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 Nov 2017 Plenary

Orlando, FL, USA

Agenda

- Welcome / Introductions
- Approval of Agenda
- IEEE 802 Participation
- Study Group Information
- Attendance
- Approval of Study Group Sept 2017 Interim 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
    - ITU-T – Coherent 100 Gb/s DWDM Interfaces
    - COBO – Informative communication
    - OIF – 400ZR
- Presentations
- Discussion, Straw Polls, Motions
- Closing Business
- Future Meetings

Task Force Decorum

- Photography or recording by permission only (2016 SASB Op Manual 5.3.3.2)
- Cell phone ringers off
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (5.3.3.3)
- 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 Sept 2017 Interim Meeting Minutes

- http://www.ieee802.org/3/B10K/public/17_09/minutes_b10k_01_0917_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
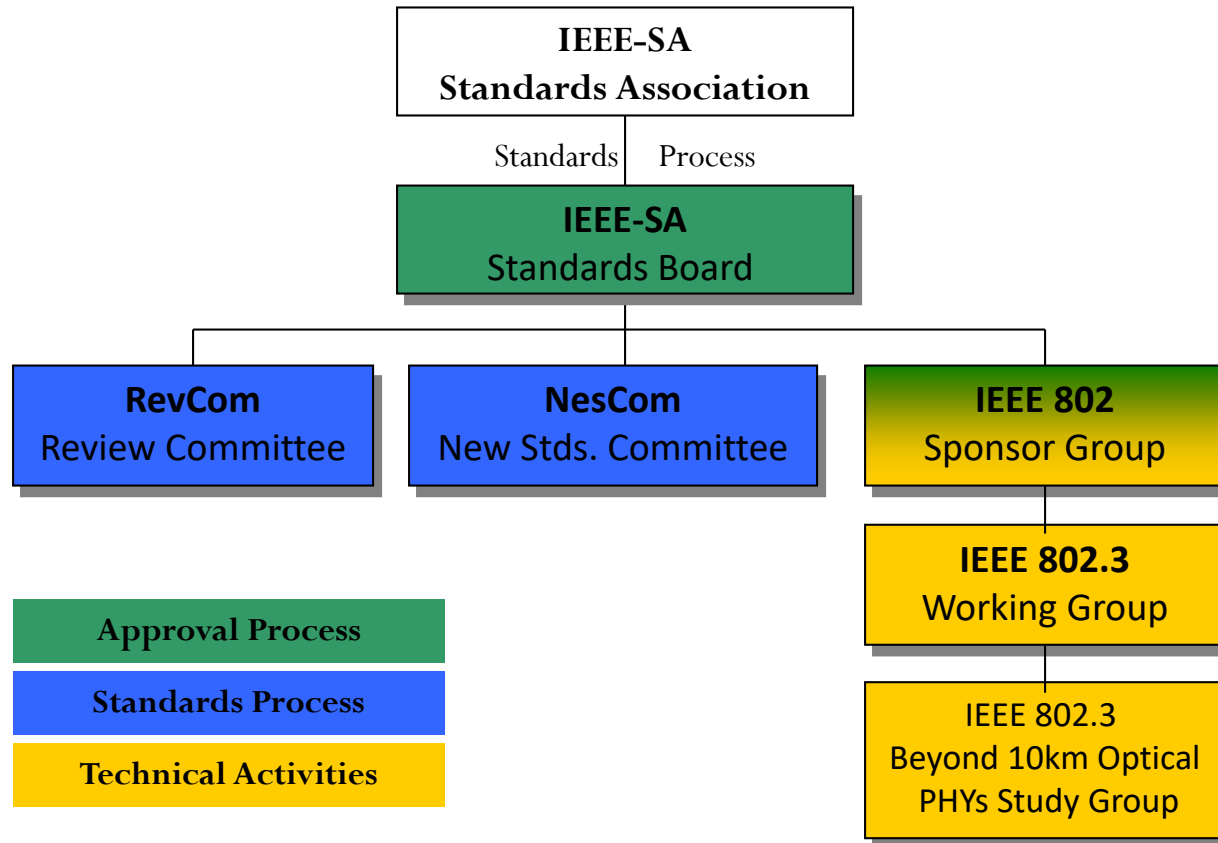at https://development.standards.ieee.org/myproject/Public/mytools/mob/preparslides.ppt

