

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 1.4
FEBRUARY 16 & 17, 2021

MEETING

- Attendance
 - Attendee names and affiliations for these Telephonic Interims 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 does NOT work in WebEx Events
 - If using computer audio, use SPACEBAR to mute/unmute
 - Chat the chair if you're having a hard time getting off mute

AGENDA

- Approval of the Agenda
- IEEE Participation Requirements reminder (<https://standards.ieee.org/ipr/index.html>)
- IEEE Copyright reminder (<http://www.ieee802.org/devdocs.shtml>)
- IEEE Patent Policy reminder (<http://www.ieee802.org/3/patent.html>)
- Reminder of Ground Rules and Operations
- Task Force Status
- Comment Resolution
 - Although everything isn't listed below, here is the general topic flow. See slides for a more detailed list (we will follow the order as listed in the slides)
 - See: https://www.ieee802.org/3/ck/public/21_01/agenda_3ck_07_0121_brown.pdf
 - Bucket #3
 - TP4a SIT
 - TP4 (module output) modes
 - Recommended for deferral to WVG Ballot
- Closing business
- Tabled presentations

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

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

- 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 <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); 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>

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**

GROUND RULES & OPERATIONS

- Recording is prohibited – Is anyone here press?
- **RESPECT one another**... give it, get it
- 10 calendar invites = 1 cohesive meeting
- Offline discussion and consensus building between calls is *necessary*
- No time for crafting solutions or argue wording “on the floor”
- Trust in Editorial License
- 10 min presentations (including clarifying Q&A)
- Raise your hand or send a chat to be added to the queue

TASK FORCE STATUS

- Draft I.4 Comment Resolution
 - https://www.ieee802.org/3/ck/public/21_01/index.html
 - <https://www.ieee802.org/3/ck/comments/index.html>
 - 154 comments by 16 commenters
- Technical completeness should be our focus.
- 14 comments in 8 topics recommended for deferral
 - At *LEAST* 4-8 hours of meeting time
 - Benefit vs risk

https://www.ieee802.org/3/ck/public/21_01/comagenda_3ck_03_0121.pdf

Comment resolution sequence

Meeting # and Date	Topic
#1/#2, January 26/27	Open D1.4 comment resolution series: Announce Bucket #1 CG: CM noise, RLDC, RLGG 120G part 1 (started)
#3/#4, February 2/3	Bucket #1 motion Clause 162, Annex 162B 120G part 1 (continued)
#5/6, February 9/10	Clause 163, Annex 163A/B, Annex 120F 120G Part 2 Comments deferred from previous meetings Comments recommended for deferral to WG Ballot
#7/8, February 16/17	If necessary.
#9/10, March 3/10	Address remaining technical completeness gaps identified by editorial team, if necessary.

TASK FORCE STATUS

- Technical completeness should be our focus.
- Caution against *creating* holes

https://www.ieee802.org/3/ck/public/21_01/comagenda_3ck_03_0121.pdf

Recommended for deferral to WG Ballot

Clause	Topic	Comments
162/163/120F	CA COM Cp (CC)	115, 116, 117
162	asymmetric hosts	140
162	LF resolution	51
162	<u>PRBS9Q</u>	109, 110
162	pulse peak	141
162	RX RLCC	143
163A	TP0v/TP5v method	[1, 2, 3, <u>ghiasi_02</u>]
120G	TP1a/TP4 gDC	153, 90

Legend: [##,##,##] = related comments, ## = pivot comment, [##,##,author_nn] = related presentation

UPCOMING MONTHS

- Next chance for working group ballot will be May

	Su	M	Tu	W	Th	F	Sa	
	3	4	5	6	7	8	9	January
	10	11	12	13	14	15	16	
	17	18	19	20	21	22	23	
	24	25	26	27	28	29	30	
	31	1	2	3	4	5	6	
	7	8	9	10	11	12	13	February
	14	15	16	17	18	19	20	
	21	22	O I F Week			26	27	
*Pre-submit Draft 1.5	28	1	2	3	4	5	6	
	7	8	9	10	11	12	13	
	14	15	16	17	18	19	20	March
Closing Plenary	21	22	23	24	25	26	27	

Editing

*Technically, we have until March 8th, however, our editorial team has been working overtime weeks and weeks on end... so am not asking them to work all weekend too.

