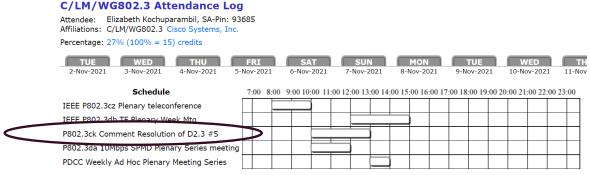# AGENDA AND FRONT MATERIAL
IEEE P802.3CK – 100 GB/S, 200 GB/S, AND 400 GB/S ELECTRICAL INTERFACES TASK FORCE

BETH KOCHUPARAMBIL, EMPLOYED BY AND AFFILIATED WITH CISCO SYSTEMS

KENT LUSTED, EMPLOYED BY AND AFFILIATED WITH INTEL CORPORATION

TELEPHONIC INTERIM SERIES TO ADDRESS COMMENTS TO DRAFT 2.3

NOV 23-24, 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 Plenary attendance (towards voting rights), please use IMAT. http://imat.ieee.org

- Please mute your lines if you are not speaking

AGENDA

- Approval of the Agenda
- IEEE Participation Requirements reminder
- IEEE Copyright
- IEEE Patent Policy
- Task Force Status & Next Steps
- D2.3 Comment Agenda
- Comment Resolution

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.

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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.html/

■IEEE SA Best Practices for IEEE Standards Development
- 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

IEEE SA STANDARDS ASSOCIATION

◆IEEE   4

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 <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

◈ IEEE

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

Slide #2

02 January 2018

◆IEEE

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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

02 January 2018

◆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
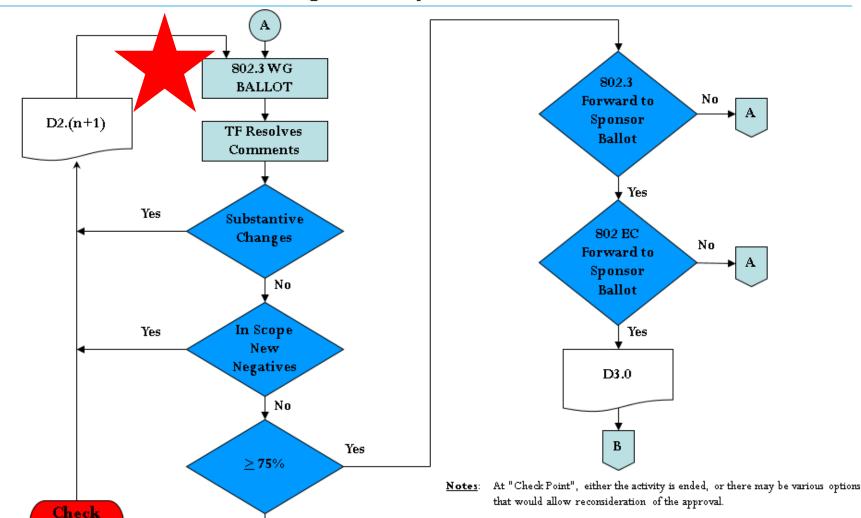*http://standards.ieee.org/about/sasb/patcom/materials.html*

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org

IEEE

GROUND RULES & OPERATIONS

- Recording is prohibited – Is anyone here press?

- **RESPECT one another**… give it, get it

- Offline discussion and consensus building between calls is *necessary*

- No time for crafting solutions or argue wording "on the floor"

- Trust in Editorial License

- 15 min presentation (including Q&A)

- Raise your hand or send a chat to be added to the queue

- Discussions will be brief and decisive. I will keep queues moving.

