

# Agenda and General Information

**Joint Session -  
IEEE P802.3cw Task Force  
IEEE P802.3df Task Force  
IEEE P802.3dj Task Force**

**IEEE 802 Nov 2023 Plenary  
Honolulu, HI, USA**

**John D'Ambrosia,  
Chair, IEEE P802.3cw Task Force  
Chair, IEEE P802.3df Task Force  
Chair, IEEE P802.3dj Task Force  
Futurewei, U.S. Subsidiary of Huawei**



# Non-payment of registration fees

**Every attendee (Face-to-Face or Remote) at any IEEE 802 meeting during the Nov 2023 IEEE 802 Plenary meeting series must register and pay a fee to participate**

## **If the individual is in arrears:**

**[1] The individual is not permitted to register for any future IEEE 802 Plenary or IEEE 802 Subgroup Interim (if registration is required).**

**[2] As a result of [1], the individual is not permitted to attend any portion of a technical meeting that is part of an IEEE 802 plenary session. They are also not permitted to attend any portion of a technical meeting that is part of an IEEE 802 Subgroup Interim if that IEEE 802 Subgroup Interim required registration.**

# Joint Task Force Meetings

- **Per Motion #8 approved @ IEEE 802.3 Closing, Mar 2023** (see minutes @ [https://www.ieee802.org/3/minutes/mar23/0323\\_minutes\\_draft.pdf](https://www.ieee802.org/3/minutes/mar23/0323_minutes_draft.pdf))
  - **Move that the IEEE 802.3 Working Group grant approval for the P802.3cw Task Force to meet with P802.3df / P802.3dj Task Forces to take motions during any joint meeting between these task forces only**
- **Joint Task Force meetings will be announced**

# Joint IEEE P802.3cw / .3df / .3dj Task Force Session Agenda

- Approve Agenda
- Approve Minutes (see next page)
- Decorum
- Attendance
- Task Forces Project Information
- Goals For Session
- Ground Rules
- Voting / Voting Rights
- Review IEEE SA Policies (<http://ieee802.org/3/policies.html> / included) \*
  - IEEE SA Patent Policy
  - IEEE SA Participation Policy
  - IEEE SA Copyright Policy
- Liaisons Overview
- 802.3dj Baseline Status
- Ad hocs – Summary
- 802.3cw
  - CSD Update & Affirmation Motion
- 802.3df – Bucket Motion Approval
- 802.3dj Presentations
- 802.3df D3.1
  - Comment consideration & Supporting Presentations
  - Next Steps (D3.2 Generation, Conditional Approval to submit to RevCom) Motions
- 802.3dj Presentations
- 802.3dj Discussion, Strawpolls, Motions
- Future Meetings
  - Task Force
  - Ad hocs
- Closing Business

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

# Minutes to be Approved

## ■ IEEE P802.3cw

- 01 Nov 2023 Interim Session -

[https://www.ieee802.org/3/cw/public/23\\_1101/minutes\\_3cw\\_a\\_231101\\_unapproved.pdf](https://www.ieee802.org/3/cw/public/23_1101/minutes_3cw_a_231101_unapproved.pdf)

## ■ IEEE P802.3df

- 26<sup>th</sup>-28<sup>th</sup> Sept Interim Session -

[https://www.ieee802.org/3/df/public/23\\_0926/minutes\\_3df\\_230926\\_unapproved.pdf](https://www.ieee802.org/3/df/public/23_0926/minutes_3df_230926_unapproved.pdf)

## ■ IEEE P802.3dj

- Sept 2023 Joint IEEE P802.3cw / df / dj Interim Session -

[https://www.ieee802.org/3/dj/public/23\\_09/minutes\\_3cwdfdj\\_2309\\_unapproved.pdf](https://www.ieee802.org/3/dj/public/23_09/minutes_3cwdfdj_2309_unapproved.pdf)

- 21 Sept 2023 Interim Session -

[https://www.ieee802.org/3/dj/public/23\\_0921/minutes\\_3dj\\_230921\\_unapproved.pdf](https://www.ieee802.org/3/dj/public/23_0921/minutes_3dj_230921_unapproved.pdf)

- Electrical Ad hoc – 26 Oct 2023 -

[https://www.ieee802.org/3/dj/public/adhoc/electrical/23\\_1026/minutes\\_3dj\\_elec\\_231026\\_unapproved.pdf](https://www.ieee802.org/3/dj/public/adhoc/electrical/23_1026/minutes_3dj_elec_231026_unapproved.pdf)

- Joint 802.3df logic / 802.3dj logic / 802.3dj optical Ad hoc – 02 Nov 2023 -

[https://www.ieee802.org/3/dj/public/adhoc/optics/1023\\_OPTX/minutes\\_3dj\\_optx\\_231102\\_unapproved.pdf](https://www.ieee802.org/3/dj/public/adhoc/optics/1023_OPTX/minutes_3dj_optx_231102_unapproved.pdf)

# 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. (Feb 2023 IEEE-SA Standards Board Ops Manual 5.3.3.2)**
- **Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (Feb 2023 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 do not turn on video**

# Attendance

- **All attendees must register their attendance via IMAT**
  - **IMAT –**
    - **Tutorial - [http://iee802.org/3/minutes/attendance\\_procedures.pdf](http://iee802.org/3/minutes/attendance_procedures.pdf)**
    - **Access details**
      - **URL: <http://imat.ieee.org/>**
      - **802.3 Password – to be given out by chair at meeting**
  
- **Please be sure to sign-in with your name / affiliation information**
- **Zoom attendance will be used to identify remote attendance as well.**

# IEEE P802.3cw Task Force Project information

## ■ Task Force Organization

- **John D'Ambrosia, Chair, IEEE P802.3cw Task Force**
- **Editorial Team**
  - Tom Issenhuth – Chief Editor, 400 GbE Optical PHY Clause
  - Leon Bruckman - 400 GbE PCS/PMA Clauses
- **Task force web and reflector information**
  - Reflector: <http://www.ieee802.org/3/ct/reflector.html>
  - Home page: <http://www.ieee802.org/3/cw/index.html>
- **Project Documentation –**
  - PAR : [http://www.ieee802.org/3/cw/proj\\_doc/P802d3cw\\_PAR.pdf](http://www.ieee802.org/3/cw/proj_doc/P802d3cw_PAR.pdf)
  - CSD: <https://mentor.ieee.org/802-ec/dcn/19/ec-19-0219-00-ACSD-p802-3cw.pdf>
  - Objectives: [http://www.ieee802.org/3/cw/proj\\_doc/3cw\\_Objectives\\_190911.pdf](http://www.ieee802.org/3/cw/proj_doc/3cw_Objectives_190911.pdf)
  - Timeline: [https://www.ieee802.org/3/cw/proj\\_doc/timeline\\_3cw\\_220321.pdf](https://www.ieee802.org/3/cw/proj_doc/timeline_3cw_220321.pdf)
- **Ad Hoc page: <http://www.ieee802.org/3/ct/public/adhoc/index.html>**



# IEEE P802.3df 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, IEEE P802.3dj Task Force; 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/df/index.html>
- Reflector Info - <https://www.ieee802.org/3/df/reflector.html>
  - TF Reflector: [stds-802-3-b400g@listserv.ieee.org](mailto:stds-802-3-b400g@listserv.ieee.org)
  - Logic Reflector: [stds-802-3-b400g-logic@listserv.ieee.org](mailto:stds-802-3-b400g-logic@listserv.ieee.org)
  - Optical Reflector: [stds-802-3-b400g-optx@listserv.ieee.org](mailto:stds-802-3-b400g-optx@listserv.ieee.org)
  - Electrical Reflector: [stds-802-3-b400g-elec@listserv.ieee.org](mailto:stds-802-3-b400g-elec@listserv.ieee.org)

## ▪ Project Documentation –

- PAR : [https://www.ieee802.org/3/df/proj\\_doc/P802.3df\\_031222.pdf](https://www.ieee802.org/3/df/proj_doc/P802.3df_031222.pdf)
- CSD: <https://mentor.ieee.org/802-ec/dcn/21/ec-21-0306-01-ACSD-p802-3df.pdf>
- Objectives: [https://www.ieee802.org/3/df/proj\\_doc/objectives\\_P802d3df\\_221117.pdf](https://www.ieee802.org/3/df/proj_doc/objectives_P802d3df_221117.pdf)
- Adopted Timeline: [https://www.ieee802.org/3/df/proj\\_doc/timeline\\_3df\\_221004.pdf](https://www.ieee802.org/3/df/proj_doc/timeline_3df_221004.pdf)

