

Agenda and General Information

IEEE 802.3

Bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s
Optical Access PHYs

Frank Effenberger
Huawei Technologies
Bangkok, 14 Nov 2018

Agenda

- Welcome and Introductions
- Approve Agenda
- Goals for this meeting
- Big Ticket Items
- Reflector and Web
- Ground Rules
- IEEE
 - Structure, Bylaws and Rules
 - Call for Patents
 - IEEE Standards Process
- Liaisons and Communications
- Presentations
- Comments on the PAR, CSD, and Objectives and Closing Business
- Future Meetings

Presentations

- **Technical presentations**

- **PHY based Silent Start** **Hanhyub Lee** **ETRI**
- **Loss Budgets** **Frank Effenberger** **Huawei**

- **Project documents**

- **PAR draft** **Frank Effenberger** **Huawei**
- **Objectives** **Frank Effenberger** **Huawei**
- **CSD draft** **Frank Effenberger** **Huawei**

- **Comments on these documents**

Motion #1

- Move to approve the agenda as shown in 181114_Study_Group_agenda.pdf
- M: Claudio Desanti S: Duane Remein
- > 50%
- Y: , N: , A:
- ABVWO

Motion #2

- Approve the Minutes of 802.3 BiDi Study Group meeting held September 2018, in Spokane WA as shown in minutes_unapproved_1025BiDi_SG_0918_Spokane_v2.pdf and post as minutes_approved_NGBiDi_SG_0918.pdf.
- M: Duane Remein S: Mark Laubach
- $\geq 75\%$
- Y: , N: , A:
- **ABVWO**

Study Group Decorum



- An officer is permitted to make an audio or slideshow recording of this meeting exclusively for the purpose of generating minutes which shall not be copied or distributed. **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. (June 2018 IEEE-SA Standards Board Ops Manual 5.3.3.2)
- Pres (i.e., anyone reporting publicly on this meeting) are to announce their presence (June 2018 IEEE-SA Standards Board Ops Manual 5.3.3.3)
- 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

Goals for the meeting

- Review contributions
- Review comments received on project documents
- Lay the ground work for the next meeting

Big ticket items

- PAR
 - CSD
 - Objectives
-
- Proposed goal: Be ready to ask for PAR approval at closing plenary meeting

Reflector and Web

- To subscribe to the *Bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s Optical Access PHYs* reflector, send an email to:

ListServ@ieee.org

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

subscribe STDS-802-3-NGBIDI@listserv.ieee.org <yourfirstname> <yourlastname>
end

- Send *Bidirectional 10 Gb/s and 25 Gb/s Optical Access PHYs* reflector messages to:

STDS-802-3-NGBIDI@listserv.ieee.org

- Study Group web page URL:

<http://www.ieee802.org/3/NGBIDI/index.html>

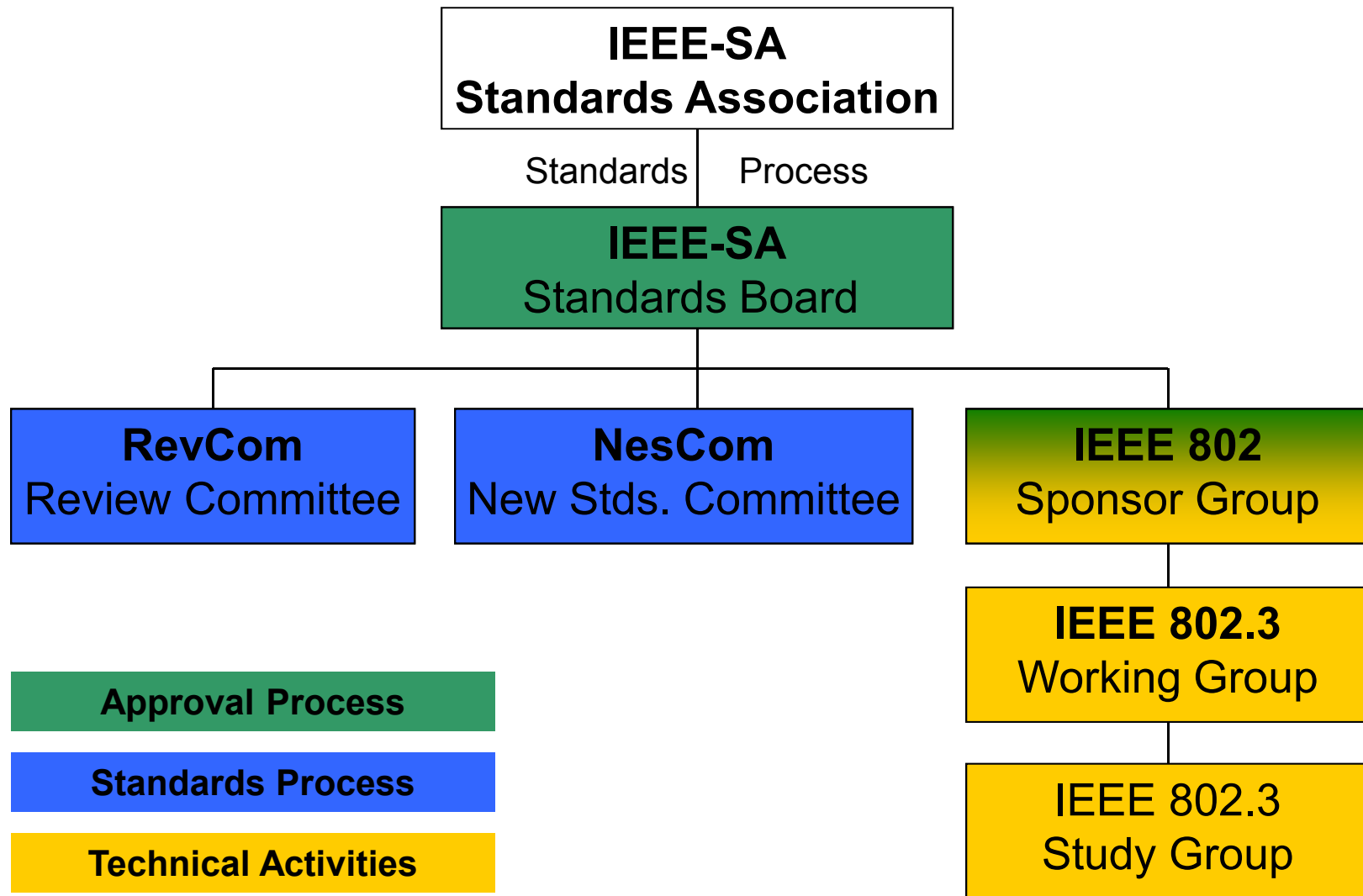
Study Group Private Area

- URL: No private area is needed at this point
 - Username:
 - Password:
- Write it down...
- Note - The 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

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

Guidelines for IEEE-SA 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, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.
 - Technical considerations remain 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.**

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org or visit <http://standards.ieee.org/about/sasb/patcom/index.html>

See *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and “Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association’s Antitrust and Competition Policy” for more details.

This slide set is available
at <https://development.standards.ieee.org/myproject/Public/mytools/mob/preparslides.ppt>

