

# AGENDA AND FRONT MATERIAL

IEEE P802.3CK - 100 GB/S, 200 GB/S, AND 400 GB/S  
ELECTRICAL INTERFACES TASK FORCE

BETH KOCHUPARAMBIL, EMPLOYED BY AND AFFILIATED WITH CISCO SYSTEMS

APRIL 6, 2022

# MEETING

- Attendance
  - Attendee names and affiliations for today's ad hoc will be taken from the WebEx participants list.
  - Please ensure that your full name and employer/affiliation are indicated correctly, if not, please send an e-mail to Beth Kochuparambil ([edonnay at cisco.com](mailto:edonnay@cisco.com)).
  - No IMAT; no official attendance record towards voting rights.
  
- Please mute your lines if you are not speaking
  - If using computer audio, use SPACEBAR to mute/unmute

# AGENDA

- Approval of the Agenda
- Approval of March 30 ad hoc minutes –  
[https://www.ieee802.org/3/ck/public/adhoc/mar30\\_22/minutes\\_033022\\_3ck\\_adhoc.pdf](https://www.ieee802.org/3/ck/public/adhoc/mar30_22/minutes_033022_3ck_adhoc.pdf)
- IEEE Participation Requirements reminder (see below for link)
- IEEE Copyright reminder (see below for link)
- IEEE Patent Policy reminder (see below for links)
- Task Force Status
- Chief Editor's Report
- Technical Presentations
  - Residual ISI Specification, Alex Rysin
  - Residual Intersymbol Interference Adam Rysin
  - Loss from TPO to TP2, Piers Dawe
- The presentations are posted to the ad hoc Webpage: <https://www.ieee802.org/3/ck/public/adhoc/index.html>

## 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

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## 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

## **IEEE SA COPYRIGHT POLICY**

**By participating in this activity, you agree to comply with the IEEE Code of Ethics, all applicable laws, and all IEEE policies and procedures including, but not limited to, the IEEE SA Copyright Policy.**

- Previously Published material (copyright assertion indicated) shall not be presented/submitted to the Working Group nor incorporated into a Working Group draft unless permission is granted.
- Prior to presentation or submission, you shall notify the Working Group Chair of previously Published material and should assist the Chair in obtaining copyright permission acceptable to IEEE SA.
- For material that is not previously Published, IEEE is automatically granted a license to use any material that is presented or submitted.

# **IEEE SA COPYRIGHT POLICY**

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

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

■ IEEE SA Copyright Permission

- <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/permissionltrs.zip>

■ IEEE SA Copyright FAQs

- <http://standards.ieee.org/faqs/copyrights.html/>

■ IEEE SA Best Practices for IEEE Standards Development

- [http://standards.ieee.org/develop/policies/best\\_practices\\_for\\_ieee\\_standards\\_development\\_051215.pdf](http://standards.ieee.org/develop/policies/best_practices_for_ieee_standards_development_051215.pdf)

■ Distribution of Draft Standards (see 6.1.3 of the SASB Operations Manual)

- <https://standards.ieee.org/about/policies/opman/sect6.html>

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## 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 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**

# PARTICIPANTS HAVE A DUTY TO INFORM THE IEEE OF POTENTIALLY ESSENTIAL PATENTS...

## WAYS TO INFORM IEEE

- Cause an LOA to be submitted to the IEEE SA ([patcom@ieee.org](mailto: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.

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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)

# GROUND RULES & OPERATIONS

- Recording is prohibited – Is anyone here press?
- **RESPECT one another**... give it, get it
- Raise your hand or send a chat to be added to the queue

# TASK FORCE STATUS

- CONGRATULATIONS!!! SA Recirculation Ballot closed.
  - 60 comments from 9 commenters
  - Other metrics we watch:

118 Voters	87% Response Rate ( $\geq 75\%$ required)
95 Approve	0% Abstain Rate ( $< 30\%$ required)
7 Disapprove	93% Approval Rate ( $\geq 75\%$ required)
1 Abstain	
103 Ballots returned	
- Draft 3.I is available - <https://www.ieee802.org/3/ck/private/index.html>
  - Username: 802.3ck
- Comments are posted - <https://www.ieee802.org/3/ck/comments/index.html>