## ▪ P802.3df TF meeting information may be found on:

- Public page: <https://www.ieee802.org/3/df/public/index.html>
- 802.3 Calendar: <https://www.ieee802.org/3/calendar.html>

# IEEE P802.3dj Task Force Project information

## ■ Organization

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- 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/df/index.html>
- Reflector Info - <https://www.ieee802.org/3/df/reflector.html>
  - TF Reflector: [stds-802-3-b400g@listserv.ieee.org](mailto:stds-802-3-b400g@listserv.ieee.org)
  - Logic Reflector: [stds-802-3-b400g-logic@listserv.ieee.org](mailto:stds-802-3-b400g-logic@listserv.ieee.org)
  - Optical Reflector: [stds-802-3-b400g-optx@listserv.ieee.org](mailto:stds-802-3-b400g-optx@listserv.ieee.org)
  - Electrical Reflector: [stds-802-3-b400g-elec@listserv.ieee.org](mailto:stds-802-3-b400g-elec@listserv.ieee.org)

## ▪ Project Documentation –

- PAR : [https://www.ieee802.org/3/dj/projdoc/P802d3dj\\_PAR.pdf](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\\_230518.pdf](https://www.ieee802.org/3/dj/projdoc/objectives_P802d3dj_230518.pdf)
- Adopted Timeline: [https://www.ieee802.org/3/dj/projdoc/timeline\\_3dj\\_230116.pdf](https://www.ieee802.org/3/dj/projdoc/timeline_3dj_230116.pdf)

## ▪ P802.3dj TF meeting information may be found on:

- Public page: <https://www.ieee802.org/3/df/public/index.html>
- 802.3 Calendar: <https://www.ieee802.org/3/calendar.html>

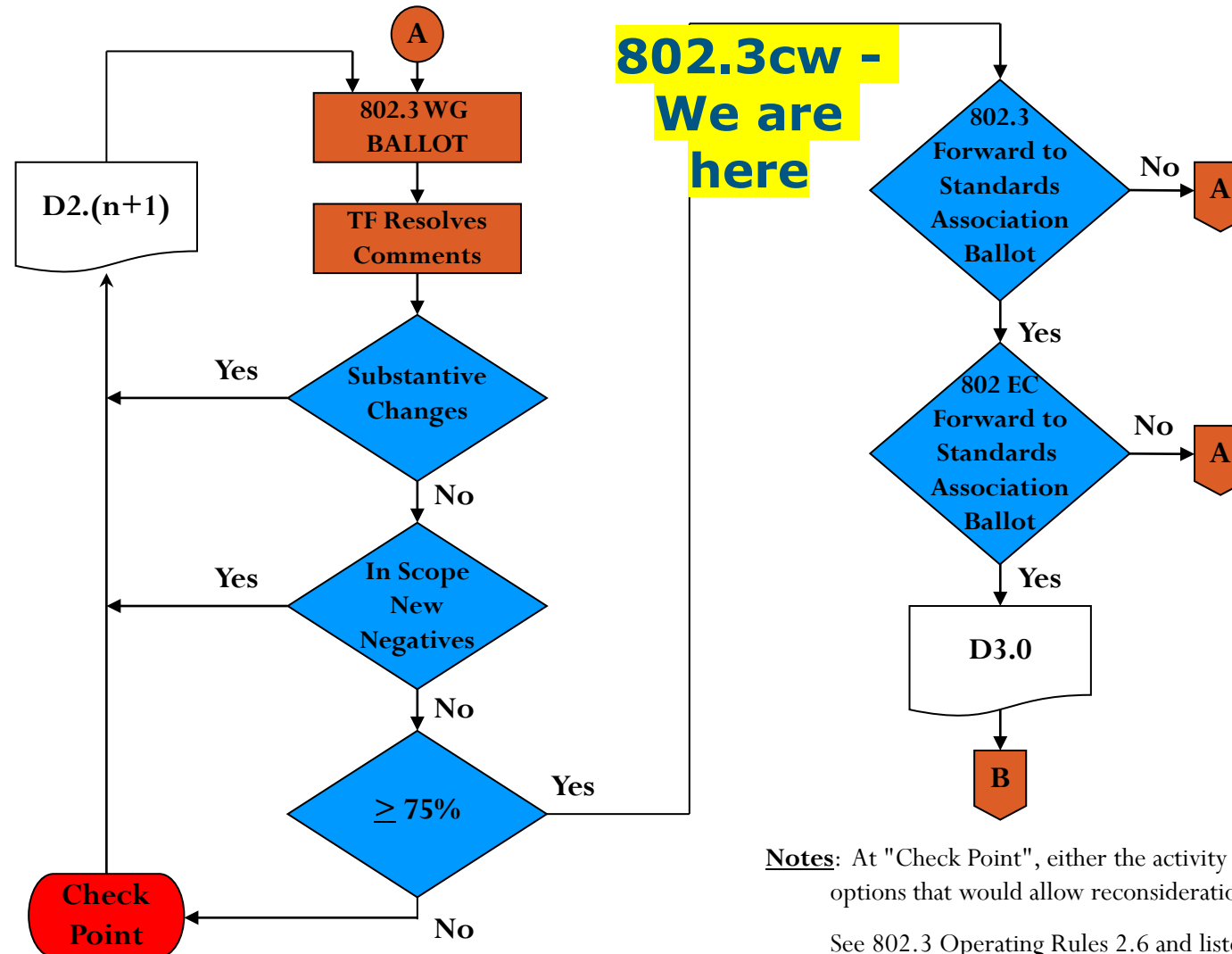
# Goals for the Session

- **IEEE P802.3cw**
  - **Modify and affirm CSD**
  - **Request conditional approval to proceed to IEEE SA Ballot**
- **IEEE P802.3df**
  - **Address comments submitted during 1st SA Recirculation ballot (D3.1)**
  - **Request approval (conditional) to submit to RevCom**
  - **Generate liaison to ITU-T regarding state of IEEE P802.3df draft**
- **IEEE P802.3dj**
  - **Technical presentations & baseline selection**
  - **Consideration of how to address AI / ML applications**
  - **Reconsider project timeline**
  - **Liaisons**
    - **Generate liaison to ITU-T regarding G.652 fibers**
    - **Consider liaison from MOPA – Time Synchronization error in PTP networks**

# 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 on straw polls, but we have to follow 802.3 Voting rules**
- **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**

