

Agenda and General Information

IEEE P802.3dk
Greater than 50 Gb/s Bidirectional Optical Access PHYs Task Force

Yuanqiu Luo
Futurewei Technologies
28 July 2025

Meeting Coordinates

- P802.3dk July 2025 Plenary Meeting
 - Monday July 28, 14:30-18:30 (GMT+2, Madrid Time)
 - Tuesday July 29, 9:00-18:30 (GMT+2, Madrid Time)
 - Zoom meeting link: <https://www.ieee802.org/3/calendar.html>
 - Include your full name and affiliation in the Zoom participant
 - Onsite attendees, please sign the attendance sheet passed in the meeting room

General Decorum

- An officer of the Working Group or one of its subgroups, unless prohibited by the P & P of the Standards Committee or Working Group, is permitted to record the proceedings of an IEEE standards development meeting for which they are responsible by making an audio or slideshow recording or by producing a transcript using software or an artificial intelligence (AI) application approved by IEEE. **IEEE 802.3 meetings do not use this option.** Recording of the proceedings by any other participant or observer, in part or in whole, via any means, is prohibited. Software or AI shall not be used if it enables persons other than the officer making the recording or authorized Standards Department staff to initiate or obtain the transcription or recording. (March 2025 IEEE-SA Standards Board Operations Manual 5.3.3.2)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (March 2025 IEEE-SA Standards Board Operations Manual 5.3.3.3)

Task Force Decorum



- Cell phone ringers off
- Wear your badges at all times in meeting areas
 - Help the hotel security staff improve the general security of the meeting rooms
 - **PCs HAVE BEEN STOLEN** at previous meetings
 - **DO NOT** assume that meeting areas are secure
- Please observe proper decorum in meetings

Agenda

- Welcome and Introductions
- Approve Agenda
- Approve June 2025 meeting minutes
- Goals for this meeting
- Big Ticket Items
- Reflector and Web
- Ground Rules
- IEEE
 - Structure, Bylaws and Rules
 - Call for Patents
 - IEEE Standards Process
- Draft D2.3 comment resolution
- Presentation
- Future Meetings
- Motions and Closing Business

Motion

- Move to approve this agenda
 - M: Kenneth Jackson S: Sisi Tan
 - Yes: No: Abs:
 - Motion result: Approved by voice vote without opposition
- Move to approve the minutes from June 2025, located at:
https://www.ieee802.org/3/dk/public/2506/2506_8023dk_unapproved_minutes.pdf
 - M: Frank Effenberger S: Tomoo Takahara
 - Yes: No: Abs:
 - Motion result: Approved by voice vote without opposition

Goals and Big Ticket Items

- Draft D2.3 comment resolution
- Prepare for conditional/unconditional approval to proceed to the Standards Association ballot

Reflector and Web

- To subscribe to the IEEE P802.3dk reflector, send an email to:

ListServ@ieee.org

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

*subscribe stds-802-3-GT50GBIDI <yourfirstname> <yourlastname>
end*

- Send reflector messages to:

stds-802-3-GT50GBIDI@listserv.ieee.org

- Task Force web page URL:

<https://www.ieee802.org/3/dk>

Task Force Private Area

- URL: <https://www.ieee802.org/3/dk/private/index.html>
 - Username: <<XXXXXX>>
 - Password: <<XXXXXXXX>>
- Write it down...
- Note - The draft, and any other content, is posted for your review only, and neither the content nor access information should be copied or redistributed to others in violation of document copyrights.

Ground Rules

- Based upon IEEE 802.3 Rules
 - Foundation based upon Robert's Rules of Order
 - Anyone in the room may speak
 - Anyone in the room may vote
- **RESPECT**... give it, get it
- NO product pitches
- NO corporate pitches
- NO prices!!!
 - This includes costs, ASPs, etc. no matter what the currency
- NO restrictive notices

