of the WG, carried out by Task Forces (TF) operating under, and reporting to, the WG.**
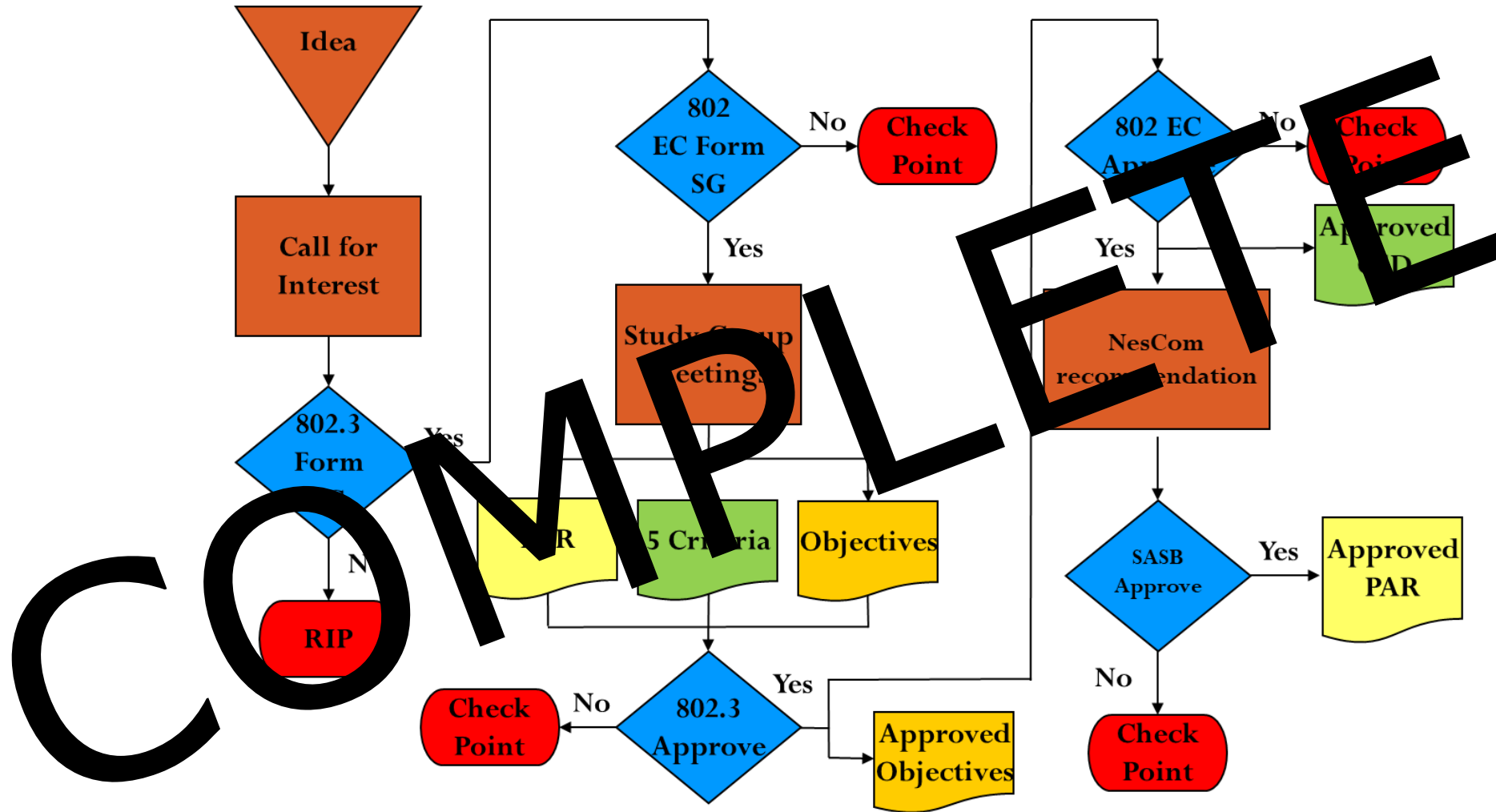
IEEE Structure

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                    ┌─────────────────────┐
                    │      IEEE-SA        │
                    │     Standards      │
                    │    Association     │
                    └─────────┬──────────┘
              Standards    Process
                    ┌─────────┴──────────┐
                    │      IEEE-SA       │
                    │  Standards Board   │
                    └─────────┬──────────┘
        ┌────────────────────┼────────────────────┐
┌───────────────┐   ┌───────────────┐   ┌───────────────┐
│    RevCom     │   │    NesCom     │   │   IEEE 802    │
│    Review     │   │ New Stds.     │   │ Sponsor Group │
│   Committee   │   │  Committee    │   └───────┬───────┘
└───────────────┘   └───────────────┘   ┌───────────────┐
                                        │   IEEE 802.3  │
                                        │ Working Group │
                                        └───────┬───────┘
                                        ┌───────────────┐
                                        │ IEEE P802.3dj │
                                        │      TF       │
                                        └───────────────┘
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| Approval Process |
| Standards Process |
| Technical Activities |