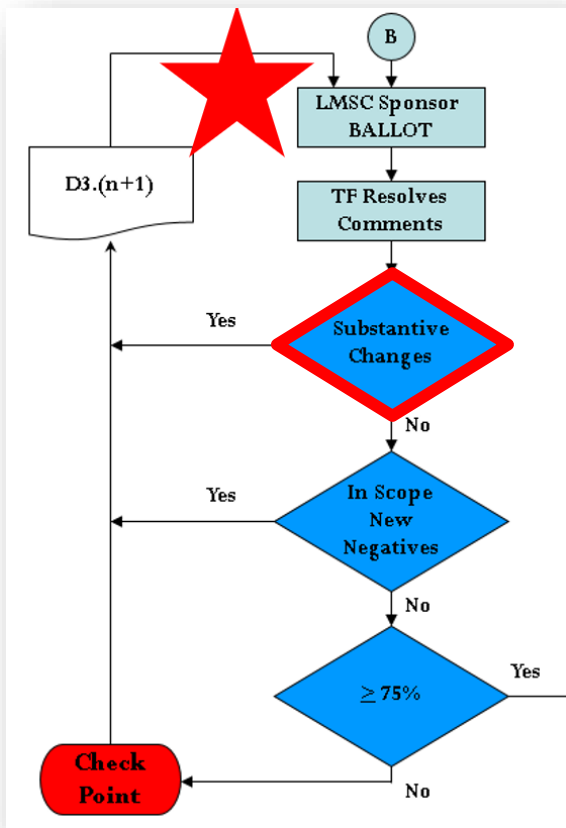
# TASK FORCE STATUS

*Offline consensus building is key!*

## ■ SA Ballot & Comment Resolution

- Comment resolution: Scheduled as 7 meetings
  - Most are 4 hour meetings
  - Comment resolution can end as soon as all on-time comments are addressed. Ideally, using the fewest number of meetings possible.
  - NOTE: 4/21 or 4/27 meetings may run late
- Deadline for presentations regarding a comment is 4/4 AoE
  - Remember to keep these to 7-8 min presentation (15min includes clarifying Q&A)
- Late presentations should have multiple supporters or collaborators – for the purpose of showing offline consensus that has developed
- Similar mode of operation to D3.0 comment resolution

Tuesday, April 12 – 6:30-10:30 am PDT  
Wednesday, April 13 – 6:30-10:30 am PDT  
Tuesday, April 19 – 6:30-10:30 am PDT  
Wednesday, April 20 – 7-10 am PDT  
Thursday, April 21 – 7-10\* am PDT  
Tuesday, April 26 – 6:30-10:30 am PDT  
Wednesday, April 27 – 6:30-10:30\* am PDT  
\*meetings on 4/21 and 4/27 may run passed end time



	Su	M	Tu	W	Th	F	Sa	
March		21						D3.1 - SA Recirculation Ballot
		28						
April		4						D3.1 - Comment Resolution
		11						
		18						
May		25						D3.2 - SA Recirculation Ballot
		2						
		9						
		16						
June		23						D3.2 - Comment Resolution
		30						
		6						
		13						
		20						
July		27						D3.3 - SA Recirculation Ballot
		4						
		11						
		18						
Aug		25						D3.3 - Comment Resolution
		1						
		8						
		15						
Aug		22						D3.4 - SA Recirculation Ballot
		29						

D3.3 - **Plenary - Request (cond) approval**  
 D3.3 - **Comment Resolution**  
 D3.4 - SA Recirculation Ballot  
**RevCom Submittal Deadline → for Sept meeting**  
 D3.4 - Comment Resolution

Remember changes to the draft leave the scope open for the next draft and often need subsequent/smaller tweaks



