Agenda and General Information

IEEE 802.3

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

Claudio DeSanti

Google

Bangkok – November 14, 2018

Agenda

- Welcome and Introductions
- Approve Agenda
- Approve September 12, October 24, and November 7 Minutes
- 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
- Review of Action Items from past Meetings
- Presentations
- Motions and Closing Business
- Future Meetings

Presentations

- ## Quasi-Coherent Detection for Super-PON
  - Jesper Bevensee Jensen, Bifrost Communications
- ## Super-PON Economic Feasibility
  - Liang Du, Claudio DeSanti, Google
- ## PAR, CSD, and Objectives comments resolution
  - Claudio DeSanti, Google

Note –Times listed are subject to change.

Motion #1

- Move to approve the agenda

- M: Marek Hajduczenia S: Alex Umnov
- > 50%
- Y: N: A:
- Motion carries by acclamation

Motion #2

- Move to approve the minutes of the past meetings
  - September 12, 2018, http://www.ieee802.org/3/SUPER_PON/public/201809/Draft_Minutes_Super-PON_SG_0918.pdf
  - October 24, 2018, http://www.ieee802.org/3/SUPER_PON/public/AdHoc/20181024_Draft_Minutes.pdf
  - November 7, 2018 http://www.ieee802.org/3/SUPER_PON/public/AdHoc/20181107_Draft_Minutes.pdf

- M: Marek Hajduczenia S: Vince Ferretti
- > 50%
- Y: N: A:
- Motion carries 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. (June 2018 IEEE-SA Standards Board Ops Manual 5.3.3.2)
- Press (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
- Resolve comments on PAR, CSD, and Objectives

- Lay the ground work for the next meeting

Big ticket items

- Be ready to ask for PAR, CSD, and Objectives approval at the closing plenary WG 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

