

# 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

A HUGE THANKS TO KENT LUSTED (INTEL), OUR VICE CHAIR & RECORDING  
SECRETARY, AND MATT BROWN (HUAWEI), OUR CHIEF EDITOR!

AD HOC

APRIL 21, 2021

# 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
  - \*6 should work from your phone to mute/unmute
  - If using computer audio, use SPACEBAR to mute/unmute

# AGENDA

- Approval of the Agenda
- Approval of the 4/14 minutes -  
[https://www.ieee802.org/3/ck/public/adhoc/apr14\\_21/minutes\\_041421\\_3ck\\_adhoc.pdf](https://www.ieee802.org/3/ck/public/adhoc/apr14_21/minutes_041421_3ck_adhoc.pdf)
- IEEE Patent Policy reminder (see below for links)
- IEEE Copyright reminder (see below for link)
- IEEE Participation Requirements reminder (see below for link)
- Task Force Status
- Preliminary Chief Editor's Report - Draft 2.0, Matt Brown
- 3ck Technical Presentations
  - "Validating C2M VEC and VEO Limits", Ali Ghiasi
  - "Tfx for Measured Fixtures", Sam Kocsis
  - "CTLE for the C2M Reference RX", Beth Kochuparambil (in lieu of Adee Ran)

## 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 WG meetings

- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
  - Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
  - Don't discuss specific license rates, terms, or conditions.
    - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.
      - Technical considerations remain the primary focus
  - Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
  - Don't discuss the status or substance of ongoing or threatened litigation.
  - Don't be silent if inappropriate topics are discussed ... do formally object.

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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

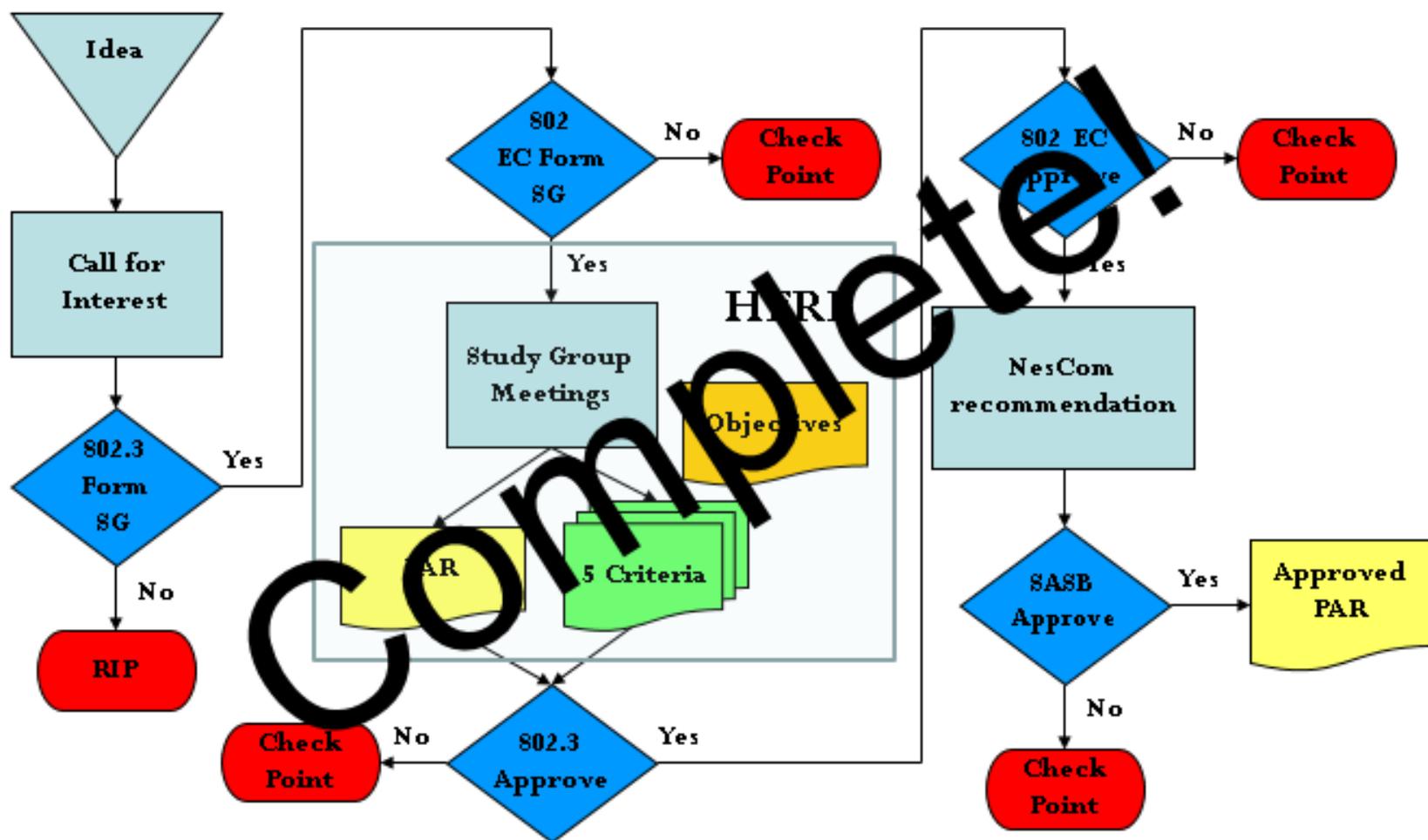
<http://standards.ieee.org/about/sasb/patcom/materials.html>

