IEEE 802.3 Beyond 10km Optical PHYs SG - Agenda and General Information

John D'Ambrosia,

Chair, IEEE 802.3 Beyond 10km Optical PHYs Study Group

Futurewei, Subsidiary of Huawei

IEEE 802.3 Mar 2018 Plenary

Pittsburgh, PA, USA

Agenda

- Welcome / Introductions
- Approval of Agenda
- IEEE 802 Participation
- Study Group Information
- Attendance
- Approval of Study Group Adhoc / Mar Plenary Minutes
- Pre-PAR Patent Policy
- Ground Rules
- The Role of the Chair
- IEEE
  - Structure
  - Bylaws and Rules
  - IEEE 802.3 Standards Process
  - Study Group Chartering Motion
- Goals for the Week
- Liaisons & Communications
- Ad Hocs Reports
- Presentations
- Discussion, Straw Polls, Motions
- Closing Business
- Future Meetings

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

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

IEEE 802.3 Beyond 10km Optical PHYs SG Information

- John D'Ambrosia, Chair

- Home Page - http://www.ieee802.org/3/B10K/index.html

- Reflector Information – http://www.ieee802.org/3/B10K/reflector.html

Attendance

- Tutorial Material on attendance tool
  - http://ieee802.org/3/minutes/attendance_procedures.pdf

- Attendance books
  - Keeps track of attendance in room
  - Used to support requests to verify attendance by chair if IMAT not used.

Study Group Meeting Minutes for approval

- Mar Plenary
  - http://www.ieee802.org/3/B10K/public/18_03/minutes_b10k_01a_0318_unapproved.pdf

- May 15 Study Group Ad Hoc Meeting
  - http://www.ieee802.org/3/B10K/public/adhoc/18_0515/minutes_b10k_180515_unapproved.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

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

The Role of the Chair

- Per the IEEE 802.3 Ethernet WG Operations Manual
  (http://www.ieee802.org/3/rules/P802_3_rules.pdf)

  - The operation of the TF has to be balanced between democratic procedures that reflect the desires of the TF members and the TF Chair's responsibility to produce a draft standard, recommended practice, or guideline in a reasonable amount of time for review and approval by the WG. Robert's Rules of Order shall be used in combination with these operating rules to achieve this balance.

  - The full responsibilities of the chair are specified in 3.4.3 Task Force Chair's Responsibilities.

- Reminder - individual standards activities within the WG are, at the discretion of the WG, carried out by Task Forces (TF) operating under, and reporting to, the WG.