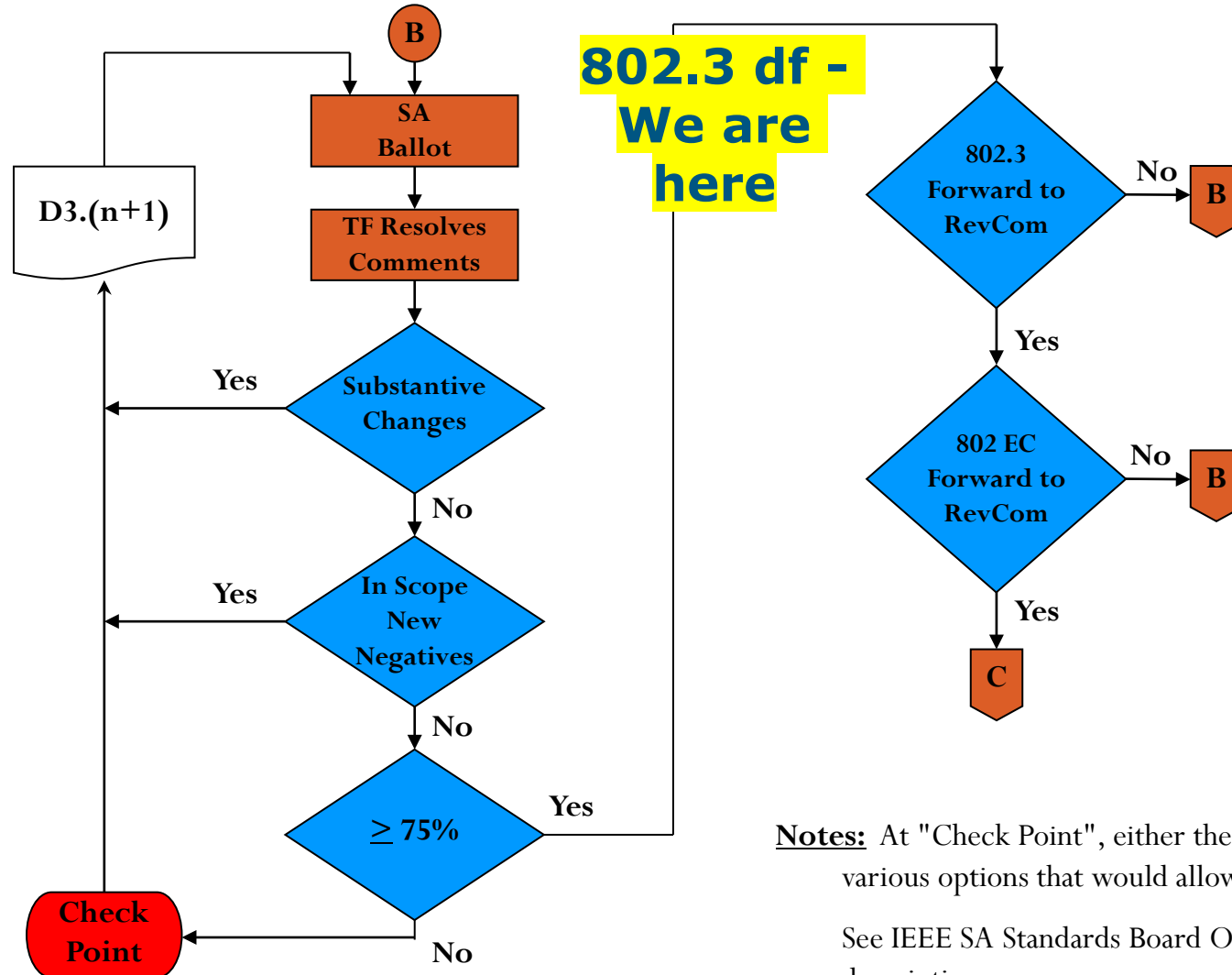
# Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase (802.3cw)



**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 (802.3df)



**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.

# IEEE SA Standards Board OPS Manual

<https://standards.ieee.org/about/policies/opman/sect5/>

## 5.4.3.5 Completion of the standards balloting process and submittal to RevCom

- **A minimum of 75% of those voting Approve or Do Not Approve (Negative with comment) must approve the draft in order to submit the ballot result to the IEEE SA Standards Board. In the event that 30% or more of the returned ballots are Abstentions, the standards balloting process shall be considered invalid.**
- **In the event that a 75% return cannot be obtained, the standards balloting process is considered to have failed and further disposition of the proposed standard shall be the responsibility of the Standards Committee.**
- **Once all required recirculations have been completed and 75% approval has been achieved, the IEEE requirements for consensus have been met. Efforts to resolve Do Not Approve votes may continue for a brief period; however, if such resolution is not possible in a timely manner, the Standards Committee should forward the submittal to RevCom because the IEEE has an obligation to the majority to review and publish the proposed standard quickly.**
- **Copies of all unresolved Do Not Approve votes, together with the reasons given by the Do Not Approve voters and the responses by the Standards Committee, shall be included with the ballot results submitted to RevCom.**
- **The Standards Committee shall, if not included in a recirculation package, provide to the Do Not Approve voter and to RevCom an explanation why any comments associated with a Do Not Approve vote were not required to be recirculated. In order for a Do Not Approve vote to be changed to an Approve or Abstain vote, the Standards Committee shall obtain and provide to RevCom written confirmation from each voter (by letter, fax, or electronic mail) that indicates concurrence with any change of his or her vote. Any Do Not Approve vote with comment that RevCom is asked to consider as a Do Not Approve (Negative without comment) shall be explained to RevCom.**

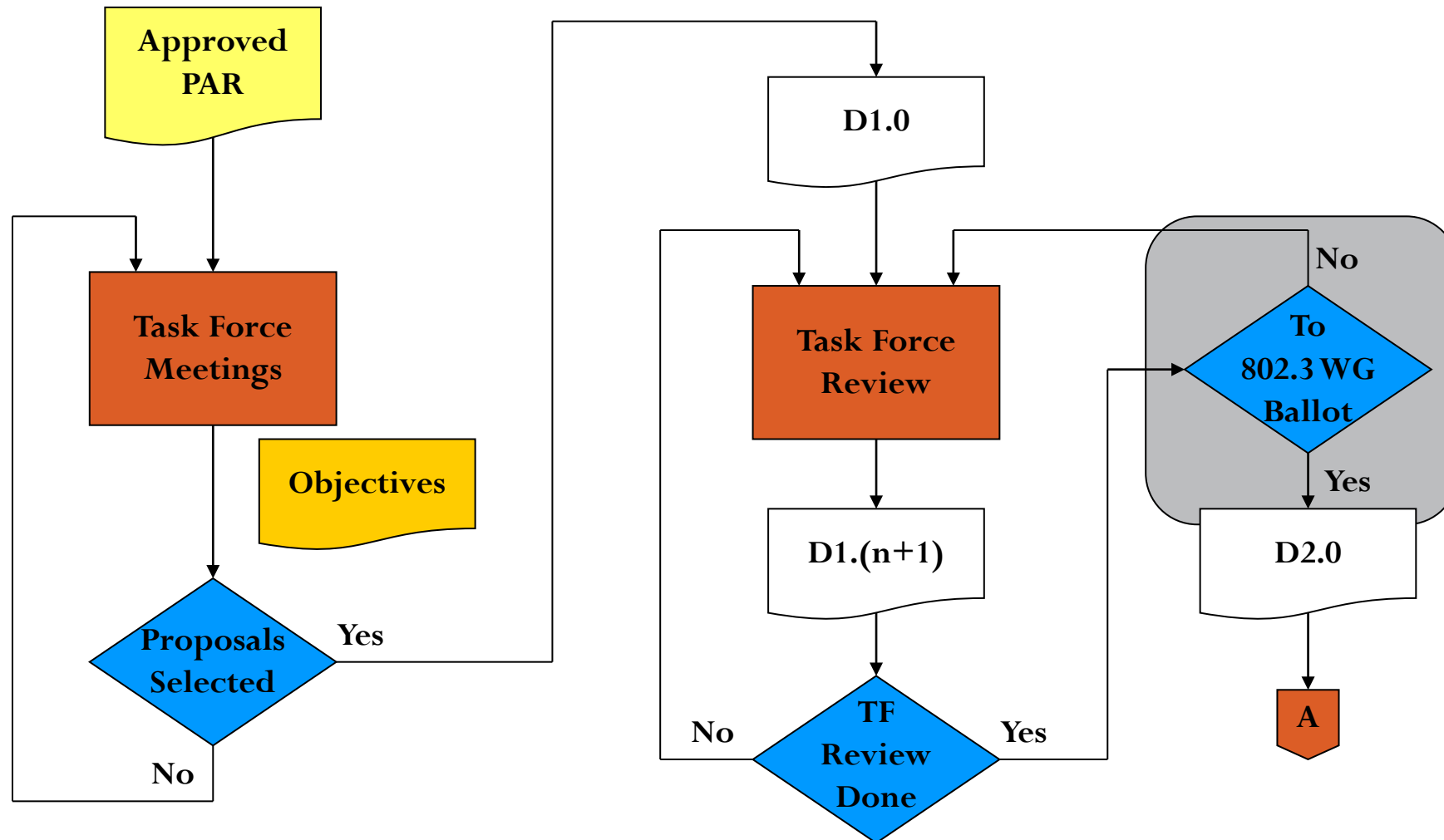
# RevCom – Acceptable Responses for Rejection

<https://standards.ieee.org/wp-content/uploads/import/governance/revcom/guidelines.pdf>