**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

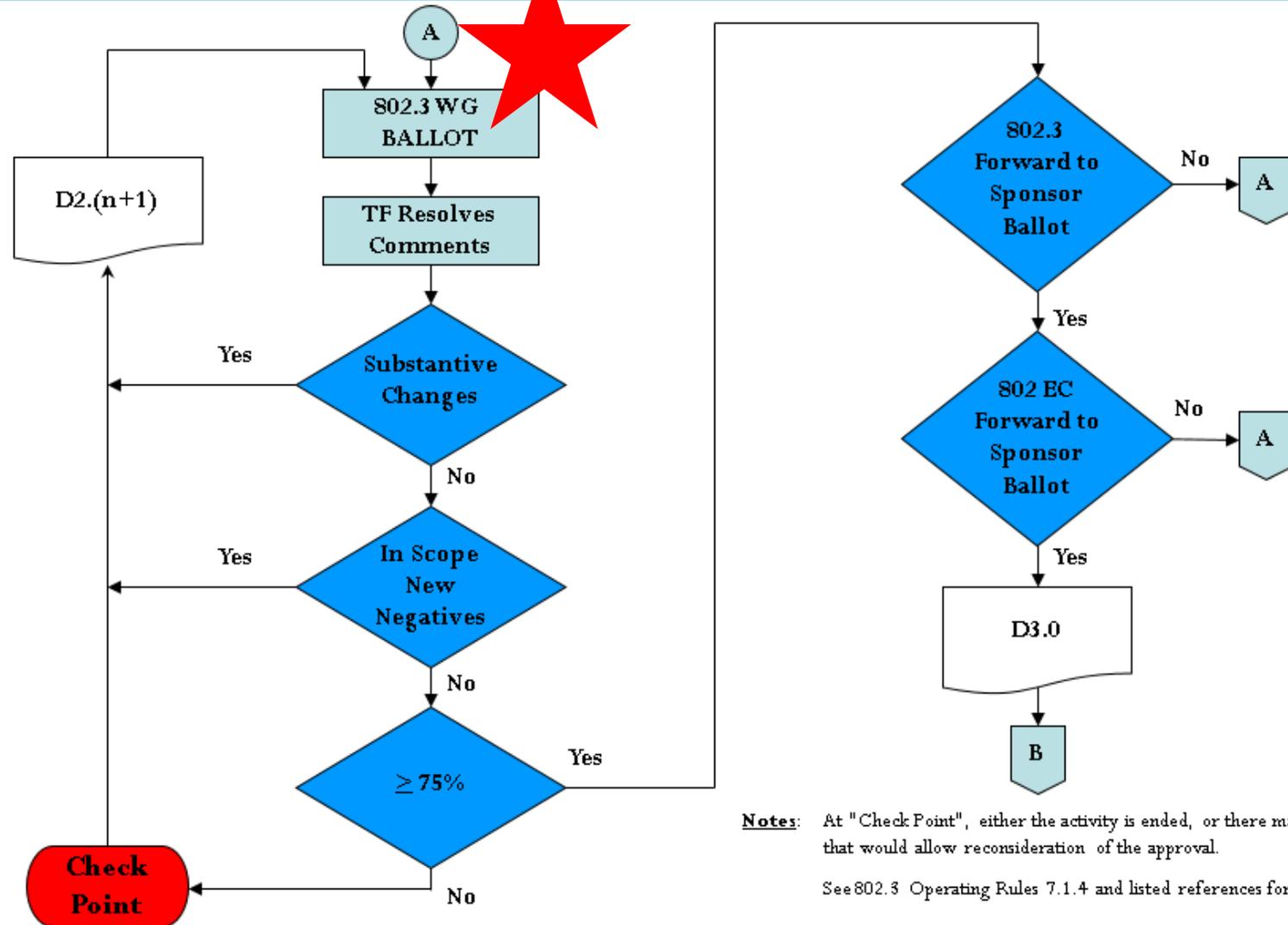
# Overview of IEEE 802.3 Standards Process (1/5)- Study Group Phase



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

# TASK FORCE STATUS

- Draft 2.0 Working Group Ballot is closed
  - Closed successfully on 18th April 2021
  - The ballot exceeded the required 75%, however we're likely to do a few rounds of WG Ballot
  - 238 Comments posted: <https://www.ieee802.org/3/ck/comments/index.html>
  - Responses posted by May 7
- Comment resolution meetings announced
  - All background/consensus/etc presentations are due Thursday, April 29<sup>th</sup>
  - Discussion decks by editors are exception
  - Tuesdays/Wednesdays: May 4,5, 18, 19, 25, 26, June 1 & 2 for comment resolution sessions
  - Additional date announced, but hopefully cancelled: May 31 (memorial day in the US),
  - May 4 & 5 will be to see presentations and big discussions needed – May close a few comments by drafting resolution on the floor

