## 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

**HUGETHANKS TO** 

KENT LUSTED, EMPLOYED BY AND AFFILIATED WITH INTEL CORPORATION MATT BROWN, EMPLOYED BY AND AFFILIATED WITH HUAWEI CANADA

MARCH PLENARY TELEPHONIC INTERIM MARCH 10, 2021

### MEETING

- Attendance
  - Attendance will be taken in two ways.
  - Attendee names and affiliations for the minutes will be taken from the WebEx participants list.
    - You don't need to do anything for this, unless your affiliation isn't indicated in your email address or participant list
  - For 802.3 interim attendance (towards voting rights), please use IMAT. http://imat.ieee.org

Active Meetings	
Please select the meeting you are currently attending	
IEEE 802.3 CFI Straw Poll - March 2021 plenary	09-Mar-2021
802 Plenary Session - March 2021 Electronic	01-Mar-2021
802.1 Telecons (Jan-Mar)	25-Jan-2021

Please mute your lines if you are not speaking

Active Meetings

\*6 does NOT work in WebEx Events – chat or email the chair if you're having a hard time getting off mute

#### **Select Working Group**

C/LM/IEEE 802 Attendance

C/LM/WG802.1 Attendance

C/LM/WG802.3 Attendance

C/LM/WG802.11 Attendance

#### AGENDA

- Approval of the Agenda
- Approval of the January Comment Resolution Minutes:
   <a href="https://www.ieee802.org/3/ck/public/21\_01/minutes\_3ck\_0121\_final\_unapproved.pdf">https://www.ieee802.org/3/ck/public/21\_01/minutes\_3ck\_0121\_final\_unapproved.pdf</a>
- IEEE Participation Requirements reminder (<a href="https://standards.ieee.org/ipr/index.html">https://standards.ieee.org/ipr/index.html</a>)
- IEEE Copyright reminder (<a href="http://www.ieee802.org/devdocs.shtml">http://www.ieee802.org/devdocs.shtml</a>)
- IEEE Patent Policy reminder (<a href="http://www.ieee802.org/3/patent.html">http://www.ieee802.org/3/patent.html</a>)
- Reminder of Ground Rules and Operations
- Task Force Status
- Technical Presentations
  - Cp Value Ratification, Karl Bois
  - Measured vs. Simulated Correlation of Package Model, Mau-Lin Wu
  - Package to Board Linkage capacitance, Cp: Extraction/Simulation Follow up, Liav Ben-Artsi

# Participants in the IEEE-SA "individual process" shall act independently of others, including employers

- The <u>IEEE-SA Standards Board Bylaws</u> 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

5

# IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints

- The <u>IEEE-SA Standards Board Bylaws</u> (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
     <a href="https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7">https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7</a>
     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/ieeestandards/standards/web/documents/other/permissionltrs.zip
- IEEE SA Copyright FAQs
  - <a href="http://standards.ieee.org/faqs/copyrights.html/">http://standards.ieee.org/faqs/copyrights.html/</a>
- IEEE SA Best Practices for IEEE Standards Development
  - <a href="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</a>
- Distribution of Draft Standards (see 6.1.3 of the SASB Operations Manual)
  - https://standards.ieee.org/about/policies/opman/sect6.html





## 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 <a href="http://www.ieee.org/about/corporate/governance">http://www.ieee.org/about/corporate/governance</a>

