Agenda and General Information

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

**IEEE 802 Mar 2024 Plenary
Denver, CO, USA**

**John D'Ambrosia,
Chair, IEEE P802.3cw 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 Mar 2024 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**)**
  - **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**

State of IEEE P802.3df

- **P802.3 was approved as a new standard by the IEEE SA Standards Board on 15 February 2024.**

- **The P802.3df Editorial Team is working with the Standards Publication Department.**

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

- **Approve Agenda**
- **Approve Minutes (see next page)**
- **Meeting 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**
- **802.3dj Presentations**
- **802.3dj Discussion, Strawpolls, Motions**
- **Future Meetings**
  - **Task Force**
  - **Ad hocs**
- **Closing Business (including P802.3cw PAR Withdrawal)**

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

Minutes to be Approved

- **Jan 2024 Joint IEEE P802.3cw / df / dj Plenary Session - https://www.ieee802.org/3/dj/public/23_11/minutes_3cwdfdj_2311_unapproved.pdf**

- **Electrical Ad hoc –**
  - **29 Feb 2024 – https://www.ieee802.org/3/dj/public/adhoc/electrical/24_0229/minutes_3dj_elec_240229_unapproved.pdf Joint 802.3dj logic / 802.3dj optical Ad hoc**

- **Optical and Logic Ad hoc**
  - **22 Feb 2024– https://www.ieee802.org/3/dj/public/adhoc/optics/0224_OPTX/minutes_3dj_optx_240222_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://ieee802.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**
    - **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**
    - **Timeline: 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 P802.3dj 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/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_230518.pdf**
  - **Adopted Timeline: 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**
  - **PAR Withdrawal**

- **IEEE P802.3dj**
  - **Continued baseline selection and refinement**
  - **Consideration of Liaisons**
  - **Seek WG Approval on the 20km SMF Objective**

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 (4/5)- Standards Association (SA) Ballot Phase (802.3cw)
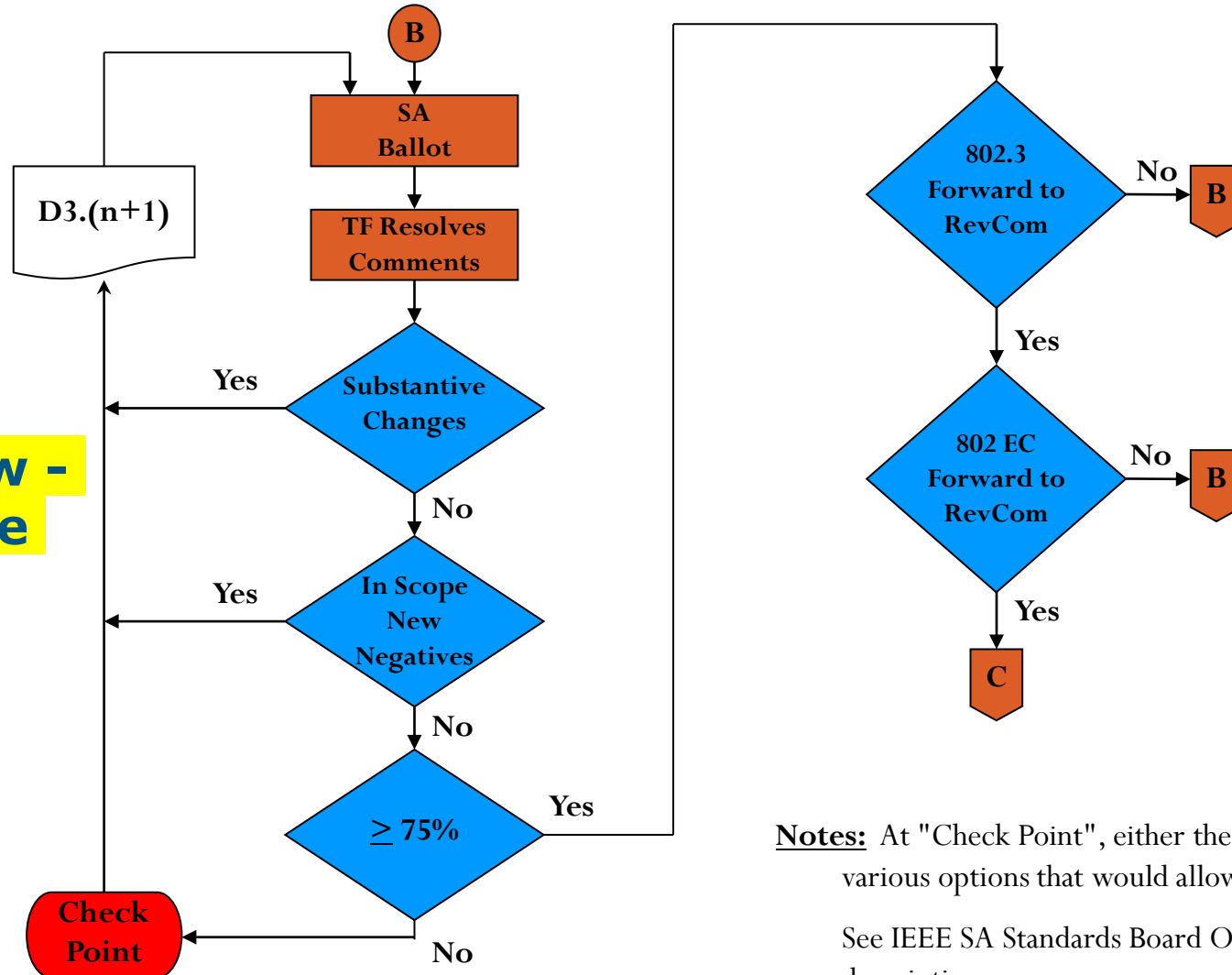
Notes: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

See IEEE SA Standards Board Operation Manual 5.4 for complete description.