IEEE Structure
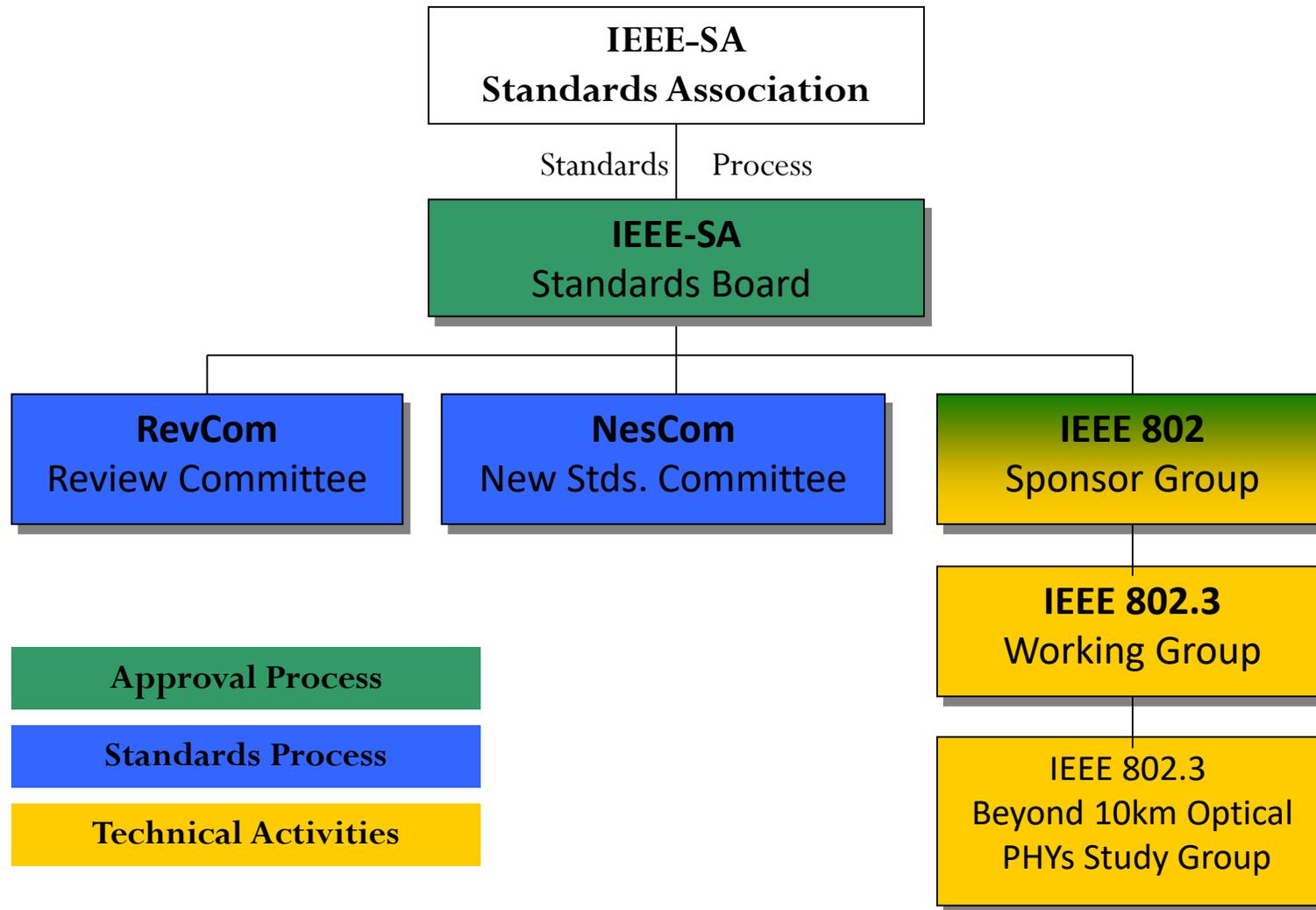
Important Bylaws, Rules, & References

- **IEEE-SA Operations Manual**
  http://standards.ieee.org/sa/sa-om.pdf

- **IEEE-SA Standards Board Bylaws**
  http://standards.ieee.org/guides/bylaws/sb-bylaws.pdf

- **IEEE-SA Standards Board Operations Manual**
  http://standards.ieee.org/guides/opman/sb-om.pdf

- **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://ieee802.org/PNP/approved/IEEE_802_OM_v19.pdf

- **IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG) Policies and Procedures**
  http://standards.ieee.org/about/sasb/audcom/pnp/LMSC.pdf

- **IEEE 802.3 Working Group Operating Rules**
  http://ieee802.org/3/rules/P802_3_rules.pdf