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 2.3 Working Group Recirculation closed

  - 46 on time comments from 4 contributors

  - Passed 75% approval threshold

  - 1 negative vote; 10 TR comments

- 5 sessions scheduled for Comment Resolution (1 done, ~4 remain)

- Granted Conditional Approval for SA Ballot at IEEE 802.3 WG meeting on 18 Nov

- Trend is to Request Conditional Approval at EC teleconference Dec 7th

- There was strong support expressed last week to proceed with "Path 1" (see next slide)

Causes of Recirculation (Draft 2.4)

New no negative votes or in scope required comments

Draft 2.3 has no new negative votes
10 TR comments submitted*
*Still investigating if they require a recirc

Substantial/Technical change**

Changes more than minor editorial fixes
Somewhat subjective determination of "substantial"
**If we do recirculate, any changes made are subject to scope

Future schedule to Standards Association Ballot

Recirculation ballot and resolution meeting schedule

Working Group recirculation ballot day one	29 Oct, 2021
Working Group recirculation ballot close	12 Nov, 2021
IEEE P802.3ck comment resolution meeting	17-24 Nov, 2021
Working Group recirculation ballot day one	29 Nov, 2021
Bring to December 7th EC meeting for conditional approval	
Working Group recirculation ballot close	13 Dec, 2021
IEEE P802.3ck comment resolution meeting	15 Dec, 2021

Initial SA Ballot   17 Dec, 2021 – 17 Jan, 2022*

*Could initiate as early as Nov 29th if WG recirculation is not needed, would likely wait until Dec 10 anyway.

D3.0 Comment Resolution   late Jan-Feb, 2022

Note: Working Group recirculation ballot only if required

REVCOM – ACCEPTABLE RESPONSES

Disposition status is "Accepted" when the CRG agreed exactly with the comment and the change proposed by the commenter, or the comment is agreeable and does not require any changes.

Disposition is "Accept in Principle" when the CRG agrees with the comment (at least in part) and implements a change that is not exactly what the balloter proposed.

Disposition status is "Rejected" when one or more of these applies:

- The CRG disagrees with the comment

- The comment is out of scope

- The proposed change in the comment does not contain sufficient detail so that the CRG can understand the specific changes that satisfy the commenter

- The CRG cannot come to a consensus to make changes necessary to address the comment

- The comment is in support of an unsatisfied previous comment associated with a disapprove vote and does not provide substantive additional rationale

- The comment includes an attachment that does not meet the criteria indicated by the myBallot system; that the CRG cannot address as a single issue; or that does not relate to a specific line, paragraph, figure, or equation in the balloted draft

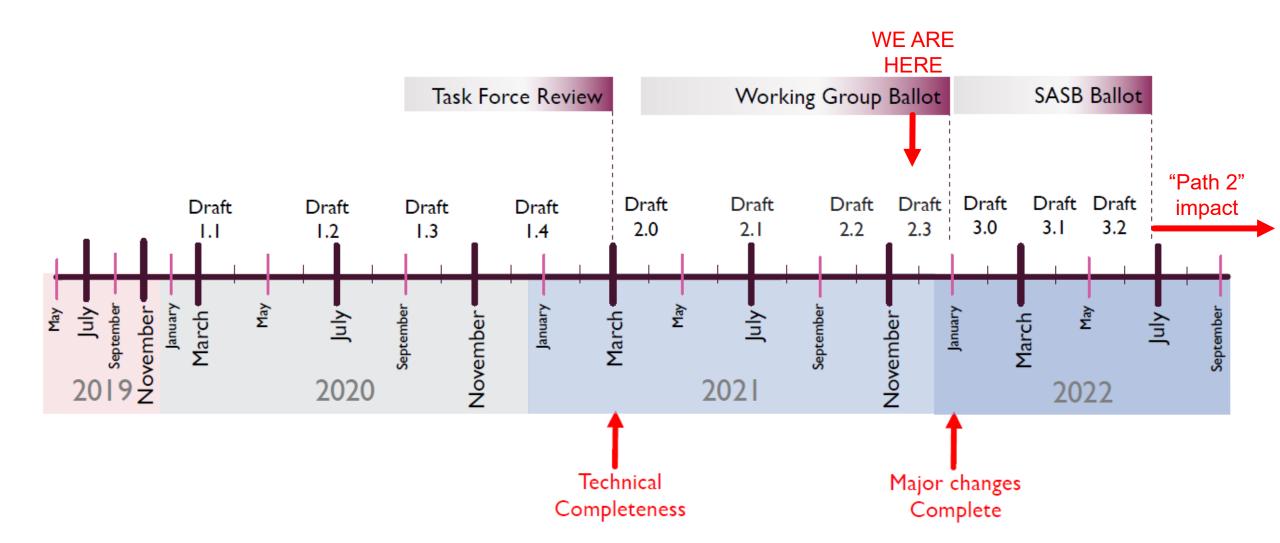- The commenter has indicated to the CRG chair that they wish to withdraw the comment