Overview of IEEE 802.3 Standards Process (5/5) – Final Approvals / Standard Release (802.3df)
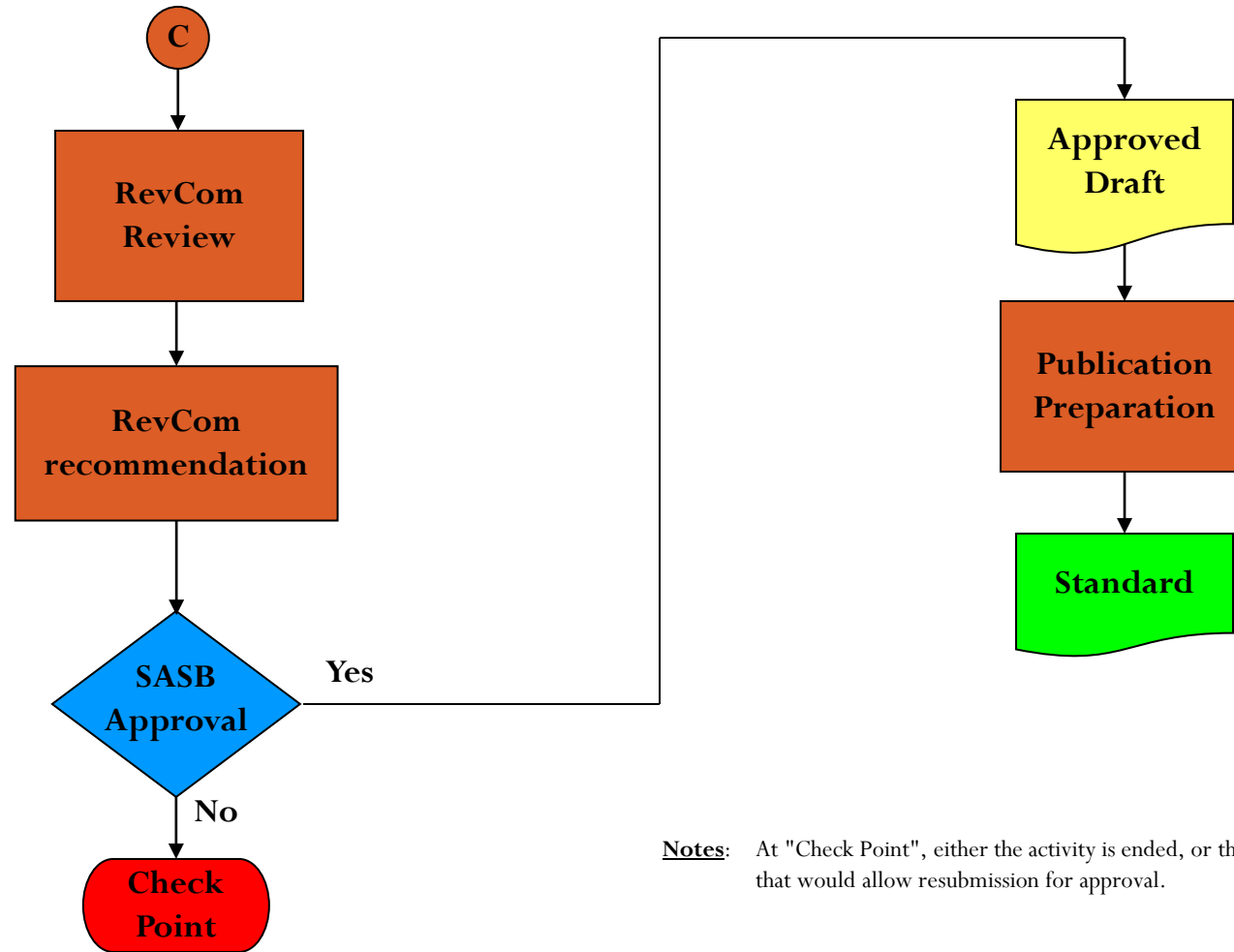
802.3df - We are here

Notes: At "Check Point", either the activity is ended, or there may be various options that would allow resubmission for approval.

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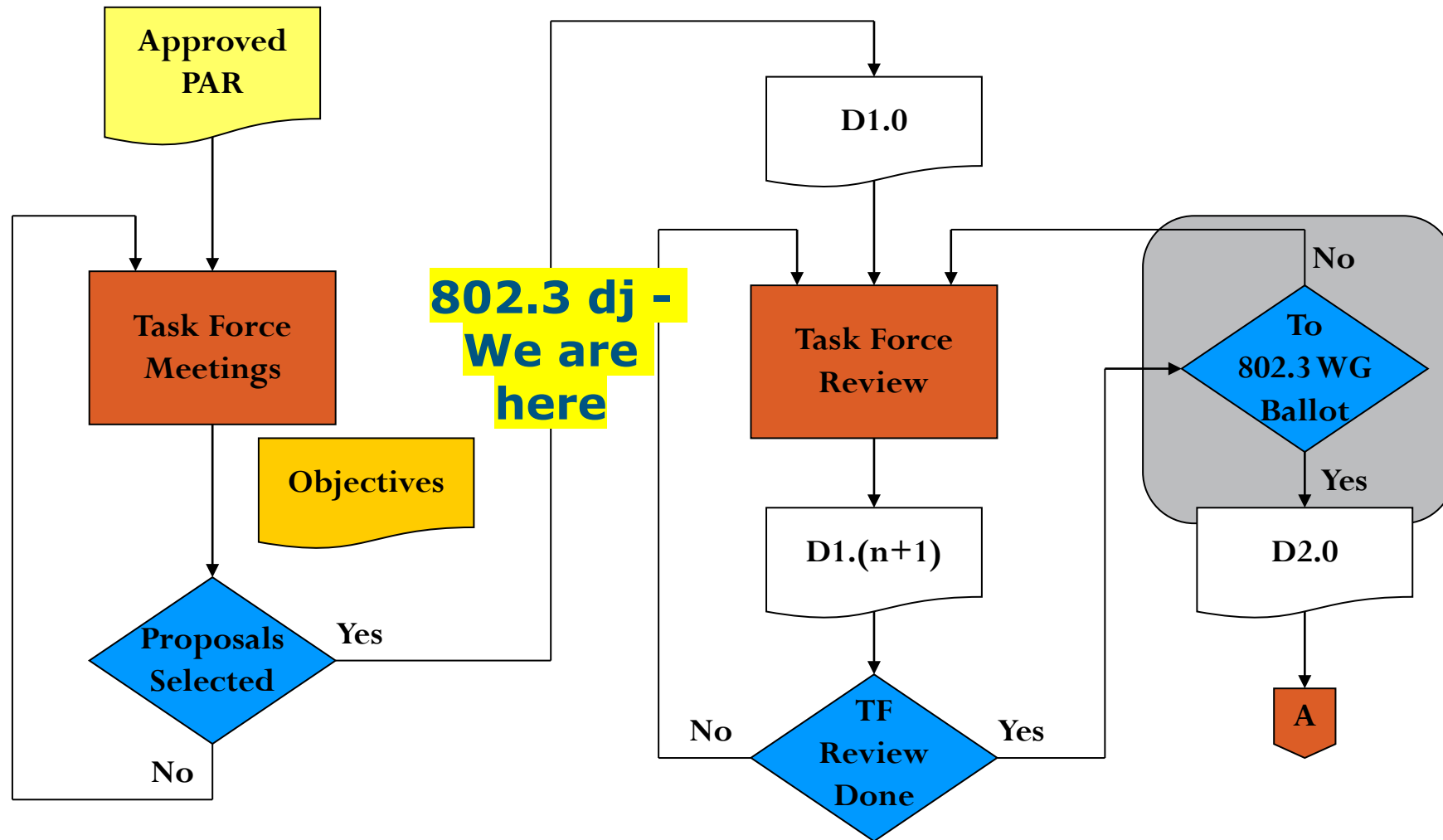
Voting