Attendance

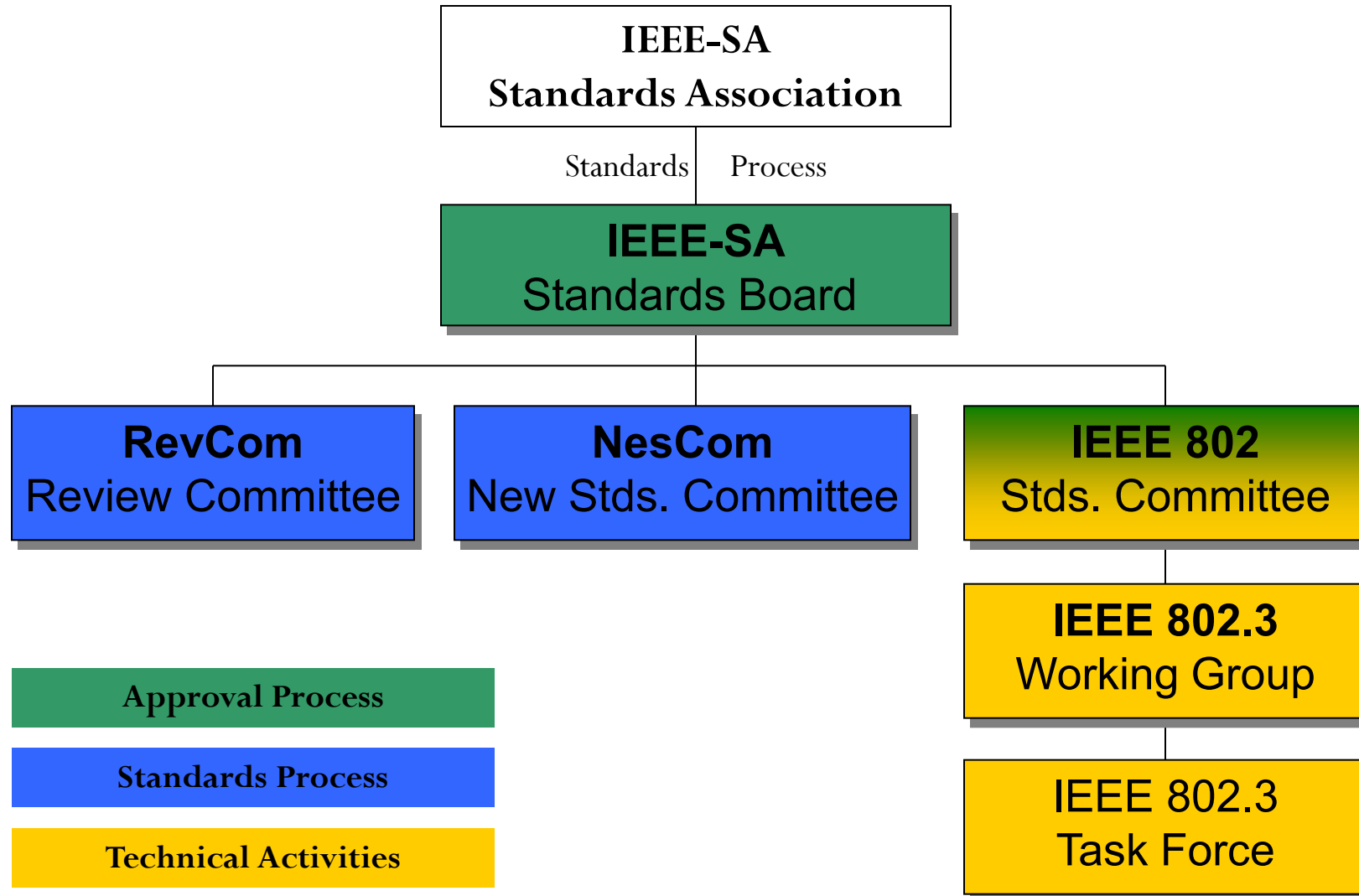
- Tutorial Material on attendance tool
 - http://ieee802.org/3/minutes/attendance_procedures.pdf
- Access details (interim and plenary only)
 - URL: <http://imat.ieee.org/>
 - Password:

Attendance credit changes on interims and plenaries

Other items

- IEEE 802.3 meeting attendance credit changes from May
 - IEEE 802.3 interims will be 'credited Interim Session'
 - IMAT will use four 'meeting slots' for Interims and Plenary
 - Remove IMAT post-process IMAT for IEEE 802.3 Recording Secretary
 - IMAT attendance credit percentages will be correct
 - Align us with all other IEEE 802 Working Groups
 - Impacts
 - Individual must attend 75% of meeting slots of 'credited Interim Session' for credit
 - Individuals will need to sign in four times a day
 - Minimum attendance for three days at a four-day interim for credit
 - Minimum attendance of four days at a five-day interim for credit