- **an explanation of why the CRG disagrees with the comment;**
- **a statement that the comment is out of scope, and the rationale;**
- **a statement that the proposed change in the comment does not contain sufficient detail so that the CRG can understand the specific changes that are being proposed;**
- **a statement that the proposed change is already included in another part of the document and not needed here;**
- **a statement that the proposed wording change does not improve the technical clarity or accuracy of the text in the consideration of the CRG, e.g., "change happy to glad";**
- **a statement that the CRG could not reach consensus on the changes necessary to address the comment;**
- **a statement that the CRG has previously considered the comment (or a substantively similar comment), along with identification (by reference or copy) of the original comment and its disposition detail and status;**
- **a statement of why the CRG considers the attachment does not meet the criteria indicated by myProject; or cannot be addressed as a single issue; or does not relate to a specific line, paragraph, figure, or equation in the balloted draft;**
- **a statement that the commenter has withdrawn the comment.**
- **the CRG disagrees with the comment.**
- **the comment is out of scope.**
- **there may be editorial comments that are Rejected. The comment response could be "The CRG refers this change to IEEE SA Editorial staff for consideration during preparation for publication."**



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



802.3 dj -  
We are  
here

# Voting

- Per 802.3 WG Chair - “IEEE 802.3 will hold its November 2023 plenary session from Monday 13 November 2023 through Thursday 16 November 2023. The plenary session will be held at the Hilton Hawaiian Village, Honolulu, HI, USA with support for mixed-mode attendance (i.e., remote attendance). Please note that the meetings are being planned around an in-person schedule, with remote access provided on a best-effort basis.” i.e. “electronic meeting”
  - See [https://www.ieee802.org/3/email\\_dialog/msg01478.html](https://www.ieee802.org/3/email_dialog/msg01478.html).
- Reference: Excerpt from Section 3.4.2, IEEE 802.3 Operations Manual
  - [http://www.ieee802.org/3/rules/P802\\_3\\_rules.pdf](http://www.ieee802.org/3/rules/P802_3_rules.pdf)

There are two type of votes in the TF; votes on motions and votes in straw polls.

In face-to-face meetings where a TF is operating with membership rules for voting (see 3.3) only the TF members may make and vote on motions. In face-to-face meetings where membership rules are not in force all TF participants may make and vote on motions, subject only to the provision that they believe that they are qualified to vote on the matter before the TF. **Electronic meetings that will consider motions shall be approved by the WG Chair prior to the meeting announcement. In such meetings only IEEE 802.3 Working Group members may make and vote on motions. If a motion is not approved by unanimous consent it shall be taken as a roll call vote**

**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 802.3 Requirements for Working Group voting membership – <https://www.ieee802.org/3/rules/member.html>

# Review of IEEE SA Policies

## ■ Email reminders

- IEEE P802.3cw –  
<https://www.ieee802.org/3/ct/email/msg01137.html>
- IEEE P802.3df / .3dj -  
<https://www.ieee802.org/3/B400G/email/msg00972.html>

**sent to Task Force Reflector reminding all to review and be familiar with following policies:**

- **Patent Policy**
- **Copyright Policy**
- **Participation**

## ■ See Backup for slides

# Liaisons Overview (As of 10 Nov 2023)

- **IEEE P802.3cw**
  - **Incoming: OIF - Response to request for data related to EVM and OIF 400ZR IA maintenance update**
- **IEEE P802.3df**
  - **Outgoing:**
    - **Generate liaison to ITU-T regarding state of IEEE P802.3df draft**
- **IEEE P802.3dj**
  - **Incoming: MOPA to IEEE 802.3: Time synchronisation error in PTP networks**
    - [https://www.ieee802.org/3/minutes/nov23/incoming/MOPA\\_to\\_IEEE\\_802p3\\_231102\\_Redacted.pdf](https://www.ieee802.org/3/minutes/nov23/incoming/MOPA_to_IEEE_802p3_231102_Redacted.pdf)
  - **Outgoing:**
    - **Generate liaison to ITU-T regarding G.652 fibers**

# Summary IEEE P802.3dj Progress @ End of 21 Sept 2023 Meeting – Logic

	<b>AUI</b>	<b>Backplane</b>	<b>CU Cable</b>	<b>SMF 500m/2km</b>	<b>SMF 10km 4 Wavelength</b>	<b>SMF 10km 1 Wavelength</b>	<b>SMF 40km</b>
<b>Ethernet Rate</b>	<b>PCS/FEC/PMA?</b>	<b>PCS/FEC/PMA?</b>	<b>PCS/FEC/PMA?</b>	<b>PCS/FEC/PMA?</b>	<b>PCS/FEC/PMA?</b>	<b>PCS/FEC/PMA?</b>	<b>PCS/FEC/PMA?</b>
<b>200 Gb/s</b>							
<b>400 Gb/s</b>							
<b>800 Gb/s</b>							Two proposals
<b>1.6 Tb/s</b>							

Adopted baselines

Proposed Baselines

# Summary IEEE P802.3dj Progress @ End of 21 Sept 2023 Meeting – PMDs (& AUIs)

Ethernet Rated	Assumed Signaling Rate	AUI	Backplane	Cu Cable	SMF 500m	SMF 2km	SMF 10km	SMF 40km
200 Gb/s	200 Gb/s	200GAUI-1 C2C C2M	200GBASE-KR1	200GBASE-CR1	200GBASE-DR1	200GBASE-FR1		
400 Gb/s	200 Gb/s	400GAUI-2 C2C C2M	400GBASE-KR2	400GBASE-CR2	400GBASE-DR2	400GBASE-DR2-2		
800 Gb/s	200 Gb/s	800GAUI-4 C2C C2M	800GBASE-KR4	800GBASE-CR4	800GBASE-DR4	1. 800GBASE-DR4-2 2. 800GBASE-FR4	800GBASE-LR4	
	800 Gb/s						Over single SMF in each direction Coherent	Over single SMF in each direction Coherent
1.6 Tb/s	100 Gb/s	1.6TAUI-16 C2C C2M						
	200 Gb/s	1.6TAUI-8 C2C C2M	1.6TBASE-KR8	1.6TBASE-CR8	1.6TBASE-DR8	1.6TBASE-DR8-2		

Adopted baselines

Proposed Baselines

# IEEE P802.3df 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. Draft definitions to be presented to Task Force at May 2022 session.
- 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

# IEEE P802.3dj Ad Hoc

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  - c. Electrical interfaces and electrical PMD nomenclature
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  - 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



# Ad hoc Summary

## ■ 802.3dj Ad Hoc Meetings

### • Joint Logic / Optics Ad hoc (19<sup>th</sup> Oct, 02 Nov 2023)

- Meeting materials - <https://www.ieee802.org/3/dj/public/adhoc/optics/index.html>
- Ad hoc Report - [https://www.ieee802.org/3/dj/public/23\\_11/nowell\\_3dfdj\\_01\\_2311.pdf](https://www.ieee802.org/3/dj/public/23_11/nowell_3dfdj_01_2311.pdf)

### • Electrical Ad hoc (2023)

- Meeting materials - <https://www.ieee802.org/3/dj/public/adhoc/electrical/index.html>
- Ad hoc Report - [https://www.ieee802.org/3/dj/public/23\\_11/lusted\\_3dj\\_01\\_2311.pdf](https://www.ieee802.org/3/dj/public/23_11/lusted_3dj_01_2311.pdf)

# Nov 2023 Session (1 of 4)

All times and order listed are subject to change.  
See meeting webpage for latest presentation version

Mon	13-Nov-23			4	
Time	Presenter	Affiliation	Title	File Name	
1:00 PM	John D'Ambrosia	Futurewei, U.S. Subsidiary of Huawei	Agenda and General Information - Nov Plenary	agenda_3cwndfdj_2311	
1:30 PM	Tom Hubert	Nokia	Proposed liaison to ITU-T	hubert_3df_01_2311	
1:35 PM	Peter Stassar	Huawei	Proposed Liaison to ITU-T (fiber)	stassar_3dj_02_2311	
1:40 PM	John D'Ambrosia	Futurewei, U.S. Subsidiary of Huawei	Proposed Liaison to MOPA	dambrosia_3dj_02_2311	
1:45 PM	John D'Ambrosia	Futurewei, US Subsidiary of Huawei	Proposed Update to IEEE P802.3cw CSD Responses	dambrosia_3cw_01_2311	
1:55 PM	Motion - Affirm IEEE P802.3cw Modified CSD				
2:00 PM	Motion - Approve IEEE P802.3df Bucket Comment Responses				
2:05 PM	Kent Lusted	Intel	IEEE P802.3dj Package Next Steps	lusted_3dj_02_2311	
2:30 PM	Liav Ben-Artzi	Marvell	Two PKG types approach – Radix Optimized type supporting data	benartzi_3dj_01_2311	
3:00 PM	Break				
3:20 PM	Mike Li	Intel	IEEE P802.3dj Reference Package Model and Parameters	lim_3dj_01_2311	
3:40 PM	Pirooz Tooyserkani	Cisco	The Case for 36 dB C2M Insertion Loss at 200G	tooyerkani_3dj_01_2311	
4:00 PM	Ali Ghiasi	Ghiasi Quantum / Marvell	Proposed C2M AUI Loss Budget	ghiasi_3dj_02_2311	
4:30 PM	Kent Lusted	Intel	Influence of module package on C2M interfaces	lusted_3dj_03_2311	
4:55 PM	Kent Lusted	Intel	C2M Next Steps	lusted_3dj_04_2311	
5:20 PM	Discussion, Strawpoll				
6:00 PM	Recess for Day				