- Per 802.3 WG Chair - "**The plenary session will be held at The plenary session will be held at the Hyatt Regency Denver at the Colorado Convention Center, Denver, CO, 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/private/email/msg02780.html

- 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

  <mark>**Note – Chair reserves the right to take informative straw polls by 802.3 WG voting membership**</mark>

- 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/msg01206.html**
- **IEEE P802.3dj - https://www.ieee802.org/3/B400G/email/msg01084.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 or http://ieee802.org/3/policies.html.**

Liaisons Overview (As of 07 Mar 2024)

- **Incoming: MOPA to IEEE 802.3: Time synchronization error in PTP networks**

  - https://www.ieee802.org/3/minutes/nov23/incoming/MOPA_to_IEEE_802p3_231102_Redacted.pdf

  - **Proposed Response -** https://www.ieee802.org/3/dj/public/24_03/dambrosia_3dj_01_2403_Redacted.pdf

- **Outgoing: OIF – IEEE P802.3dj 800 GbE Coherent PHYs**

  - https://www.ieee802.org/3/dj/public/24_03/dambrosia_3dj_02a_2403_Redacted.pdf

- **Incoming: ITU SG15 reply to IEEE 802.3: LS/r regarding G.652 fiber link property (reply to IEEE802.3EthernetWG-LS129)**

  - https://www.ieee802.org/3/minutes/jan24/incoming/SG15-LS86_Redacted.pdf

  - **Proposed Response –** https://www.ieee802.org/3/dj/public/24_03/nowell_3dj_02a_2403_Redacted.pdf

- **Incoming: OIF: Collaboration on Energy Efficiency with IEEE 802.3**

  - https://www.ieee802.org/3/minutes/jan24/incoming/OIF_liaison_IEEE_EEI_Project_21Jan24_Redacted.pdf

Summary IEEE P802.3dj Progress @ End of Jan 2024 Interim – Logic

Ethernet Rate	AUI	Backplane	CU Cable	SMF 500m/2km	SMF 10km 4 Wavelength	SMF 10km 1 Wavelength	SMF 20km 1 Wavelength	SMF 40km
	PCS/FEC/PMA?	PCS/FEC/PMA?	PCS/FEC/PMA?	PCS/FEC/PMA?	PCS/FEC/PMA?	PCS/FEC/PMA?	PCS/FEC/PMA?	PCS/FEC/PMA?
200 Gb/s	🟩	🟩	🟩	🟩				
400 Gb/s	🟩	🟩	🟩	🟩				
800 Gb/s	🟩	🟩	🟩	🟩	🟩	🟩		🟩
1.6 Tb/s	🟩	🟩	🟩	🟨				

Adopted baselines   **Proposed Baselines**

Summary IEEE P802.3dj Progress @ End of Jan 2024 Interim – PMDs (& AUIs)

Ethernet Rate	Assumed Signaling Rate	AUI	Backplane	Cu Cable	SMF 500m	SMF 2km	SMF 10km	SMF 20km	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	1.800GBASE-DR4 2.800GBASE over 4λ	1. 800GBASE-DR4-2 2. 800GBASE-FR4	800GBASE-LR4		
800 Gb/s	800 Gb/s						Over single SMF in each direction Coherent	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							
1.6 Tb/s	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**

The COM Ad hoc - Chartering

- ▣ The following charter expires at the beginning of the May 2024 Interim
- ▣ Chair – Kent Lusted

- ▣ Charter
  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.

IEEE P802.3dj 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.

Ad hoc Summary

- **802.3dj Ad Hoc Meetings**
  - **Joint Logic / Optics Ad hoc (19th 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/24_01/nowell_3dj_01_2401.pdf**

  - **Electrical Ad hoc (2024)**
    - **Meeting materials - https://www.ieee802.org/3/dj/public/adhoc/electrical/index.html**
    - **Ad hoc Report - https://www.ieee802.org/3/dj/public/24_01/lusted_3dj_01_2401.pdf**

Mar 2024 Session (Mon 11 Mar)

