

Agenda and General Information

IEEE 802.3

Physical Layers for increased-reach
Ethernet optical subscriber access
(Super-PON) Study Group

Claudio DeSanti
Google

Spokane, WA – September 11-12, 2018

Agenda

- *Appointment of Recording Secretary: Duane Remein volunteered*
- *Confirmation of Chair: Claudio DeSanti is proposed Chair*
- 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
- Motions and Closing Business
- Future Meetings

Motion #1

- Move to approve the agenda
- M: Duane Remain
- S: Vincent Ferretti
- >50%
- Passed by acclamation

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. (December 2017 IEEE-SA Standards Board Ops Manual 5.3.3.2)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (December 2017 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
- Work on draft PAR, CSD, and Objectives

- Lay the ground work for the next meeting

Big ticket items

- Define initial PAR, CSD, and Objectives
- Try to be ready to ask for PAR approval at the November plenary meeting

Reflector and Web

- To subscribe to the Super-PON reflector, send an email to:

ListServ@ieee.org

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

subscribe STDS-802-3-SUPER-PON <yourfirstname> <yourlastname>
end

- Send Super-PON reflector messages to:

STDS-802-3-SUPER-PON@listserv.ieee.org

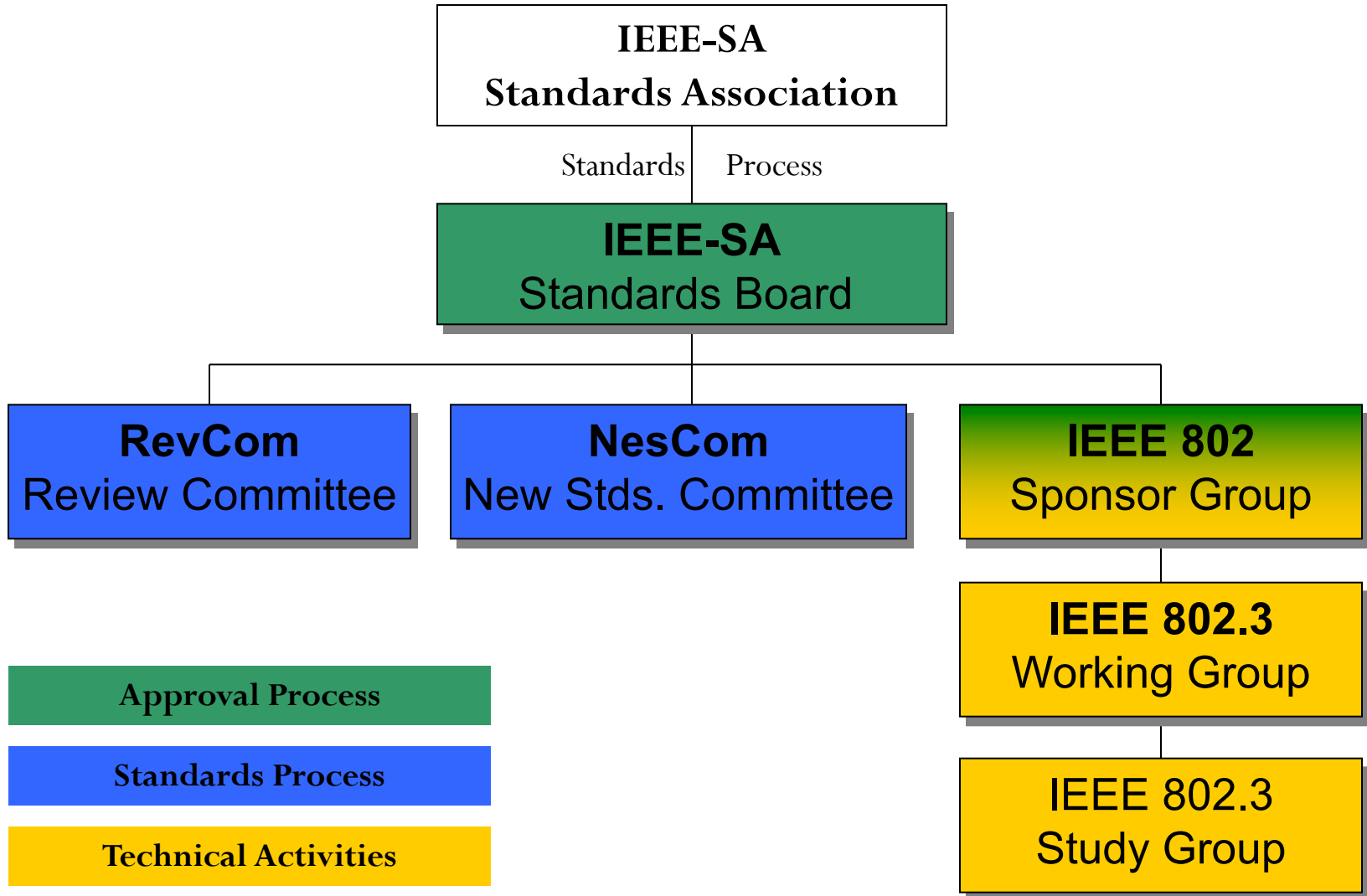
- Study Group web page URL:

http://www.ieee802.org/3/SUPER_PON/index.html

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**
<http://standards.ieee.org/about/sasb/audcom/pnp/LMSC.pdf>
- **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>

Participation in IEEE 802 Meetings

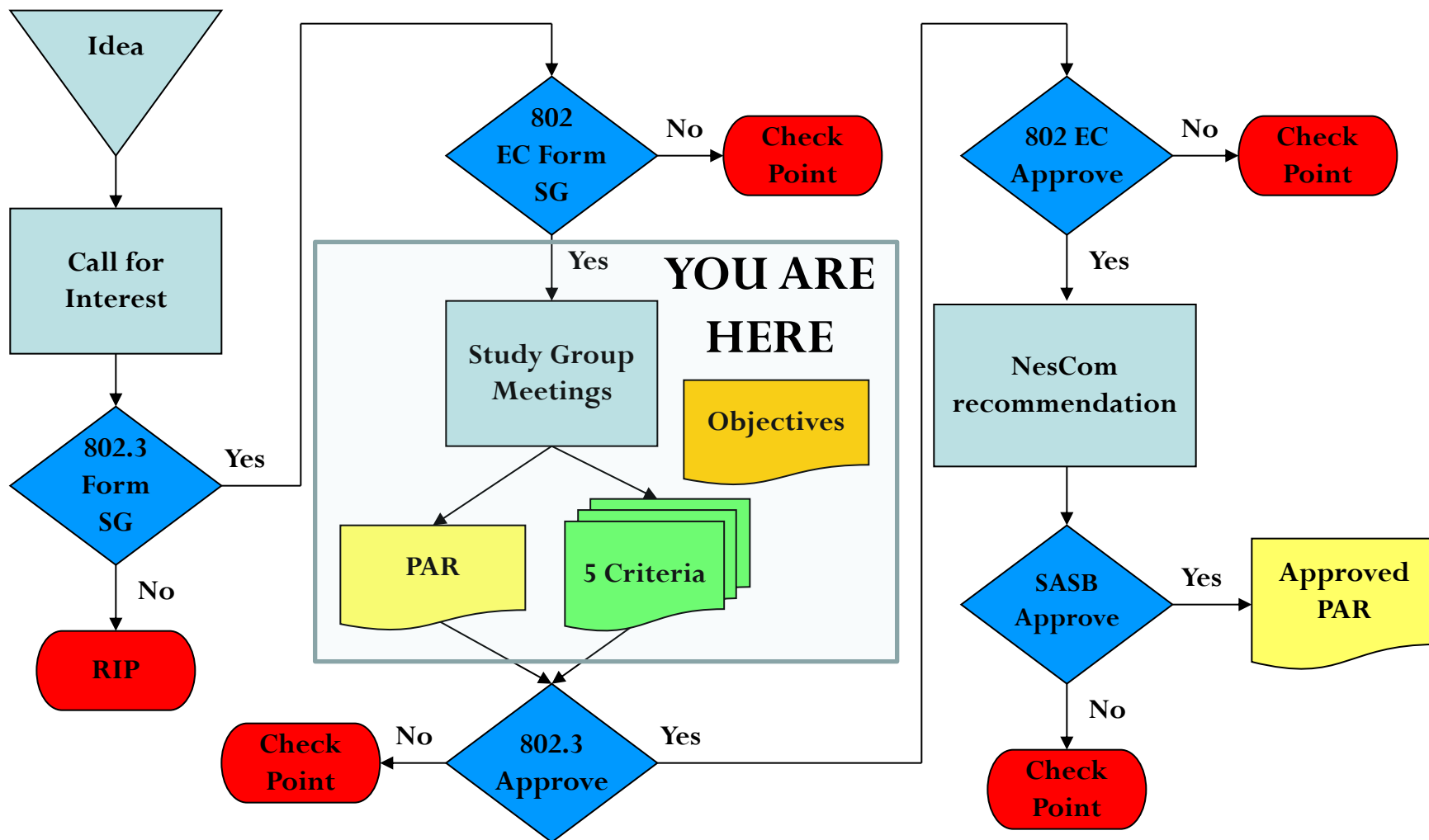
Participation in any IEEE 802 meeting (Sponsor, Sponsor subgroup, Working Group, Working Group subgroup, etc.) is on an individual basis