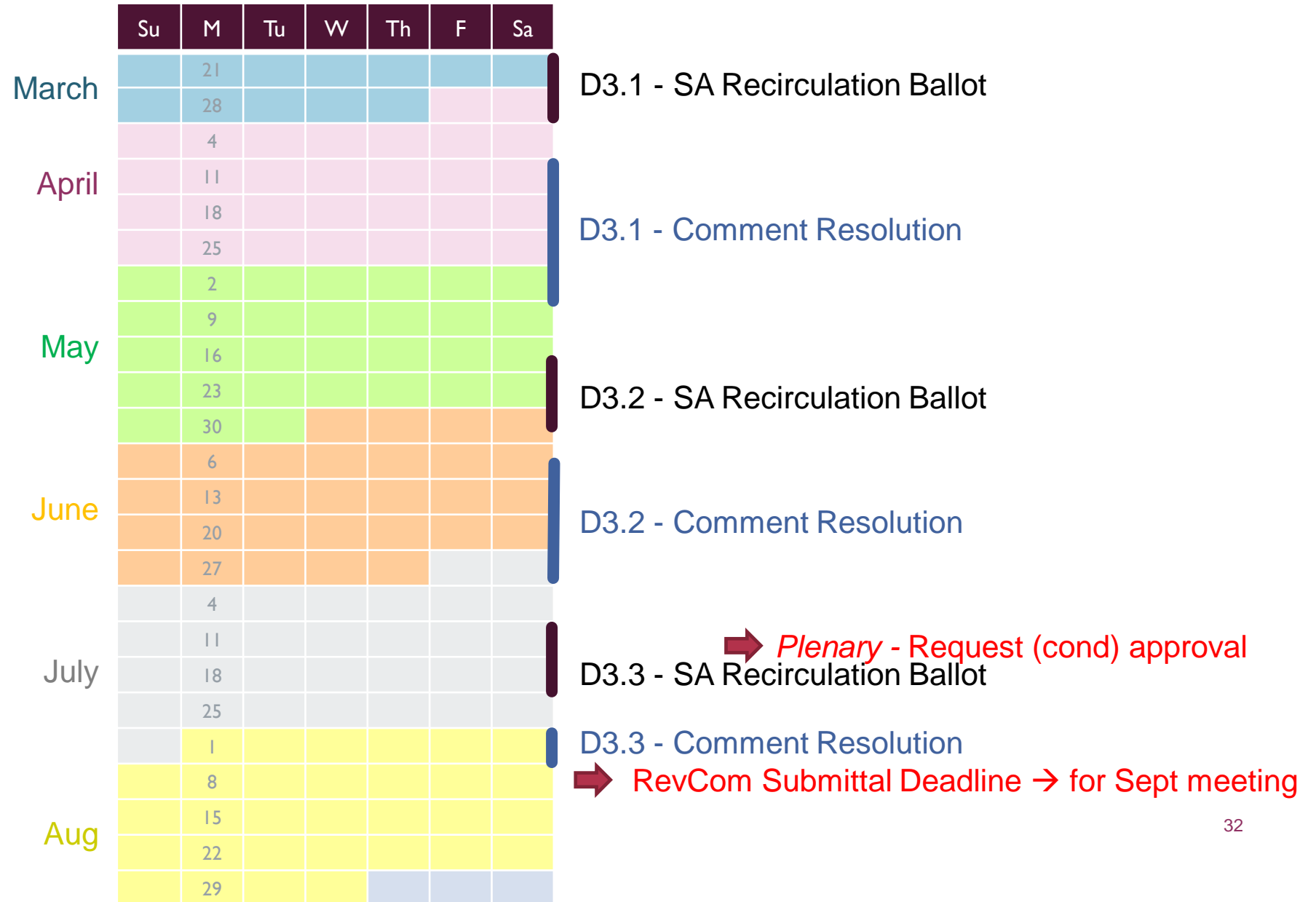


THANK YOU!



## Without Condensing Comment Resolution

Risk of changes in D3.2 causing new negatives or subsequent changes needed in D3.3



