

Agenda and General Information

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

**Jan 2023 Session
16 Jan 2023**

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



Joint Task Force Meetings

- **Per Motion #11 approved @ IEEE 802.3 Closing, Nov 2022** (see minutes @ <https://www.ieee802.org/3/minutes/nov22/index.html>)
 - **Move that the IEEE 802.3 Working Group grant approval for the P802.3df and 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 P802.3df / .3dj Task Force Session

■ Agenda

- Approve Agenda
- Approve Minutes –
 - IEEE P802.3df Dec 2022 Session -
https://www.ieee802.org/3/df/public/22_12/minutes_3df_2212_unapproved.pdf
- Decorum
- Attendance
- Task Force Project Information
- 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
- Ad hocs – no updates
- 802.3dj schedule, week of Jan 16 (See Pages 5)
 - Discussion / Straw polls / Motions as noted
- 802.3df schedule, D1.1, week of Jan 30 (See Page 6)
 - Discussion / Straw polls / Motions as noted
 - 802.3df closing business as noted
- 802.3dj schedule, week of Feb 6 (See Page 7)
 - Discussion / Straw polls / Motions as noted
 - 802.3df closing business as noted
- Closing Business, including Future Meetings

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

Late Comments

- **5 late comments were submitted against IEEE P802.3df D1.1 by Piers Dawe**
 - Not included in current “Comments” report

- **Are there any objections from IEEE P802.3dj Task Force to consider these comments?**
 - If yes – then motion for Task Force
 - If no – then late comments will be considered during IEEE P802.3df D1.1 comment consideration (week of Jan 31)
 - “Comments” report will be updated to include late comments

Jan 2023 Session (1 of 3)

All times and order listed are subject to change.

Mon	16-Jan-23			
Time	Presenter	Affiliation	Title	File Name
9:00 AM	David Law	HPE	Task Force Chair / Vice Chair Confirmation	
9:00 AM	John D'Ambrosia	Futurewei, U.S. Subsidiary of Huawei	Agenda and General Information	agenda_3dfdj_2301
9:30 AM	Tom Huber	Nokia	Proposed Liaison to ITU-T SG 15	huber_3df_01_2301
9:40 AM	John D'Ambrosia Mark Gustlin Kent Lusted Mark Nowell	Futurewei, US Subsidiary of Huawei Cisco Intel Cisco	IEEE P802.3dj Task Force Formation	dambrosia_3dj_01_230116
10:10 AM	Discussion, Straw polls, motions			
1:00 PM	Recess for Day			
Tues	17-Jan-23			
Time	Presenter	Affiliation	Title	File Name
9:00 AM	John D'Ambrosia	Futurewei, U.S. Subsidiary of Huawei	Chair's Opening Comments	
9:05 AM	Kent Lusted	Intel	Towards a 200G/lane Backplane Objective	lusted_3dj_01_230116
9:35 AM	Kent Lusted	Intel	1.6TAUI-16 C2M and C2C Baseline Thoughts	lusted_3dj_02_230116
10:05 AM	Potential Time available for Discussion / Strawpolls			
10:35 AM	Tobey P.-R. Li	Media Tek	Baseline Proposal for 200G/L Medium Loss C2M	lit_3dj_01_230116
11:05 AM	Tobey P.-R. Li	Media Tek	Baseline Proposal for 200G/L High Loss C2M	lit_3dj_02_230116
11:35 AM	Ali Ghiasi	Ghiasi Quantum/Marvell	CMIS-LT Providing Flexible Link Training and Diagnostics for C2M	ghiasi_3dj_01_230116
12:05 PM	Hossein Shakiba	Huawei	A Path toward Incorporating Advanced Signal Processing in Electrical Channel Performance Assessment – 1st Update	shakiba_3dj_01_230116
12:35 PM	Potential Time available for Discussion / Strawpolls			
1:00 PM	Recess for Day			
Wed	18-Jan-23			
Time	Presenter	Affiliation	Title	File Name
9:00 AM	John D'Ambrosia	Futurewei, U.S. Subsidiary of Huawei	Chair's Opening Comments	
9:05 AM	Upen Reddy Kareti	Cisco	200G/lane PAM4: Error Profile, Propagation and Correction considerations	kareti_3dj_01_230116
9:35 AM	Ali Ghiasi	Quantum / Marvell	Bottom Up analysis of Medium and High Loss AUI Channel Loss	ghiasi_3dj_02_230116
10:05 AM	Rick Rabinovich	Keysight	212 Gb/s PAM4 per Lane C2M Channels A Via Length Performance Study Supplement	rabinovich_3dj_01_230116
10:35 AM	Mike Li	Intel	224 Gbps-PAM4 Chip-to-Module Link Simulation and Analysis with a High-Loss 92 Ohm Impedance Channel	lim_3dj_01_230116
11:00 AM	Mike Li	Intel	A 224 Gbps-PAM4 High-Loss Chip-to-Module Channel with 92 Ohm Impedance and Its Characteristics	lim_3dj_02_230116
11:15 AM	Discussion, Straw polls, motions			
1:00 PM	Recess for Day			

Jan 2023 Session (2 of 3)

All times and order listed are subject to change.