- **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.

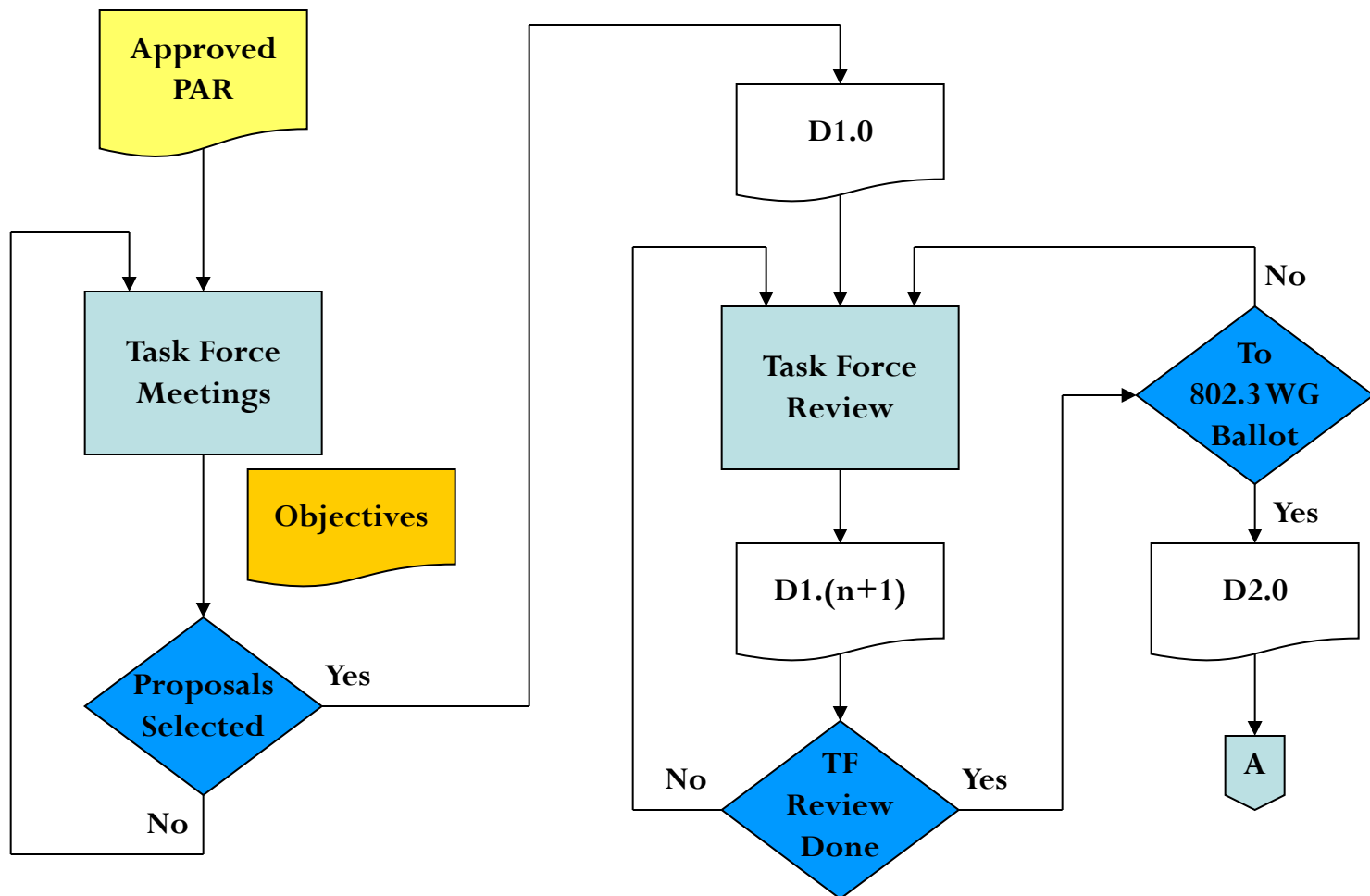
(Latest revision of IEEE 802 LMSC Working Group Policies and Procedures: <http://www.ieee802.org/devdocs.shtml>)