# 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

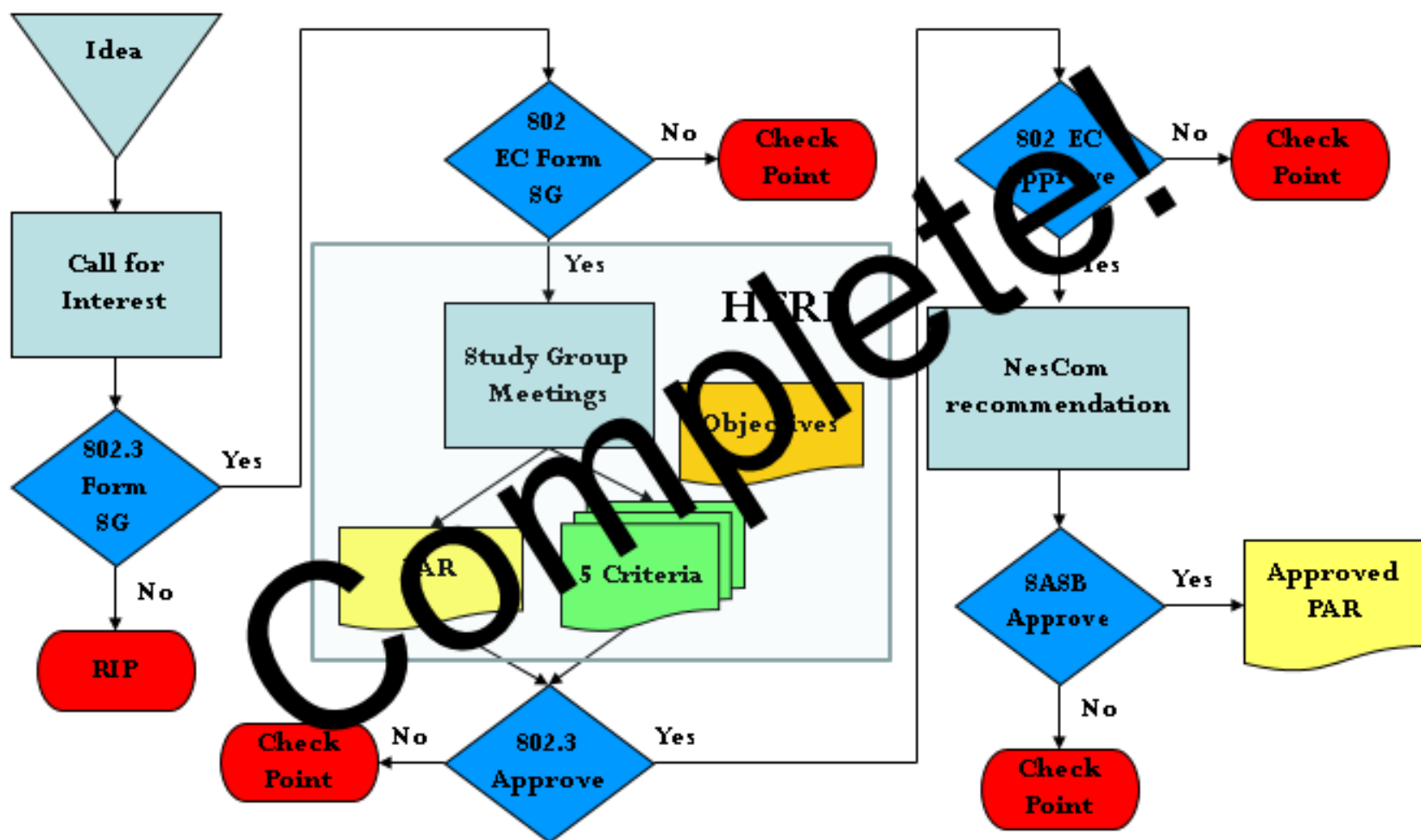
**IEEE 802.3**  
Task Force <sup>35</sup>