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.
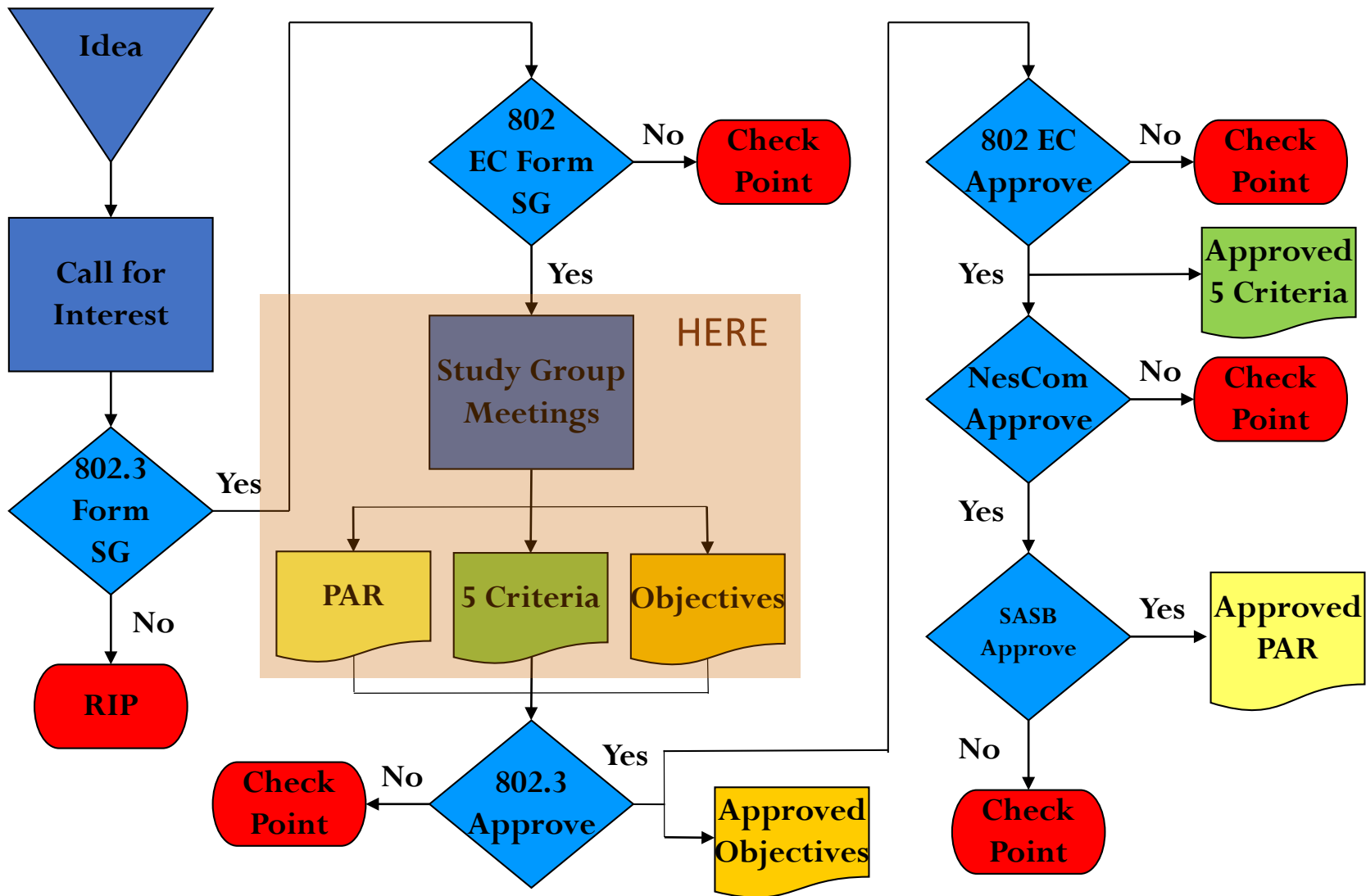
IEEE Structure