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┌─────────────────────────────┐
│          IEEE-SA            │
│    Standards Association     │
└─────────────────────────────┘
         Standards │ Process
┌─────────────────────────────┐
│          IEEE-SA            │
│       Standards Board       │
└─────────────────────────────┘
```

RevCom	NesCom	IEEE 802
Review Committee	New Stds. Committee	Sponsor Group

IEEE 802.3
Working Group

IEEE 802.3
Study Group

Approval Process

Standards Process

Technical Activities
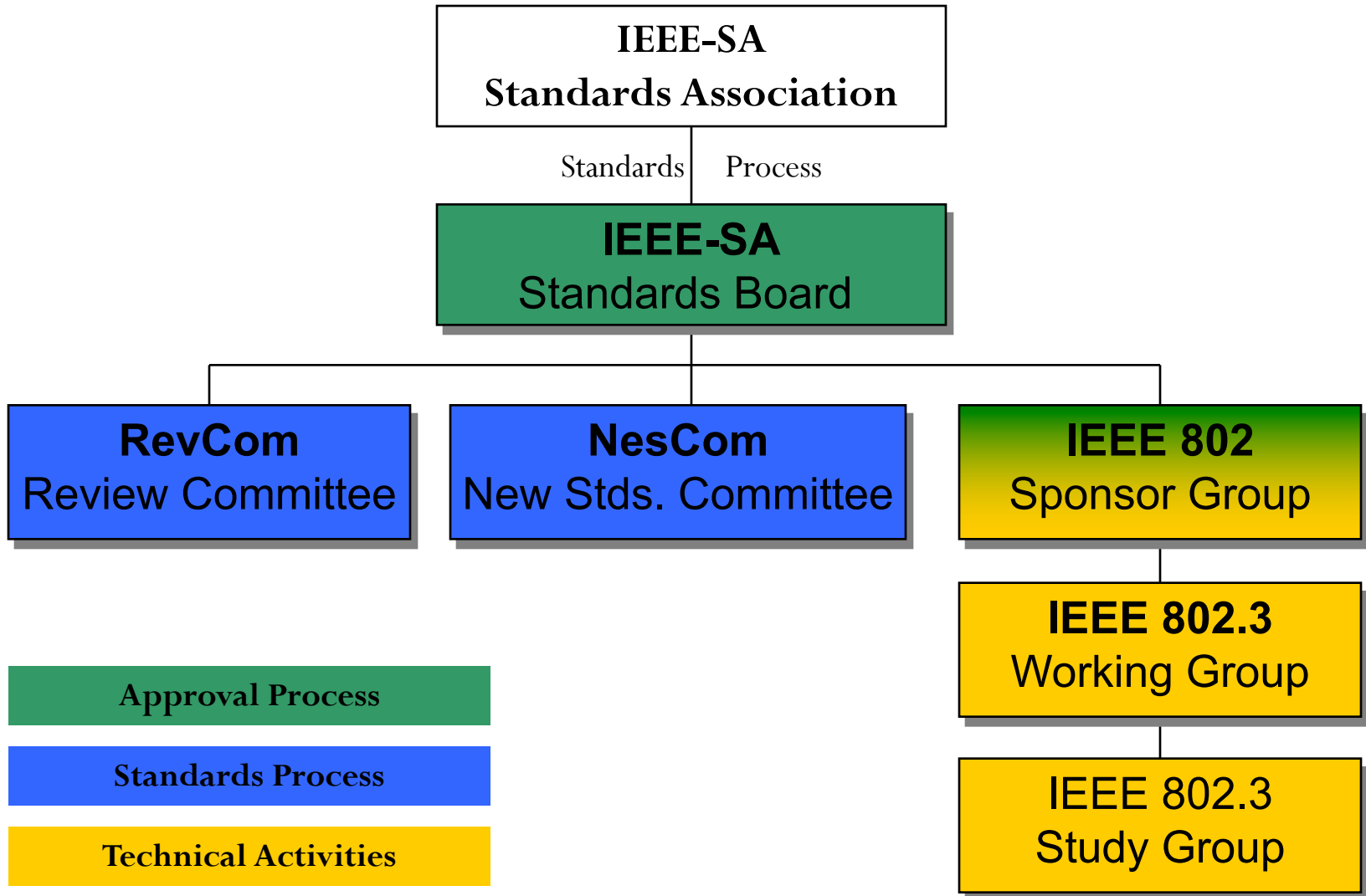
Important Bylaws and Rules

- **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