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

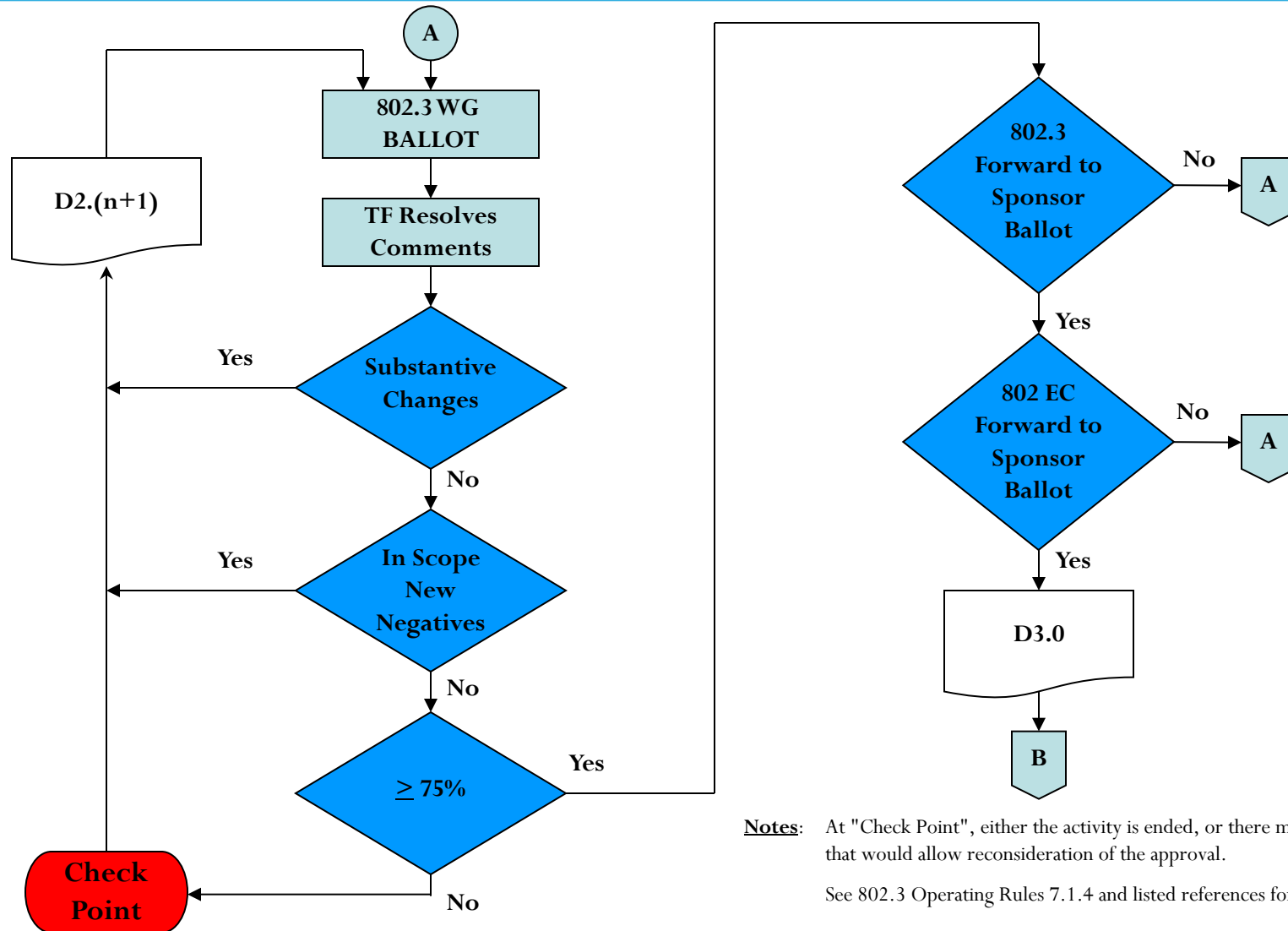


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