# Nov 2023 Session (2 of 4)

All times and order listed are subject to change.  
See meeting webpage for latest presentation version

<u>Tues</u>	<u>14-Nov-23</u>			
Time	Presenter	Affiliation	Title	File Name
8:00 AM	John D'Ambrosia	Futurewei, U.S. Subsidiary of Huawei	Chair Opening Comments	
8:05 AM	Nathan Tracy	TE Connectivity	A Baseline Proposal To Enable More Flexible Architectures and Longer Reach Passive Copper Cables	tracy_3dj_01_2311
8:35 AM	Chris DiMinico	PHY-SI/SenTekse	Considerations for CR Insertion Loss Budget Baseline: Cable Assemblies and Test Fixtures	diminico_3dj_01_2311
9:05 AM	Mike Li	Intel	A Proposal for Updating Annex 93A.1 Channel Operating Margin (COM) with a FFE Reference Receiver for IEEE P802.3dj	lim_3dj_02_2311
9:25 AM	Tobey P.R. Li	MediaTek	COM Simulation for 200G/L CR and KR with Floating FFE Taps	lit_3dj_01_2311
10:00 AM	Break			
10:30 AM	Adam Healey	Broadcom	DERO for 200 Gb/s per lane backplane and copper cable PHYs	healey_3dj_01_2311
11:00 AM	Discussion, Strawpoll			
11:30 AM	Mark Gustlin	Cisco	Missing pieces of the logic baseline	gustlin_3dj_01_2311
12:00 PM	Lunch			
1:00 PM	Matt Brown	Alphawave Semi	IEEE P802.3df Chief Editor's Report	brown_3df_01_2311
1:10 PM	Matt Brown	Alphawave Semi	IEEE P802.3df - D3.1 Comment agenda	brown_3df_02_2311
1:20 PM	IEEE P802.3df D3.1 Comment Consideration			
3:00 PM	Break			
3:30 PM	IEEE P802.3df D3.1 Comment Consideration			
5:45 PM	Motions - IEEE P802.3df Standards Process Progression			
6:00 PM	Recess for Day			

# Nov 2023 Session (3 of 4)

All times and order listed are subject to change.  
See meeting webpage for latest presentation version

<u>Wed</u>	<u>15-Nov-23</u>			
	Presenter	Affiliation	Title	File Name
8:00 AM	John D'Ambrosia	Futurewei, U.S. Subsidiary of Huawei	Chair's Opening Comments	
8:05 AM	Frank Chang	Source Photonics	Considering technical feasibility study of various 200G/L PMDs - Nov 2023 Update	chang_3dj_01_2311
8:35 AM	Brian Welch	Cisco	200G/L Technical Feasibility	welch_3dj_01_2311
9:05 AM	Alan Wechel	650 Group	AI / ML Application Overview	wechel_3dj_01_2311
9:35 AM	Kent Lusted David Ofelt	Intel Juniper Networks	Proposal to adopt additional objectives to better support HPC/AI/ML applications – Part 1	lusted_3dj_05_2311
10:05 AM	Break			
10:35 AM	Kent Lusted David Ofelt	Intel Juniper Networks	Proposal to adopt additional objectives to better support HPC/AI/ML applications – Part 2 (Project Documentation)	lusted_3dj_06_2311
11:05 AM	Xiang He	Huawei	Low Latency Mode Proposal for Inner FEC	he_3dj_01_2311
11:35 AM	Guangcan Mi	Huawei	Thoughts on the baselines of 200G/lane single wavelength/PSM optical PMDs	mi_3dj_01_2311
12:00 PM	Lunch			
1:00 PM	Discussion & Straw polls			
2:00 PM	Brian Welch	Cisco	Baseline proposals for 200G/L PMD 500m and 2km objectives	welch_3dj_02_2311
2:30 PM	Roberto Rodes	Coherent	Baseline proposal for 800GBASE-LR4	rodes_3dj_01_2311
3:00 PM	Break			
3:00 PM	Brian Welch	Cisco	Potential optical baselines for new proposed objectives	welch_3dj_03_2311
3:20 PM	Discussion, Strawpolls, Motions - Topics related to IMDD Based Optics			
5:30 PM	Recess for Day			

# Nov 2023 Session (4 of 4)

All times and order listed are subject to change.  
See meeting webpage for latest presentation version

<u>Thurs</u>	<u>14-Sep-23</u>			
	Presenter	Affiliation	Title	File Name
8:00 AM	John D'Ambrosia	Futurewei, U.S. Subsidiary of Huawei	Chair's Opening Comments	
8:05 AM	Discussion, Strawpolls, Motions			
10:00 AM	Break			
10:30 AM	Discussion, Strawpolls, Motions			
11:00 AM	John D'Ambrosia	Futurewei, U.S. Subsidiary of Huawei	Proposed 802.3dj Timeline Update	dambrosia_3dj_01_2311
11:15 AM	Closing Business (including motions for liaisons)			
12:00 PM	Adjourn			

# Other Presentations (Pending Time Availability)

Presenter	Affiliation	Title	File Name
Jim Weaver	Arista	212Gb/s Per Lane PAM4 CR Channels with Flexible Host Architectures and Longer Reach Cables - Switch Perspective	weaver_3dj_01_2311
Femi Akinwale	Intel	212Gb/s Per Lane PAM4 CR Channels with Flexible Host Architectures and Longer Reach Cables - NIC Perspective	akinwale_3dj_01_2311
Sam Kocsis	Amphenol	Considerations of Technical Feasibility for Mated Compliance Fixtures	kocsis_3dj_01_2311
Tony Chan Carusone	Alphawave	Updated PMD tolerance with synchronous baud rate sampling and equalization (BRSE) for 800G-LR1	carusone_3dj_01_2311
Kishore Kota	Marvell	O-band Optical Specifications for 800GBASE-LR1	kota_3dj_01_2311
Eric Maniloff	Ciena	C Band Baseline proposal for 800GBASE-LR1 and 800GBASE-ER1	maniloff_3dj_01_2311
Ali Ghiasi	Ghiasi / Quantum	Benefits of Transmitter Adaptation for Optical Links	ghiasi_3dj_01_2311
Matt Brown	Alphawave	Thoughts on optical automatic link configuration	brown_3dj_01_2311
Ulf Parkholm	Ericsson	Consideration of a Auto Negotiation for Optical link training	parkholm_3dj_02_2311
Ulf Parkholm	Ericsson	Consideration of timestamp accuracy with MII-extender in coherent 800GBASE-ER1	parkholm_3dj_01_2311

These presentations will be heard during the Nov 2023 Plenary, pending time availability. If not heard, then they will be considered at the 28<sup>th</sup>-29<sup>th</sup> Nov 2023 Interim Meeting.