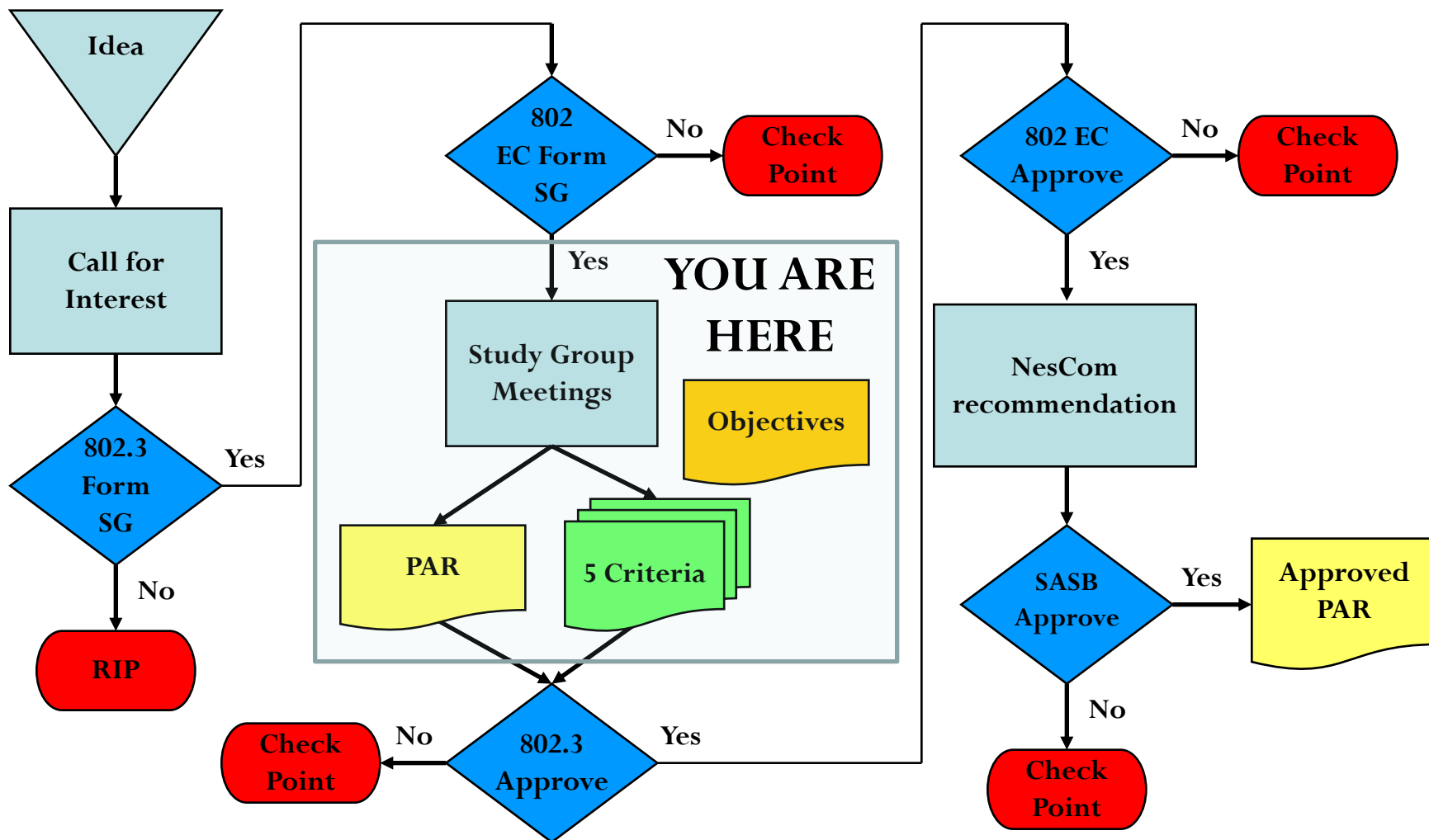# Participation in IEEE 802 Meetings

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)

IEEE 802 Executive Committee

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

Idea → **Call for Interest** → **802.3 Form SG**

- No → **RIP**
- Yes → **802 EC Form SG**
  - No → **Check Point**
  - Yes → **Study Group Meetings**

YOU ARE HERE

Objectives

PAR   **5 Criteria**

→ **802.3 Approve**
- No → **Check Point**
- Yes → **802 EC Approve**
  - No → **Check Point**
  - Yes → **NesCom recommendation** → **SASB Approve**
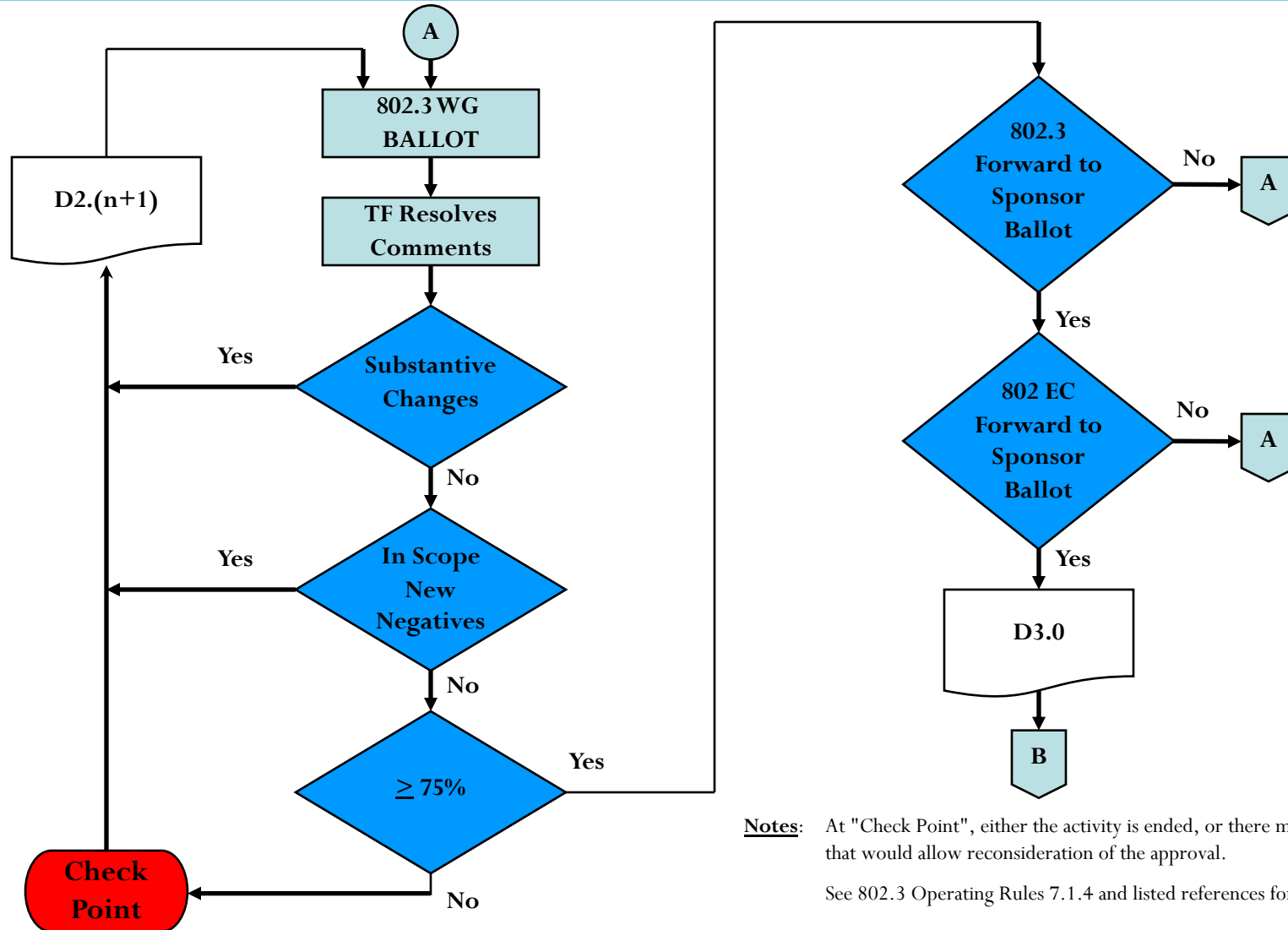   - Yes → **Approved PAR**
    - No → **Check Point**

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