IEEE Structure



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

INSTRUCTIONS FOR THE WG CHAIR

The IEEE SA strongly recommends that at each WG meeting the chair or a designee:

- Show slides 1 through 4 of this presentation
- Advise the WG attendees that:
 - IEEE's patent policy is described in Clause 6 of the *IEEE SA Standards Board Bylaws*;
 - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
 - There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
- Instruct the WG Secretary to record in the minutes of the relevant WG meeting:
 - That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
 - That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard
 - Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.
- The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
- It is recommended that the WG Chair review the guidance in *IEEE SA Standards Board Operations Manual* 6.3.5 and in FAQs 14 and 15 on inclusion of potential Essential Patent Claims by incorporation or by reference.

Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE SA Standards Board.

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**

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 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.

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**

INSTRUCTIONS FOR CHAIRS OF STANDARDS DEVELOPMENT ACTIVITIES

At the beginning of each standards development meeting the chair or a designee is to:

- Show the following slides (or provide them beforehand)
- Advise the standards development group participants that:
- IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy;
- Instruct the Secretary to record in the minutes of the relevant meeting:
- That the foregoing information was provided and that the copyright slides were shown (or provided beforehand).

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
 - <https://standards.ieee.org/faqs/copyrights/>
- 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>

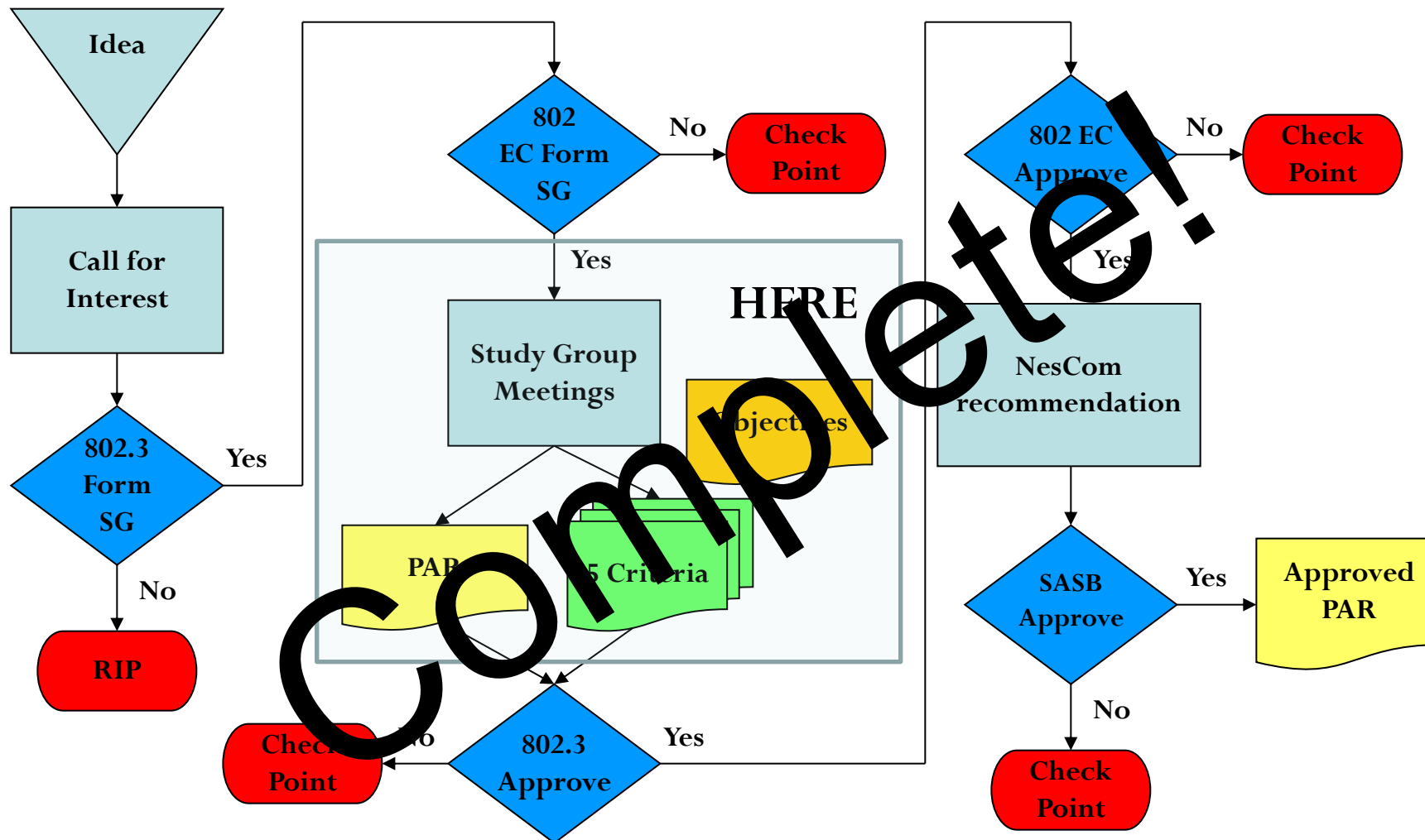
Participants in the IEEE-SA “*individual process*” shall act independently of others, including employers