https://standards.ieee.org/content/dam/ieee-standards/standards/web/governance/revcom/guidelines.pdf

REVCOM – DISPOSITION FOR REJECTION

The disposition detail field should explain why the comment is being rejected using one or more of these reasons:

- An explanation of why the CRG disagrees with the comment,

- A statement that the comment is out of scope, and the rationale,

- A statement that the proposed change in the comment does not contain sufficient detail so that the CRG can understand the specific changes that satisfy the commenter

- A statement that the CRG could not reach consensus on the changes necessary to address the comment, along with the reason

- A statement that the CRG has previously considered the comment (or a substantively similar comment), along with identification (by reference or copy) of the original comment and its disposition detail and status

- A statement of why the CRG considers the attachment does not meet the criteria indicated by the myBallot system; or cannot be addressed as a single issue; or does not relate to a specific line, paragraph, figure, or equation in the balloted draft

- A statement that the commenter has withdrawn the comment

https://standards.ieee.org/content/dam/ieee-standards/standards/web/governance/revcom/guidelines.pdf

EXPECTED TOPICS FOR SA BALLOT

- Common Mode

- Stressed Input/Output tests

- GDC Values

- FEC Cross references

- Many Many More

THANK YOU!

Future schedule to Standards Association Ballot

Recirculation ballot and resolution meeting schedule

Working Group recirculation ballot day one	29 Oct, 2021
Working Group recirculation ballot close	12 Nov, 2021
IEEE P802.3ck comment resolution meeting	17 Nov – 1 Dec, 2021
Working Group recirculation ballot day one	9 Dec, 2021
Working Group recirculation ballot close	23 Dec, 2021
IEEE P802.3ck comment resolution meeting	11-12 Jan, 2022

Possible risk of another recirc due to D2.4 in scope comments

Initiate 10 day EC meeting for Conditional approval

Working Group recirculation ballot day one	17 Jan, 2022
Working Group recirculation ballot close	31 Jan, 2022
IEEE P802.3ck comment resolution meeting	3 Feb, 2022

Initial SA Ballot	9 Feb – 11 Mar, 2022
D3.0 Comment Resolution	March Plenary (Mar 14)

The above schedule is optimistic and relys heavily on quick turn around from the editor's team

Note: 2nd Working Group recirculation ballot only if required

Brief Tutorial
This interface looks slightly different based upon your operating system, but general function should be the same!

Participant List & Chat Window

View Attendee List

Raise Hand

Polling Tab

COMMON COMMENT RESOLUTION PROCESS (.3CK, .3CU, .3CT)

- **Comment Status Terminology**
    - "Open" comments – comments that Task Force have not agreed upon a remedy
    - "Closed" comments – comments that Task Force have agreed upon a remedy
    - "Final" comments – Task Force has approved motion to adopt the responses to the closed comments

- **Allow individuals (other than commenter) two business days (AoE, ~67hrs) to request, *via the reflector*, a "Closed" comment, *from the prior meeting only*, be considered for re-opening**
    - Post updated comment database after each meeting
    - Individual needs to be present at next meeting to address
    - Normal procedures within the group will apply to determine if comment will be re-opened

- **After comment resolution is over – normal procedures to adopt responses and generate next draft will be followed**