<u>Mon</u>	<u>30-Jan-23</u>	<u>IEEE P802.3df</u>		
Time	Presenter	Affiliation	Title	File Name
9:00 AM	John D'Ambrosia	Futurewei, U.S. Subsidiary of Huawei	Agenda and General Information	agenda_3dfdj_2301
9:15 AM	Matt Brown	Huawei	P802.3df Chief Editor's Report	brown_3df_01_2301
9:25 AM	Matt Brown	Huawei	Comment Resolution Agenda	brown_3df_02_2301
9:35 AM	IEEE P802.3df D1.1 Comment Consideration			
11:00 AM	Break			
11:05 AM	IEEE P802.3df D1.1 Comment Consideration (continues)			
1:00 PM	Recess for Day			
<u>Tues</u>	<u>31-Jan-23</u>	<u>IEEE P802.3df</u>		
Time	Presenter	Affiliation	Title	File Name
9:00 AM	John D'Ambrosia	Futurewei, U.S. Subsidiary of Huawei	Chair's Opening Comments	
9:05 AM	Matt Brown	Huawei	P802.3df Chief Editor's Report	brown_3df_01_2301
9:10 AM	Matt Brown	Huawei	Comment Resolution Agenda	brown_3df_02_2301
9:15 AM	IEEE P802.3df D1.1 Comment Consideration			
11:00 AM	Break			
11:05 AM	IEEE P802.3df D1.1 Comment Consideration (continues)			
1:00 PM	Recess for Day			
<u>Wed</u>	<u>1-Feb-23</u>	<u>IEEE P802.3dj</u>		
Time	Presenter	Affiliation	Title	File Name
9:00 AM	John D'Ambrosia	Futurewei, U.S. Subsidiary of Huawei	Chair's Opening Comments	
9:05 AM	Matt Brown	Huawei	P802.3df Chief Editor's Report	brown_3df_01_2301
9:10 AM	Matt Brown	Huawei	Comment Resolution Agenda	brown_3df_02_2301
9:15 AM	IEEE P802.3df D1.1 Comment Consideration			
11:00 AM	Break			
11:05 AM	IEEE P802.3df D1.1 Comment Consideration (continues)			
12:45 PM	802.3df Closing Business (including motions)			
1:00 PM	Recess for Day			

Jan 2023 Session (3 of 3)

All times and order listed are subject to change.

Mon	6-Feb-23	IEEE P802.3dj		
Time	Presenter	Affiliation	Title	File Name
9:00 AM	John D'Ambrosia	Futurewei, U.S. Subsidiary of	Agenda and General Information	agenda_3dfdj_2301
9:10 AM	Kapil Shrikhande	Marvell	1.6TbE PCS/FEC Architecture Concept for PHYs using 8 x 200G PMD lanes	shrikhande_3dj_01_23020
9:40 AM	Leon Bruckman	Huawei	Considerations on symbol vs bit multiplexing and 100G/lane to 200G/lane interoperability	bruckman_3dj_01_230206
10:10 AM	Adee Ran	Cisco	Symbol-muxing PMA proposal	ran_3dj_01_230206
10:40 AM	Discussion, Straw polls, motions			
11:10 AM	Break			
11:15 AM	Xinyuan Wang	Huawei	Observation of Inner Code for 200 Gb/s per Lambda IM-DD Optical PMD	wangx_3dj_01_230206
11:45 AM	Arash Farhood	Marvell	Concatenated and Padded SFEC proposal for 200Gb/s per Lane IM-DD Optical PMD	farhood_3dj_01_230206
12:15 PM	Masoud Barakatain	Huawei Canada	Concatenated FEC Proposal for 200 Gbps per Lane IMDD Optical PMD	barakatain_3dj_01_230206
1:00 PM	Recess for Day			
Tues	7-Feb-23	IEEE P802.3dj		
Time	Presenter	Affiliation	Title	File Name
9:00 AM	John D'Ambrosia	Futurewei, U.S. Subsidiary of	Chair's Opening Comments	
9:05 AM	Zhongfeng Wang	Nanjing University	Concatenated FEC Codes for 800GE and 1.6TE	wangz_3dj_01_230206
9:35 AM	Xiang He	Huawei	Interleaver Design for Concatenated Code with the (144,136) Code	he_3dj_01_230206
10:05 AM	Xiang He	Huawei	Bypass Options for Concatenated Code	he_3dj_02_230206
10:35 AM	Discussion, Straw polls, motions			
11:05 AM	Break			
11:10 AM	Huanlu Li	Huawei	Consideration on 200G per lane 500m and 2km objectives	lih_3dj_01_230206
11:40 AM	Brian Welch	Cisco	Baseline proposals for 200G/L PMD specifications for single wavelength 500m and 2km	welch_3dj_01_230206
12:10 PM	Jonathan Ingham	Huawei	Baseline proposal for single-wavelength 200 Gb/s per lane optical PMDs supporting 500 m	ingham_3dj_01_230206
12:40 PM	Discussion, Straw polls, motions			
1:00 PM	Recess for Day			
Wed	8-Feb-23	IEEE P802.3dj		
Time	Presenter	Affiliation	Title	File Name
9:00 AM	John D'Ambrosia	Futurewei, U.S. Subsidiary of	Chair's Opening Comments	
9:05 AM	Maxim Kuschnerov	Huawei	FWM and zero dispersion wavelength analysis for 800G LR4	kuschnerov_3dj_01_230206
9:35 AM	John Jonson	Broadcom	Time-dependence of FWM Outage Probability in 800G and 1.6T-LR4 PMDs	johnson_3dj_01_230206
10:05 AM	Ernest Muhigana	Lumentum	Numerical Simulation of Polarization Multiplexing for Suppressing FWM	kikuchi_3dj_01_230206
10:35 AM	Eric Maniloff	Ciena	Coherent solutions for 10 & 40km 800Gb/s objectives in 802.3dj	maniloff_3dj_01_230206
11:05 AM	Break			
11:10 AM	Tom Williams	Cisco	Toward a coherent baseline for 800G LR and ER	williams_3dj_01_230206
11:40 AM	Discussion, Straw polls, motions			
12:40 PM	John D'Ambrosia	Futurewei, U.S. Subsidiary of	Leadership Observations	dambrosia_3dj_01_230206
12:55 PM	802.3dj Closing Business			
1:00 PM	Adjourn			

Goals for the Session

■ **IEEE P802.3df**

- **Consideration of comments submitted during 2nd Task Force Review (D1.1)**
- **Approve generation of D1.2**

■ **IEEE P802.3dj**

- **Task Force Formation**
- **Approval Task Force Timeline**
- **Hear Technical Presentations**