# Future Meetings

**IEEE P802.3cw:** <https://www.ieee802.org/3/cw/public/index.html>

**IEEE P802.3df:** <https://www.ieee802.org/3/df/public/index.html>

**IEEE P802.3dj:** <https://www.ieee802.org/3/dj/public/index.html>

- ▣ Any additional meetings will be announced, as appropriate.
- IEEE P802.3cw
  - Contingent Electronic Meeting – 11 Dec 2023, 9am to 1pm
  - Contingent Electronic Meeting – 08 Jan 2024, 9am to 1pm
- IEEE P802.3df
  - Contingent Electronic Meeting – 18 Dec 2023, 9am to 1pm
  - Contingent Electronic Meeting – 09 - 11 Jan 2024, 9am to 1pm
- IEEE P802.3dj
  - Contingent Electronic Meeting – 28 – 29 Nov 2023, 9am to 1pm
- Joint IEEE P802.3cw / df / dj Task Force Meeting
  - Week of 22 – 25 Jan 2024

# Future Ad hoc Meetings

- **To Be Announced**



# Future Meetings Summary

Week	P802.3cw	P802.3df	P802.3dj
19 Nov			
26 Nov			Meeting 28 – 29 Nov
3 Dec			
10 Dec	Contingent Meeting 11 Dec		
17 Dec		Contingent Meeting 18 Dec	
24 Dec			
31 Dec			
7 Jan	Contingent Meeting 08 Jan	Contingent Meeting 09-11 Jan	
14 Jan			
21 Jan	IEEE 802.3 Jan 2024 Interim Meeting		