#### 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



## 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); 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.

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

**IEEE** 

## **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)

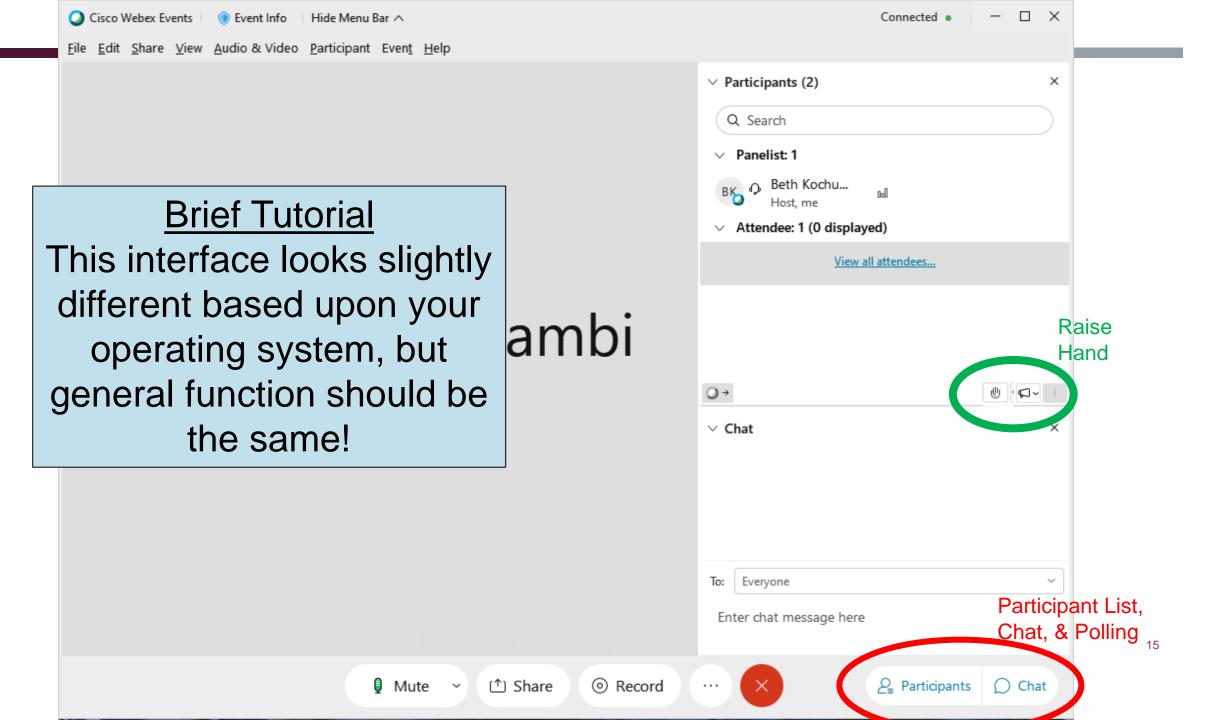
Material about the patent policy is available at <a href="http://standards.ieee.org/about/sasb/patcom/materials.html">http://standards.ieee.org/about/sasb/patcom/materials.html</a>

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at <a href="mailto:patcom@ieee.org">patcom@ieee.org</a>



## GROUND RULES & OPERATIONS

- Recording is prohibited Is anyone here press?
- **RESPECT** one another... give it, get it
- Please wait until after the presenter finishes for Q&A
- Raise your hand or send a chat to be added to the queue