- **"Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy"**
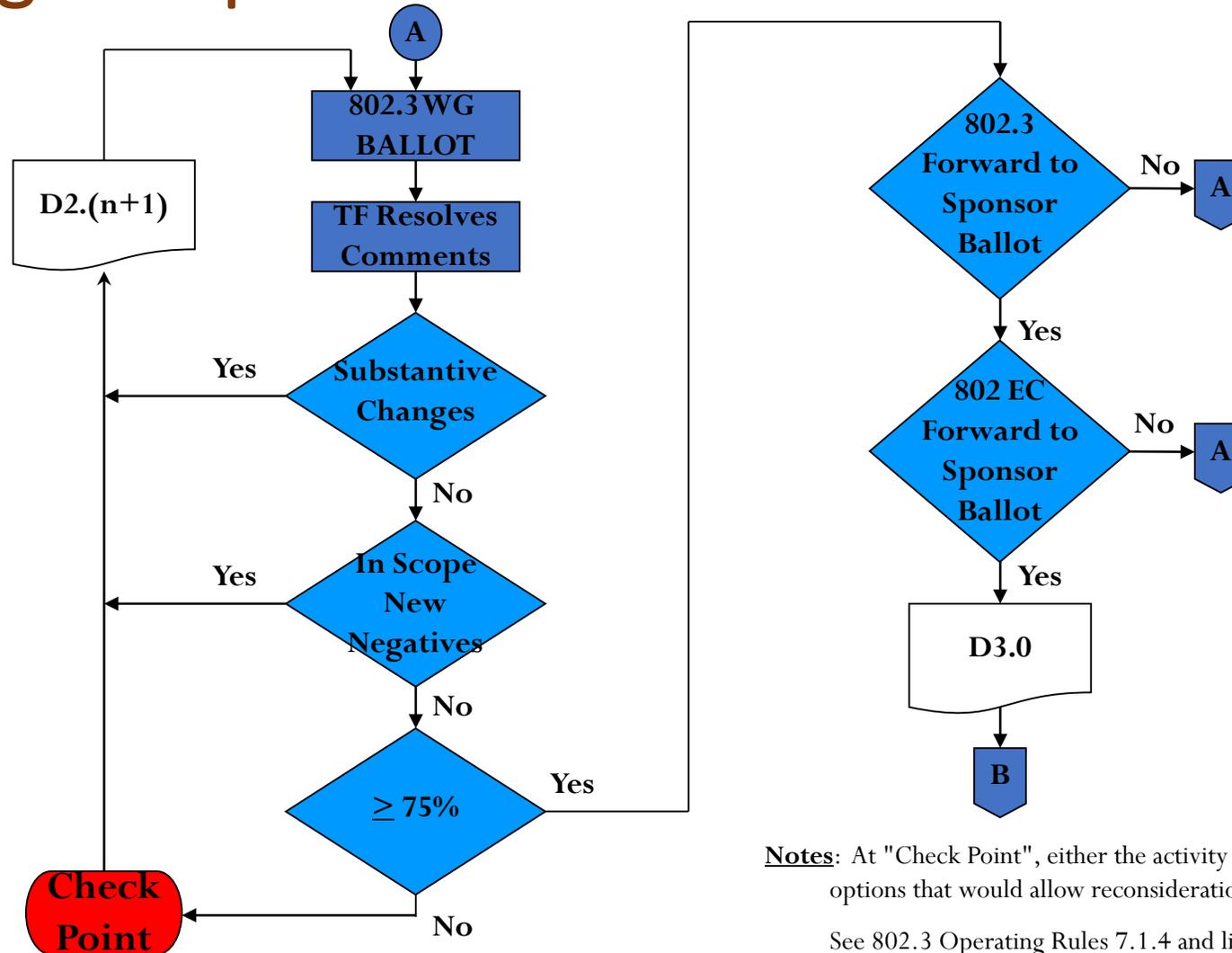 **http://standards.ieee.org/develop/policies/antitrust.pdf**
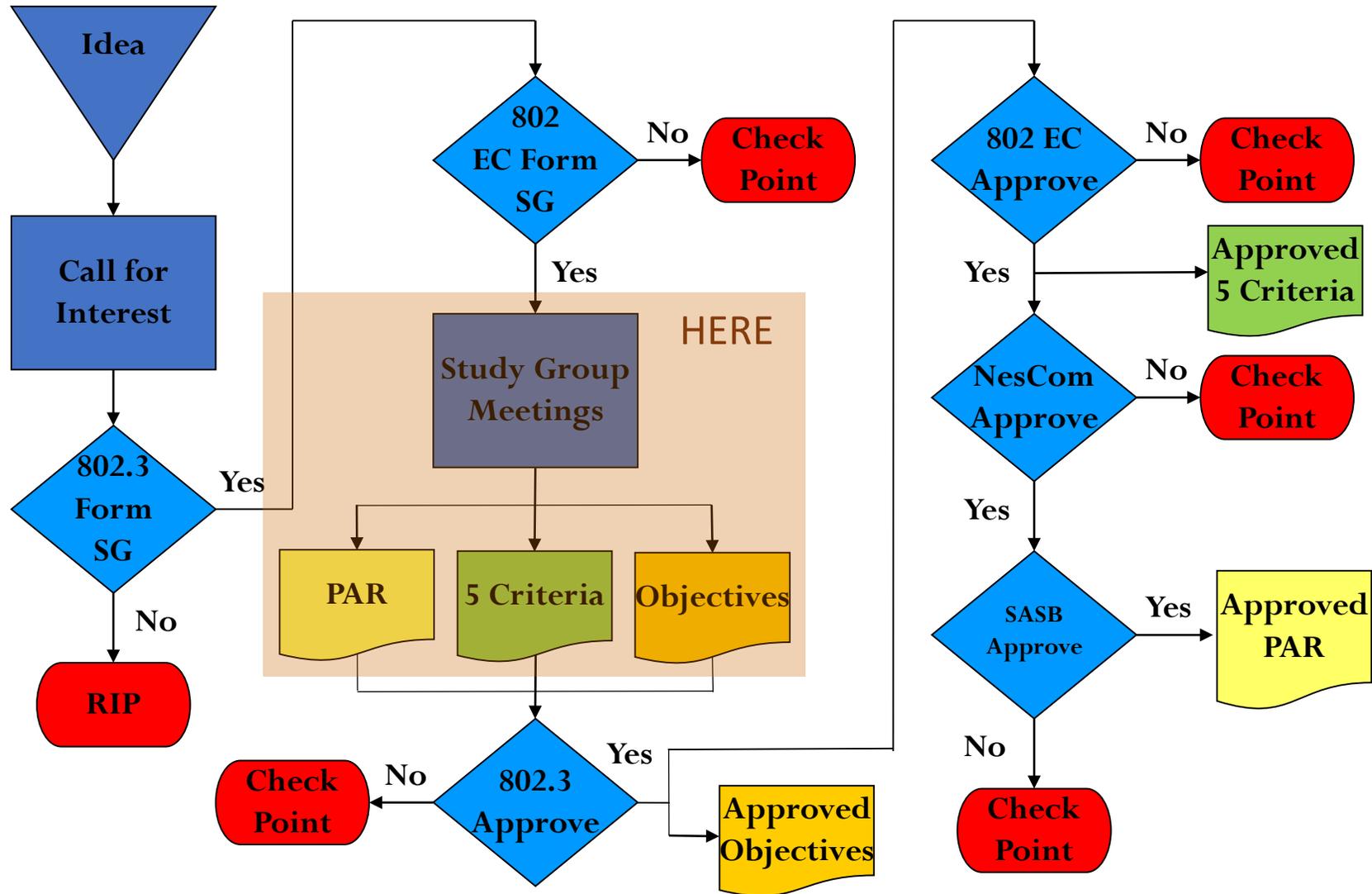
Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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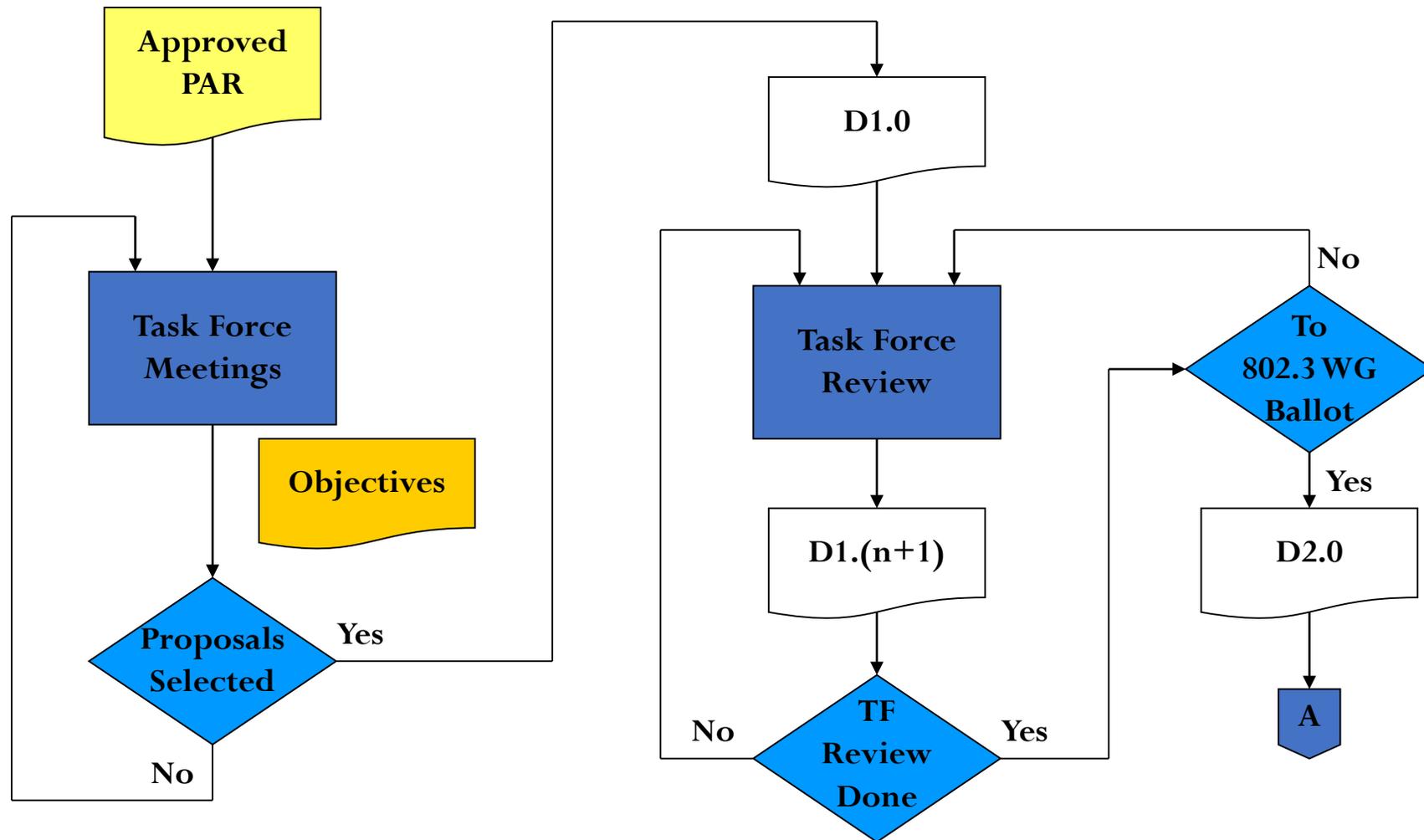