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 2022 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 2022 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**
 - **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 P802.3df 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
- Mark Gustlin, 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
 - 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/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
- Adopted Timeline: 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

- 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
- Mark Gustlin, 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
 - 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_221117.pdf

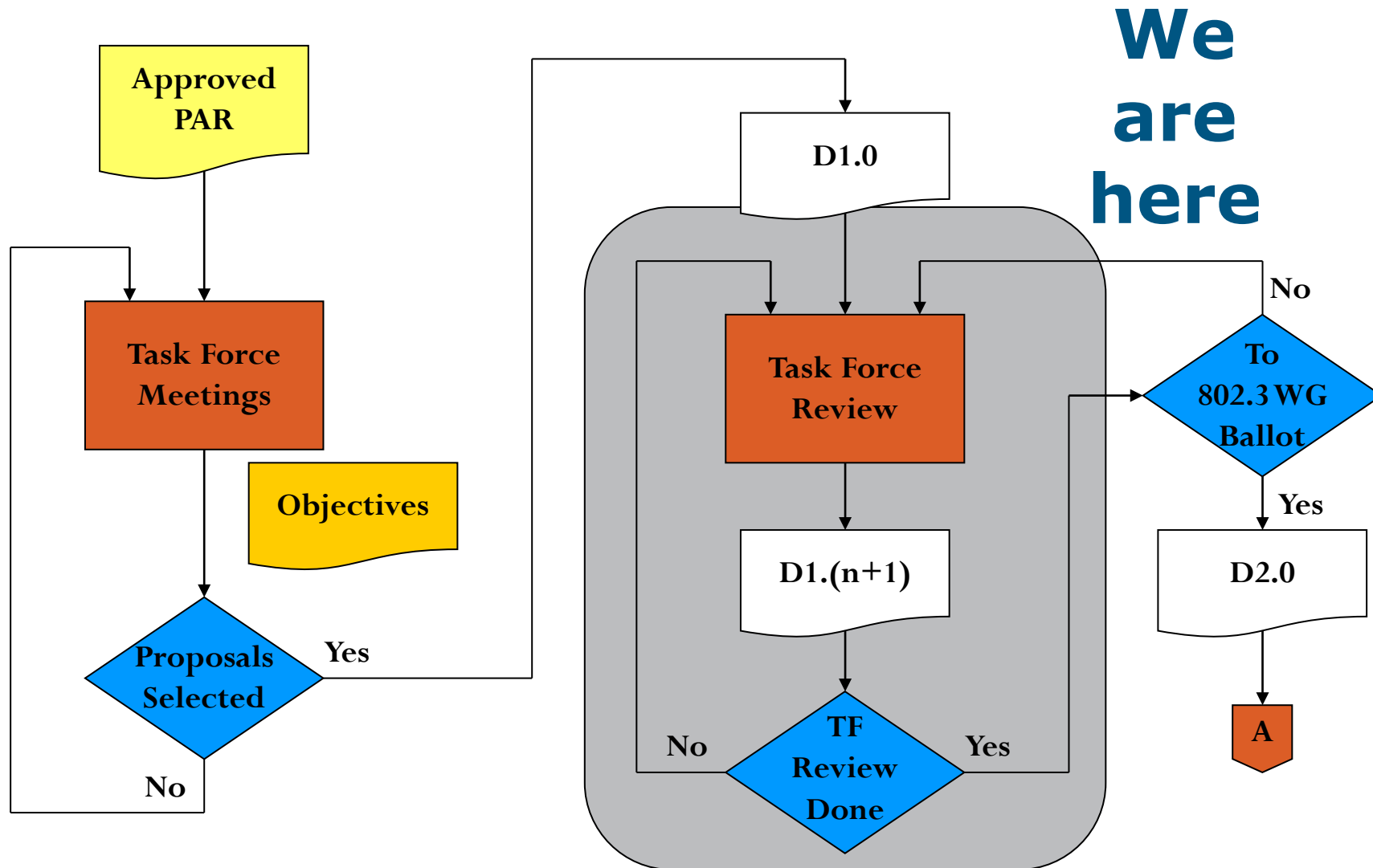
▪ P802.3df TF meeting information may be found on:

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

Ground Rules

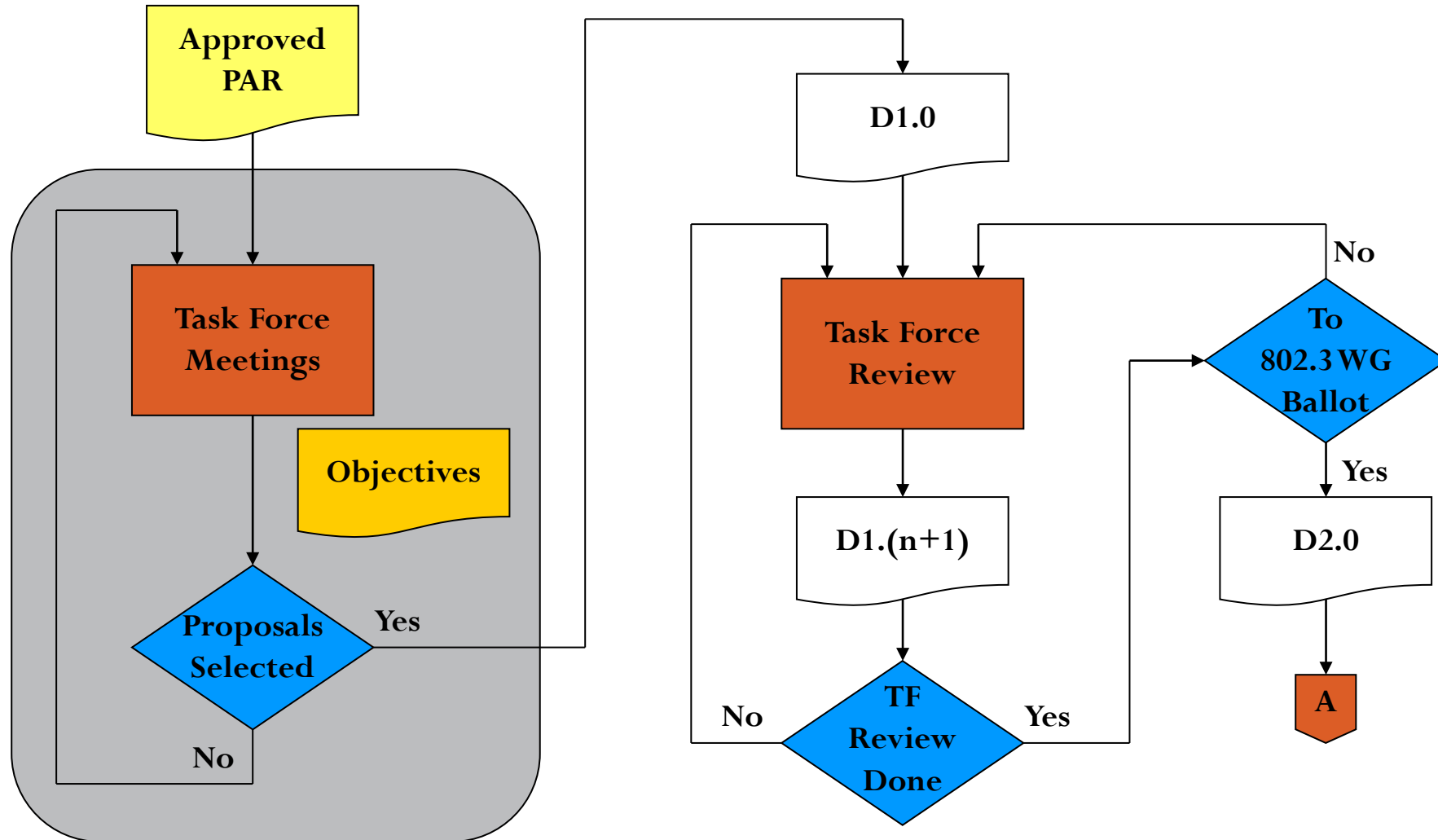
- **Based upon IEEE 802.3 Rules**
 - **Foundation based upon Robert's Rules of Order**
 - **Anyone in the room may speak**
 - **Anyone in the room may vote on straw polls, but we have to follow 802.3 Voting rules**
- **RESPECT... give it, get it**
- **NO product pitches**
- **NO corporate pitches**
- **NO prices!!!**
 - **This includes costs, ASPs, etc. no matter what the currency**
- **NO restrictive notices**

IEEE P802.3df Task Force: Task Force Comment Phase



IEEE P802.3dj Task Force: Task Force Comment Phase

We are here



Voting

- July 2022 IEEE 802.3 Task Force Meeting has been classified by 802.3 WG Chair as “electronic” for the purpose of voting.
 - See https://www.ieee802.org/3/minutes/may22/0522_802_3_interim.pdf#page=23.

- Reference: Excerpt from Section 3.4.2, IEEE 802.3 Operations Manual
 - 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

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

Review of IEEE SA Policies

- **Email reminder**

(<https://www.ieee802.org/3/B400G/email/msg00618.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**

- **Updated email sent 23 Jan -**

<https://www.ieee802.org/3/B400G/email/msg00639.html>

Liaisons (As of 18 Jan 2023)

- **Incoming:**
 - **OIF 800LR IA Project Update –**
 - https://www.ieee802.org/3/minutes/jan23/incoming/OIF_liaison_letter_IEEE802.3_800LR_17Jan23_Redacted.pdf
 - **OIF CEI-112-XSR+PAM4 Project**
 - https://www.ieee802.org/3/minutes/mar23/incoming/OIF_liaison_letter_IEEE802.3_CEI-112G-XSR_18Jan23_Redacted.pdf
 - **Attachment (Password protected) -**
https://www.ieee802.org/3/private/liaison_docs/OIF/OIF_liaison_cover_IEEE802.3_CEI-112G-XSR_18Jan23-combined.pdf
- **Proposed Liaison letter to ITU-T Q11/15**
 - **OTN mapping reference point for 800GBASE-R**

IEEE P802.3df Ad Hocs

Announcement - <https://www.ieee802.org/3/B400G/email/msg00257.html>

1. Architecture and Logic Ad hoc – Mark Gustlin, 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

Future Meetings

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

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

- Joint IEEE P802.3df/ .3dj TF Jan 2023 Session
 - 16 Jan, 9am to 1pm ET
 - 17 Jan, 9am to 1pm ET
 - 18 Jan, 9am to 1pm ET
 - 30 Jan, 9am to 1pm ET
 - 31 Jan, 9am to 1pm ET
 - 01 Feb, 9am to 1pm ET
 - 06 Feb, 9am to 1pm ET
 - 07 Feb, 9am to 1pm ET
 - 08 Feb, 9am to 1pm ET
- Cancelled - IEEE P802.3df Feb 2023 Electronic Session
- Joint IEEE P802.3df/ .3dj TF Mar 2023 Session (Week of 13 Mar 2023)
 - Announcement - <https://www.ieee802.org/3/B400G/email/msg00643.html>

Future Ad hoc Meetings

- **IEEE P802.3df**
 - **Logic Ad hoc – Tues, 21 Feb, 10am to 12pm ET**
- **IEEE P802.3dj**
 - **Optics Ad hoc – Wed, 22 Feb, 10am to 12pm ET**
 - **Electrical Ad hoc – Thurs, 23 Feb, 9:30am to 12:30pm ET**

THANK YOU!