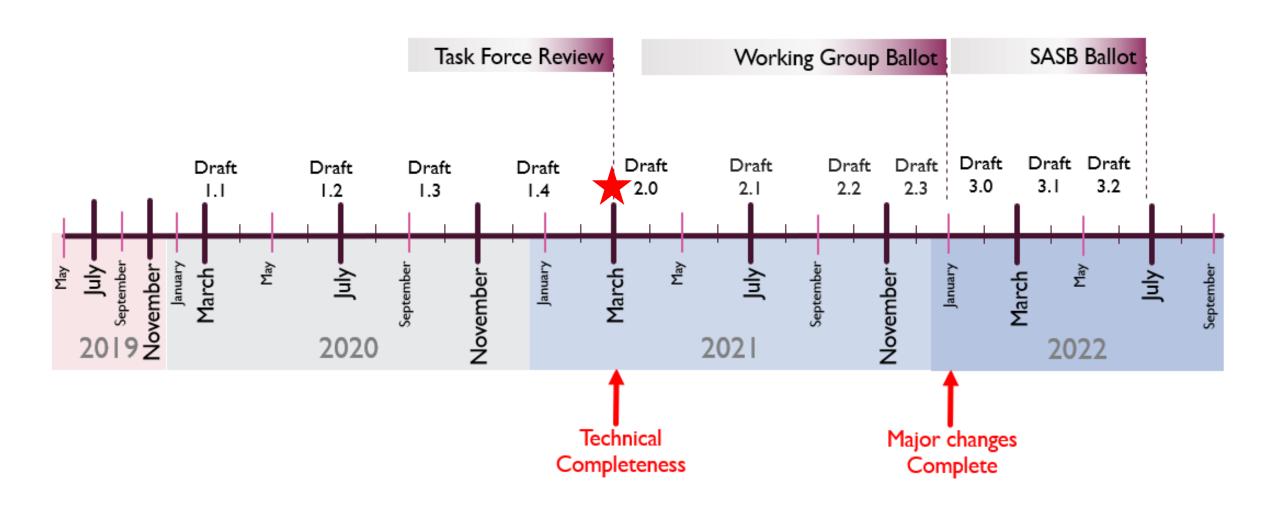


#### TASK FORCE STATUS

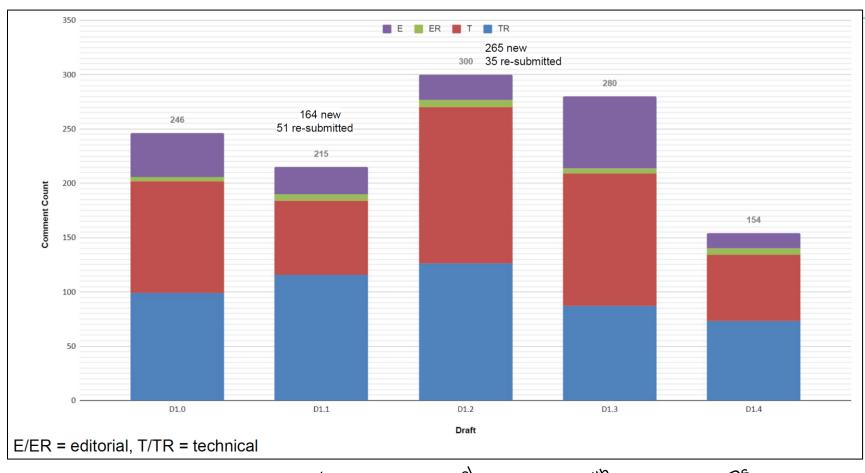
- Draft 1.4 Comment Resolution
  - https://www.ieee802.org/3/ck/public/21\_01/index.html
  - Closed all comments 154 comments by 16 commenters
    - https://www.ieee802.org/3/ck/comments/draftlp4/8023ck\_Dlp4\_final\_closedcomments.pdf
  - Accepted additional change on 3/3 in January TF motion #8
- Technical completeness has remained our focus
- Draft 1.5 implemented and posted on 2012/3/3
- Draft 1.5 pre-submitted for consideration by the Working Group (see David Law announcement)
- What remains:
  - Task force confirmation to request for Working Group ballot
  - Working group motion the request to Working Group ballot

## IEEE P802.3 P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces (100GEL) Task Force

## Adopted timeline



## Comment History



narrowing We've reached technical

TBDs & eye width method Remaining TBDs Remaining TBDs VEC & test channel Reference RX Channel pudget measurement method

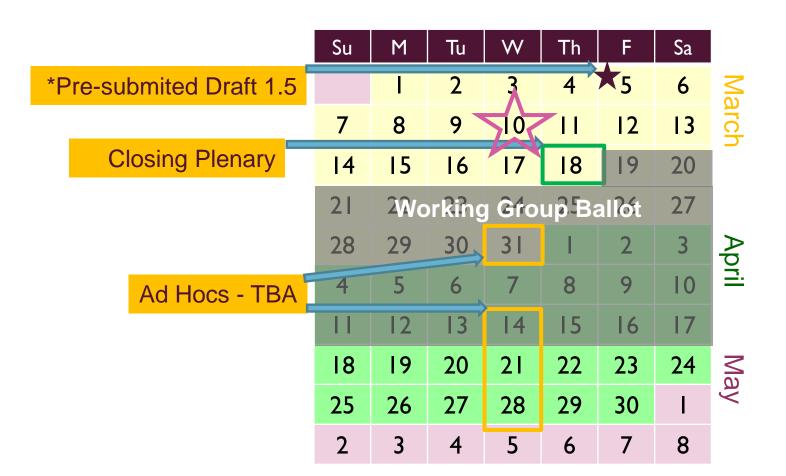
Version 1.2

discussions are taking time in virtual format.