Important Bylaws, Rules, and References

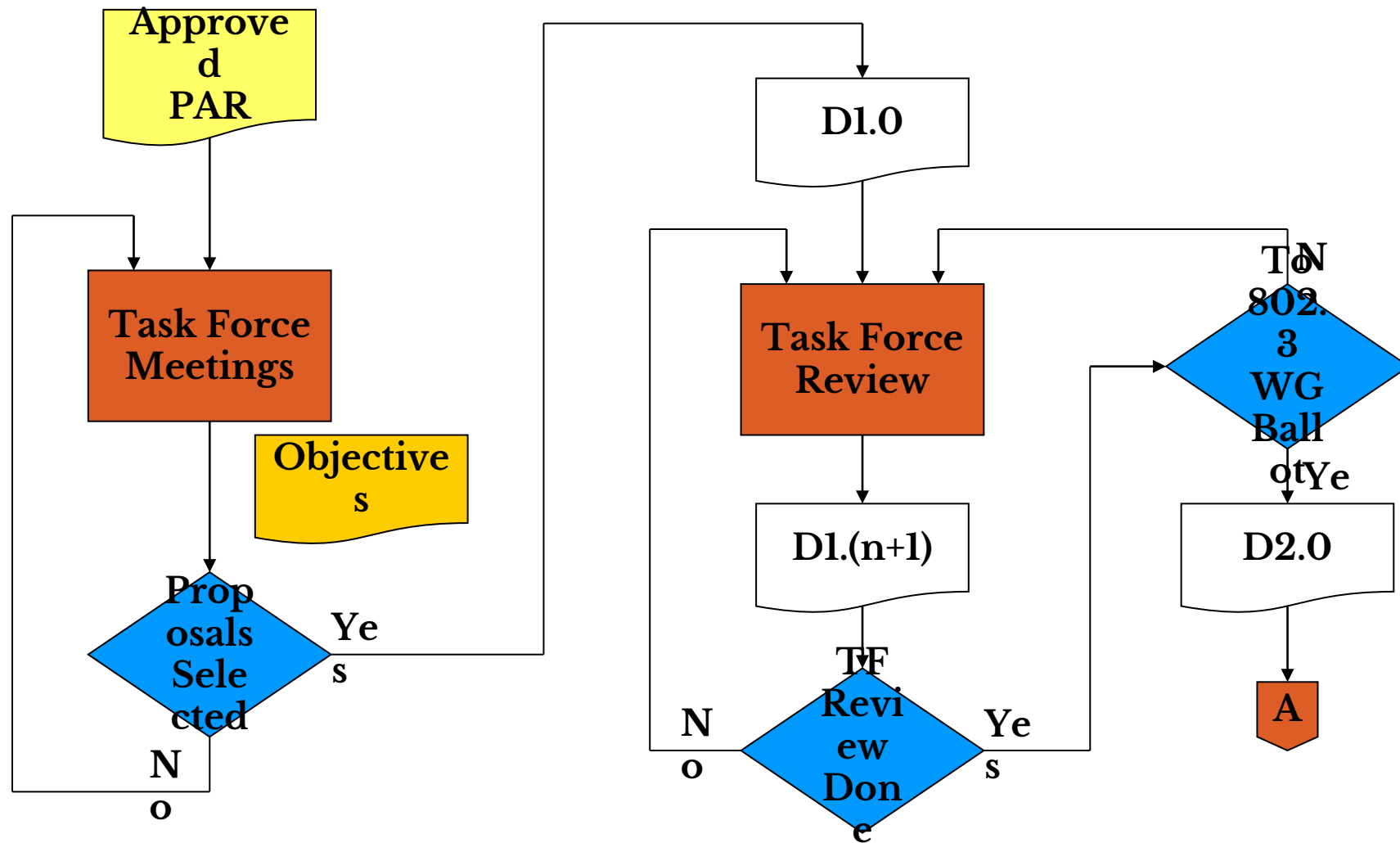- **IEEE-SA Operations Manual
  http://standards.ieee.org/develop/policies/sa_opman/**
- **IEEE-SA Standards Board Bylaws
  http://standards.ieee.org/develop/policies/bylaws/**
- **IEEE-SA Standards Board Operations Manual
  http://standards.ieee.org/develop/policies/opman/**
- **IEEE 802 LAN/MAN Standards 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**