**THANK YOU!**



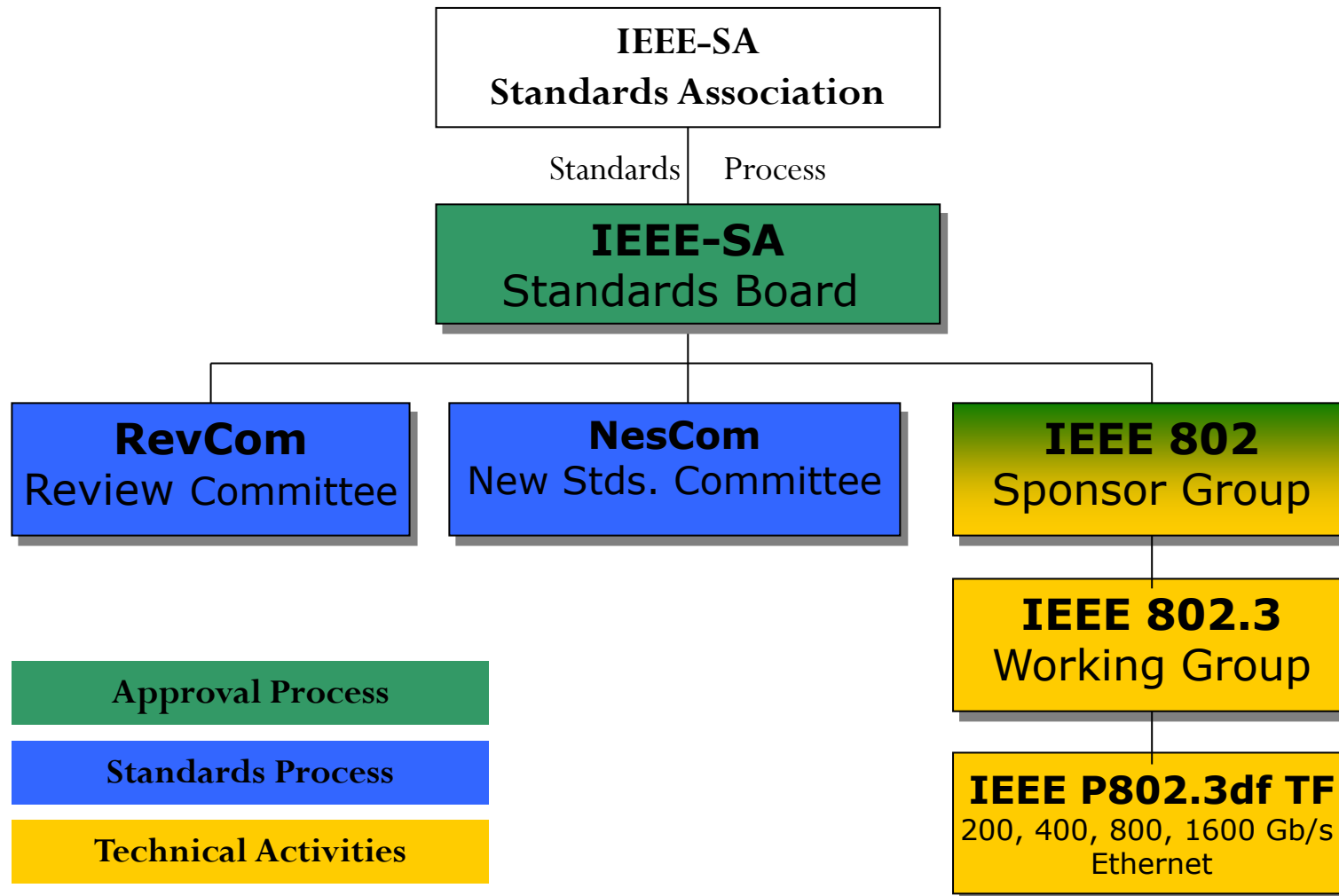
# BACKUP



# 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](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.**

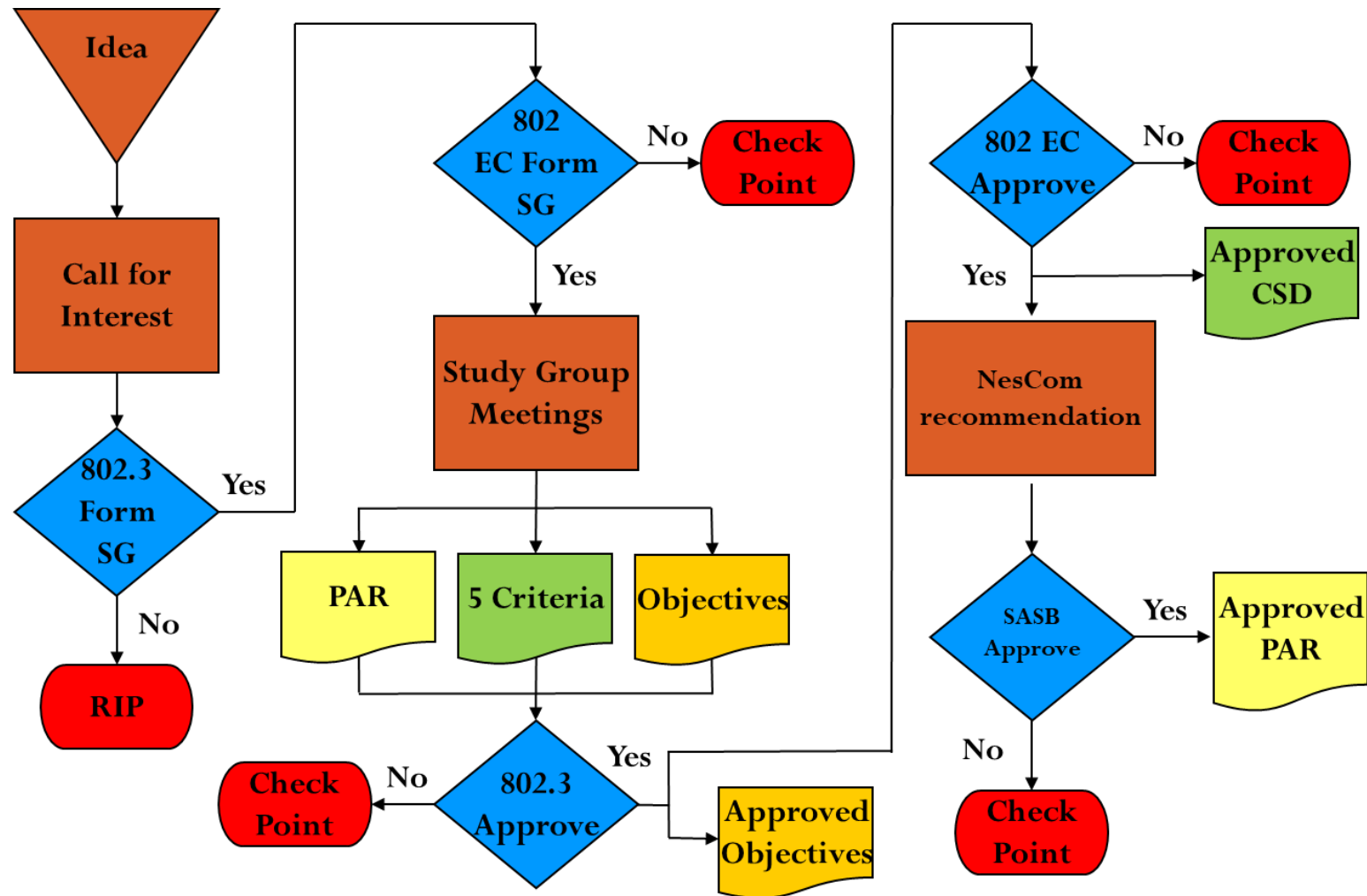
# IEEE Structure



# Important Bylaws, Rules, and References

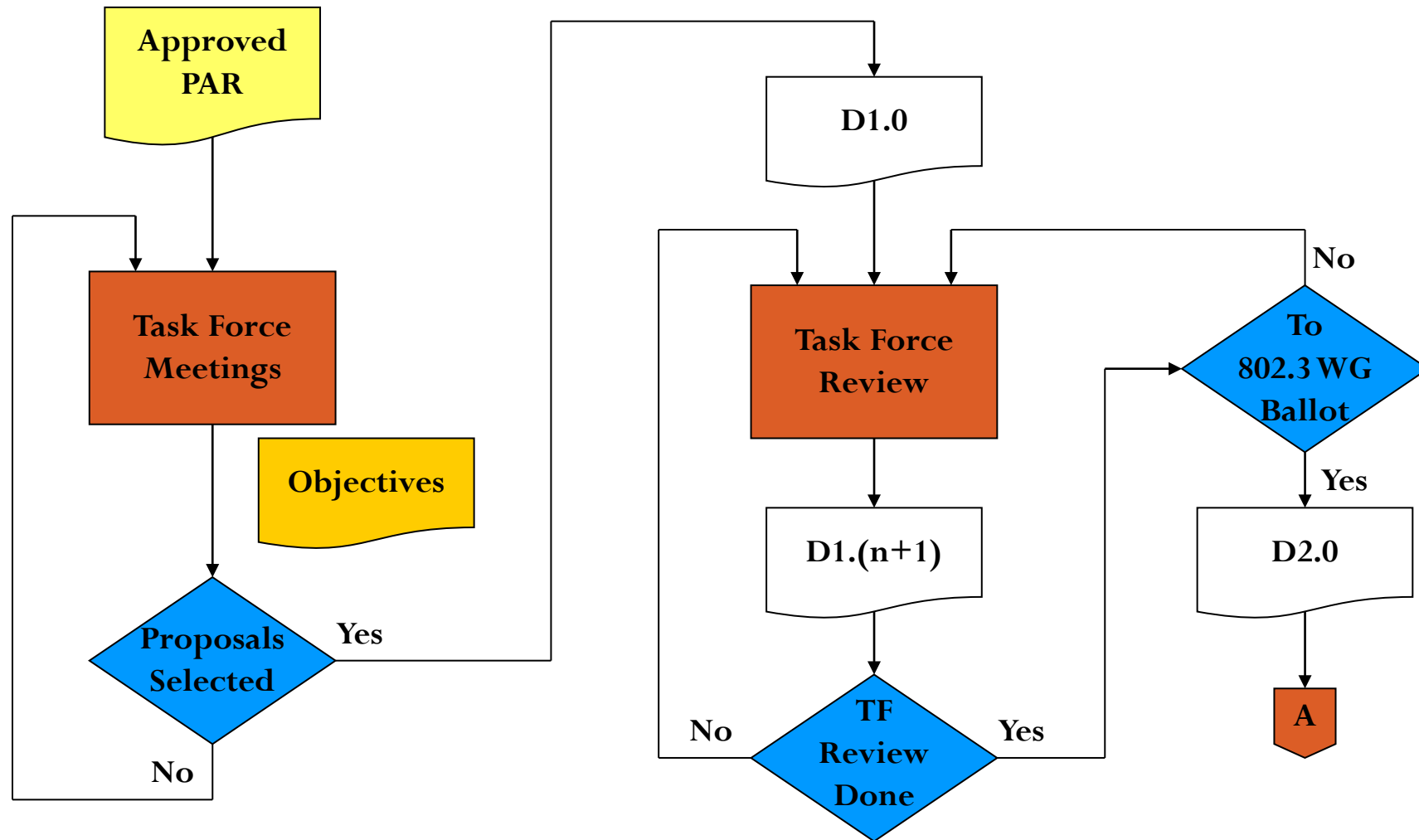
- **IEEE-SA Operations Manual**  
[http://standards.ieee.org/develop/policies/sa\\_opman/](http://standards.ieee.org/develop/policies/sa_opman/)
- **IEEE-SA Standards Board Bylaws**  
<http://standards.ieee.org/develop/policies/bylaws/>
- **IEEE-SA Standards Board Operations Manual**  
<http://standards.ieee.org/develop/policies/opman/>
- **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](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>

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



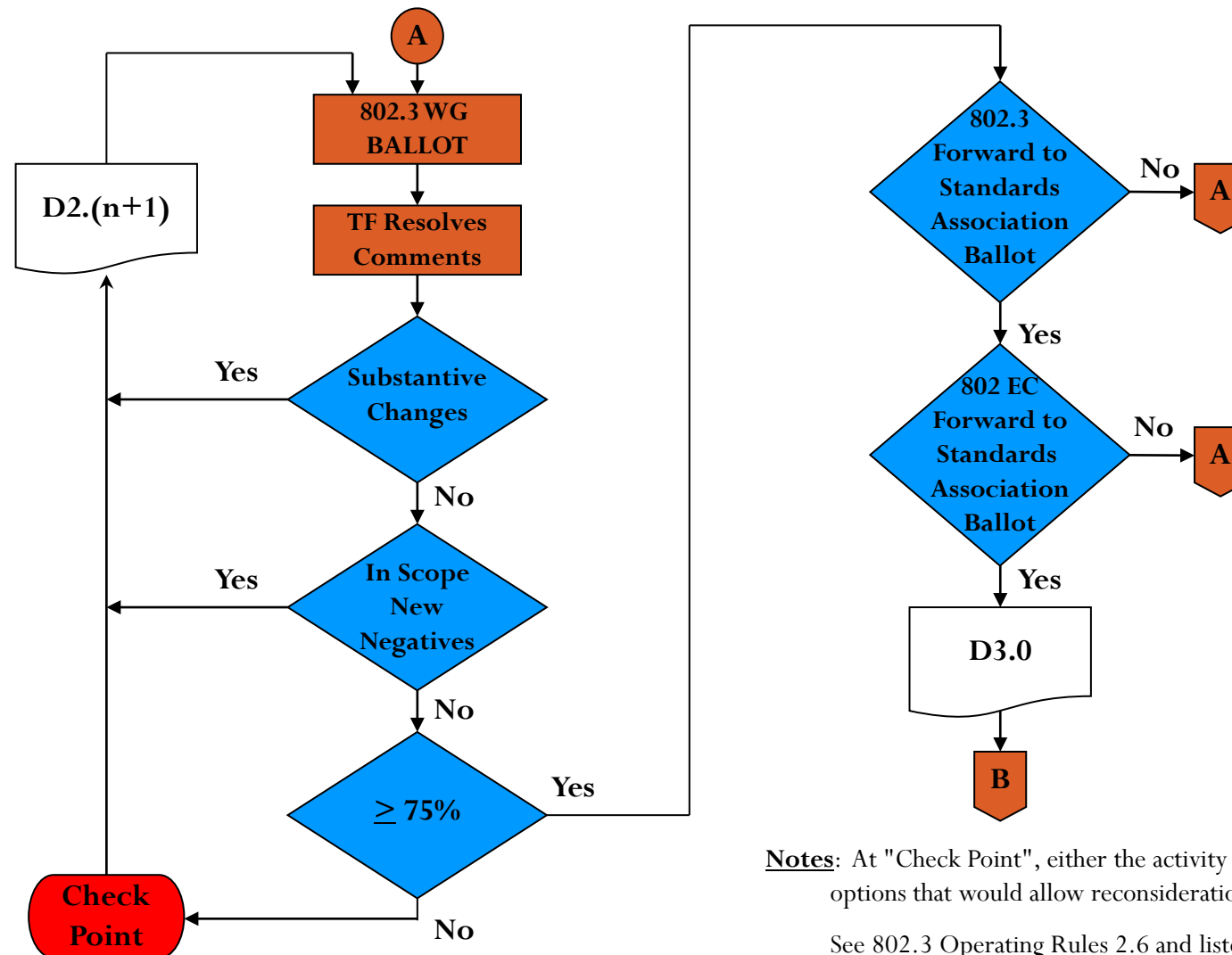
Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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