March 2015
IEEE-SA Standards Board Patent Committee

Participation in IEEE 802 Meetings

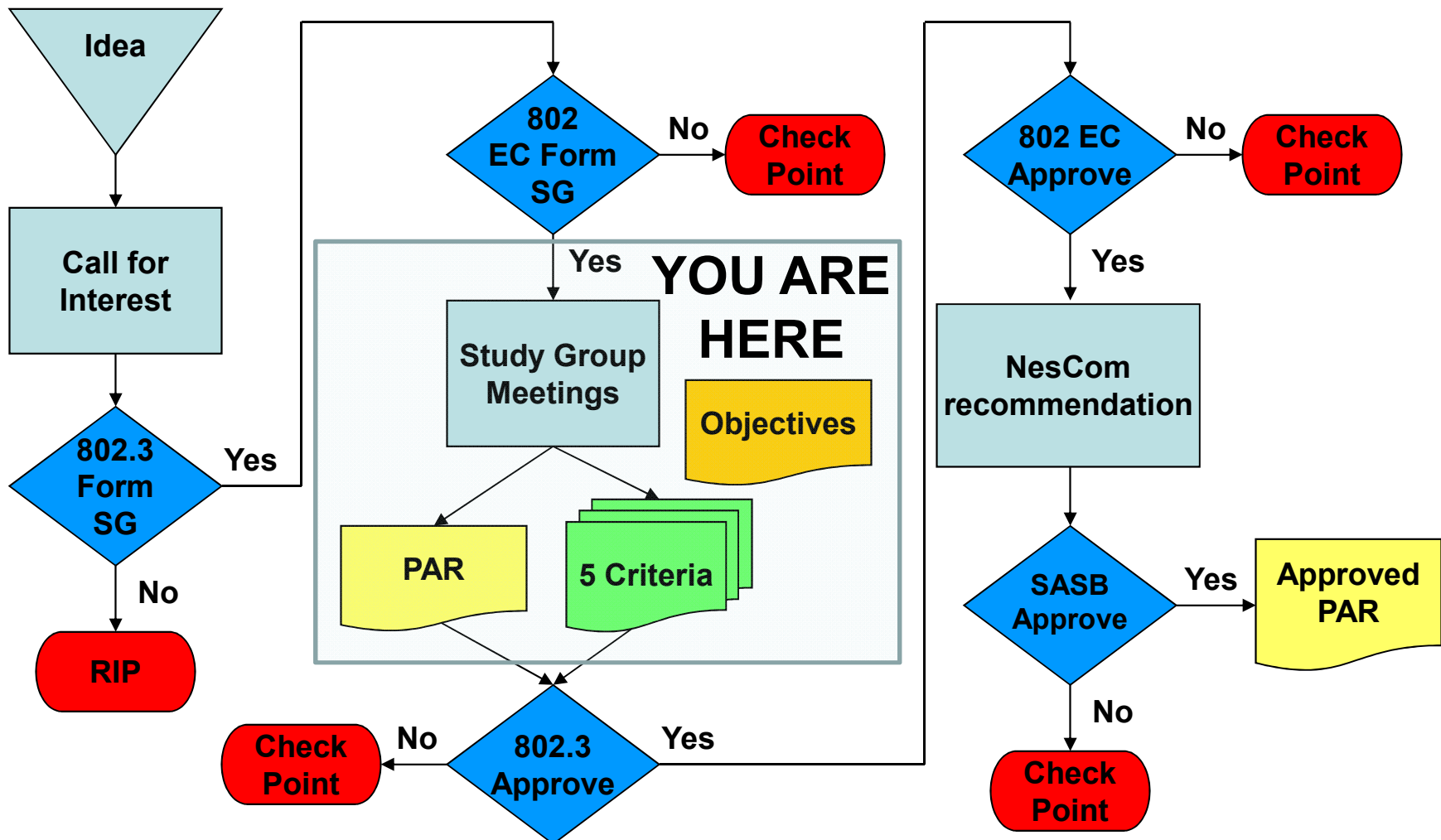
Participation in any IEEE 802 meeting (Sponsor, Sponsor subgroup, Working Group, Working Group subgroup, etc.) is on an individual basis

- **Participants in the IEEE standards development individual process shall act based on their qualifications and experience. (https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf section 5.2.1)**
- **IEEE 802 Working Group membership is by individual; “Working Group members shall participate in the consensus process in a manner consistent with their professional expert opinion as individuals, and not as organizational representatives”. (subclause 4.2.1 “Establishment”, of the IEEE 802 LMSC Working Group Policies and Procedures)**
- **Participants have an obligation to act and vote as an individual and not under the direction of any other individual or group. A Participant’s obligation to act and vote as an individual applies in all cases, regardless of any external commitments, agreements, contracts, or orders.**
- **Participants shall not direct the actions or votes of any other member of an IEEE 802 Working Group or retaliate against any other member for their actions or votes within IEEE 802 Working Group meetings, see https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf section 5.2.1.3 and the IEEE 802 LMSC Working Group Policies and Procedures, subclause 3.4.1 “Chair”, list item x.**

By participating in IEEE 802 meetings, you accept these requirements. If you do not agree to these policies then you shall not participate.