- **"Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy"
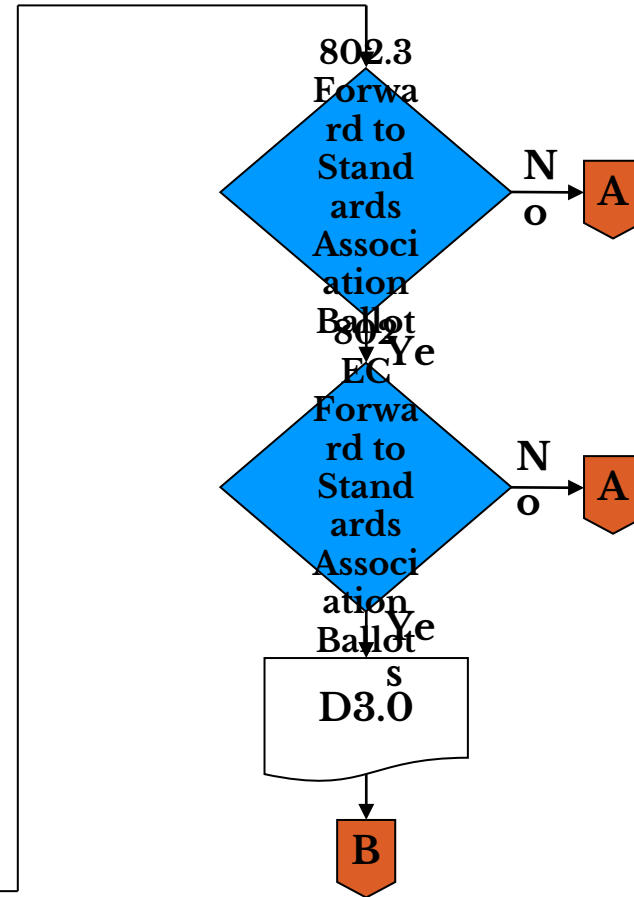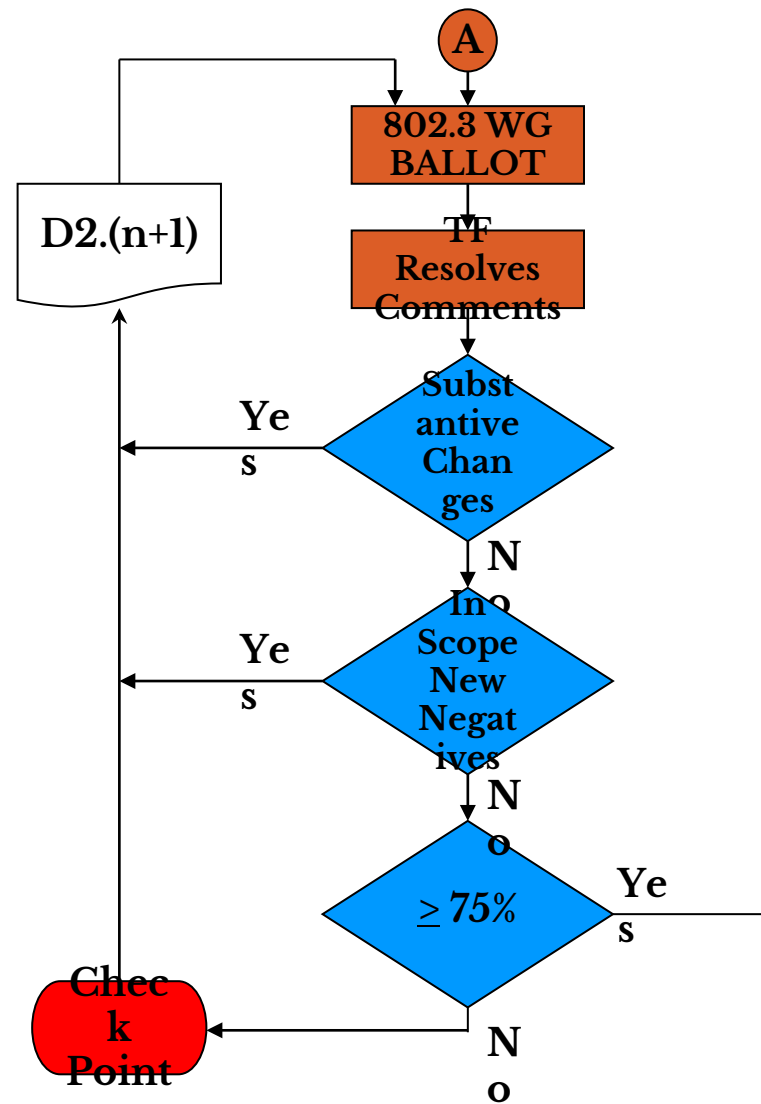 http://standards.ieee.org/develop/policies/antitrust.pdf**