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



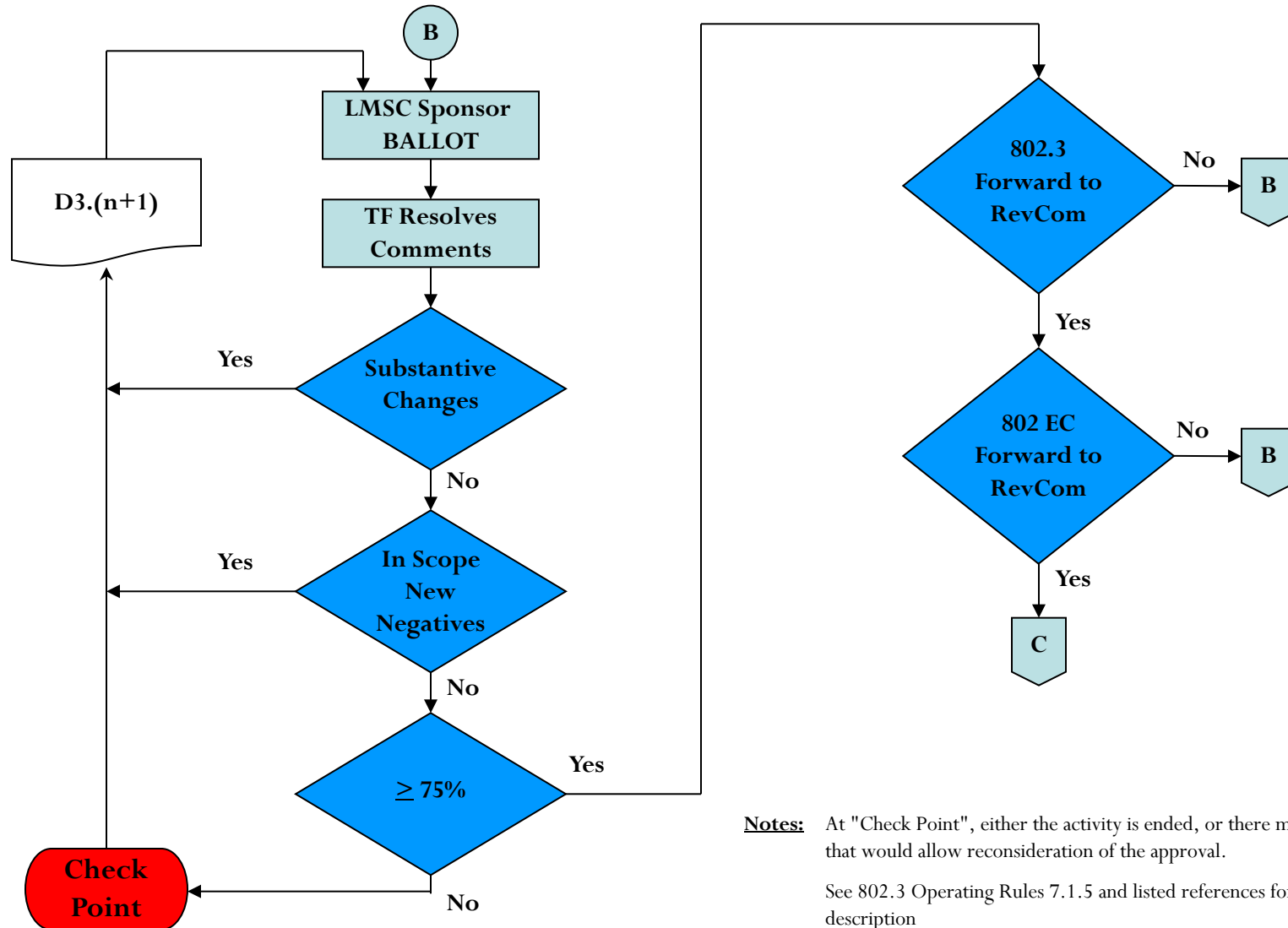
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