- 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

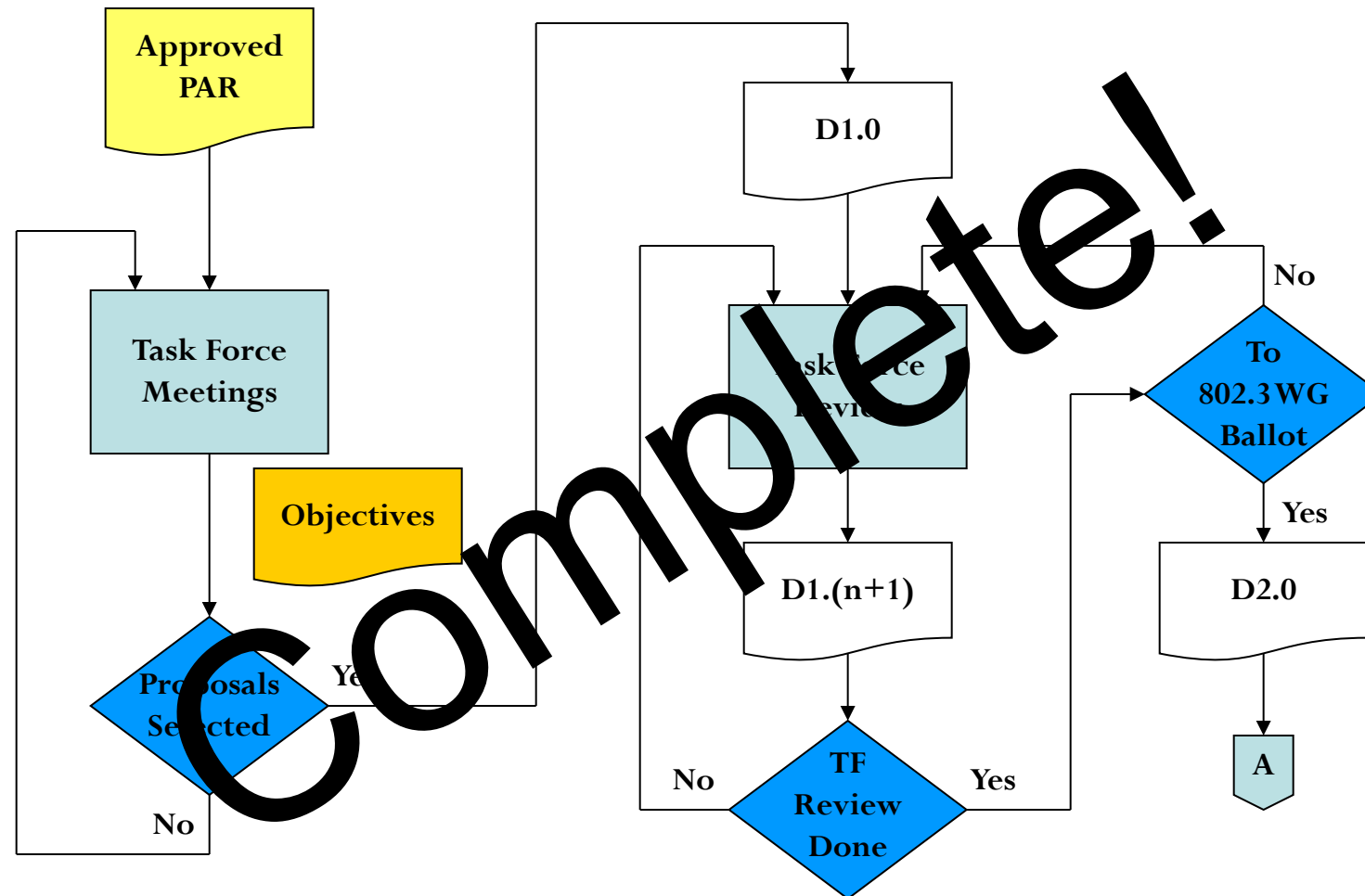
- The [IEEE-SA Standards Board Bylaws](#) (clause 5.2.1.3) specifies that *“the standards development process shall not be dominated by any single interest category, individual, or organization”*
 - This means no participant may exercise *“authority, leadership, or influence by reason of superior leverage, 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