Mon	11-Mar-24			
Time	Presenter	Affiliation	Title	File Name
1:00 PM	John D'Ambrosia	Futurewei, U.S.	Agenda and General Information - Mar Plenary	agenda_3cwdj_2403
1:30 PM	Kent Lusted	Intel	Electrical Track Progress Update - March Plenary	lusted_3dj_02_2403
1:40 PM	Kent Lusted	Intel	COM Reference RX Progress Update – 11 March 2024	lusted_3dj_03_2403
2:00 PM	Tobey P.-R. Li	MediaTek	Update to 200Gbps/Lane Electrical Interface Link Simulation	lit_3dj_01_2403
2:30 PM	Ali Ghiasi	Ghiasi Quantum	Initial C2M Analysis on Select Channels with COM 4.3	ghiasi_3dj_03_2403
3:00 PM	Break			
3:30 PM	Mike Li	Intel	212.5 Gbps PAM4 COM Link Simulations and Analyses for CR and KR Channels: COM FFE is Determined with MMSE	lim_3dj_02_2403
3:50 PM	Hossein Shakiba	Huawei	MLSE Implementation Penalty Follow-up	shakiba_3dj_01_2403
4:20 PM	Chris Diminico	PHY-SI/SenTekse	Considerations for CR Baseline: MDI and Test Fixtures	diminico_3dj_01_2403
4:50 PM	Mike Li	Intel	200G/Lane KR Baseline for 802.3dj	lim_3dj_01_2403
5:10 PM	Discussion & Straw Polls			
6:00 PM	Recess for Day			

Mar 2024 Session (Tues 12 Mar)

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

Tues	12-Mar-24			
Time	Presenter	Affiliation	Title	File Name
8:00 AM	John D'Ambrosia	Futurewei, U.S. Subsidiary of Huawei	Chair's Opening Comments	
8:10 AM	Howard Heck	Intel	Server/NIC Chip-to-Chip Channels & Reference Receiver Analysis	heck_3dj_01_2403
8:35 AM	Kent Lusted	Intel	AUI-C2C Only DER_0 baseline proposal for Type 1 and Type 2 PHYs	lusted_3dj_04_2403
8:55 AM	Adee Ran	Cisco	Proposal for automatic polarity detection and correction using the start-up protocol	ran_3dj_01_2403
9:15 AM	Adee Ran	Cisco	Proposal for adding swing control to the start-up protocol	ran_3dj_02_2403
10:00 AM	Break			
10:30 AM	Adee Ran	CiscoIntel	Proposal for training patterns for the start-up protocol	ran_3dj_03_2403
10:55 AM	Adee Ran	Cisco	Proposal for changes in the start-up protocol to enable segment-by-segment training - Part 1:	ran_3dj_04_2403
11:25 AM	Adee Ran	Cisco	Proposal for changes in the start-up protocol to enable segment-by-segment training - Part 2:	ran_3dj_05_2403
12:00 PM	Lunch			
1:30 PM	Discussion / Straw polls			
3:00 PM	Break			
3:30 PM	John D'Ambrosia Matt Brown	Futurewei, U.S. Subsidiary of Huawei	IEEE P802.3dj - Schedule Discussion	dambrosia_3dj_03_2403
3:50 PM	Matt Brown	Alphawave Semi	IEEE P802.3dj Editorial Team Report	brown_3dj_01_2403
4:05 PM	Matt Brown	Alphawave Semi	"Architectural Considerations	brown_3dj_02_2403
4:35 PM	Mark Nowell	Cisco	Optical Track Chair Intro	nowell_3dj_03_2403
4:45 PM	Ali Ghiasi	Ghiasi Quantum / Marvell	Baseline CRU Implementation Text for FECo and FECi PMDs	ghiasi_3dj_01_2403
5:15 PM	David Malicoat	Senko	400GBASE-DR2 MDI baseline proposal for 802.3dj	malicoat_3dj_01_2403
5:35 PM	Discussion / Straw polls			
6:00 PM	Recess for Day			

Mar 2024 Session (Wed 13 Mar)

Wed	13-Mar-24			
	Presenter	Affiliation	Title	File Name
8:00 AM	John D'Ambrosia	Futurewei, U.S.	Chair's Opening Comments	
8:05 AM	Earl Parsons	Commscope	Realistic cable lengths and chromatic dispersion values for channel modeling	parsons_3dj_01_2403
8:35 AM	Jose Castro	Panduit	Statistics of Chromatic Dispersion Parameters	castro_3dj_01_2403
9:05 AM	Roberto Rodes	Coherent	Optical channel model proposal update	rodes_3dj_01_2403
9:35 AM	Kishore Kota	Marvell	Proposed laser specification baseline for 800GBASE-LR1	kota_3dj_01_2403
10:00 AM	Break			
10:30 AM	Eric Maniloff	Ciena	Options for addressing 20km 800Gb/s SMF objective	maniloff_3dj_01_2403
11:00 AM	Haojie Wang	China Mobile	Baseline proposal for 20km objective and update to the baseline for 40km objective	wang_3dj_01_2403
11:30 AM	Peter Stassar	Huawei	Further considerations on C-band channel losses for 20 km and 40 km 800G applications in P802.3dj	stassar_3dj_01_2403
12:00 PM	Lunch			
1:30 PM	Discussion / Straw polls			
2:00 PM	Tom Huber	Nokia	Aligning 800GBASE-ER1 logic to OIF 800ZR logic	huber_3dj_01_2403
2:25 PM	Ulf Parkholm	Ericsson	Consideration of Auto Negotiation in 5G wireless transport networks	parkholm_3dj_01_2403
2:50 PM	Matt Brown	Alphawave Semi	Further considerations regarding optical auto-negotiation (OAN)	brown_3dj_03_2403
3:00 PM	Break			
3:30 PM	Ali Ghiasi	Ghiasi Quantum / Marvell	Benefit of Optical Link Training "OLT"	ghiasi_3dj_02_2403
4:00 PM	Strawpolls & Discussion			
6:00 PM	Recess for Day			

Mar 2024 Session (Thurs 14 Mar)

Thurs	14-Mar-24			
	Presenter	Affiliation	Title	File Name
8:00 AM	John D'Ambrosia	Futurewei, U.S.	Chair's Opening Comments	
8:05 AM	Discussion / Straw Polls / Motions			
10:00 AM	Break			
10:30 AM	Discussion / Straw Polls / Motions			
11:30 AM	Closing Business			
12:00 PM	Meeting Adjourn			

Future Meetings
IEEE P802.3cw: https://www.ieee802.org/3/cw/public/index.html
IEEE P802.3dj: https://www.ieee802.org/3/dj/public/index.html

- IEEE P802.3dj Task Force

  – Week of May 13 – 17, 2024

    ▪ Westin Annapolis, Annapolis, MD USA

- Any additional meetings will be announced, as appropriate.

Future Ad hoc Meetings

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

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

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

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

THANK YOU!