FAMILIAR PROCESS

- We have made a lot of progress!!
- Common to narrow the scope/stabilize draft to go to the next step
- Just looks different in this environment...

- Need time for comprehensive proposals
- More review rounds to come

WHAT TO EXPECT

- *Proposed Neutral Response:*
 - *“This comment proposes a change to the draft that does not address technical completeness. The commenter is invited to resubmit this comment during working group ballot.”*
- Pull up each comment/topic
- Brief discussion on closing with neutral response vs. its technical need this round
- Hold off on technical discussion

Viewing Matt Brown (Guest)...

Speaking: Jeff Slavick (Guest)

RM

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

RICHARD MELLITZ (Guest)

Participants (9)

Search

Panelist: 6

BK Beth Kochuparambil (Cisco) Host

MB Matt Brown (Gue...

JS Jeff Slavick (Guest)

KL Kent Luste...

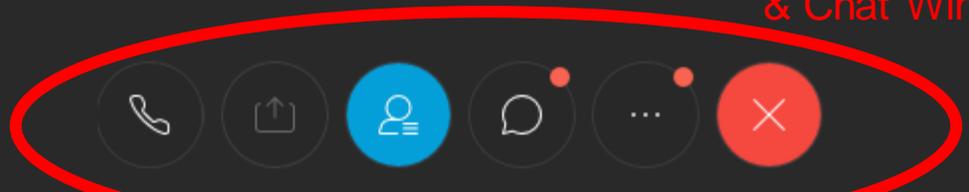
PS Phil Sun (Guest)

RM RICHARD MELLITZ (Guest)

Attendee: 3 (1 displayed)