IEEE STRUCTURE

IEEE-SA
Standards Association

Standards | Process

IEEE-SA
Standards Board

RevCom
Review Committee

NesCom
New Stds. Committee

IEEE 802
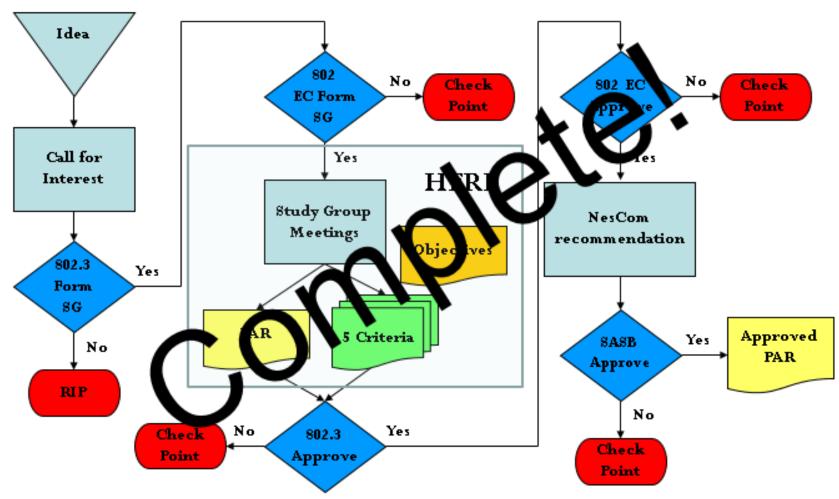Sponsor Group

IEEE 802.3
Working Group

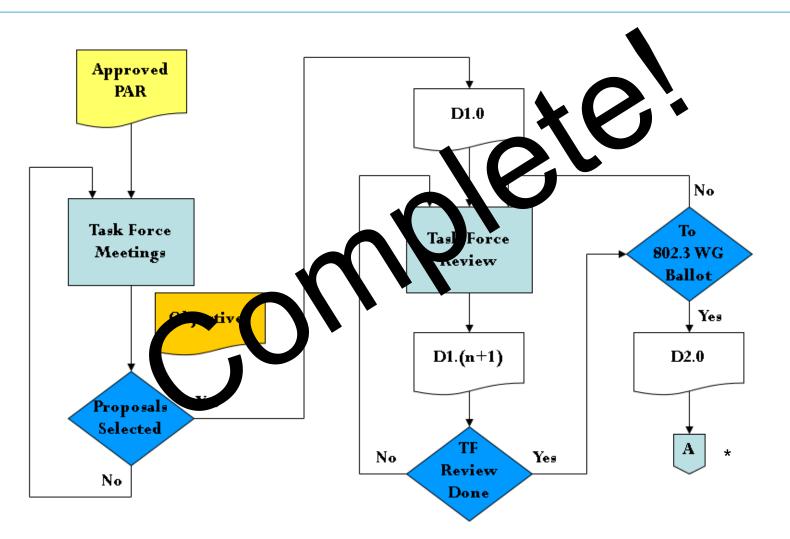IEEE 802.3
Task Force

Approval Process

Standards Process

Technical Activities

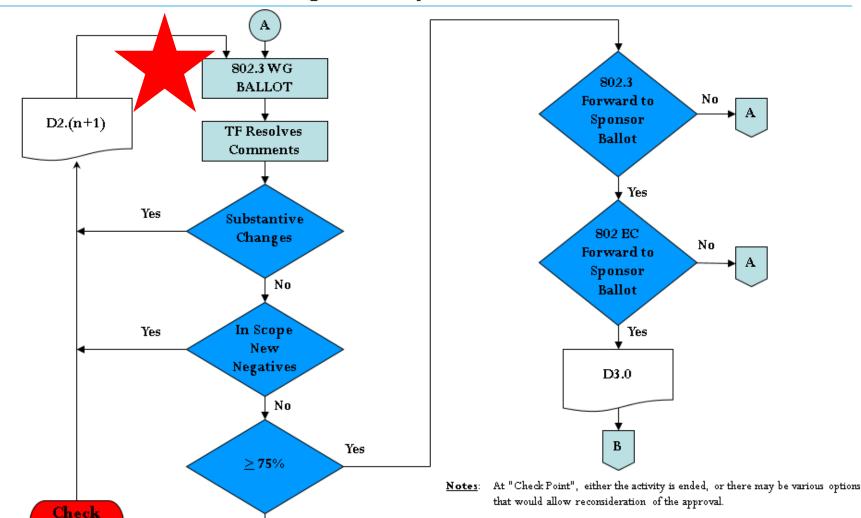# Overview of IEEE 802.3 Standards Process (1/5)- Study Group Phase