BACKUP
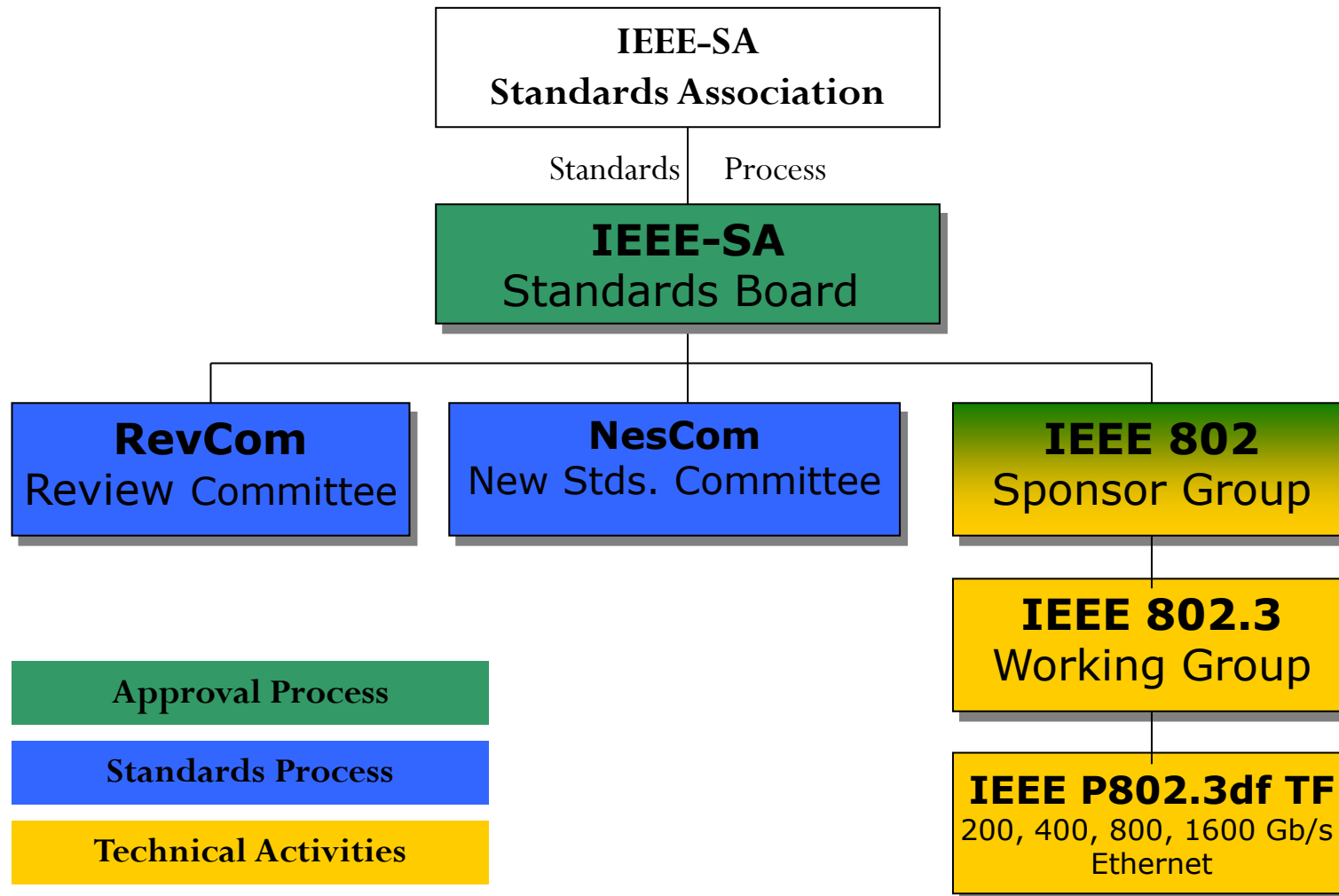
The Role of the Chair / Vice Chair