View Attendee List

Raise Hand



Participant List & Chat Window

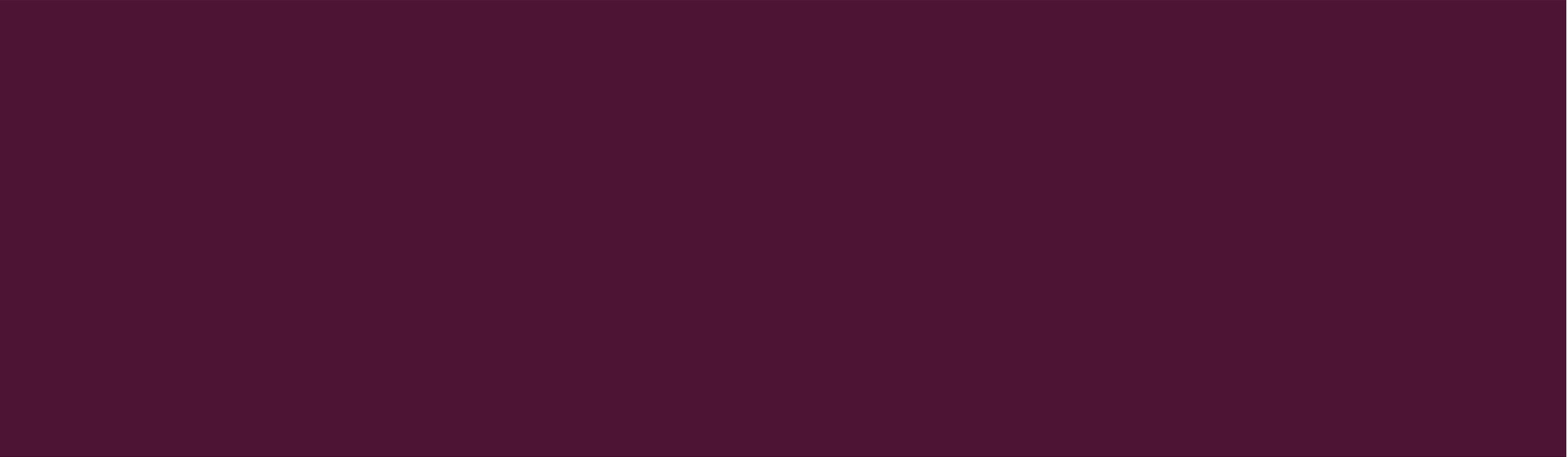


Polling Tab



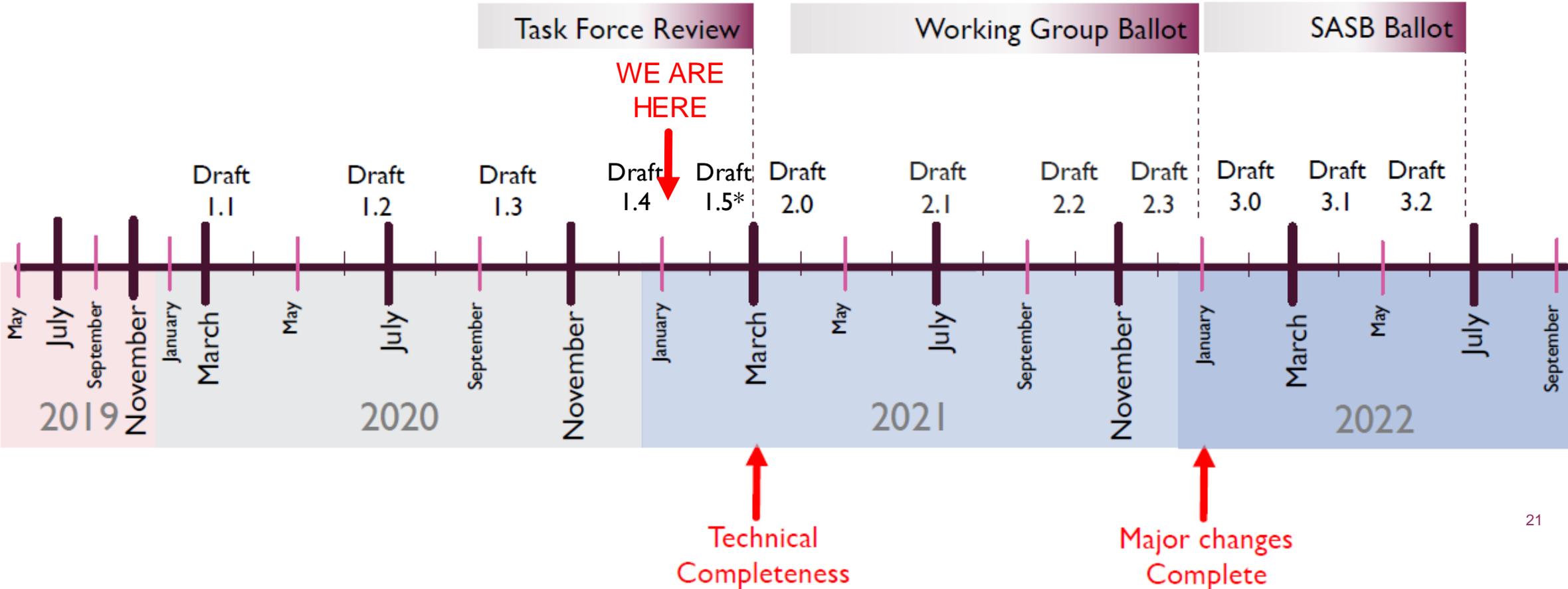


THANK YOU!