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

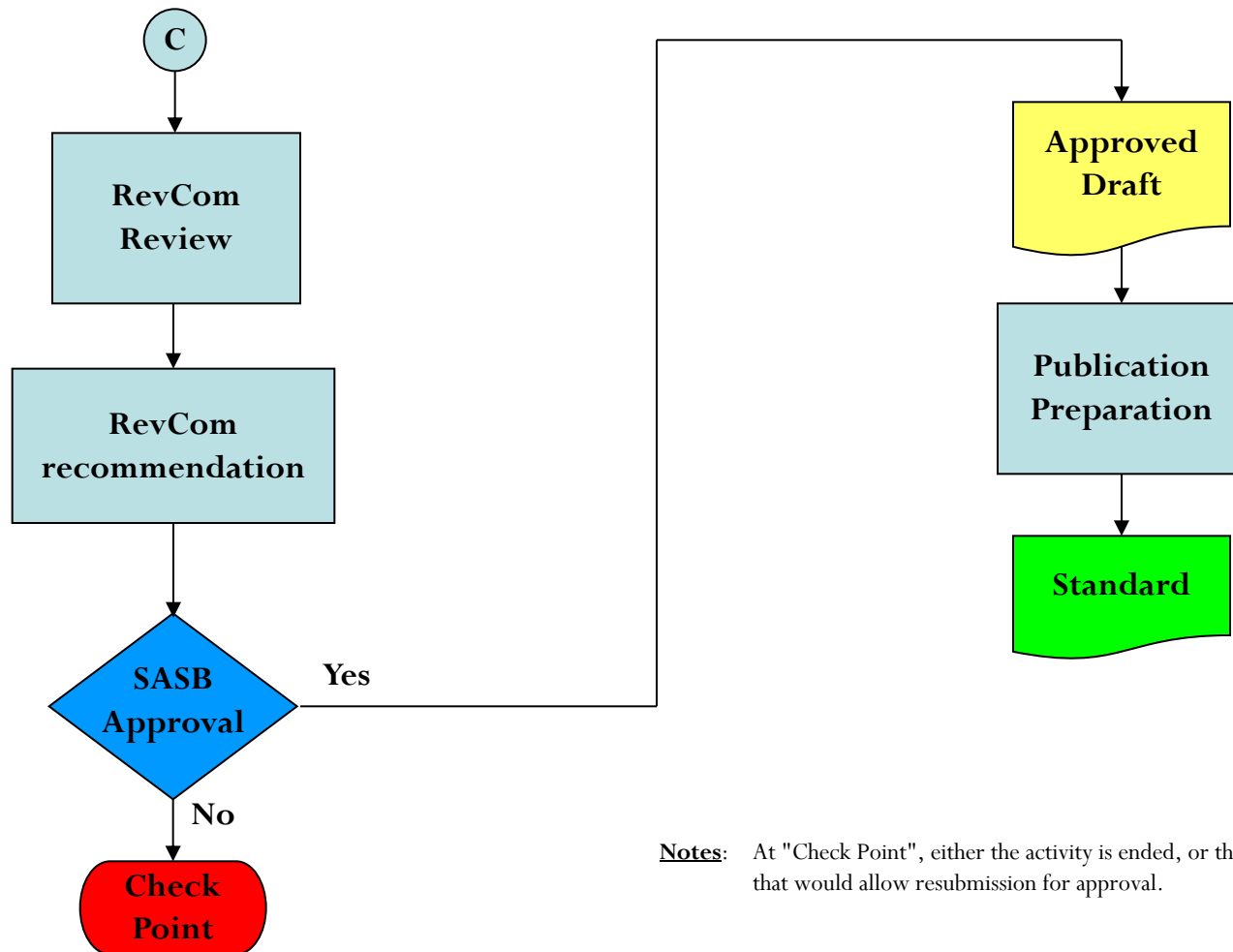
Overview of IEEE 802.3 Standards Process (4/5)- Sponsor Ballot Phase