Approval Process

Standards Process

Technical Activities

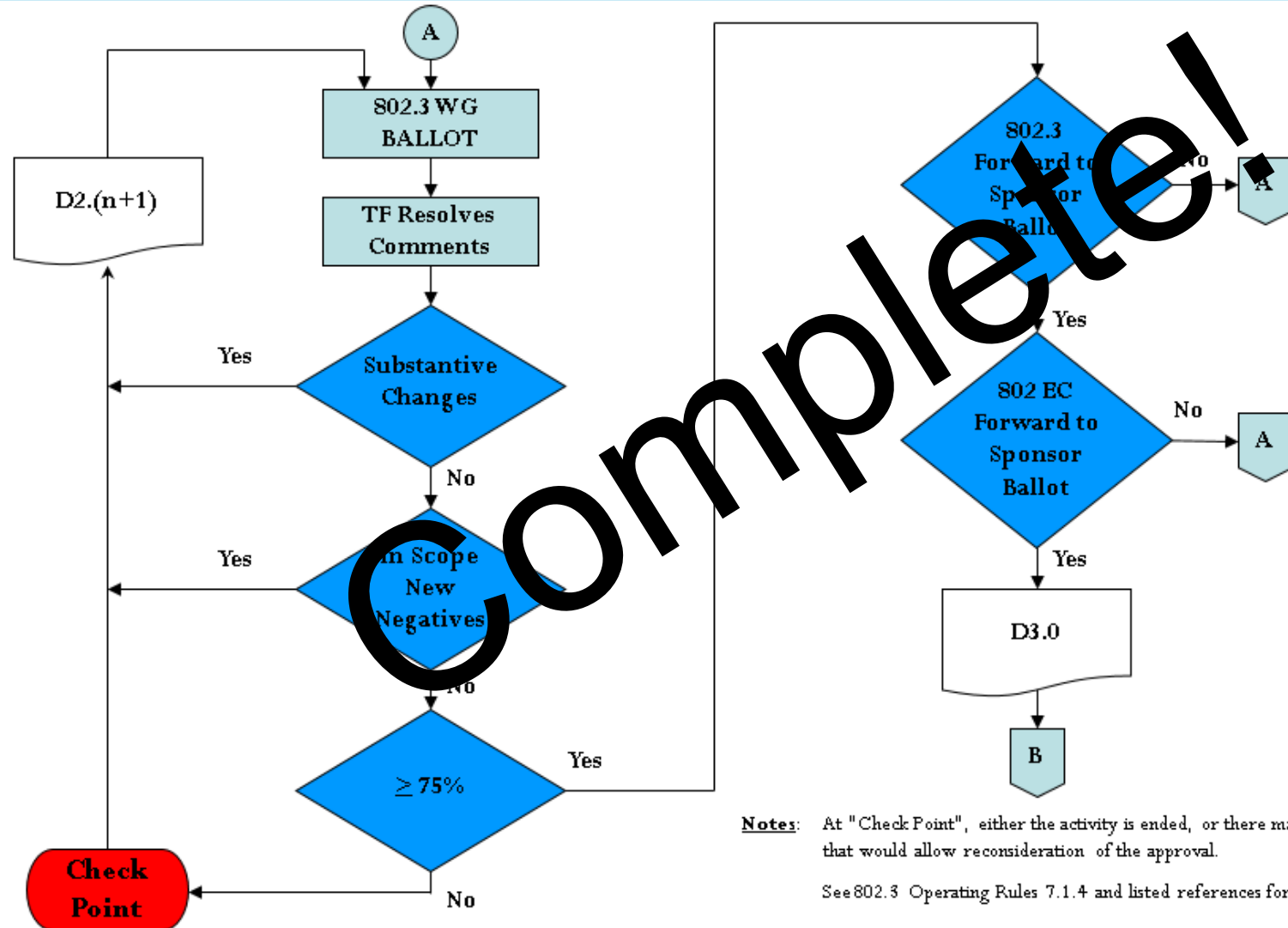
# Overview of IEEE 802.3 Standards Process (1/5)- Study Group Phase