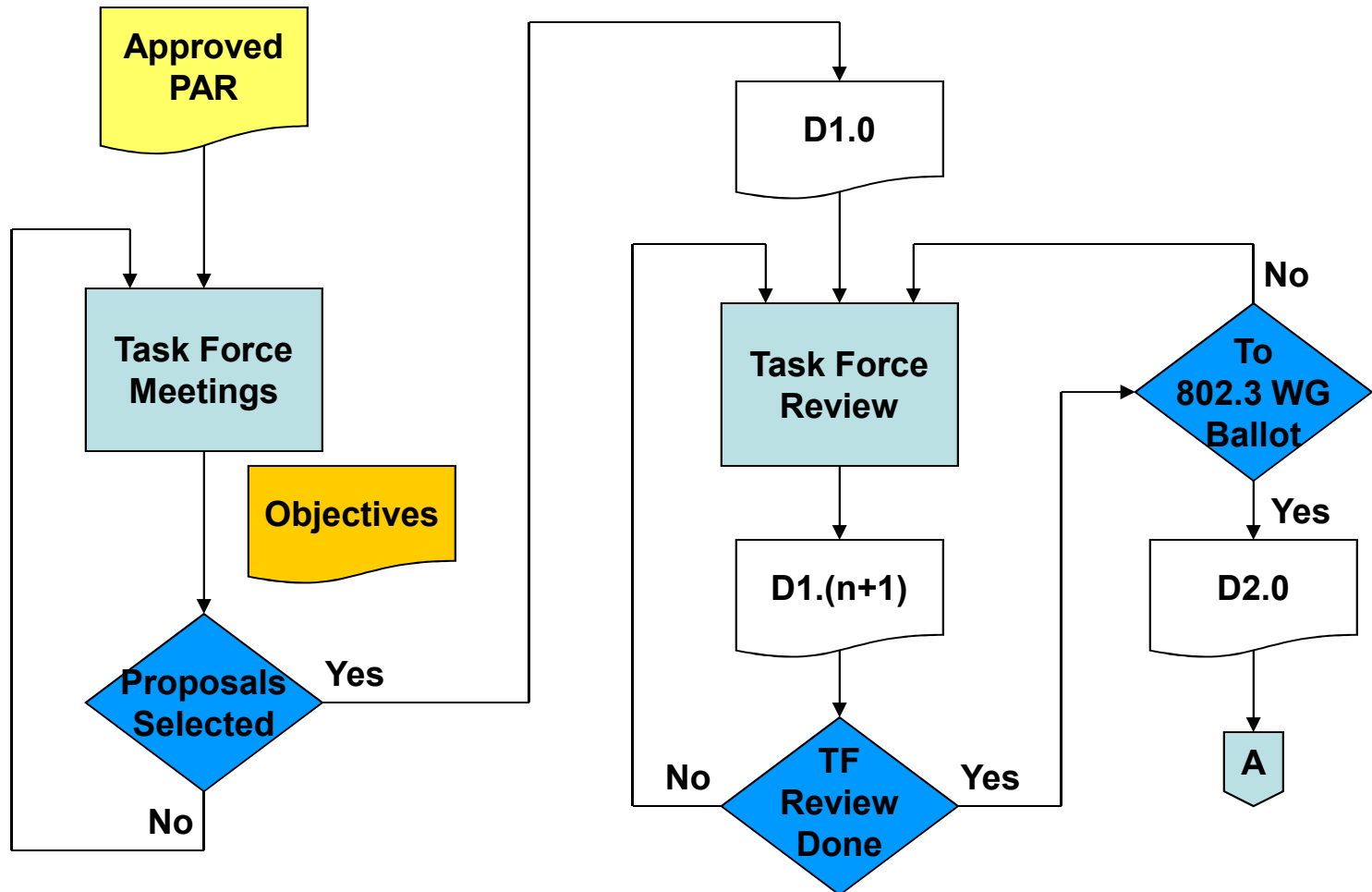
(Latest revision of IEEE 802 LMSC Working Group Policies and Procedures: <http://www.ieee802.org/devdocs.shtml>)