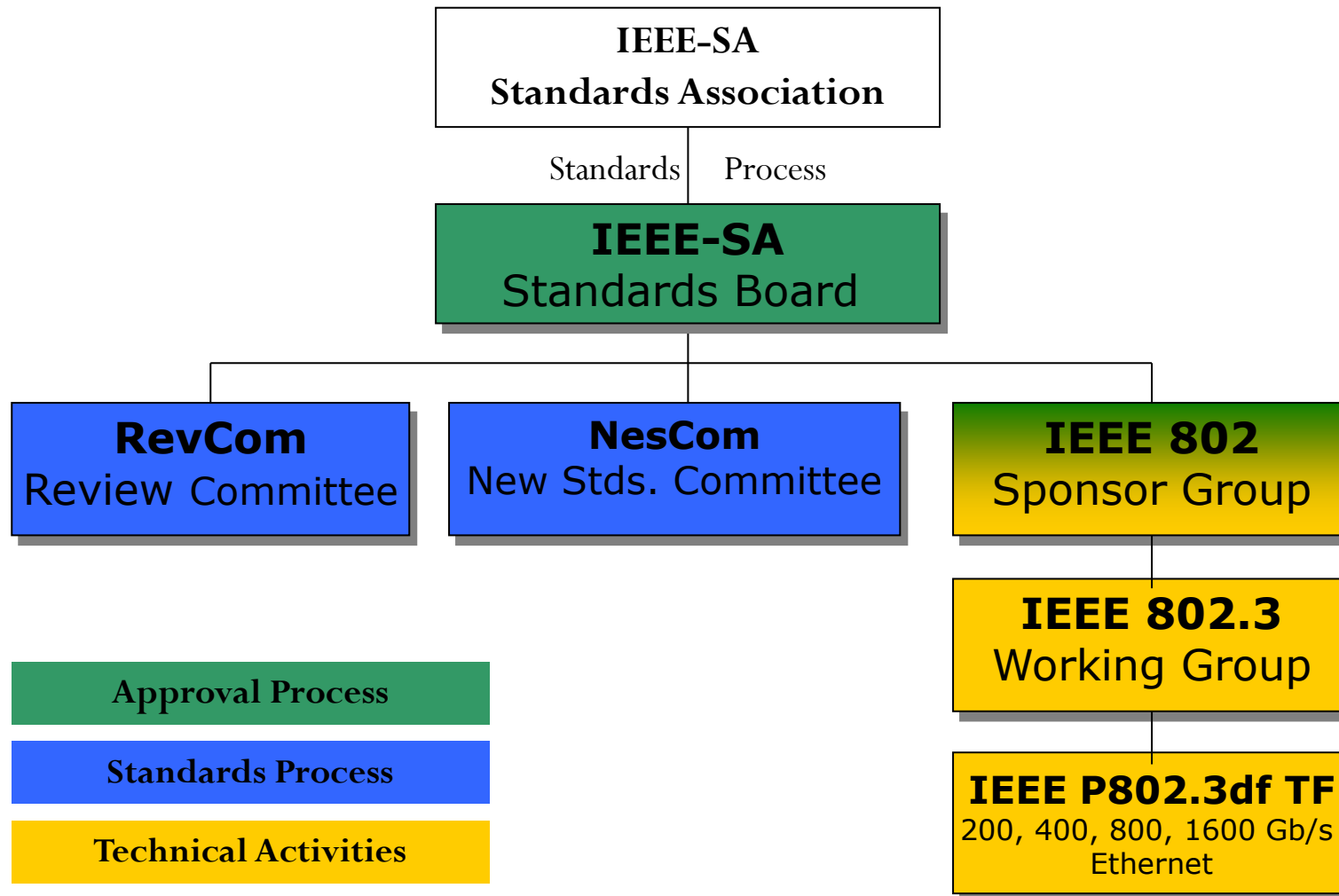
BACKUP



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)**
 - **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.**