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



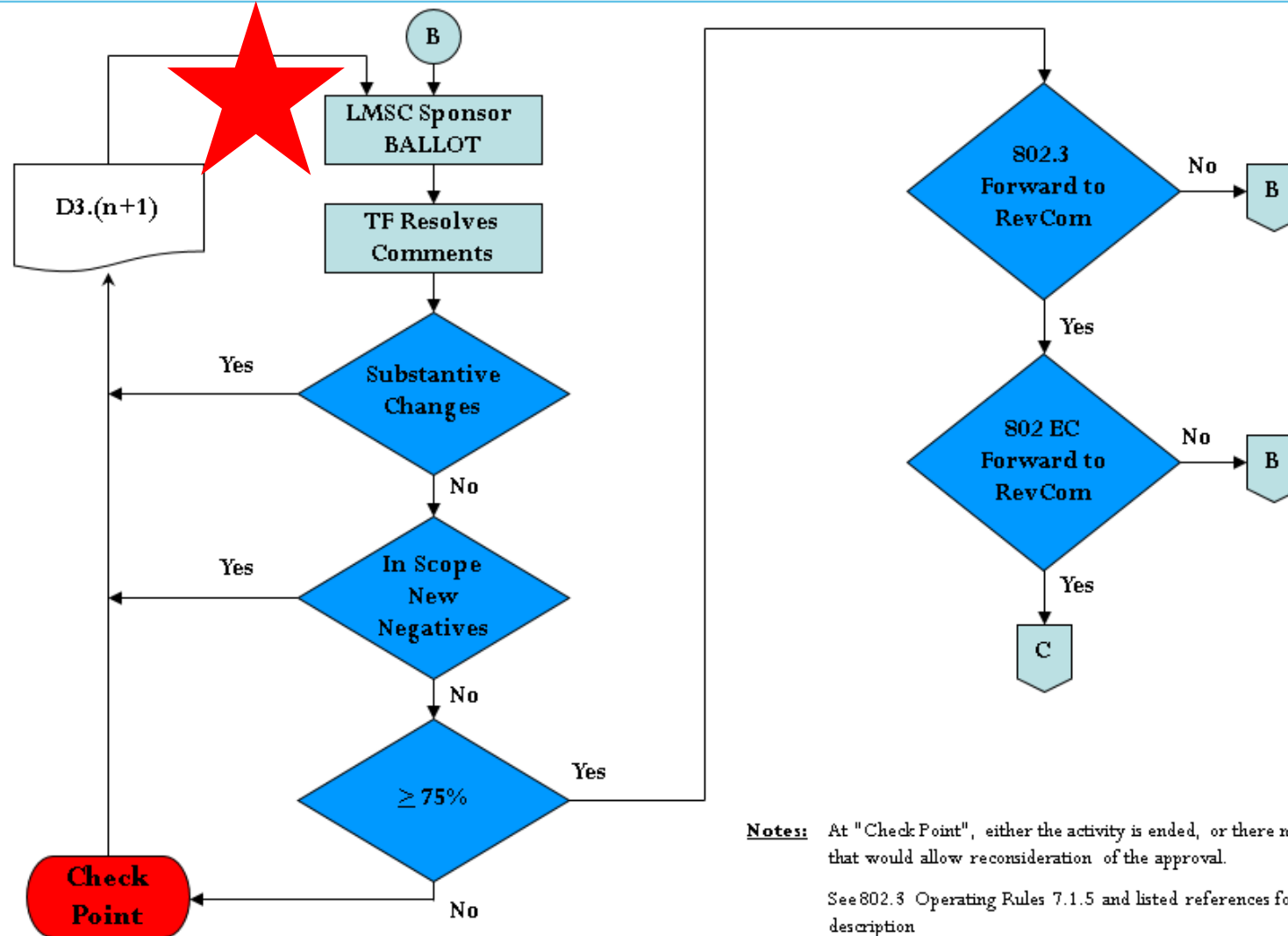
# Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