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

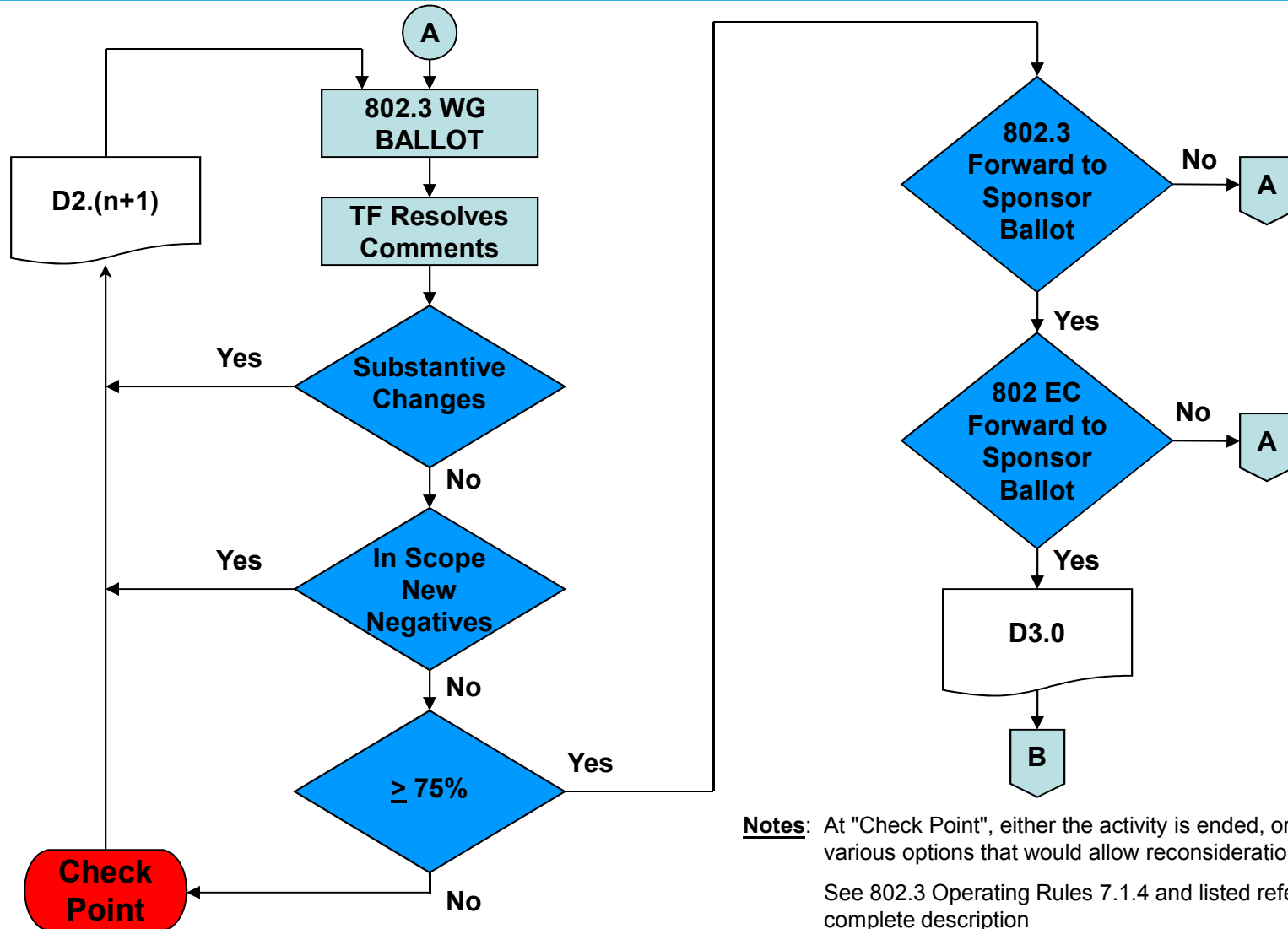


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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