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
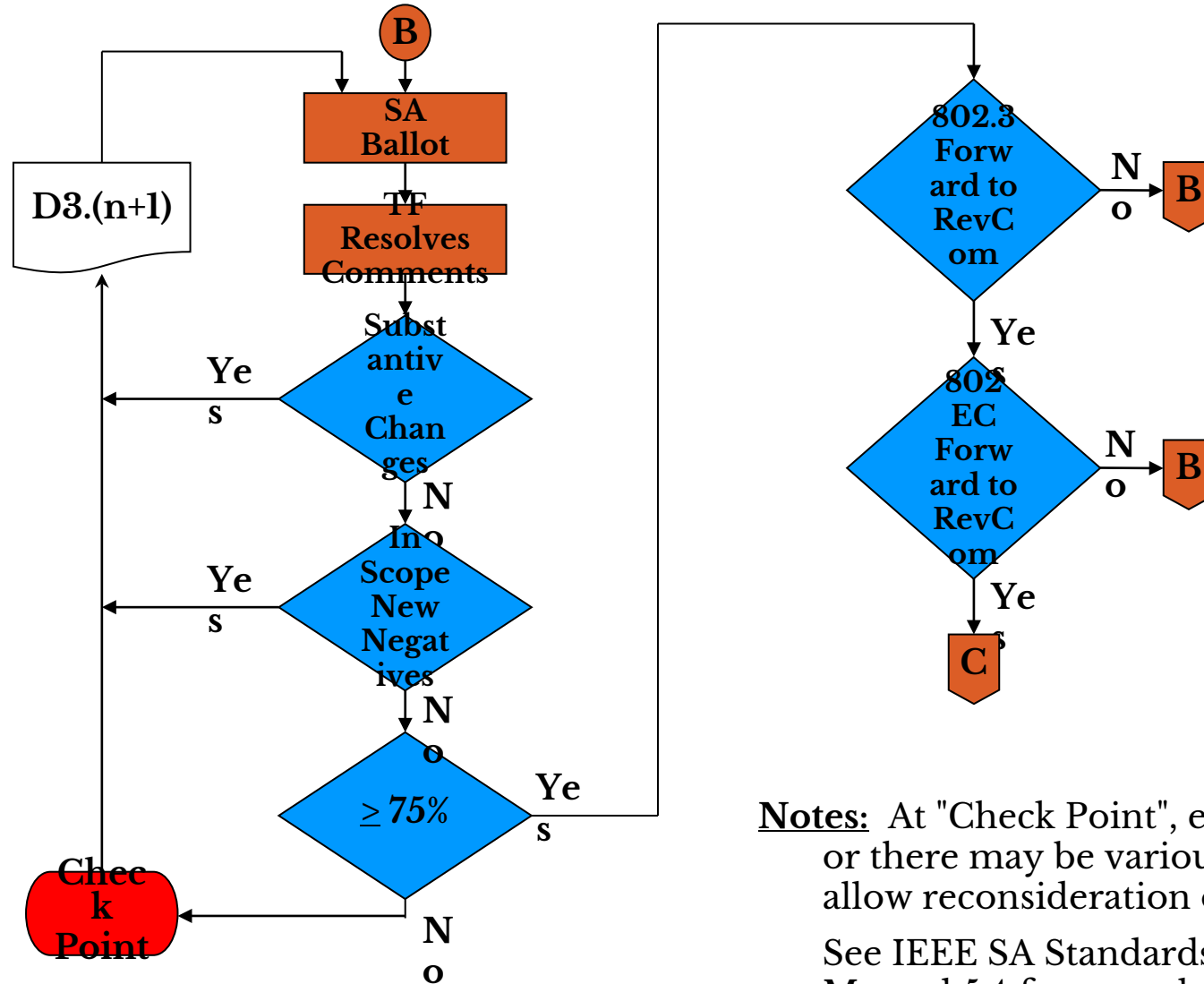
A

802.3 WG BALLOT

TF Resolves Comments

D2.(n+1)