- **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

IEEE-SA
Standards Association

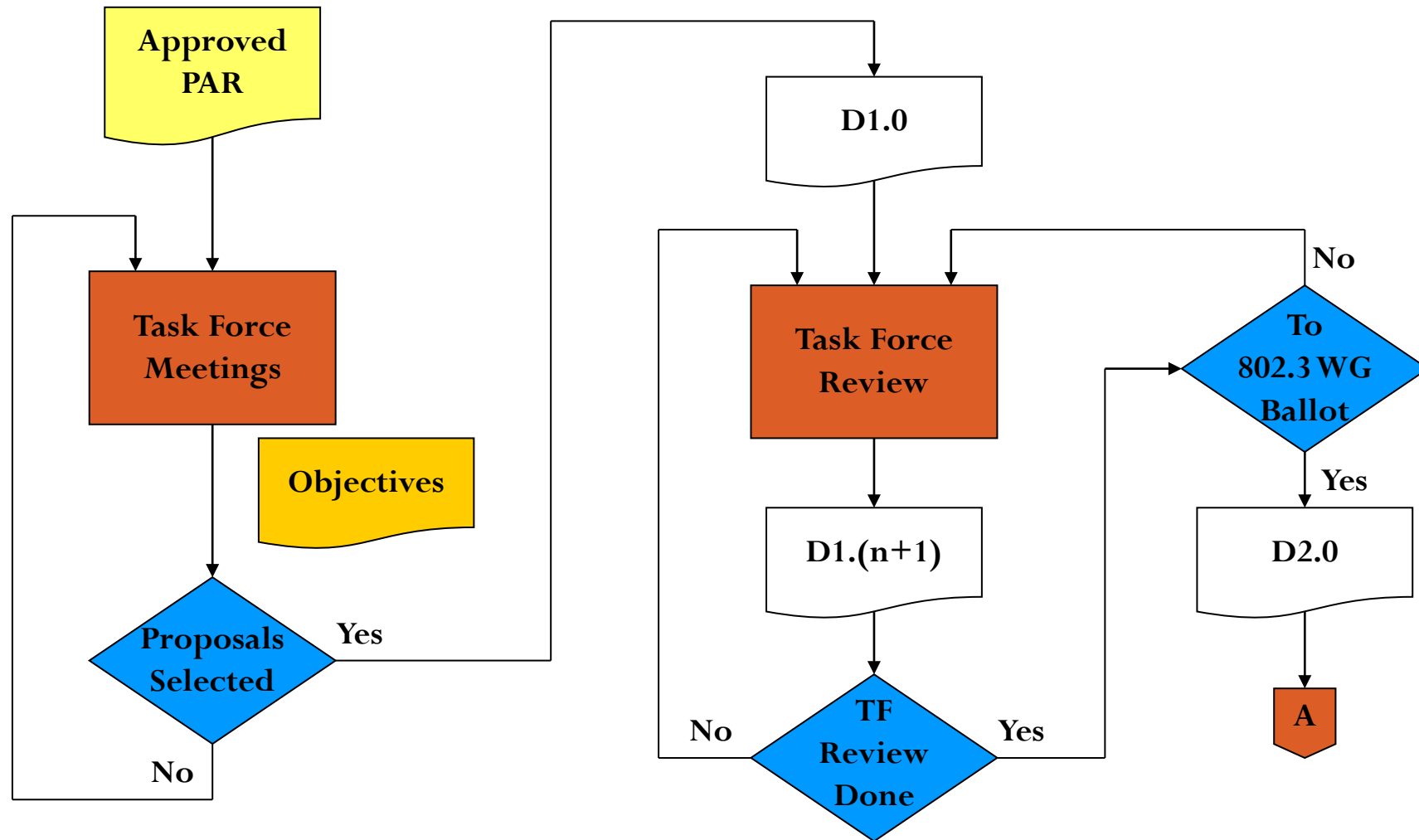Standards | Process

IEEE-SA
Standards Board

RevCom
Review Committee

NesCom
New Stds. Committee

IEEE 802
Sponsor Group

IEEE 802.3
Working Group

IEEE P802.3df TF
200, 400, 800, 1600 Gb/s
Ethernet