**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 7.1.4 and listed references for complete description

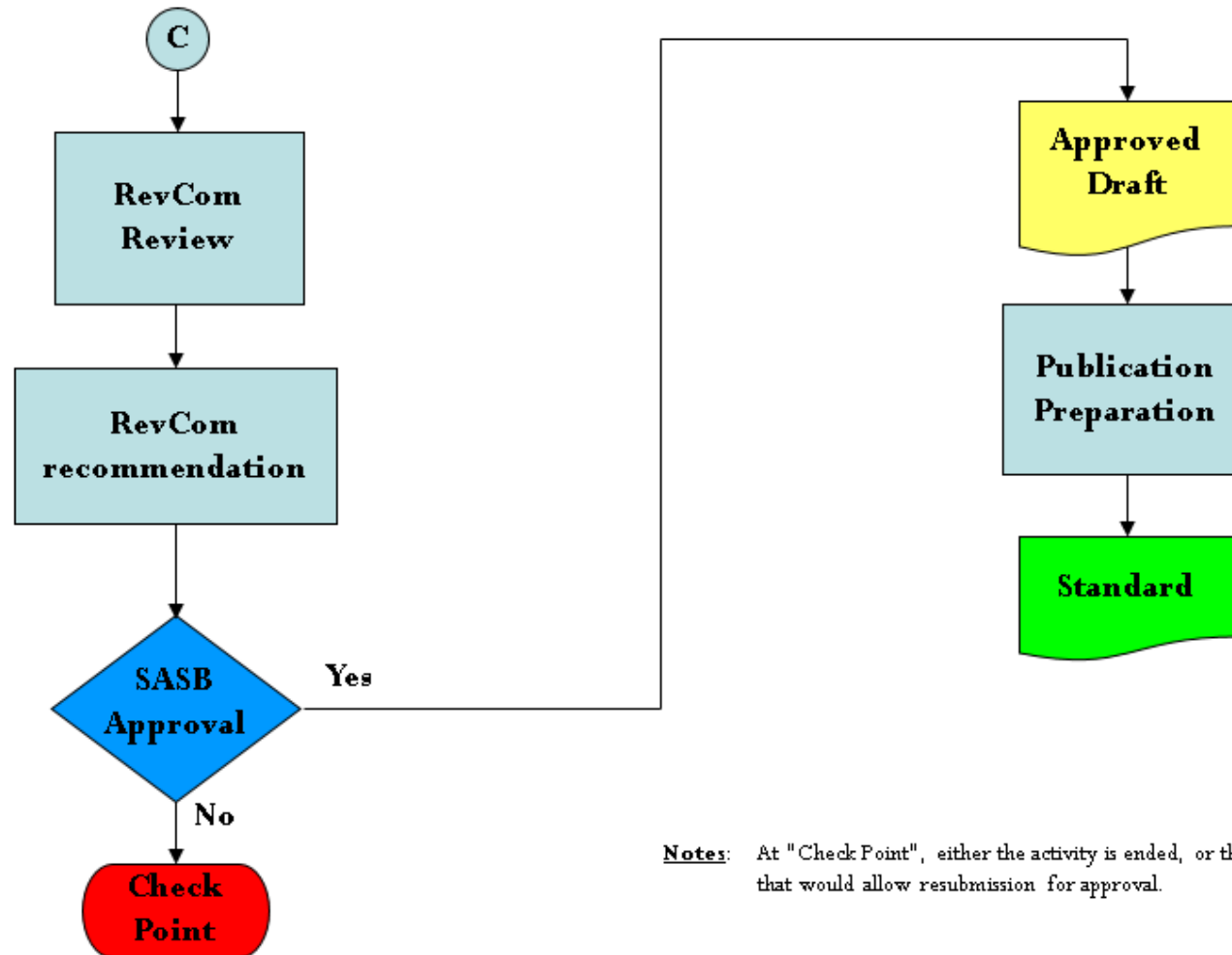
# Overview of IEEE 802.3 Standards Process (4/5)- Sponsor Ballot Phase



**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 7.1.5 and listed references 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 P802.3CK – 100 GB/S, 200 GB/S, 400 GB/S ELECTRICAL INTERFACES TASK FORCE - APPROVED PROJECT DOCUMENTS

- PAR: [http://www.ieee802.org/3/ck/P802\\_3ck\\_PAR\\_140518.pdf](http://www.ieee802.org/3/ck/P802_3ck_PAR_140518.pdf)
- CSD: [http://www.ieee802.org/3/ck/P802\\_3ck\\_CSD\\_06apr18.pdf](http://www.ieee802.org/3/ck/P802_3ck_CSD_06apr18.pdf)
- Objectives: [http://www.ieee802.org/3/ck/P802\\_3ck\\_Objectives\\_2018mar.pdf](http://www.ieee802.org/3/ck/P802_3ck_Objectives_2018mar.pdf)

## REFLECTOR AND WEB

- To subscribe to the 100GEL reflector, send an email to:

[ListServ@ieee.org](mailto:ListServ@ieee.org)

with the following in the body of the message (do not include “<>”):

*subscribe* STDS-802-3-100GEL <yourfirstname> <yourlastname>

*end*

- Send 100GEL reflector messages to:

[STDS-802-3-100GEL@LISTSERV.IEEE.ORG](mailto:STDS-802-3-100GEL@LISTSERV.IEEE.ORG)

- Task Force  web page URL:

<http://www.ieee802.org/3/ck/index.html>

# IMPORTANT BYLAWS AND RULES

- **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)