Substantive Changes — Yes

No

In Scope New Negatives — Yes

No

≥ 75% — Yes

No

Check Point

802.3 Forward to Standards Association Ballot — No → A

Yes

802.1 EC Forward to Standards Association Ballot — No → A

Yes

D3.0

B

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 Operating Rules 2.6 and listed references for complete description
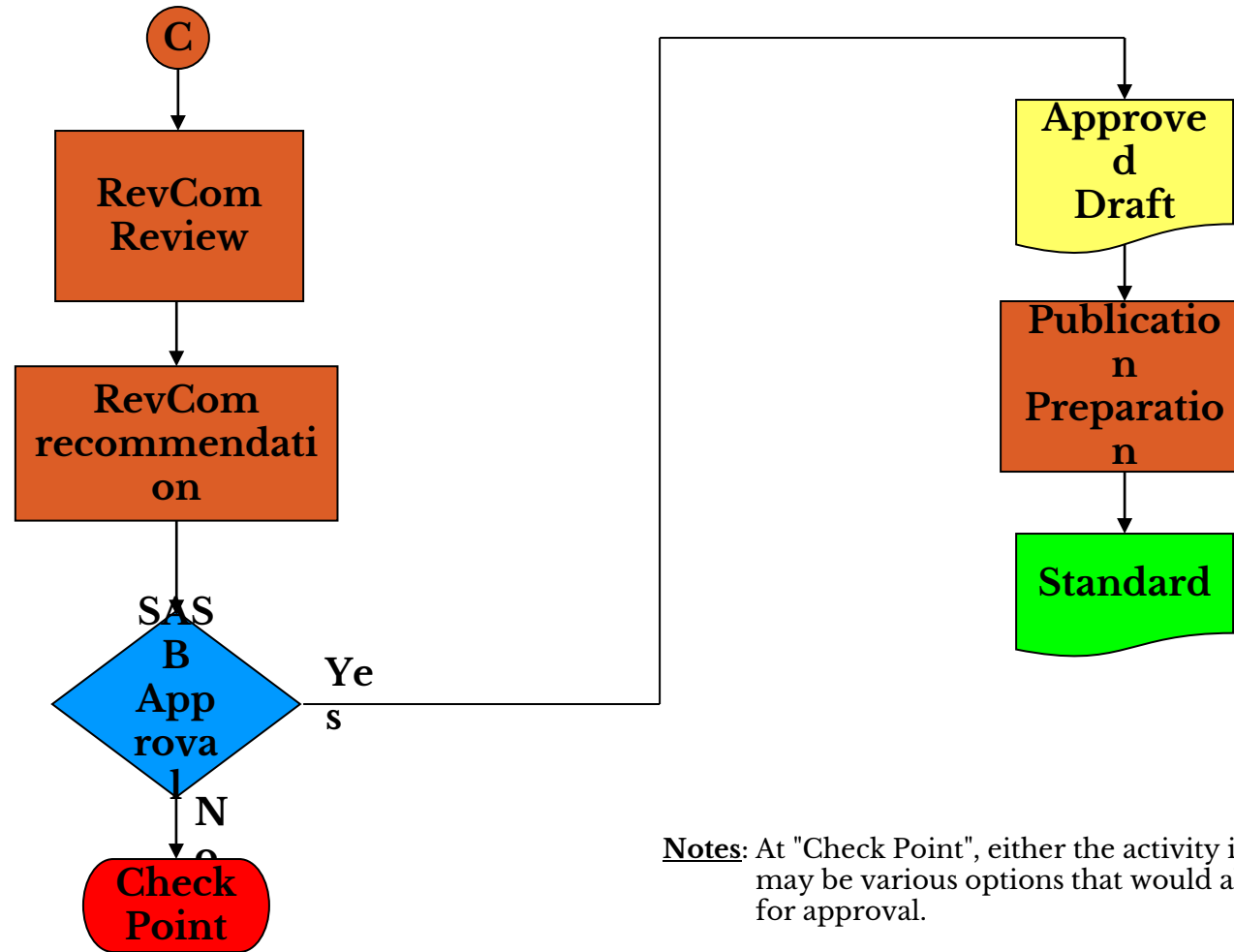
Overview of IEEE 802.3 Standards Process (4/5)- Standards Association (SA) Ballot Phase

B

SA Ballot

TF Resolves Comments

Substantive Changes

D3.(n+1)

Yes

No

In Scope New Negatives

Yes

No

≥ 75%

Yes

No

Check Point

802.3 Forward to RevCom

No → **B**

Yes

802 EC Forward to RevCom

No → **B**

Yes

C

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 Operation 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.

IEEE SA POLICIES

IEEE SA PATENT POLICY

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 <u>shall</u> 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 <u>should</u> 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

IEEE SA COPYRIGHT POLICY

November 2019

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

IEEE SA PARTICIPATION SLIDES

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