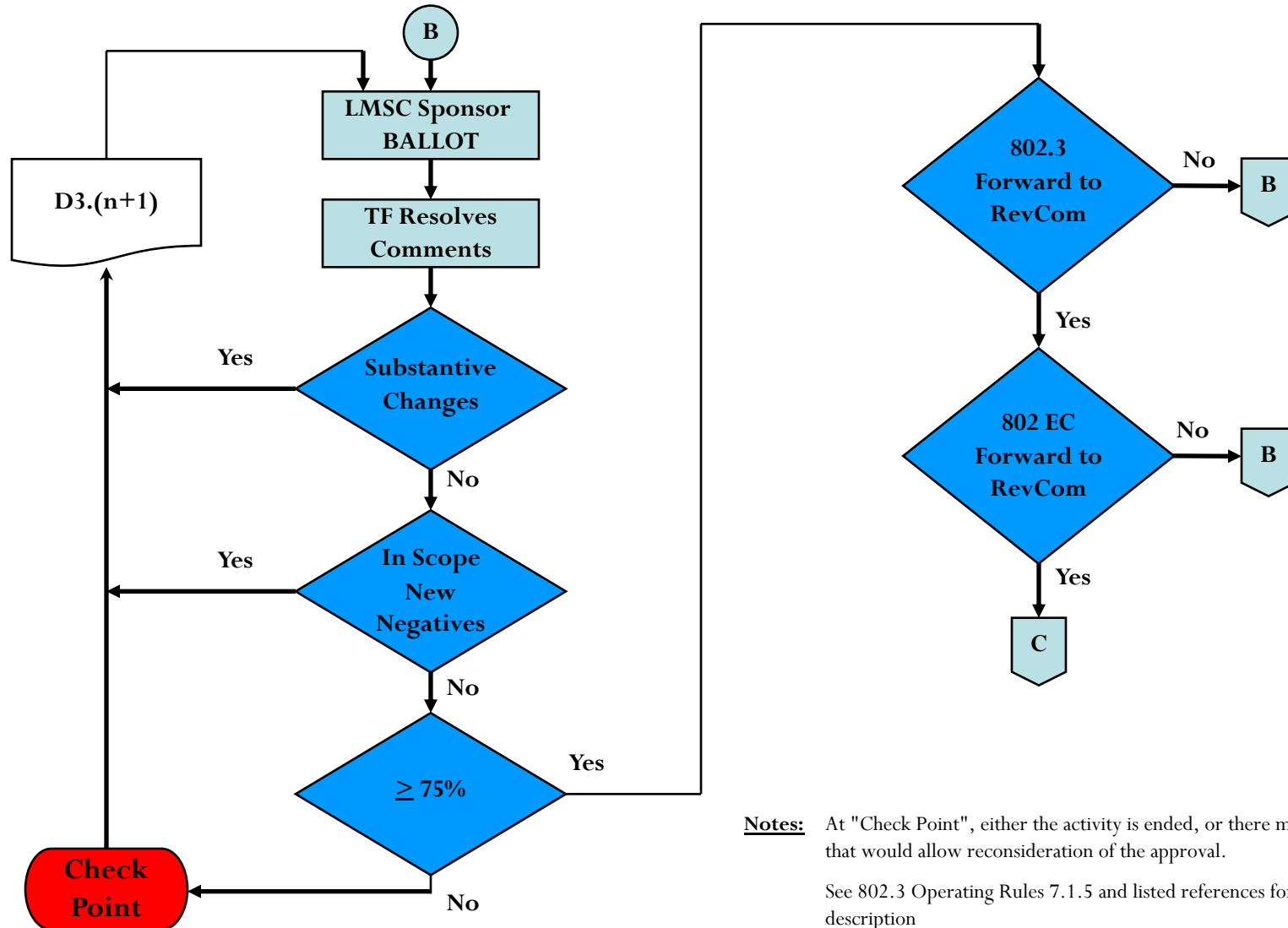# Overview of IEEE 802.3 Standards Process (2/5) – Task Force Comment Phase
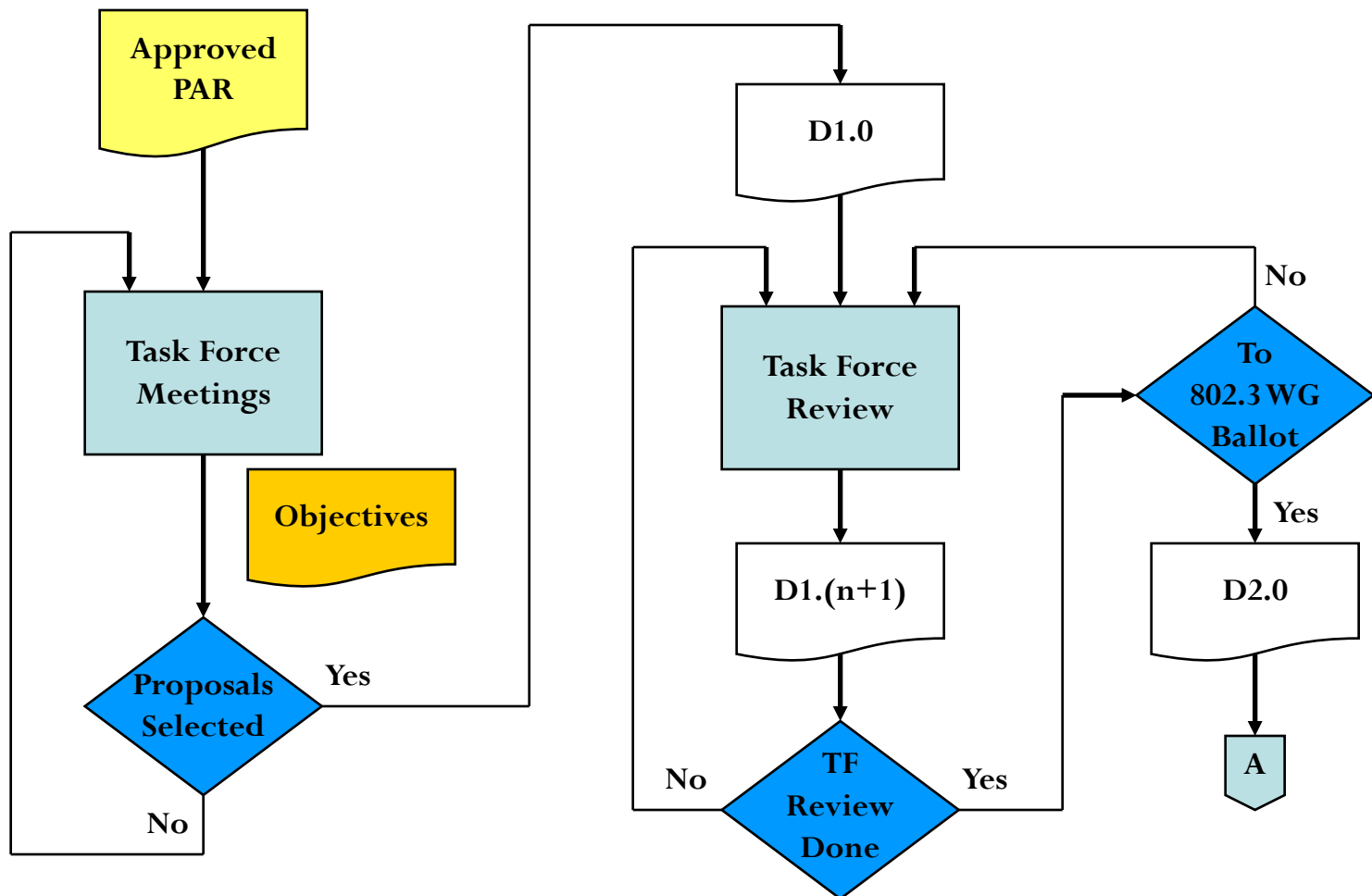
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase

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

B

LMSC Sponsor BALLOT

D3.(n+1)

TF Resolves Comments

Substantive Changes — **Yes**

No

In Scope New Negatives — **Yes**

No

≥ 75% — **Yes**

No

Check Point

802.3 Forward to RevCom — **No** → B

Yes

802 EC Forward to RevCom — **No** → B

Yes

C

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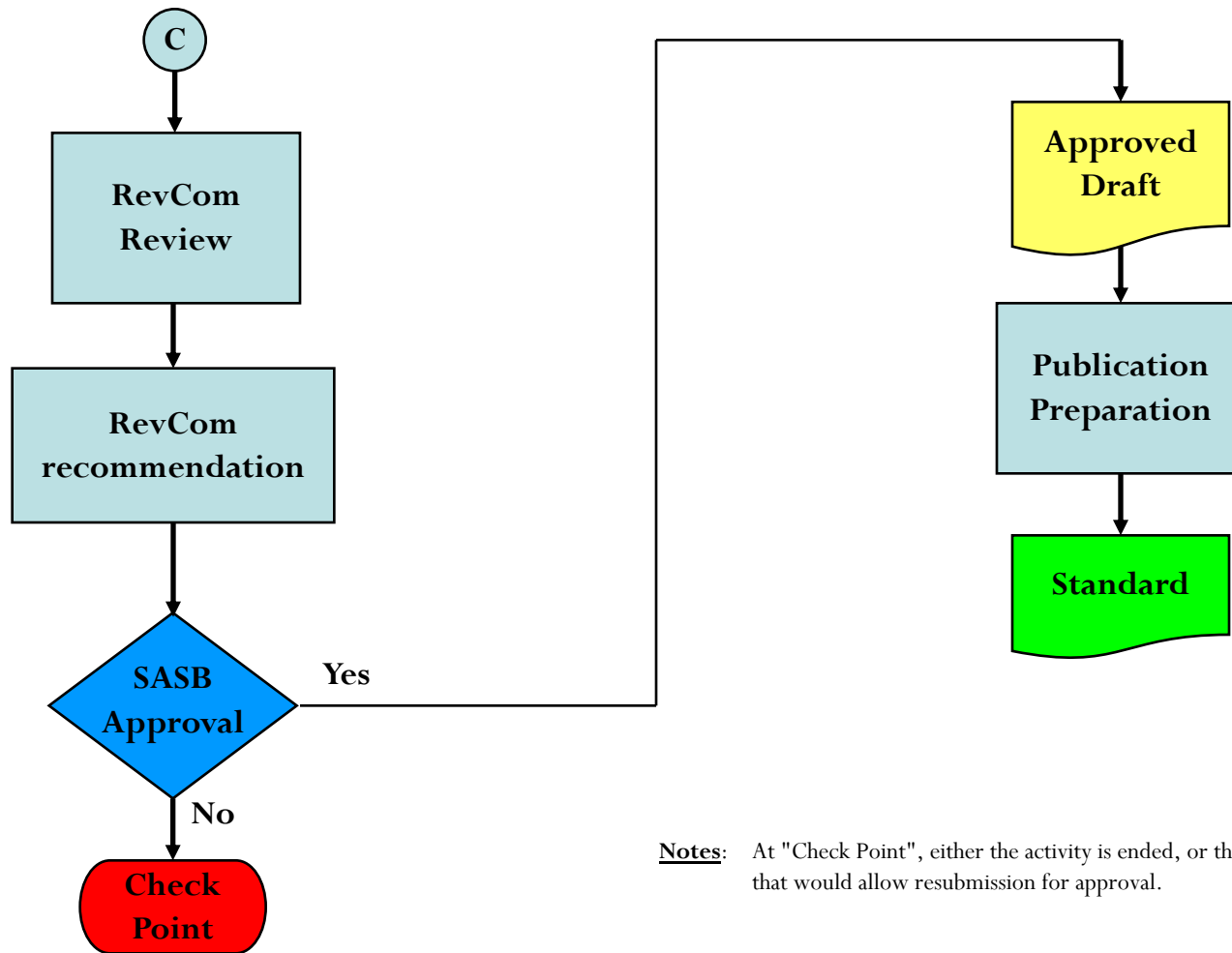
Notes: At "Check Point", either the activity is ended, or there may be various options that would allow resubmission for approval.