IEEE–SA
Standards Association
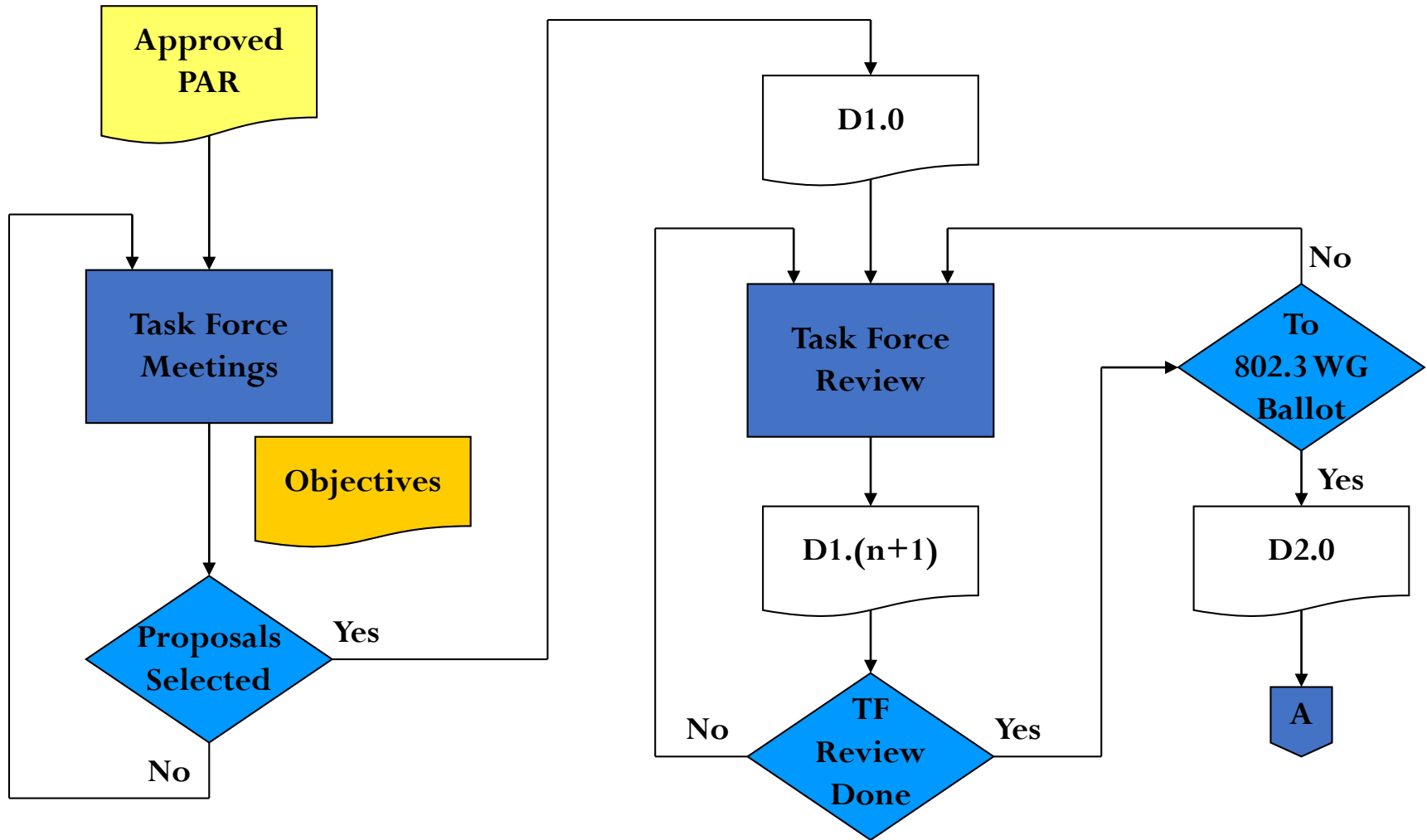
Standards | Process