These technical

Topics are

### TASK FORCE STATUS – NEXT STEPS



## THANK YOU!

## 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** 

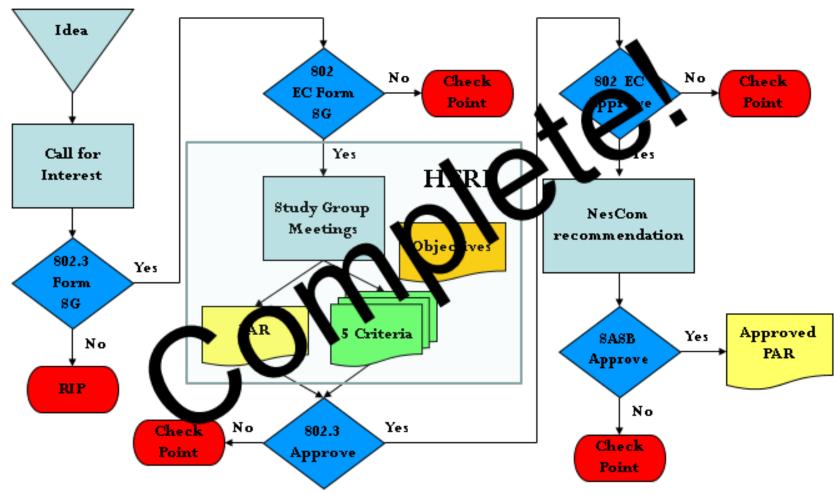
Task Force

**Approval Process** 

**Standards Process** 

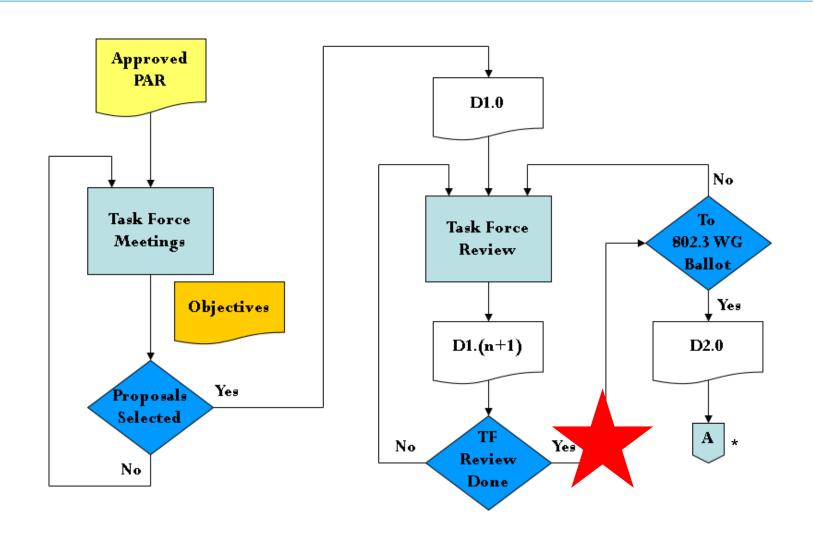
**Technical Activities** 

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

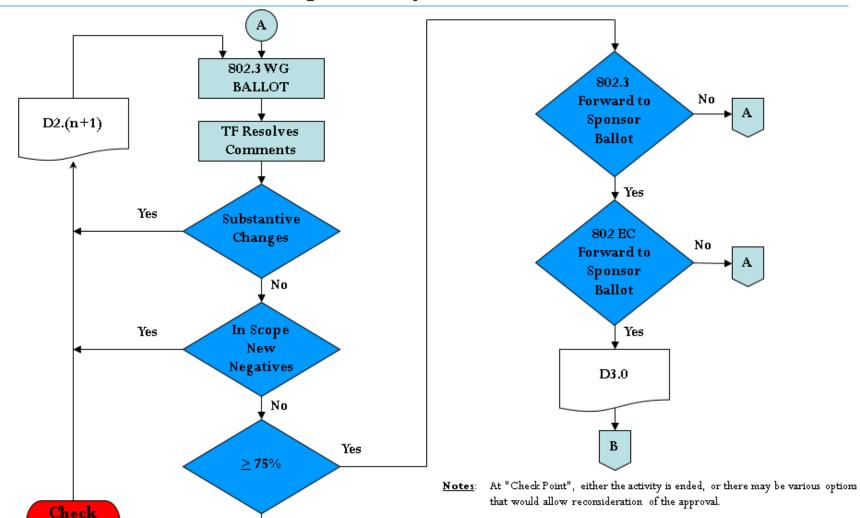


Note: At "Check Point", either the activity is ended, or these may be various options that would allow seconsideration of the approval.