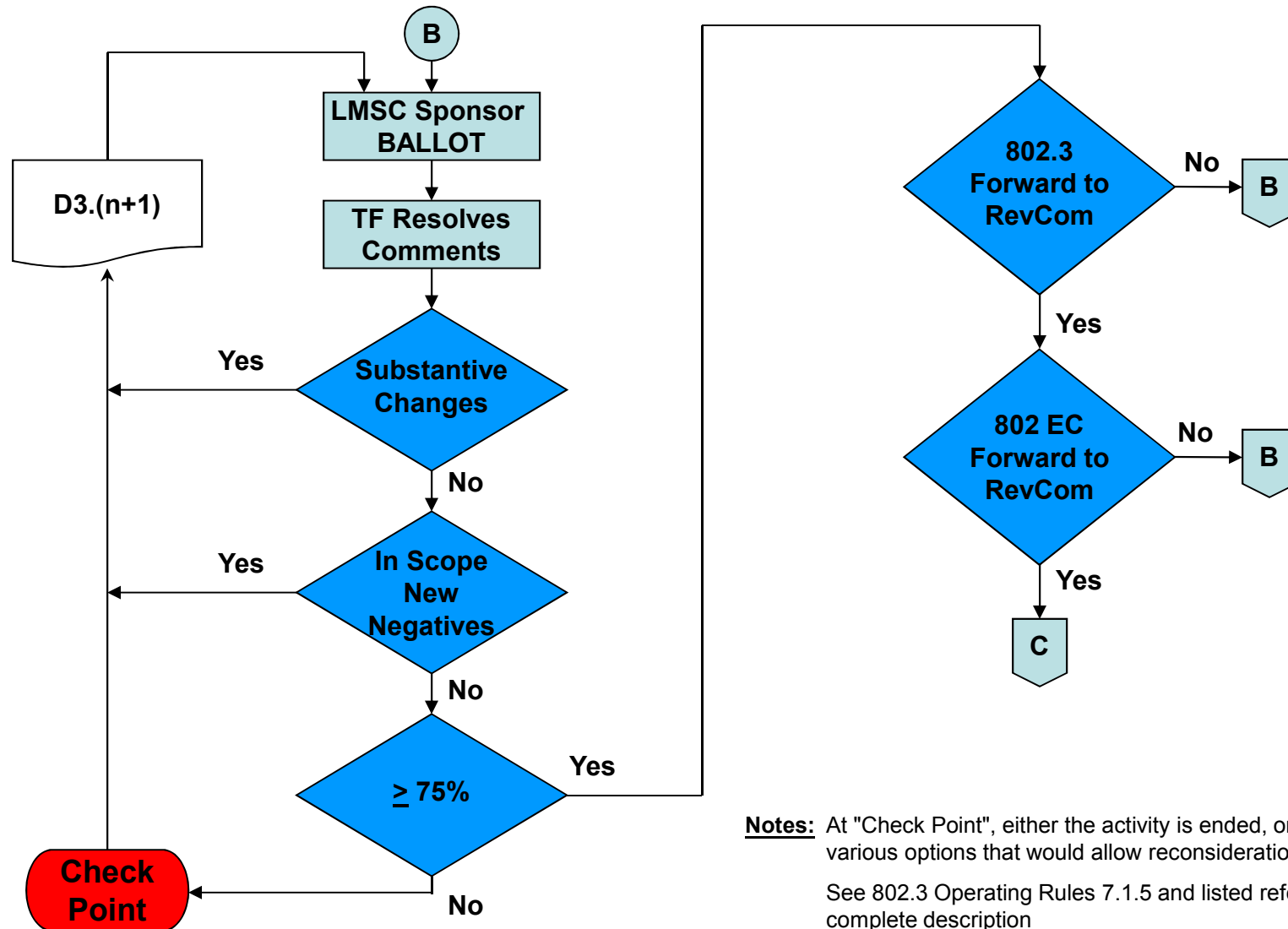
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