IEEE P802.3ck Timeline

(Adopted Revision Aug 2020)



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

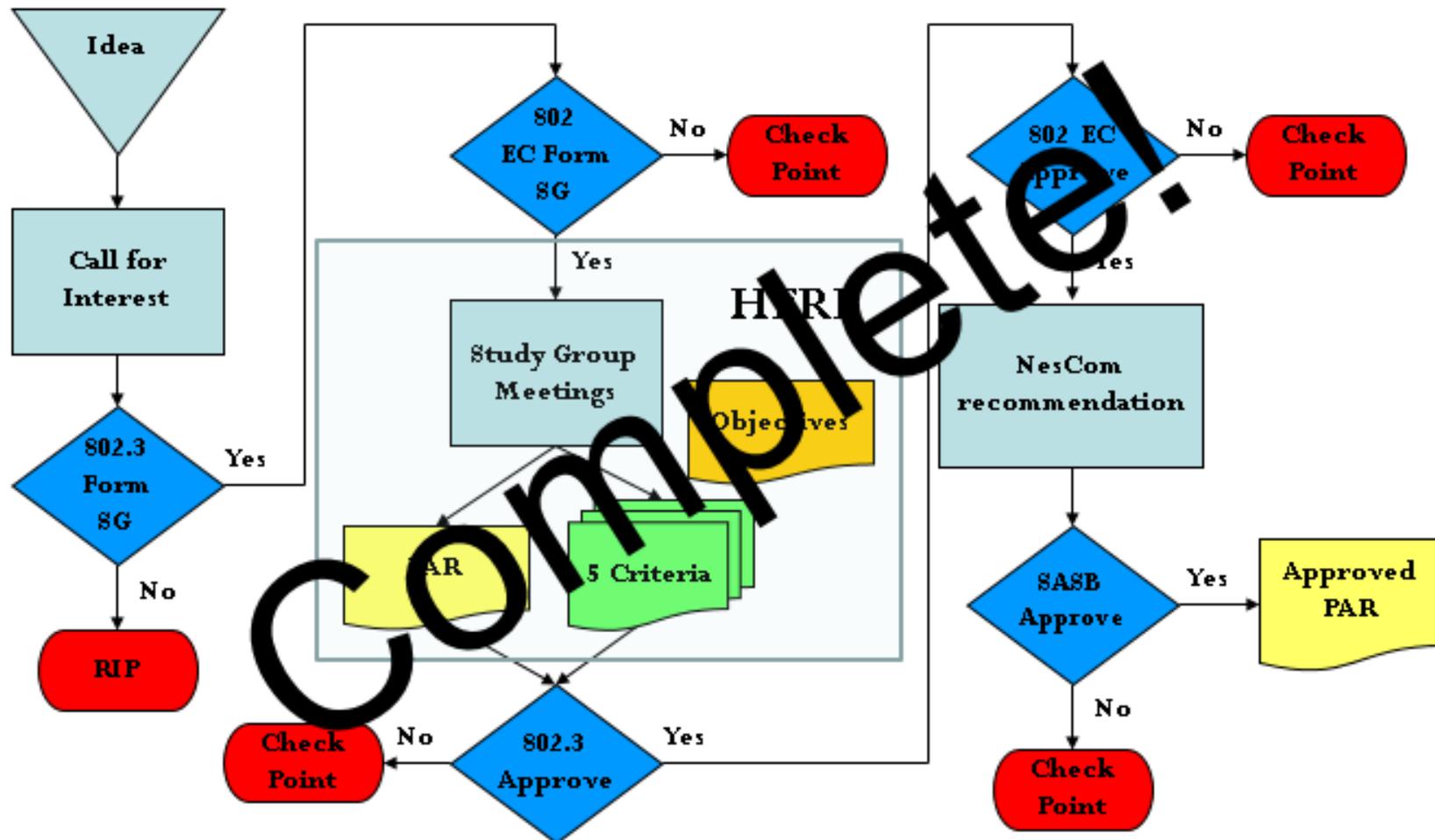
IEEE 802.3