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

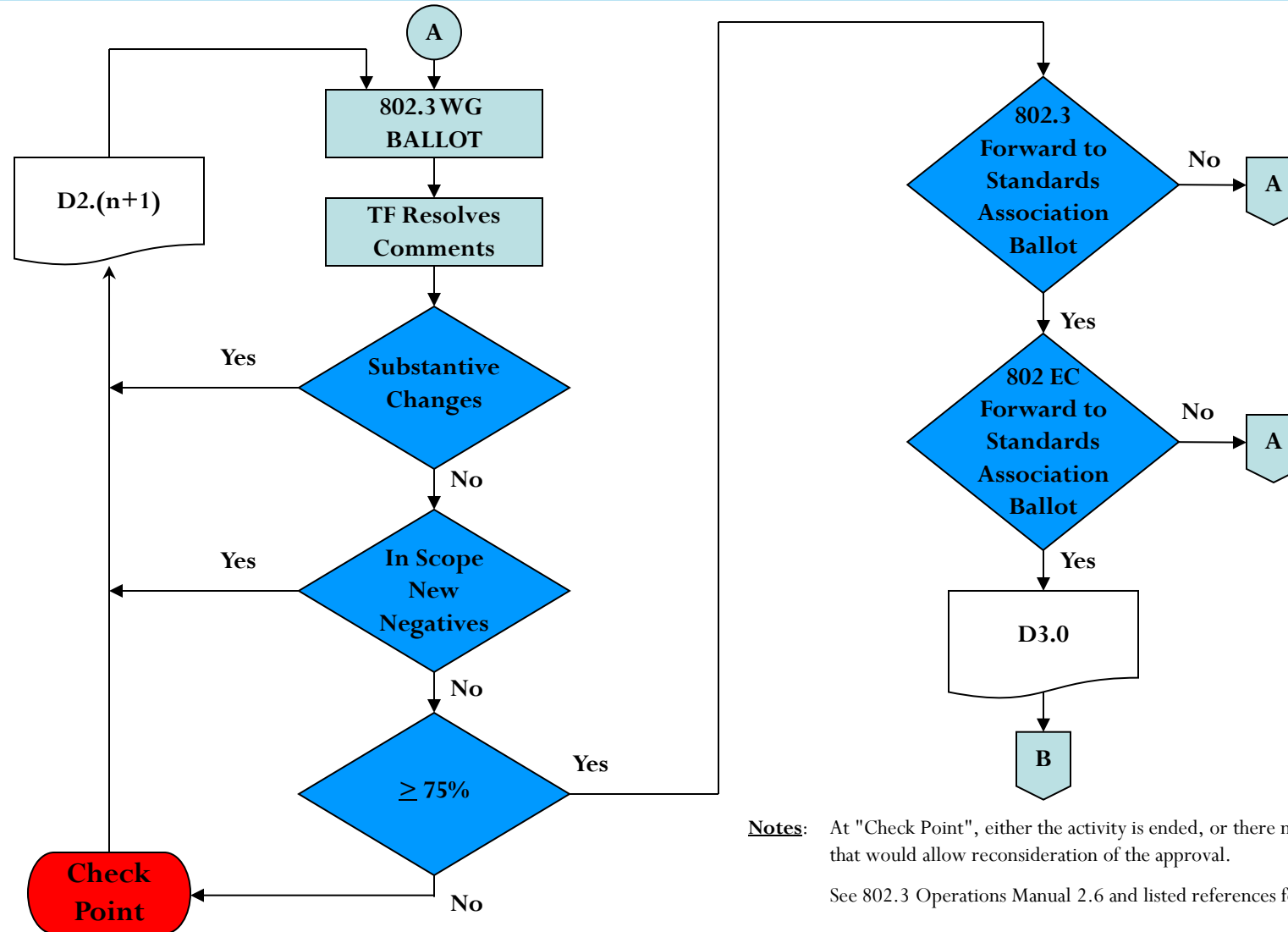


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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