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"**
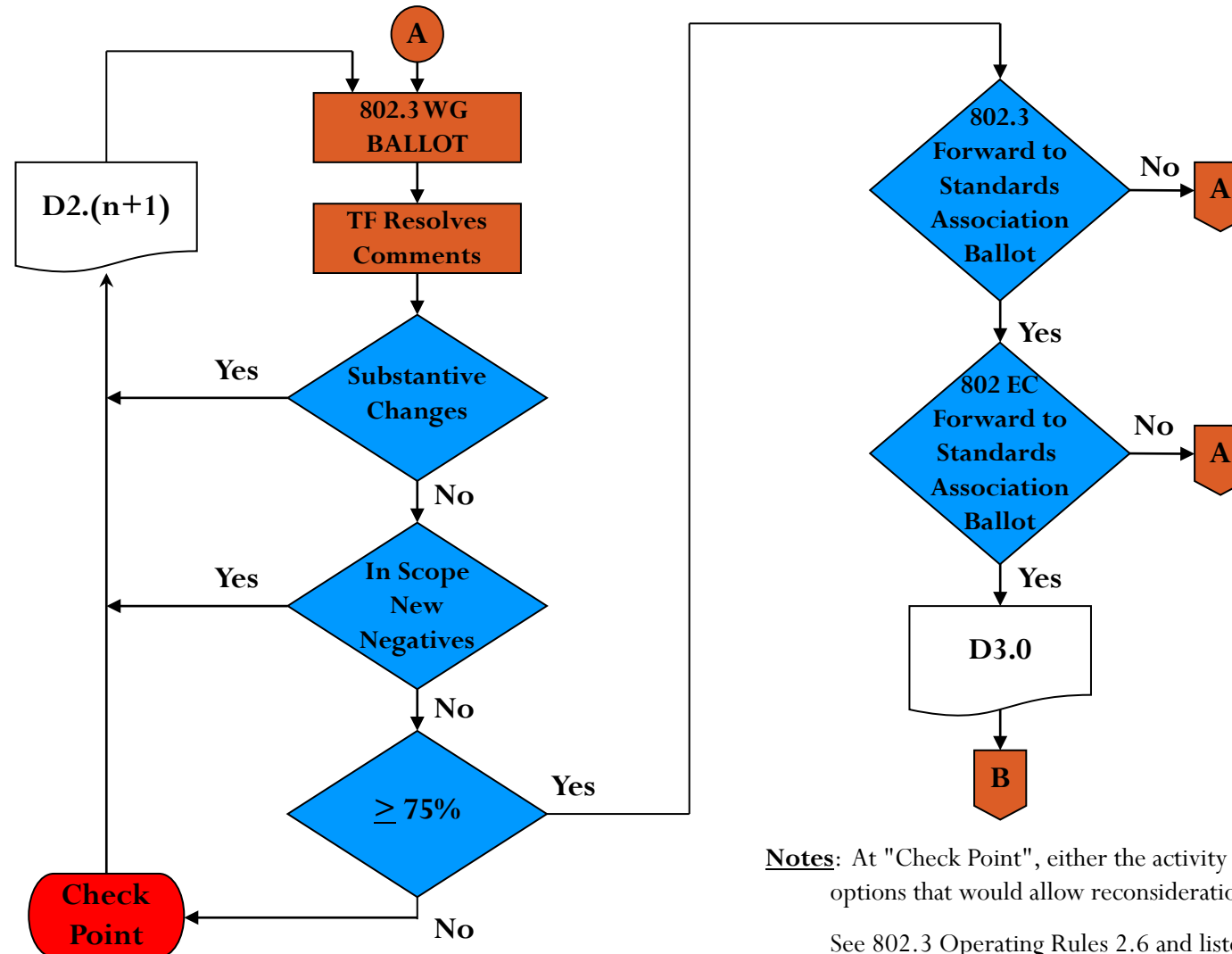 http://standards.ieee.org/develop/policies/antitrust.pdf
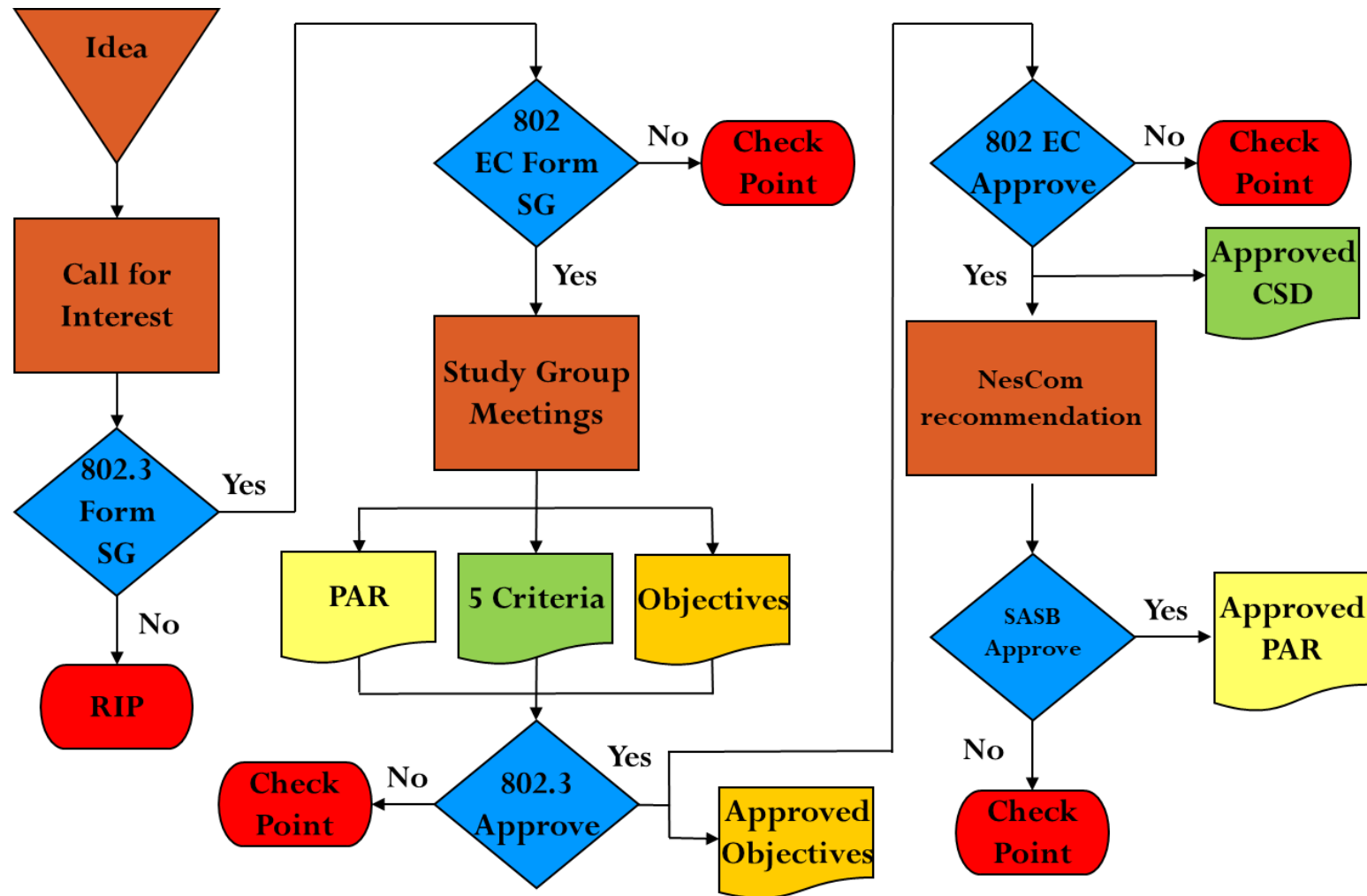
Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.
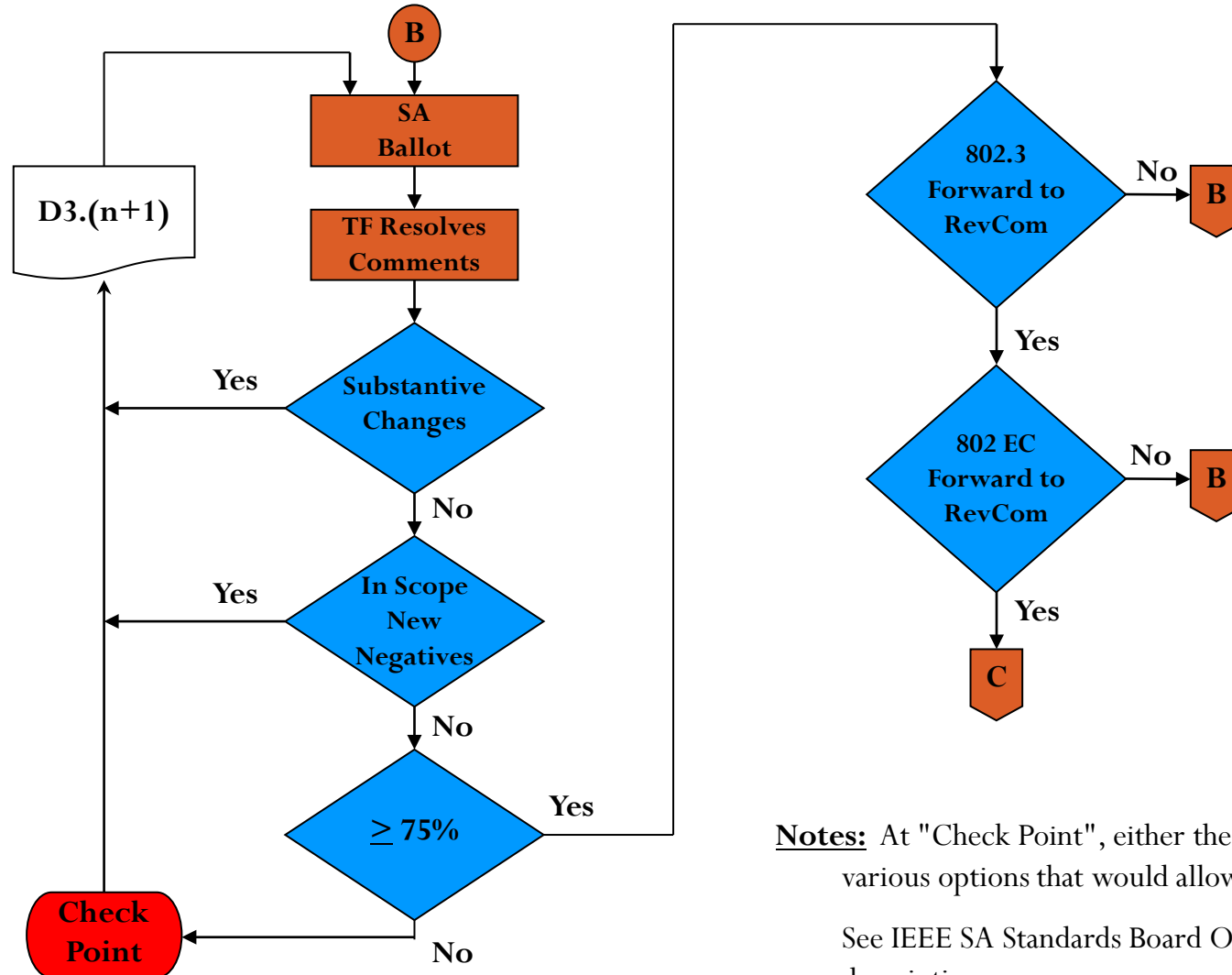
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase

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
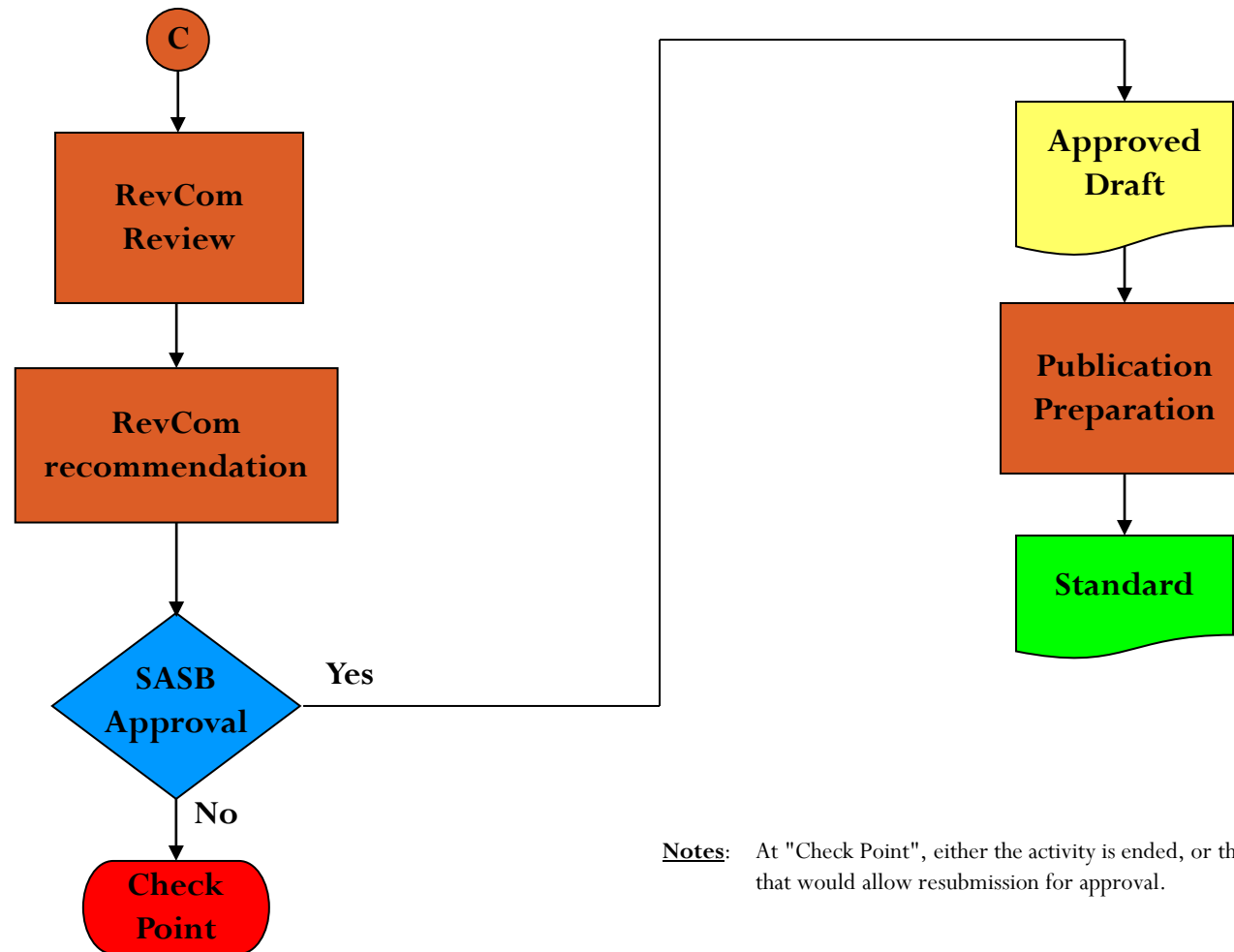
Notes: At "Check Point", either the activity is ended, or there may be various options that would allow resubmission for approval.

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 <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

08 June 2021 – Slide 2

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

08 June 2021 – Slide 3

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).

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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.

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IEEE SA Copyright Policy

- The IEEE SA Copyright Policy is described in the IEEE SA Standards Board Bylaws and IEEE SA Standards Board Operations Manual

- IEEE SA Copyright Policy, see
  Clause 7 of the IEEE SA Standards Board Bylaws
  https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7
  Clause 6.1 of the IEEE SA Standards Board Operations Manual
  https://standards.ieee.org/about/policies/opman/sect6.html

  - IEEE SA Copyright Permission
  - https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/permissionltrs.zip

  - IEEE SA Copyright FAQs
  - http://standards.ieee.org/faqs/copyrights
    - IEEE SA Best Practices for IEEE Standards Development
  - http://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/best_practices_for_ieee_standards_development_051215.pdf

  - Distribution of Draft Standards (see 6.1.3 of the SASB Operations Manual)
  - https://standards.ieee.org/about/policies/opman/sect6.html

IEEE SA STANDARDS ASSOCIATION

IEEE

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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