Task Force

Approval Process

Standards Process

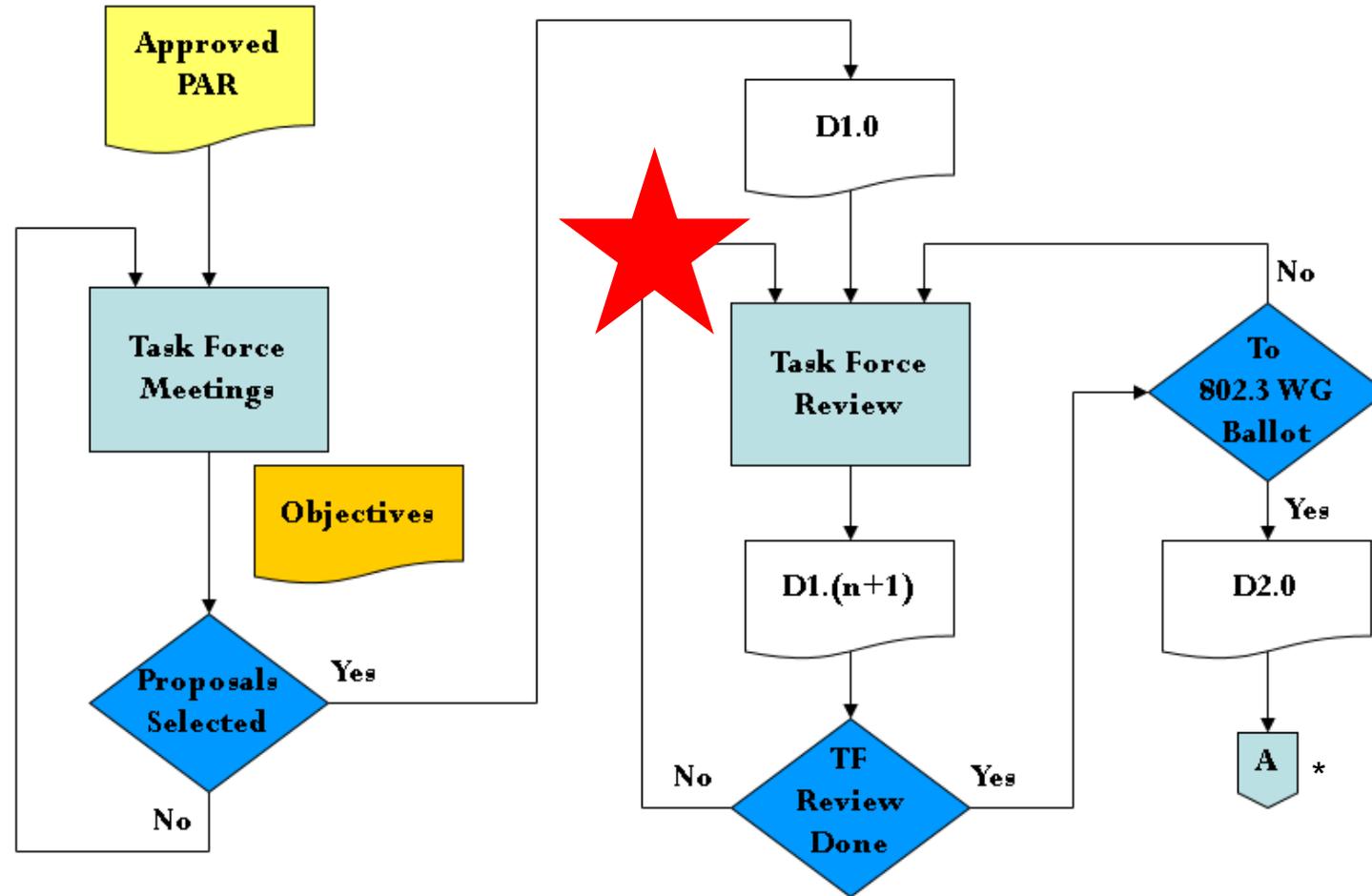
Technical Activities

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