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



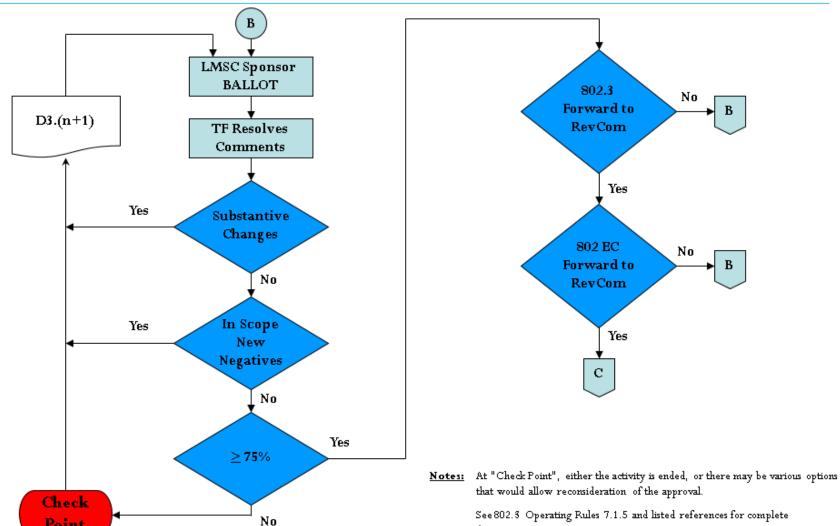
# Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



No

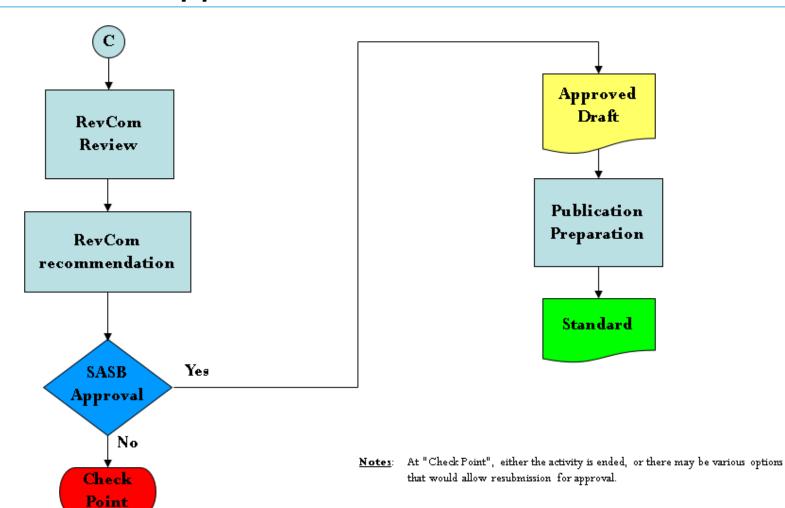
**Point** 

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



Point

# Overview of IEEE 802.3 Standards Process (5/5) – Final Approvals / Standard Release



# IEEE P802.3CK – 100 GB/S, 200 GB/S, 400 GB/S ELECTRICAL INTERFACES TASK FORCE - APPROVED PROJECT DOCUMENTS

- PAR: <a href="http://www.ieee802.org/3/ck/P802\_3ck\_PAR\_140518.pdf">http://www.ieee802.org/3/ck/P802\_3ck\_PAR\_140518.pdf</a>
- CSD: <a href="http://www.ieee802.org/3/ck/P802\_3ck\_CSD\_06apr18.pdf">http://www.ieee802.org/3/ck/P802\_3ck\_CSD\_06apr18.pdf</a>
- Objectives: <a href="http://www.ieee802.org/3/ck/P802\_3ck\_Objectives\_2018mar.pdf">http://www.ieee802.org/3/ck/P802\_3ck\_Objectives\_2018mar.pdf</a>

### 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-I00GEL <yourfirstname> <yourlastname>
end

- Send I00GEL 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/
- **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

## MOTION #?

#### Move to:

- Generate Draft 2.0 from Draft 1.5
- Request that IEEE 802.3 WG progress the draft to Working Group ballot.
- M:
- **S**:

Technical (>=75%)

### WG MOTION #

Move that the IEEE 802.3 Working Group progress the IEEE P802.3ck draft to Working Group ballot

- M:
- **S**:

Technical (>=75%)