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

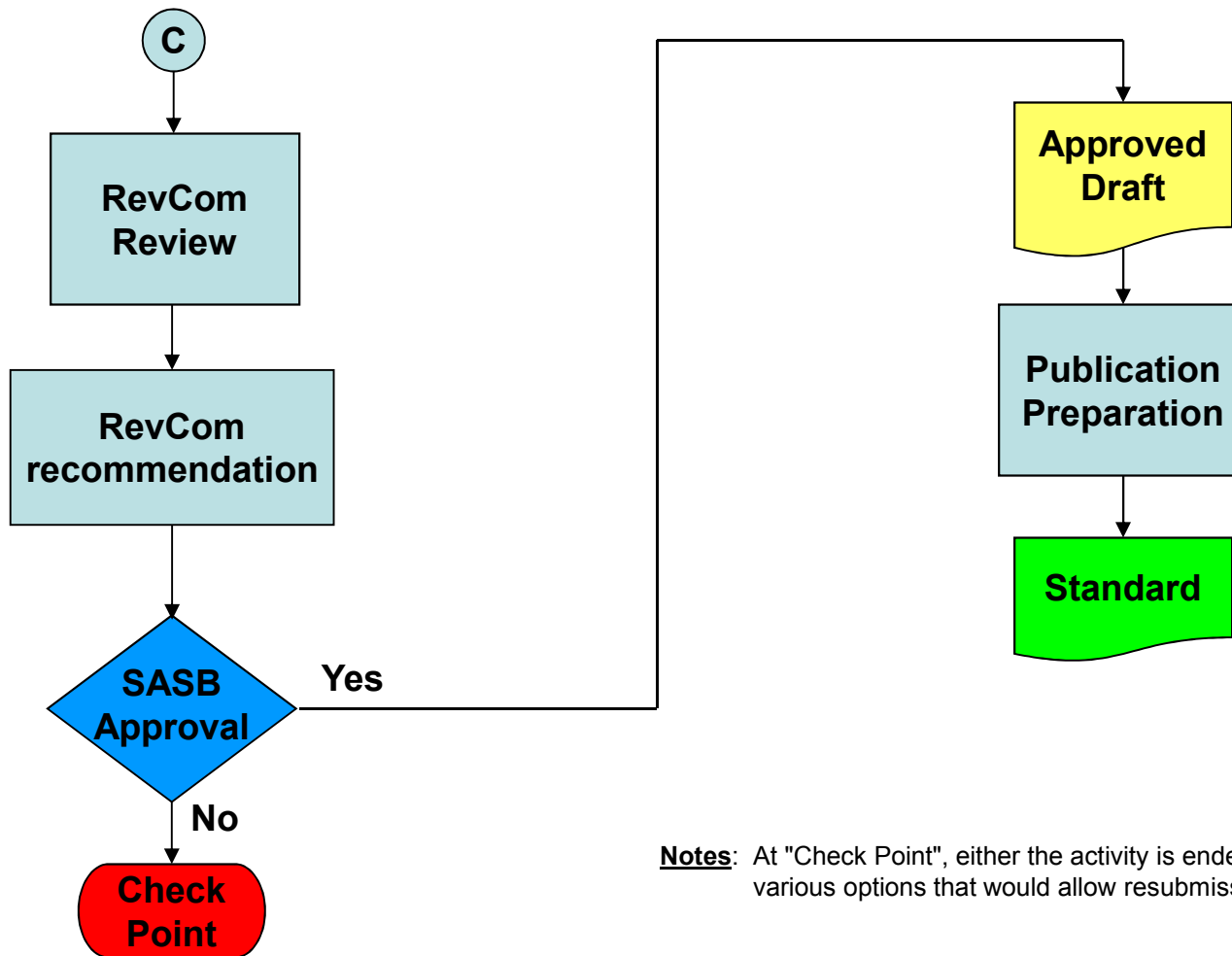
Overview of IEEE 802.3 Standards Process (4/5)- Sponsor Ballot Phase



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.

The Study Group

- Normal function is to draft a complete PAR and Five Criteria
- Provide a plenary week tutorial to the LMSC.
- Gain approval at the IEEE 802.3 WG, IEEE 802 EC, IEEE-SA NesCom and IEEE-SA Standards Board.
- SG only exists for 6 months
 - Extensions can be requested
 - Voted on by IEEE 802.3
 - Ratified by IEEE 802 EC
- Development of Objectives helps set the goals for the Task Force
- Consensus required to move forward

- Not a goal – choosing a solution.