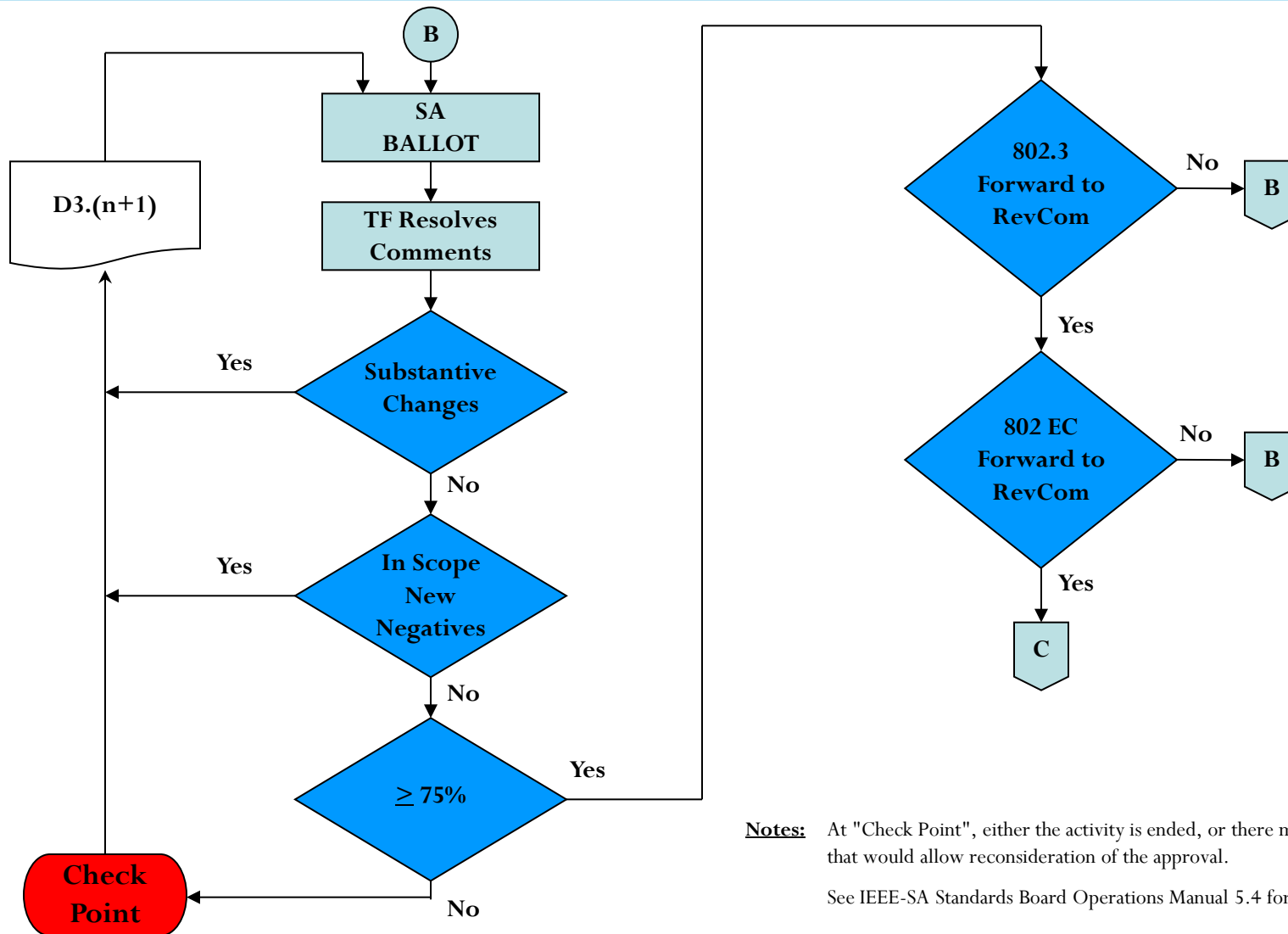
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