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

- Quasi-Coherent Detection for Super-PON
  - Jesper Bevensee Jensen, Bifrost Communications
- Super-PON Economic Feasibility
  - Liang Du, Claudio DeSanti, Google
- PAR, CSD, and Objectives comments resolution
  - Claudio DeSanti, Google

Note –Times listed are subject to change.

Motion #3

- Move that the SG approve the responses to the received comments to PAR and CSD, as per http://www.ieee802.org/3/SUPER_PON/public/201811/Super-PON_Response_to_Comments.pdf

- M: Paul Nikolich S: Frank Effenberger

- ≥ 75%

- Y: 25 N: 0 A: 0

- Motion passes

Motion #4

- Move that the SG approve the updated PAR, as in https://mentor.ieee.org/802-ec/dcn/18/ec-18-0177-02-00EC-ieee-p802-3cs-draft-par.pdf, and forward to IEEE 802.3 for approval

- M: Mark Laubach S: Duane Remein

- ≥ 75%

- Y: 25 N: 0 A: 0

- Motion passes

Motion #5

- Move that the SG approve the updated CSD, as in https://mentor.ieee.org/802-ec/dcn/18/ec-18-0178-01-00EC-ieee-p802-3cs-draft-csd.pdf, and forward to IEEE 802.3 for approval

- M: Vince Ferretti S: Alex Umnov
- ≥ 75%
- Y: 25 N: 0 A: 0
- Motion passes

Motion #6

- Request the first rechartering of the IEEE 802.3 Physical Layers for increased-reach Ethernet optical subscriber access (Super-PON) Study Group

- M: Duane Remein S: Kevin Noll

- ≥ 75%

- Y: 25 N: 0 A: 0

- Motion passes

Next Meeting

- January interim meeting
- Do we want a call in December?
  - e.g., December 19

Future Meetings

- See: http://www.ieee802.org/3/interims/index.html

- January 2019 *Interim*
    - Long Beach, CA, USA
    - Week of January 14
    - Plan to attend: Y: 16 N: 2 M: 5

- *March 2019 Plenary*
    - Vancouver, BC, Canada
    - March 11-14
    - Plan to attend: Y: 18 N: 0 M: 7

- Anyone interested in hosting a interim meeting contact me or the IEEE 802.3 Executive Secretary Steve Carlson.

Motion #7

- Move to adjourn

- M: Mark Laubach S: Duane Remein
- > 50%
- Y: N: A:
- Motion carries by acclamation

Thank You!