# May

Sun	Mon	Tue	Wed	Thu	Fri	Sat
25 April	26 7am - IEEE 802.3 B400G	27 7am - IEEE P802.3 9am - FW: IEEE	28 7am - FW: IEEE 7am - P802.3ck Ad 10:01am - PDCC 3ck - Ad Hoc	29 9am - IEEE P802.3	30	1
2	3 7am - IEEE 802.3 B400G CPO	4 7am - IEEE P802.3 3ck	5 7am - P802.3da 10am - PDCC Week 3ck	6	7	8
9	10	11 7am - IEEE P802.3 9am - FW: IEEE	12 7am - FW: IEEE 10am - PDCC Week	13 9am - IEEE P802.3	14	15
16	17	OIF			21	22
16	IEEE 802.3 May 2021 virtual interim - week 1 @ Teleconference					
17	18 7am - IEEE 802.3 B400G	19 7am - IEEE P802.3 3ck	20 10am - PDCC Week 3ck	21 7am - IEEE 802.3	22	
23	IEEE 802.3 May 2021 virtual interim week 2 @ Teleconference					
24	25 7am - IEEE 802.3 B400G CPO	26 7am - IEEE P802.3 9am - FW: IEEE 3ck	27 7am - FW: IEEE 10am - PDCC Week 3ck	28 9am - IEEE P802.3	29	
30	31 Memorial Day 3ck	1 7am - IEEE P802.3 3ck	2 10am - PDCC Week 3ck	3	4	5 June

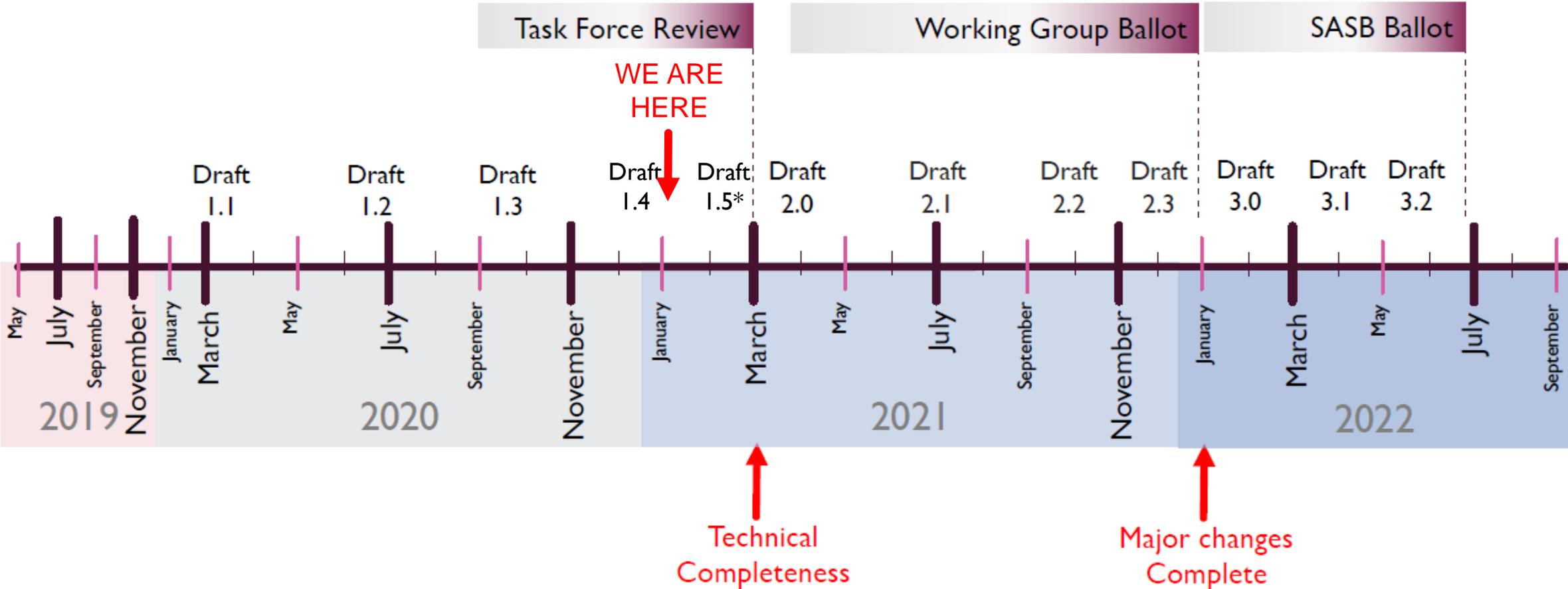


THANK YOU!



# IEEE P802.3ck Timeline

(Adopted Revision Aug 2020)



# 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

Approval Process

Standards Process

Technical Activities

## REFLECTOR AND WEB

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

*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*

- 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)

## STRAW POLL #

- At this time, I would support
  - A) keeping  $C_p$  the same as in Draft 2.0 (87 fF)
  - B) reducing  $C_p$  (~60fF is proposed)
  - C) neither, I need more information
  - D) No Opinion