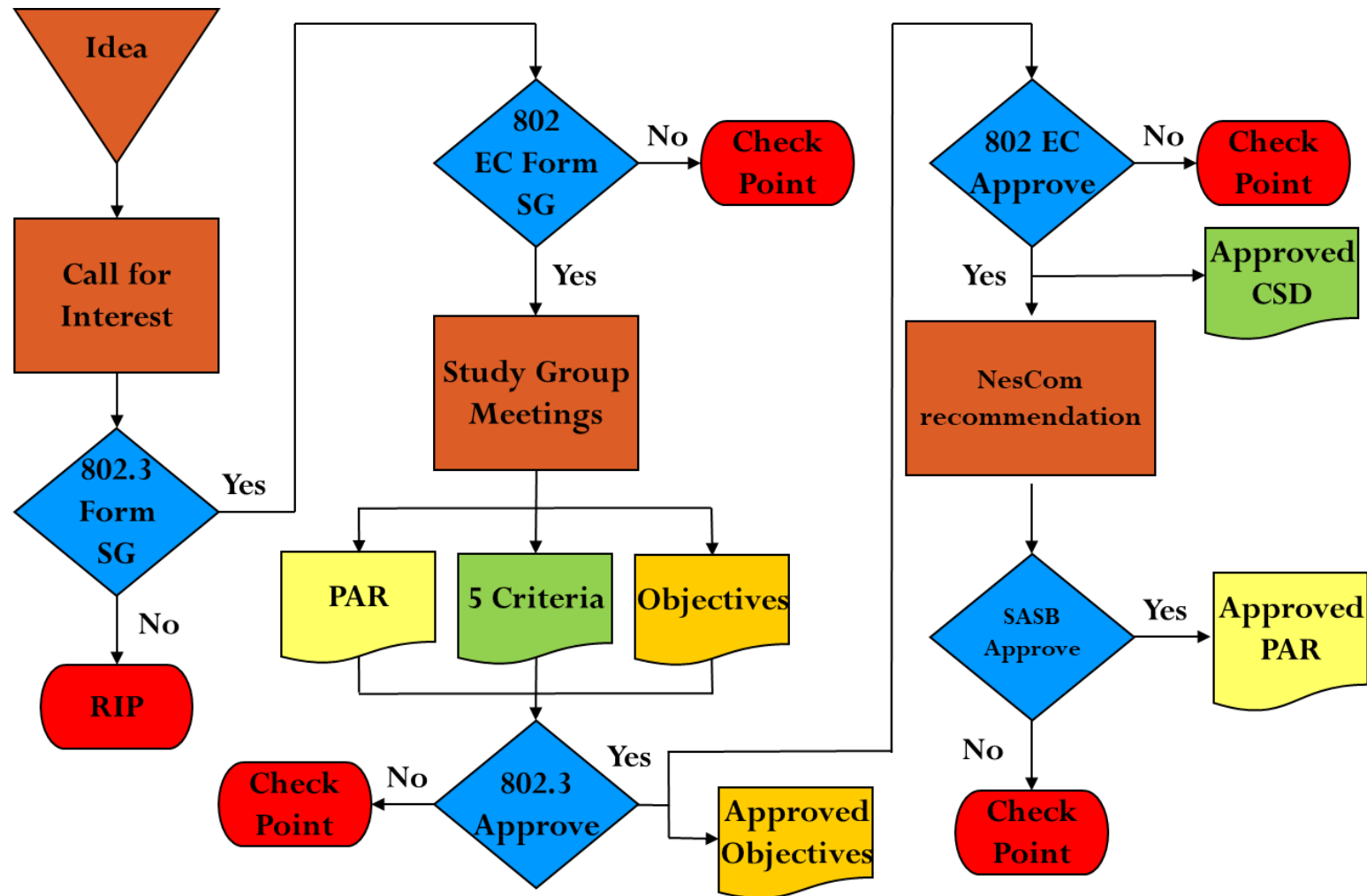
IEEE Structure



Important Bylaws, Rules, and References

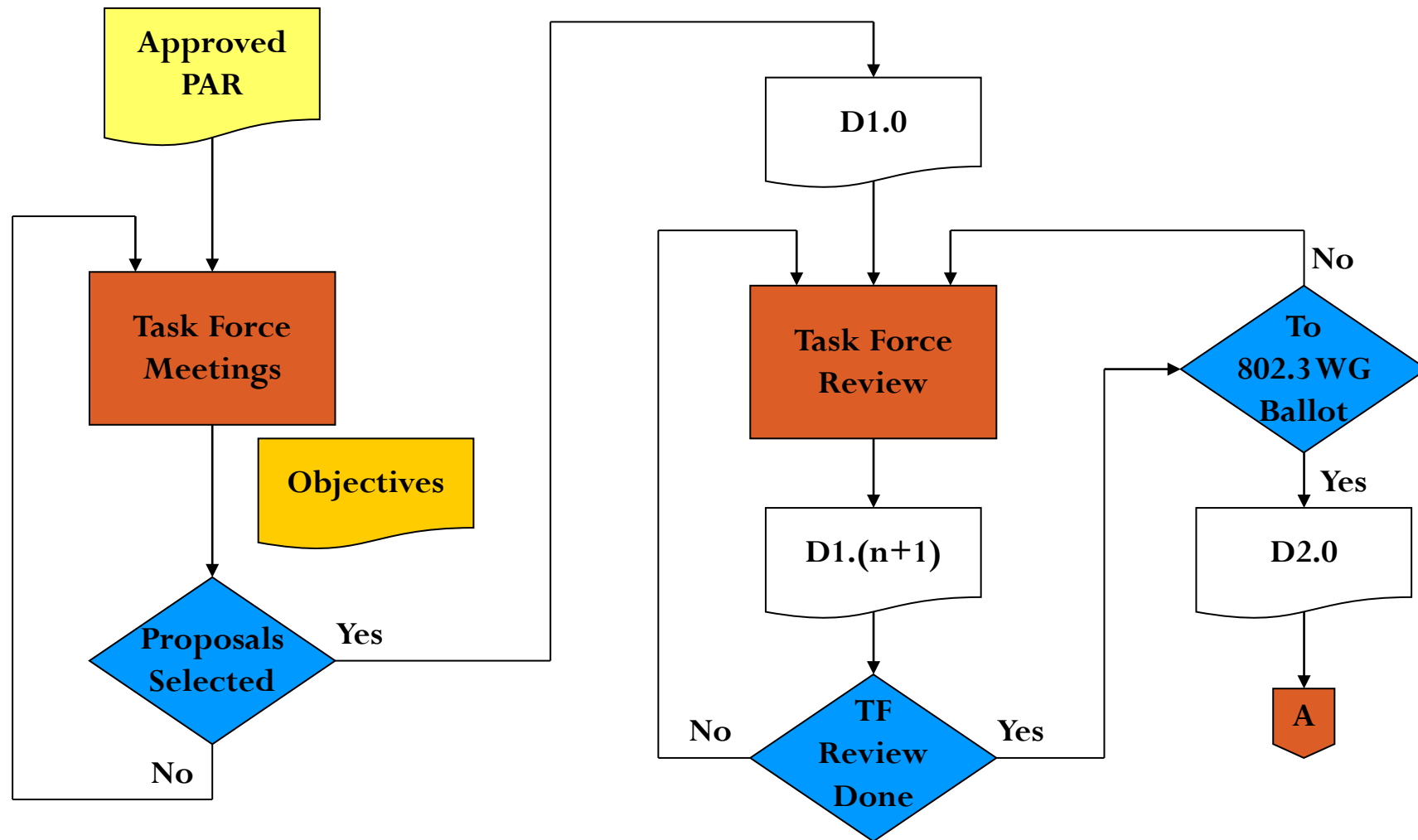
- **IEEE-SA Operations Manual**
http://standards.ieee.org/develop/policies/sa_opman/
- **IEEE-SA Standards Board Bylaws**
<http://standards.ieee.org/develop/policies/bylaws/>
- **IEEE-SA Standards Board Operations Manual**
<http://standards.ieee.org/develop/policies/opman/>
- **IEEE 802 LAN/MAN Standards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