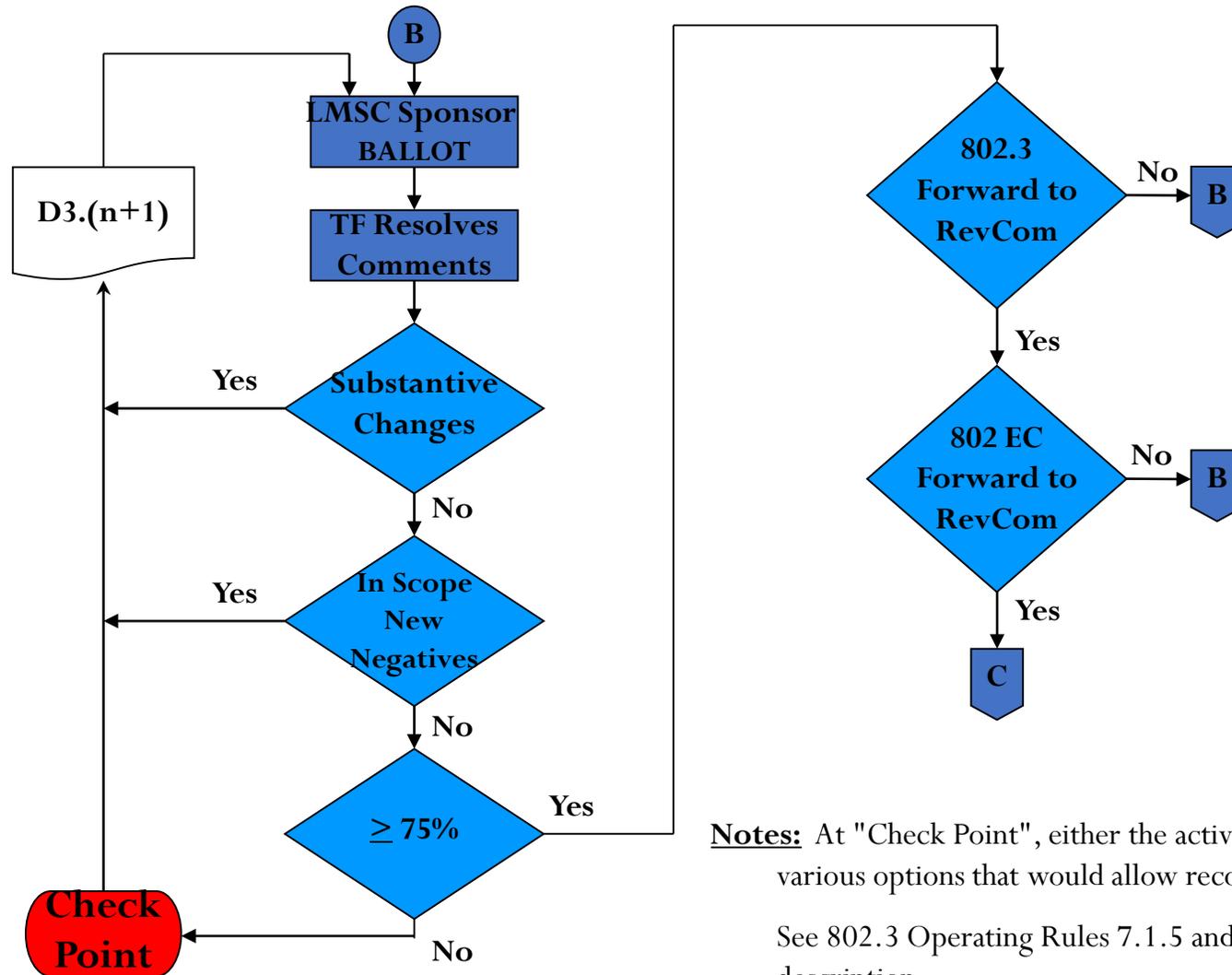
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase

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

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

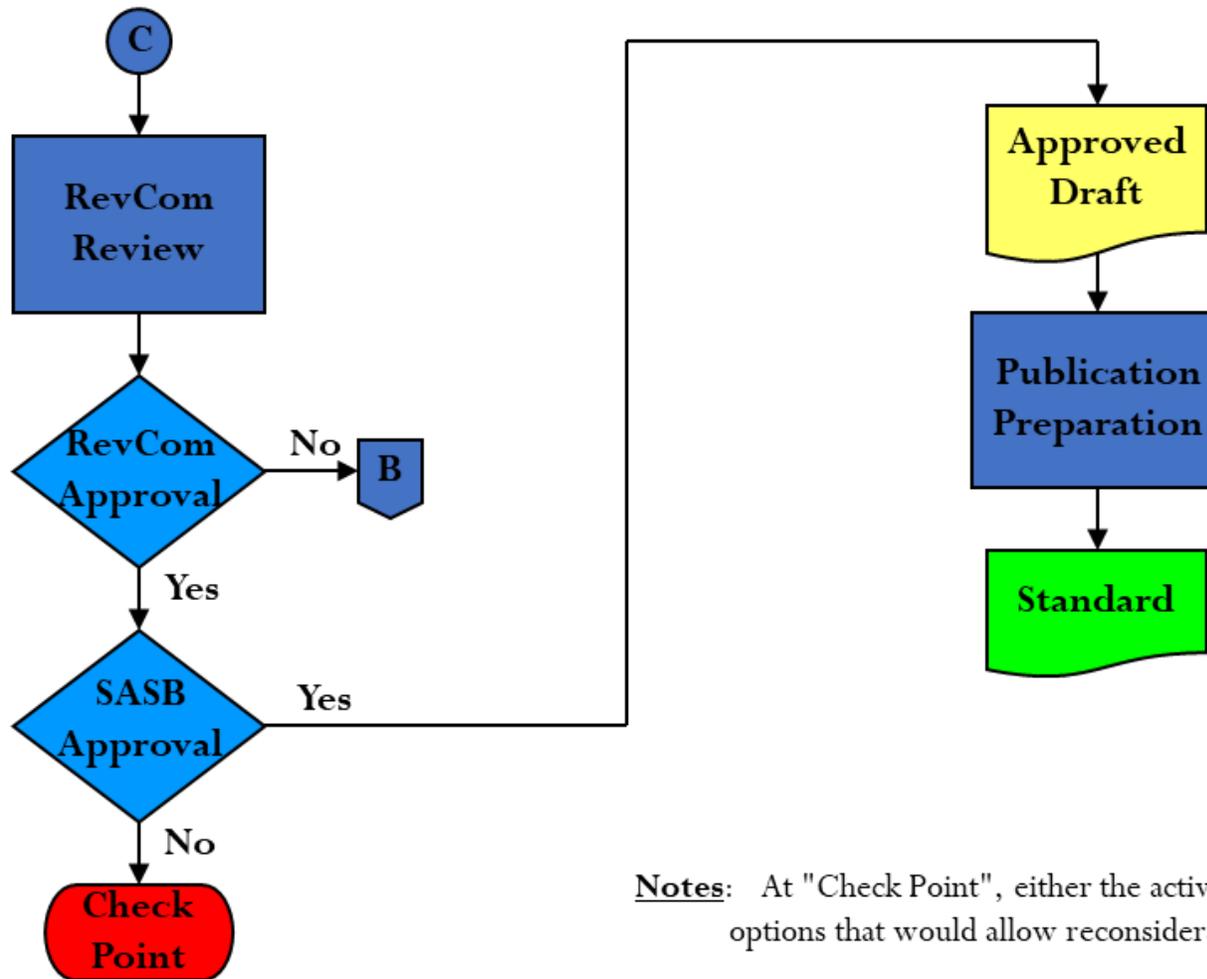See 802.3 Operating Rules 7.1.5 and listed references for complete description

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

SG Chartering Motion

Move that the IEEE 802.3 Ethernet Working Group authorizes the formation of a study group to develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for "Beyond 10km Optical PHYs for 50 Gb/s, 100 Gb/s, 200 Gb/s, and 400 Gb/s Ethernet"