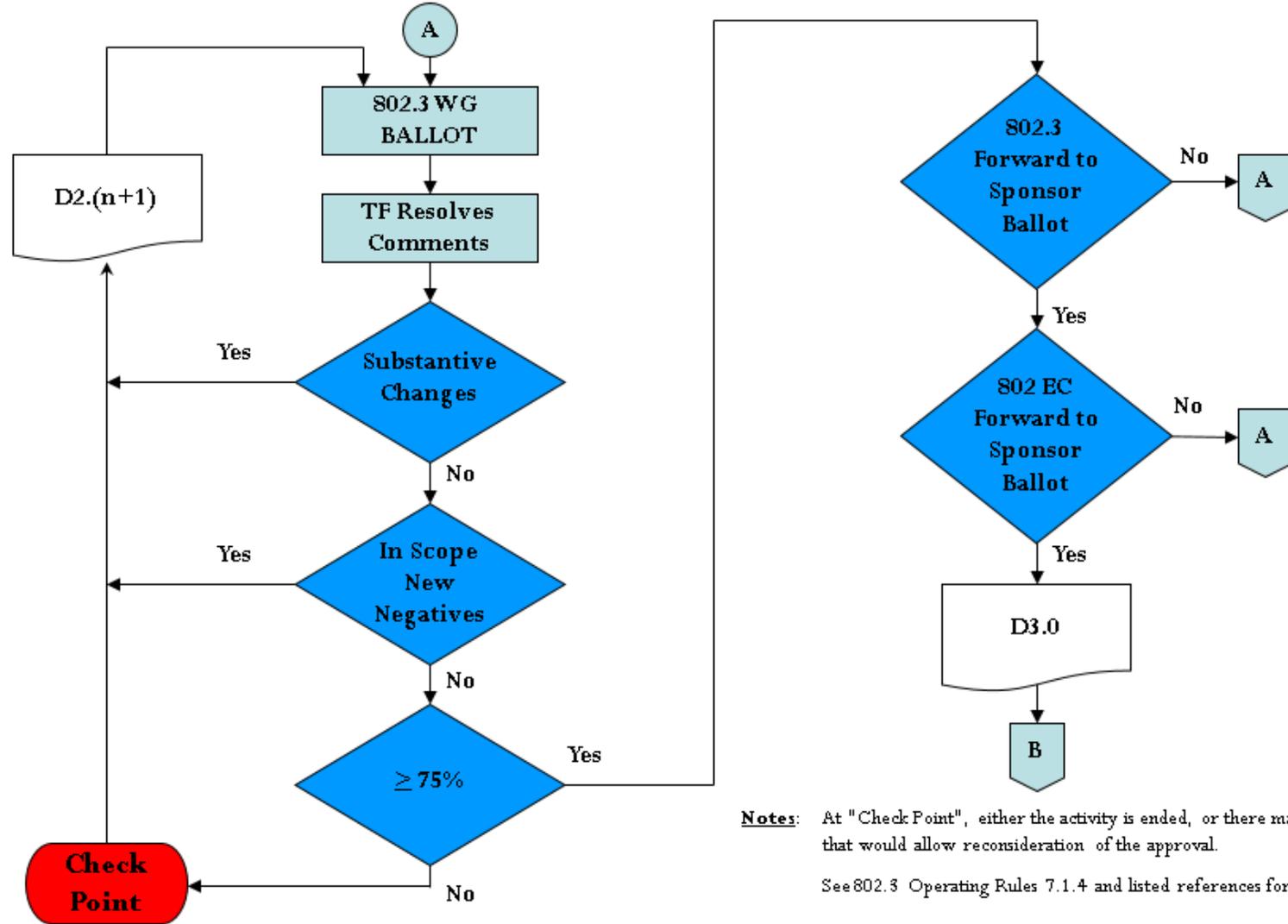


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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