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

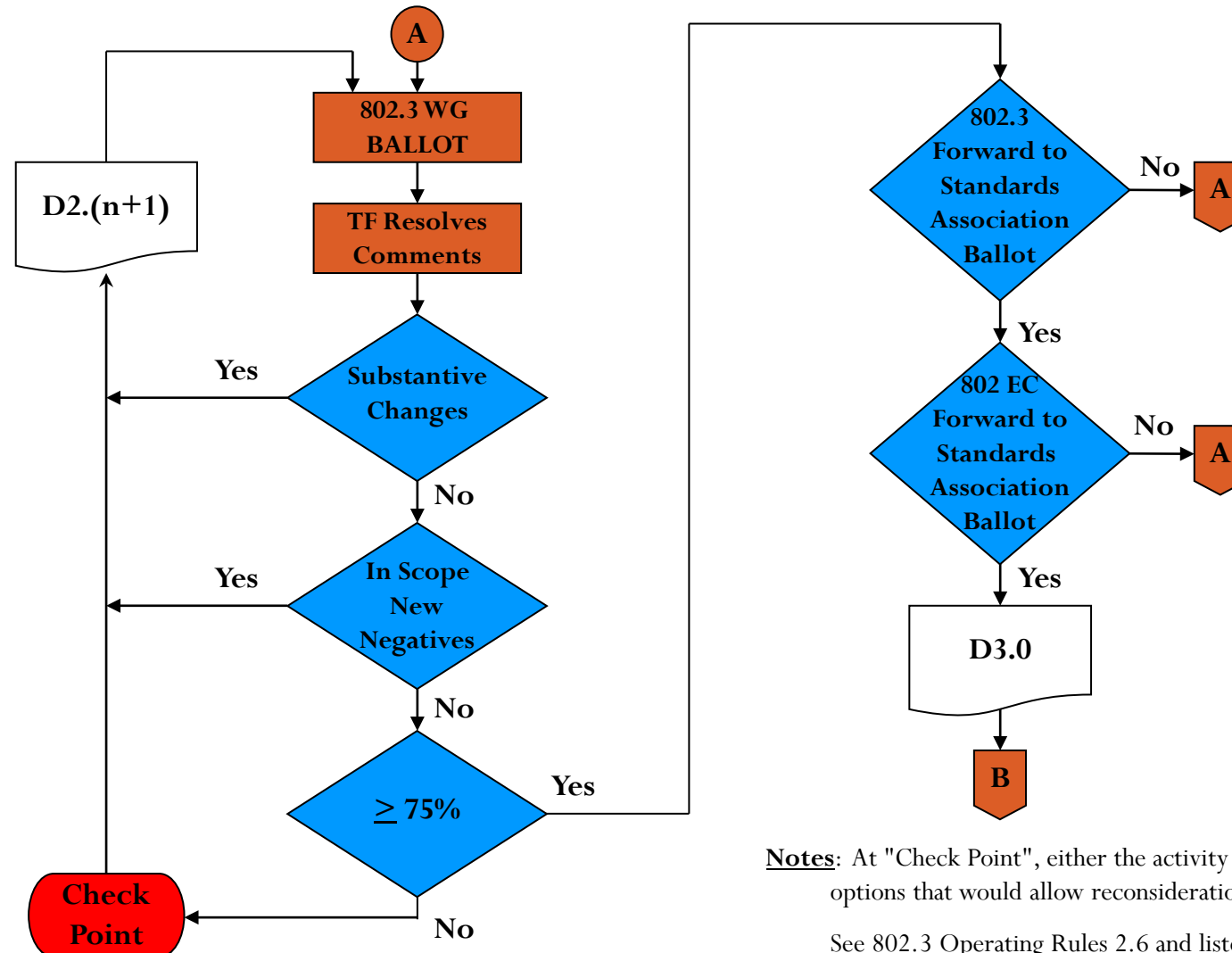


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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