Request for Formation of Study Group (as per 7/12 Plenary Motion)

MOTION #25

Move that the IEEE 802.3 Working Group request the formation of a Study Group to develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for Bidirectional 10 Gb/s, 25 Gb/s and 50 Gb/s Optical Access PHYs Study Group.

M: X. Wang S: D. Ofelt

> 50%

Y: 68, N: 0, A: 8

Passed 12-Jul 2018, 5:37 pm

Attendance

- Tutorial Material on attendance tool
 - http://ieee802.org/3/minutes/attendance_procedures.pdf
- Access details
 - URL: <http://imat.ieee.org/>
 - (For interim) Password will be provided

Note: Ensure that password does not appear in version of slides posted on public web site.

Presentations

- **Technical presentations**

- **PHY based Silent Start** **Hanhyub Lee** **ETRI**
- **Loss Budgets** **Frank Effenberger** **Huawei**

- **Project documents**

- **PAR draft** **Frank Effenberger** **Huawei**
- **Objectives** **Frank Effenberger** **Huawei**
- **CSD draft** **Frank Effenberger** **Huawei**

- **Comments on these documents**

Comments Received

- Comment 1: Objectives are not clear on how many PHYs we intend to define. Suggested edit:
 - Delete the line:
 - Support distances of at least 10 km, at least 20 km, and at least 40 km
 - Add the lines:
 - For each data rate define PHYs for operation up to at least 10 km
 - For each data rate define PHYs for operation up to at least 20 km
 - For each data rate define PHYs for operation up to at least 40 km
-
- Discussion:

Comments Received

- Comment 2:
- In the PAR section 5.6: Add a missing Stakeholder that was listed in the CSD “Municipal and independent operators”

- Comment 3:
- In the CSD: Broad Market Potential – Add to the list of potential user groups to make the stakeholder list consistent. – add “subscribers.”

Comments Received

- Comment 4:
- In the CSD: Technical Feasibility - change :
- “The basic technologies for 10 Gb/s, 25 Gb/s, and 50 Gb/s transmission over at least 10 km and at least 40 km of single mode fiber are well established”

to

- “The basic technologies for 10 Gb/s, 25 Gb/s, and 50 Gb/s **capable of** transmission over at least 10 km and at least 40 km of single mode fiber are well established”

Motion #3

- Move that the SG approve PAR as shown in P802_3cp_PAR_Detail_131118.pdf, and forward to 802.3 for their approval
- M: Frank Effenberger S: Claudio Desanti
- $\geq 75\%$
- Y: 18, N: 0, A: 0
- Motion passes

Motion #4

- Move that the SG approve CSD as shown in ec-18-0176-01-00EC-ieee-p802-3cp-draft-csd_Modified181114.pdf, and forward to 802.3 for their approval
- M: Mark Laubach S: Marek Hajduczenia
- $\geq 75\%$
- Y: 17, N: 0, A: 0
- Motion passes

Motion #5

- Move that the SG approve objectives as shown in 181114_802d3_OBJ_BiDi_v3.pdf, and forward to 802.3 for their approval
- M: Duane Remein S: Claudio Desanti
- $\geq 75\%$
- Y: 18 , N: 0 , A: 0
- Motion Passes

Future Meetings

- See: <http://www.ieee802.org/3/interims/index.html>
- *Jan 2019 Interim*
 - Long Beach, CA
 - Jan 14-18
- Attendance: Show of hands, who will go to the Jan meeting?
 - Yes: 11 No: 4 Maybe:2
- *March 2019 Plenary*
 - Vancouver, BC
 - Mar 11-14
- Attendance: Show of hands, who will go to the Mar meeting?
 - Yes: 11 No: 1 Maybe:4
- Anyone interested in hosting a interim meeting contact me or the IEEE 802.3 Executive Secretary [Steve Carlson](#).

Motion #6

- Move to adjourn
- M: Kevin Noll S: Dekun Liu
- > 50%
- Y: , N: , A:
- PBVWO

Thank You!