Goals for the Week

➢ 7 presentations
➢ Finalize PAR / Objectives / CSD
  ➢ 1 versus 2 Projects
➢ Consider request to submit PAR(s) for consideration at July 2018 Plenary
➢ Consider liaisons
  ➢ ITU-T SG15 coherent 100 Gbit/s DWDM interfaces

Liaisons and Communications

- ITU-T SG15 Liaison - Coherent 100 Gbit/s DWDM interfaces
  - http://www.ieee802.org/3/minutes/mar18/incoming/ITU_SG15-LS-99_to_IEEE_802d3.pdf

Ad Hoc Report

- Apr 3 – 200 GbE CSD Response Ad hoc
  - http://www.ieee802.org/3/B10K/public/adhoc/18_0403/index.shtml
- Apr 10 – 100 GbE CSD Response Ad hoc
  - http://www.ieee802.org/3/B10K/public/adhoc/18_0410/index.shtml
- Apr 17 – Joint 100 GbE / 200 GbE CSD Response Ad hoc
  - http://www.ieee802.org/3/B10K/public/adhoc/18_0410/index.shtml
  - Consolidated responses from two ad hocs
- May 8 – Study Group Ad hoc
  - http://www.ieee802.org/3/B10K/public/adhoc/18_0508/index.shtml
  - Technical presentations
    - Technical Analysis to Support 400GbE 40km Objective
    - Microsoft 100G/400G Coherent Use Case
    - Towards an objective for 400 Gb/s for DCI Applications
- May 15 – Study Group Ad hoc
  - http://www.ieee802.org/3/B10K/public/adhoc/18_0515/index.shtml
  - Technical Presentation: The need for 100G Ethernet DWDM PHY in mobile backhaul
  - Project Documentation Update

Schedule

Time	Presenter	Affiliation	Title	File Name
8:30 AM	John D'Ambrosia	Futurewei, Subsidiary of Huawei	Agenda and General Information	agenda_b10k_01_0518
9:00 AM	Xinyuan Wang	Huawei	Technical Analysis to Support 400GbE 40km Objective	wang_b10k_01_0518
9:30 AM	Matt Schmitt	Cable Labs	Cable Operator Inputs for 100G+ Beyond 10k	schmitt_b10k_01_0518
10:00 AM	Break			
10:30 AM	Rich Baca	Microsoft	Microsoft 100G/400G Coherent Use Case	baca_b10k_01_0518
11:00 AM	Gary Nicholl	Cisco	Towards an objective for 400 Gb/s for DCI applications	nicholl_b10k_01_0518
11:30 AM	John D'Ambrosia	Futurewei, Subsidiary of Huawei	PAR Project Dates and Possible Timelines	dambrosia_b10k_01_0518
11:45 AM	John D'Ambrosia	Futurewei, Subsidiary of Huawei	Summary:Proposed Project Documentation Packages	dambrosia_b10k_02_0518
12:00 PM	Lunch			
1:15 PM	Discussion, Strawpolls, Motions			
3:00 PM	Break			
3:20 PM	Discussion, Strawpolls, Motions			
5:30 PM	Closing Business			
6:00 PM	Adjourn			

Future Meetings

- See: http://www.ieee802.org/3/interims/index.html for meeting details and additional meetings.

- July 2018
  - Week of July 9, 2018
  - Manchester Grand Hyatt
  - San Diego, CA, USA
- Sept 2018
  - Week of Sept 10, 2018
  - Davenport Historic Hotel
  - Spokane, WA, USA
- Nov 2018
  - Week of Nov 12
  - Marriott Marquis Queen's Park
  - Bangkok, Thailand
- Jan 2019
  - Week of Jan 14
  - Location and Venue TBD

Thank You!

IEEE 802.3 Beyond 10km Optical PHYs Study Group
IEEE 802.3 Interim May 2018, Pittsburgh, PA, USA