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 July 12, 2018 Plenary Motion)

MOTION #24

- 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 Ethernet Physical Layer specifications for optical subscriber access supporting point-to-multipoint operations using wavelength division multiplexing over an increased-reach passive optical network (PON).
- M: C. DeSanti
- S: P. Nikolich
- > 50%

- Y: 50, N: 4, A: 26
- Passed 12-Jul 2018, 5:31 pm

Liaisons and Communications

- None

Action Items

- None

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

Presentations (1)

- The PAR form demystified
 - David Law, HPE
- Wavelength-Tunable DBR laser for Burst Mode TWDM PON applications
 - Dr. Yasuhiro Matsui, Finisar
- Optical Amplification for a Super-PON System
 - Dr. Weyl Wang, Accelink USA
- ILEC – Future Greenfield Developments
 - Taj Sandhu, Ponderosa Telephone

Note –Times listed are subject to change.

Presentations (2)

- Draft PAR
 - Dr. Claudio DeSanti, Google
- Draft CSD
 - Dr. Claudio DeSanti, Google
- Draft Objectives
 - Dr. Claudio DeSanti, Google

Note –Times listed are subject to change.

Meeting Map

- Elizabethan Room

Straw Poll #1

- I support the Super-PON draft PAR as per Super-PON_PAR_draft_v1.pdf

- Y: 17
- N: 0
- A: 0

Straw Poll #2

- I support the Super-PON draft CSD as per Super-PON_CSD_draft_v1.pdf

- Y: 12
- N: 3
- A: 1

Straw Poll #3

- I support the Super-PON draft objectives as per Super-PON_Objectives_draft_v1.pdf

- Y: 18
- N: 0
- A: 0

Motion #3

- Move that the SG approve the Super-PON PAR, as per Super-PON_PAR_draft_v1.pdf, and forward it to 802.3 for approval
- M: Mark Laubach
- S: Frank Effenberger
- $\geq 75\%$
- Y: 16 , N: 0 , A: 1
- Motion passes

Motion #4

- Move that the SG approve the Super-PON objectives, as per Super-PON_Objectives_draft_v1.pdf, and forward it to 802.3 for approval
- M: Duane Remein
- S: Mark Laubach
- $\geq 75\%$
- Y: 16 , N: 0 , A: 0
- Motion passes

Motion #5

- Move that the SG approve the Super-PON CSD, as per Super-PON_CSD_draft_v1.pdf, and forward it to 802.3 for approval
- M: Frank Effenberger
- S: Alex Umnov
- $\geq 75\%$
- Y: 12 , N: 1 , A: 4
- Motion passes

Future Meetings

- See: <http://www.ieee802.org/3/interims/index.html>
- *November 2018 Plenary*
 - Marriott Marquis Queen's Park, Bangkok, Thailand
 - November 12-15
 - Plan to participate: Y: 11 , N: 1 , Maybe: 2
- *January 2019 Interim*
 - Long Beach, CA, USA
 - Week of January 14
 - Plan to participate: Y: 11 , N: 1 , Maybe: 2
- *March 2019 Plenary*
 - Vancouver, BC, Canada
 - March 11-14
 - Plan to participate: Y: 12 , N: 0 , Maybe: 2
- Anyone interested in hosting a interim meeting contact me or the IEEE 802.3 Executive Secretary [Steve Carlson](#).

Motion #6

- Move to adjourn
- M: Duane Remein
- S: Vincent Ferretti
- >50%

- Passed by acclamation

Thank You!