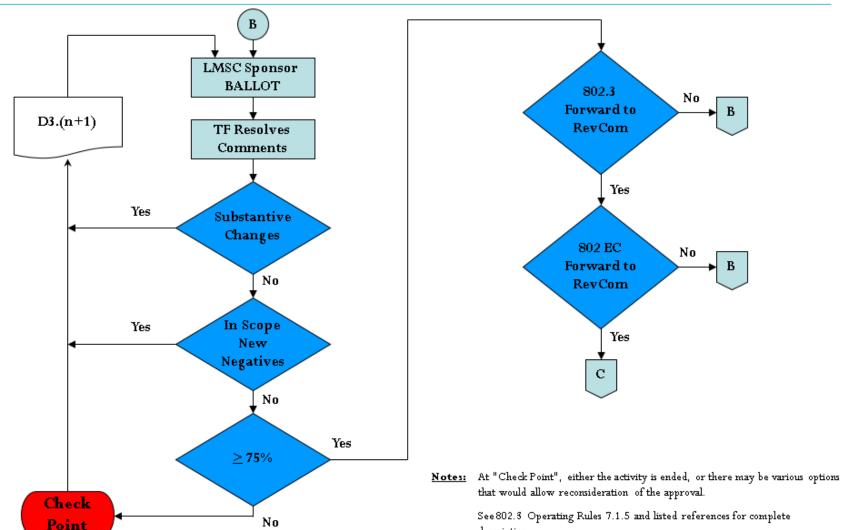Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

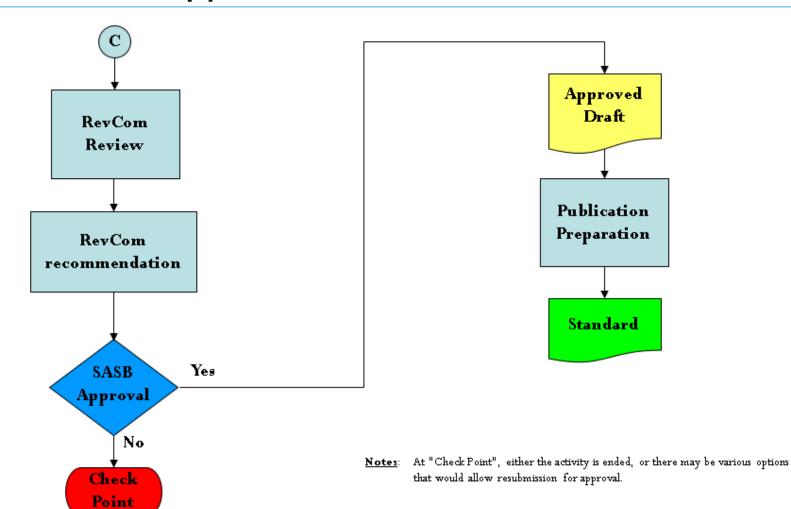# Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase

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

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

- CSD: http://www.ieee802.org/3/ck/P802_3ck_CSD_06apr18.pdf

- Objectives: 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

  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/

- **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 D2.4 from D2.3 and closed comments
- M:
- S:
- Technical (>=75%)

MOTION

- Move to generate D3.0 for SA ballot from D2.3 and closed comments
  - M:
  - S:
  - Technical (>=75%)