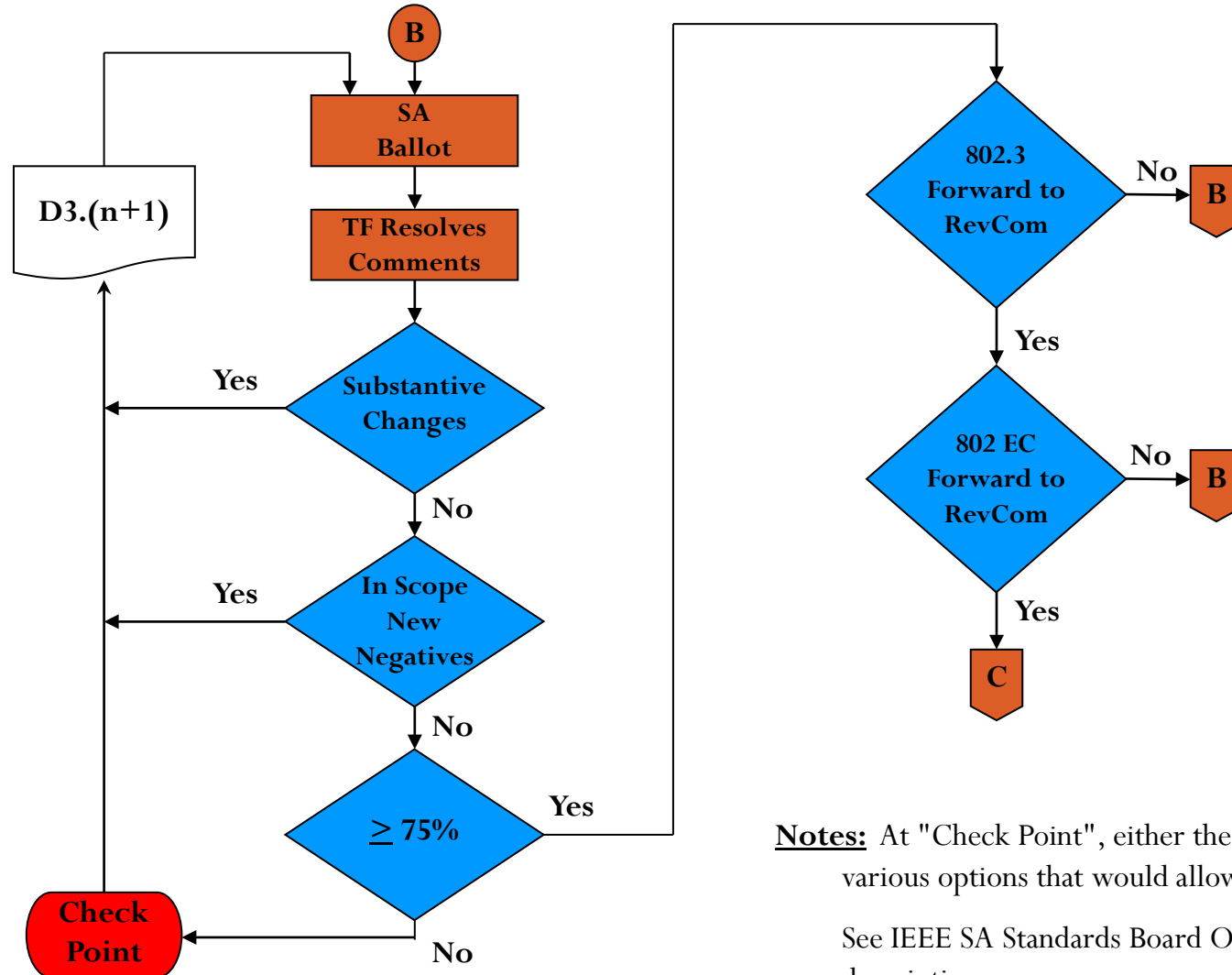
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



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

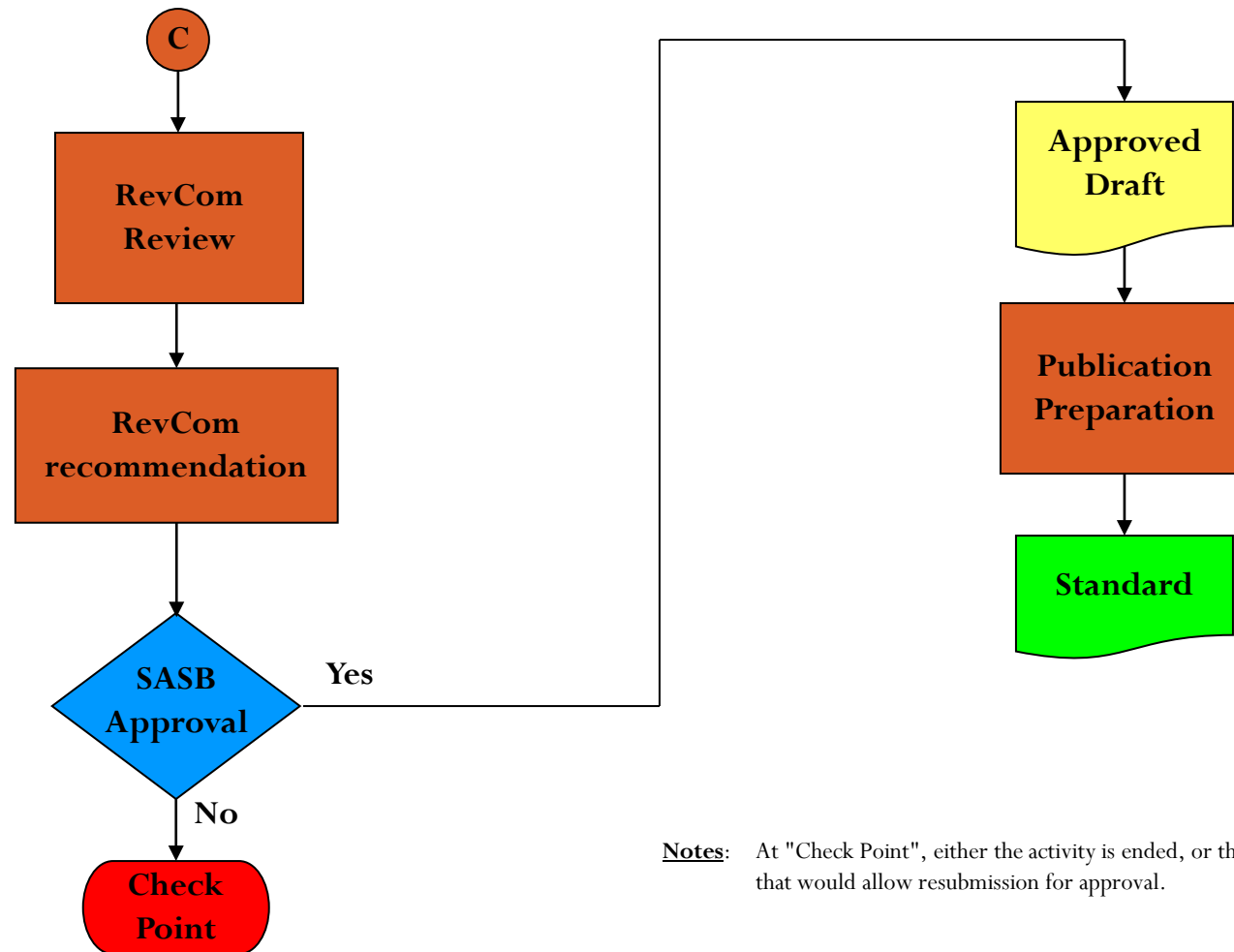
Overview of IEEE 802.3 Standards Process (4/5)- Standards Association (SA) Ballot Phase



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**

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
- 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