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 Operations Manual 2.6 and listed references for complete description

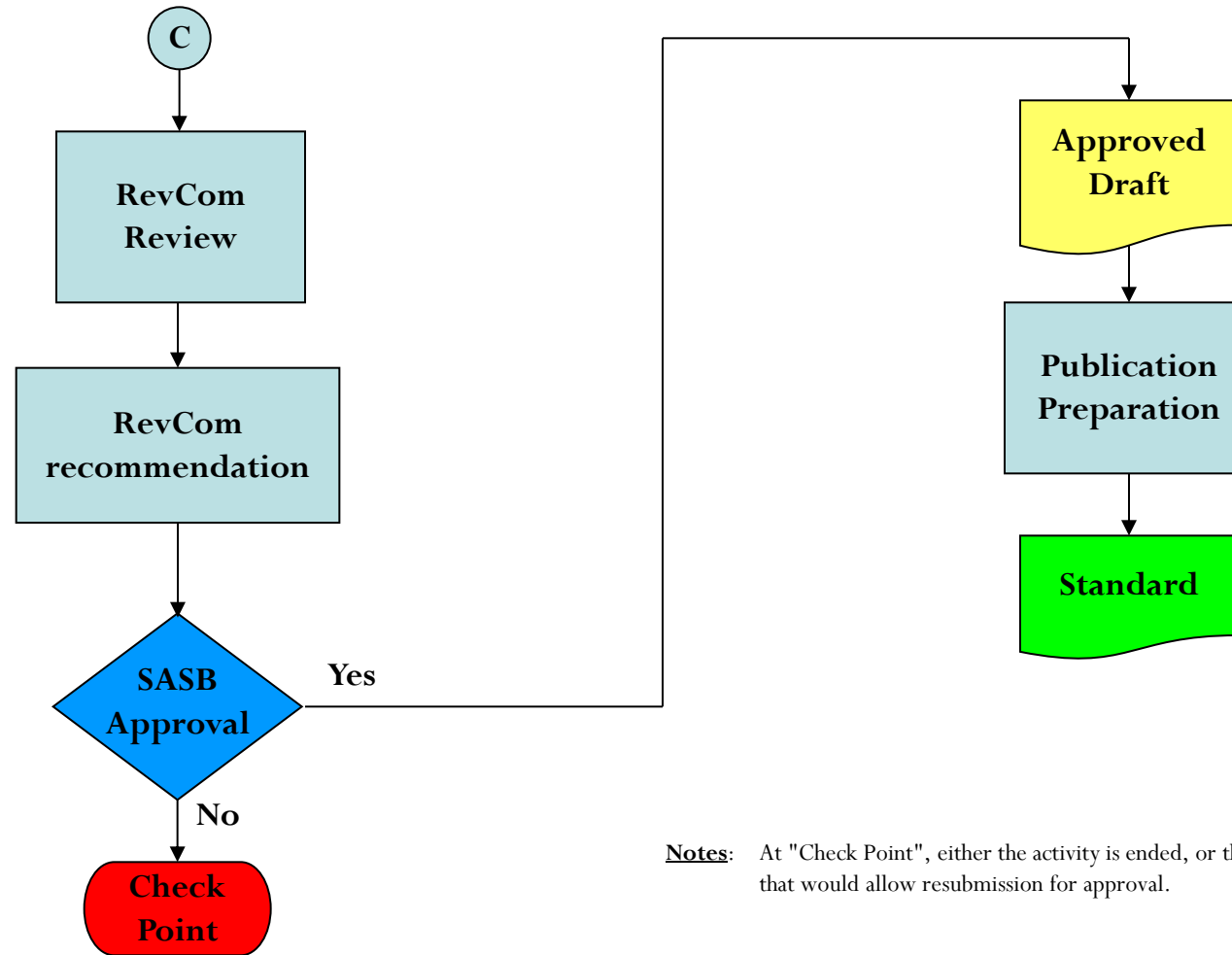
Overview of IEEE 802.3 Standards Process (4/5)- IEEE Standards Association (SA) Ballot Phase