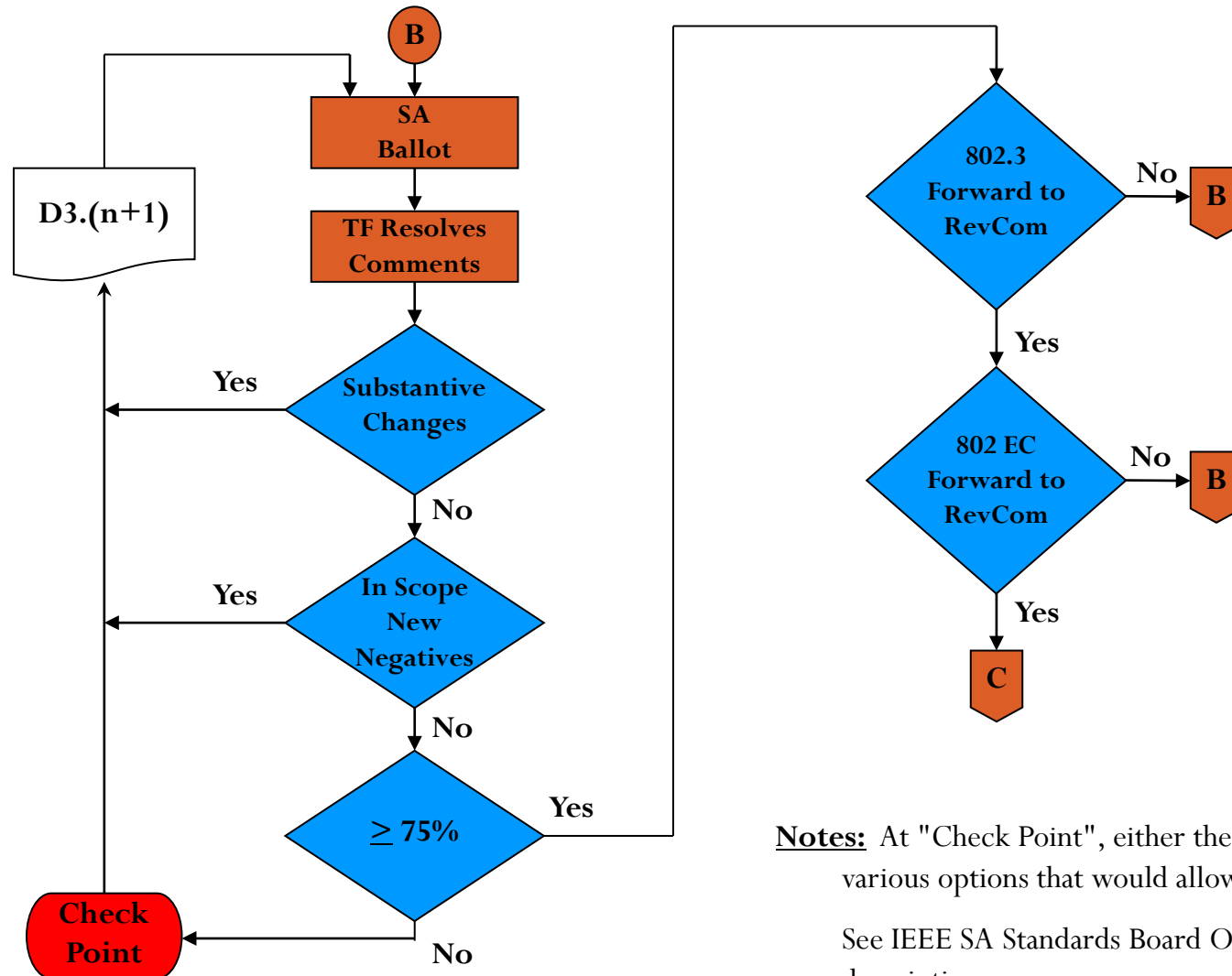
# Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



**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 Operating Rules 2.6 and listed references for complete description

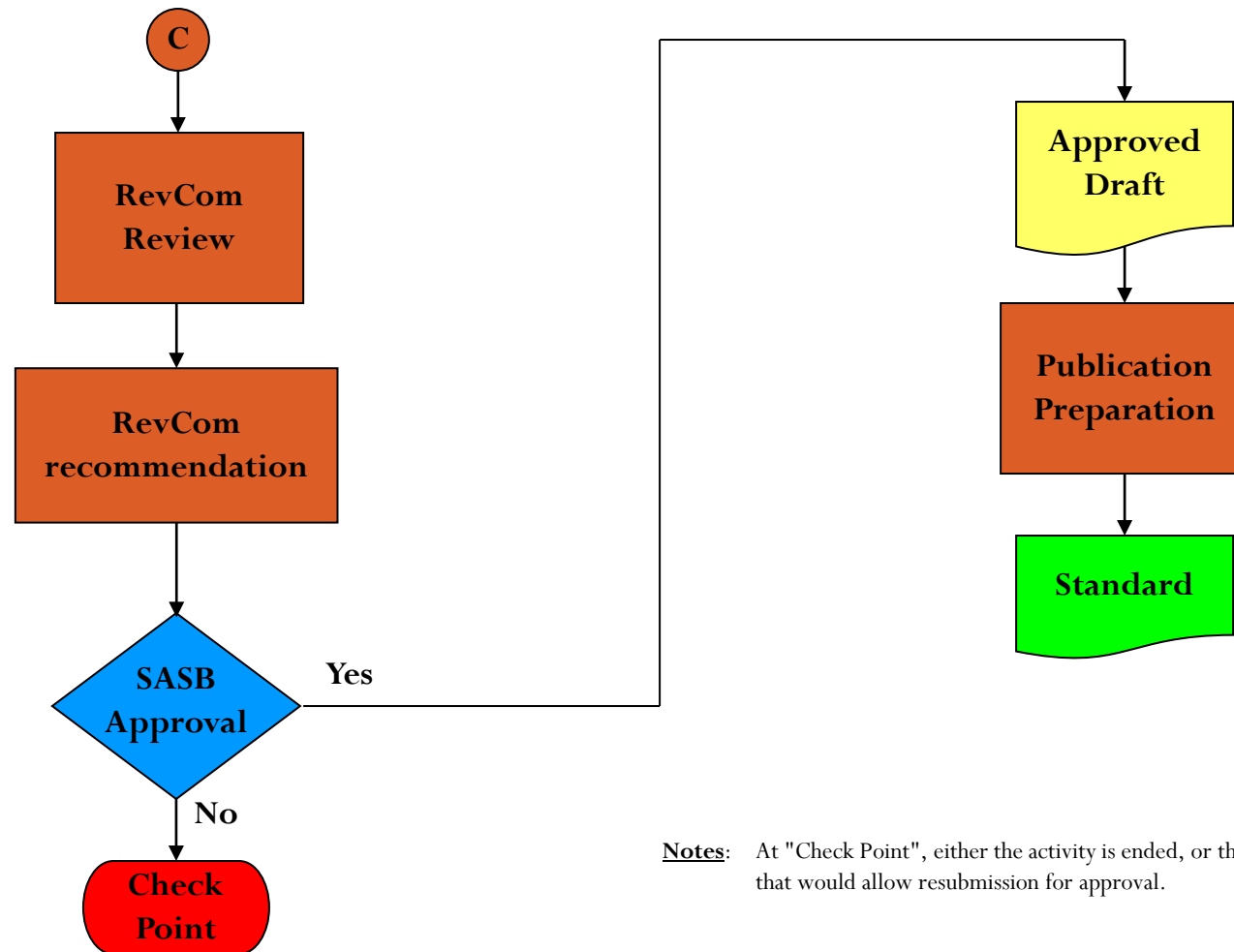
# Overview of IEEE 802.3 Standards Process (4/5)- Standards Association (SA) Ballot Phase



**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 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 shall 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 should 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 Working Group 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>

# 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](mailto:patcom@ieee.org)**

# IEEE SA COPYRIGHT POLICY

# 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>
- 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](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 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