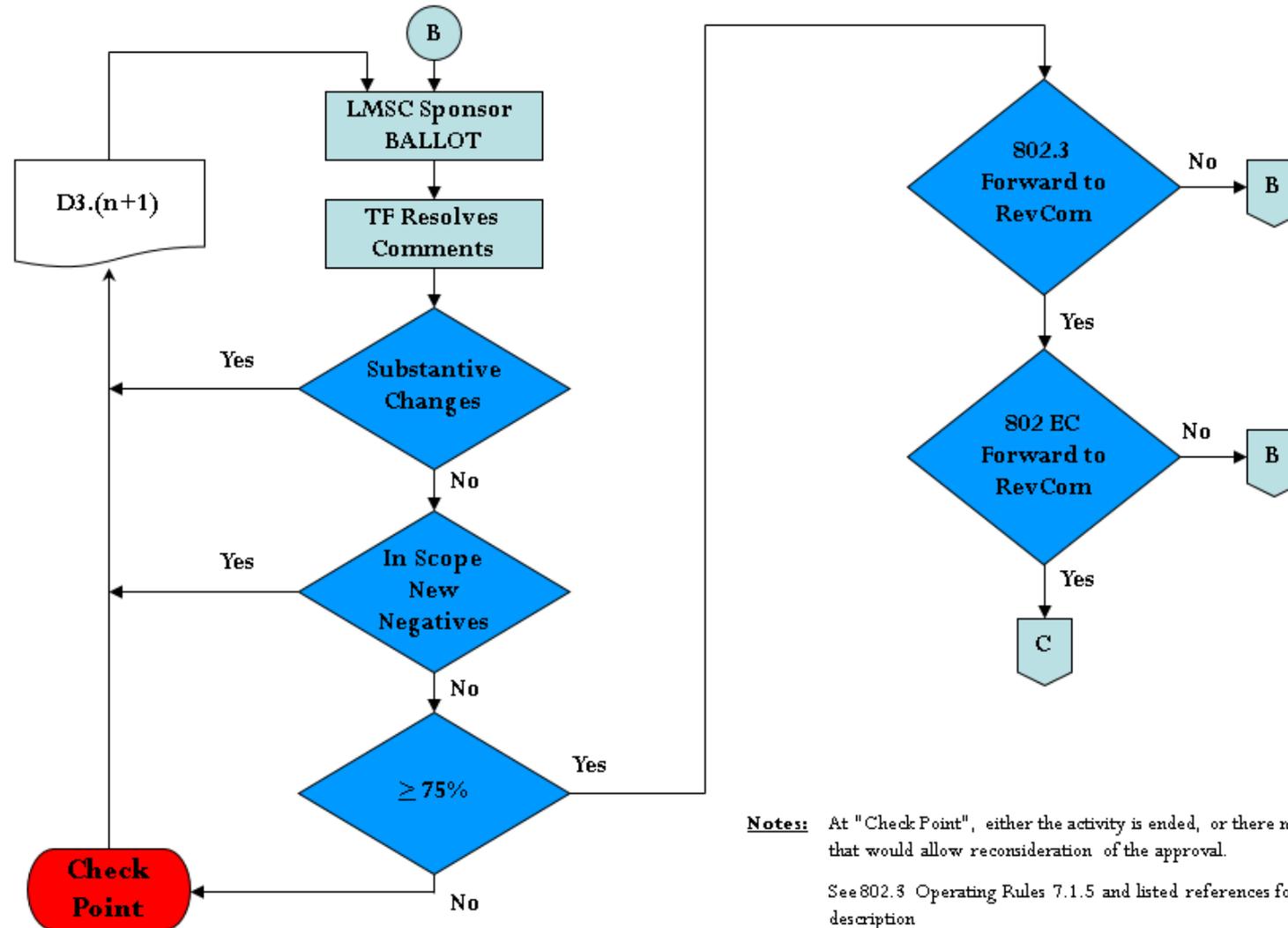


Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



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

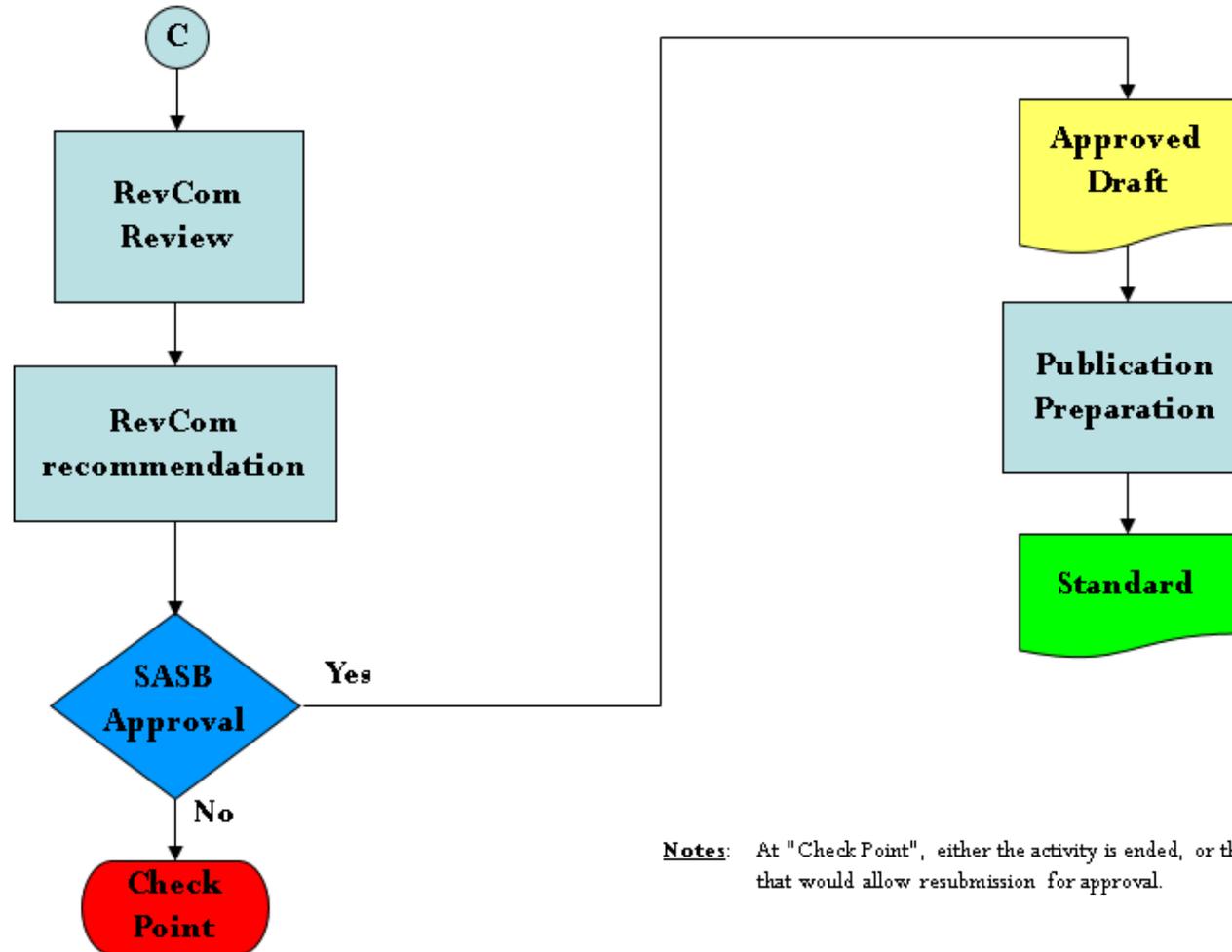
Overview of IEEE 802.3 Standards Process (4/5)- Sponsor Ballot Phase



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
- 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://iee.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