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

See IEEE-SA Standards Board Operations Manual 5.4 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 P802.3dk Greater than 50 Gb/s BiDi Optical Access PHYs Task Force

Approved Project Documents

- PAR
 - https://www.ieee802.org/3/dk/P802d3dk_PAR.pdf
- 5 Criteria
 - <https://mentor.ieee.org/802-ec/dcn/22/ec-22-0268-00-ACSD-ieee-p802-3dk.pdf>
- Objectives (updated after Nov 2024 plenary)
 - https://www.ieee802.org/3/dk/P802.3dk_OBJ_Update.pdf
- Timeline (posted after Nov 2024 plenary)
 - https://www.ieee802.org/3/dk/P802.3dk_Timeline.pdf

Drafts 2.x and Review Progress

- Draft 2.0 was announced, review was closed on April 13
 - Received 271 comments
 - Had Zoom sessions on April 22~23, addressed 211 comments
 - 60 unresolved comments were held over to D2.1
- Draft D2.1 was announced, review was closed on May 13
 - Received 72 comments
 - Met during the May interim, addressed 132 comments (60 from D2.0, 72 from D2.1)
- Draft D2.2 was announced, review was closed on June 11
 - Received 54 comments
 - Had Zoom sessions on June 24~26, addressed comments
- Draft D2.3 was announced, review was closed on July 22
 - Received 6 comments before deadline, 12 late comments

Ballot close date and results

The 3rd Working Group recirculation ballot on IEEE P802.3dk draft D2.3 closed on 22 July 2025 at 23:59 AoE

- Vote tally

	Initial Draft D2.0			1 st Recirculation Draft D2.1			2 nd Recirculation Draft D2.2			3 rd Recirculation Draft D2.3			Req %
	#	%	Status	#	%	Status	#	%	Status	#	%	Status	
Abstain	29	19	PASS	30	18	PASS	31	17	PASS	30	16	PASS	< 30
Dis with comment	11	-	-	8	-	-	7	-	-	0	-	-	-
Dis w/o comment	0	-	-	0	-	-	0	-	-	0	-	-	-
Approve	116	91	PASS	130	94	PASS	142	95	PASS	156	100	PASS	≥ 75
Ballots returned	156	64	PASS	168	69	PASS	180	73	PASS	186	76	PASS	>50
Voters	244	-	-	244	-	-	244	-	-	244	-	-	-
Comments	271	-	-	72	-	-	54	-	-	6+12	-	-	-
Public comments	0	-	-										

Draft D2.3 Comment Resolution

- Draft D2.3 is available
 - URL: <https://www.ieee802.org/3/dk/private/8023dk-draft-v2.3-changes.pdf>
 - D2.3 review window was 7 July – 22 July
- D2.3 comments and proposed resolutions are posted
 - URL: <https://www.ieee802.org/3/dk/comments/index.html>
- Sisi Tan (Chief Editor) to lead D2.3 comment resolution

Presentation

Title	Contributor	Affiliation
1. 802.3dk D2.3 Comment Review	Sisi Tan	Huawei

Motion #3

- Move to generate the next draft based on comment resolutions from the July 28 meeting.
 - Technical ($\geq 75\%$)
 - M: Kenneth Jackson
 - S: Tomoo Takahara
 - Motion result: Approved by voice vote without opposition

Motion #4

- Move to request WG approval to progress the IEEE P802.3dk draft to IEEE Standards Association ballot with editorial changes agreed on 28 July meeting.
 - Technical ($\geq 75\%$)
 - M: Frank Effenberger S: Kenneth Jackson
 - Motion result: Approved by voice vote without opposition

Future Meetings

- See: <http://www.ieee802.org/3/interims/index.html>
- August, Prepare to enter SA balloting
- September 1 - October 1, D3.0 review window
- 3dk TF has no plan to meet during Sep 2025 interim
- October 7 - 9, D3.0 comment resolution, Zoom sessions
- November 10 - 14, 2025, plenary, Bangkok, Thailand
- Anyone interested in hosting interim meetings contact me or the IEEE 802.3 Executive Secretary [Chad Jones](#)

Motion

- Move to adjourn the meeting.
- Procedural (>50%)
- M: Tommo Takahara S: Kenneth Jackson
- Approved by voice vote without opposition

Thank You!