IEEE-SA
Standards Board

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

IEEE 802.3
Working Group

IEEE 802.3
Beyond 10km Optical
PHYs Study Group

Approval Process

Standards Process

Technical Activities

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"**
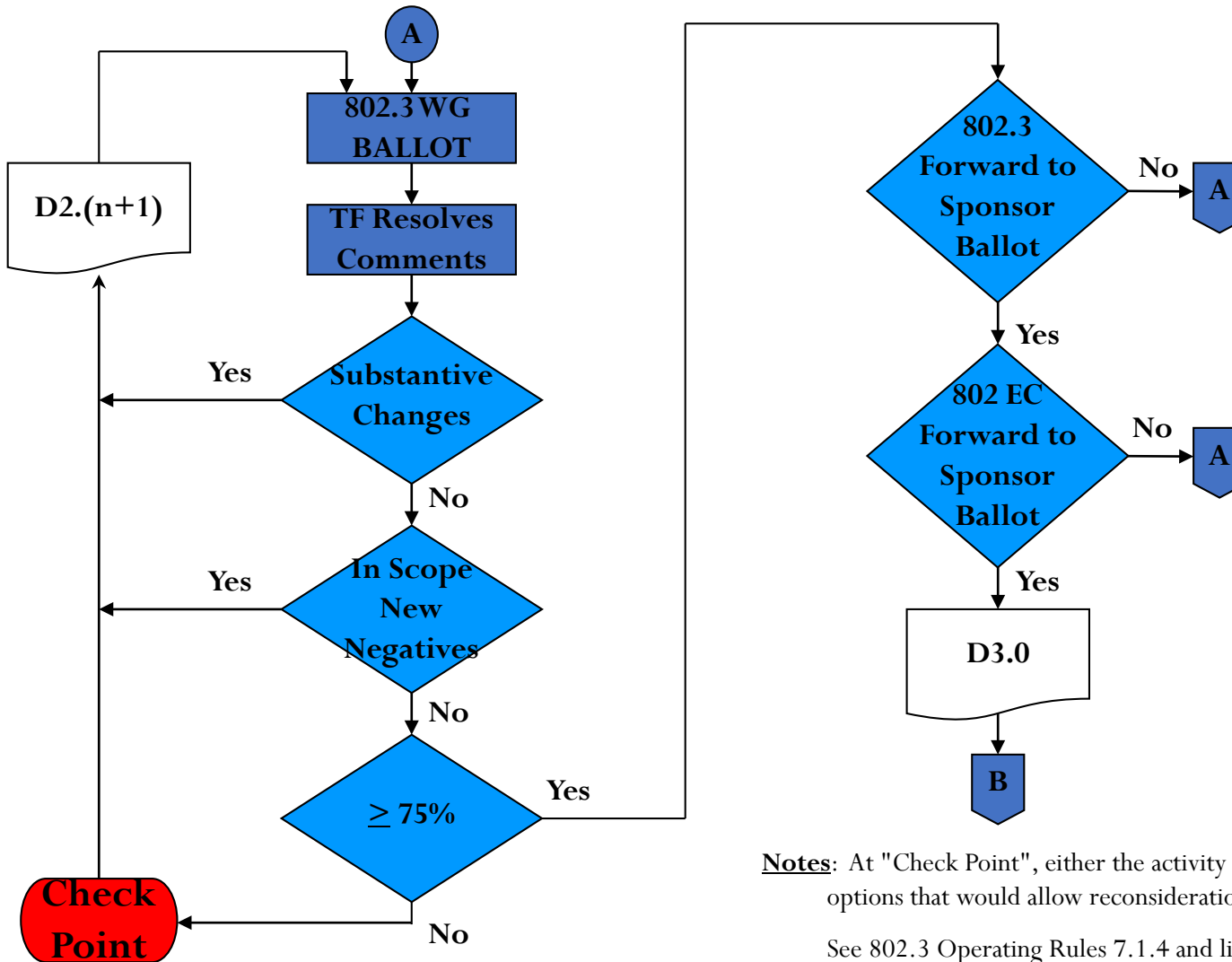 http://standards.ieee.org/develop/policies/antitrust.pdf

Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.
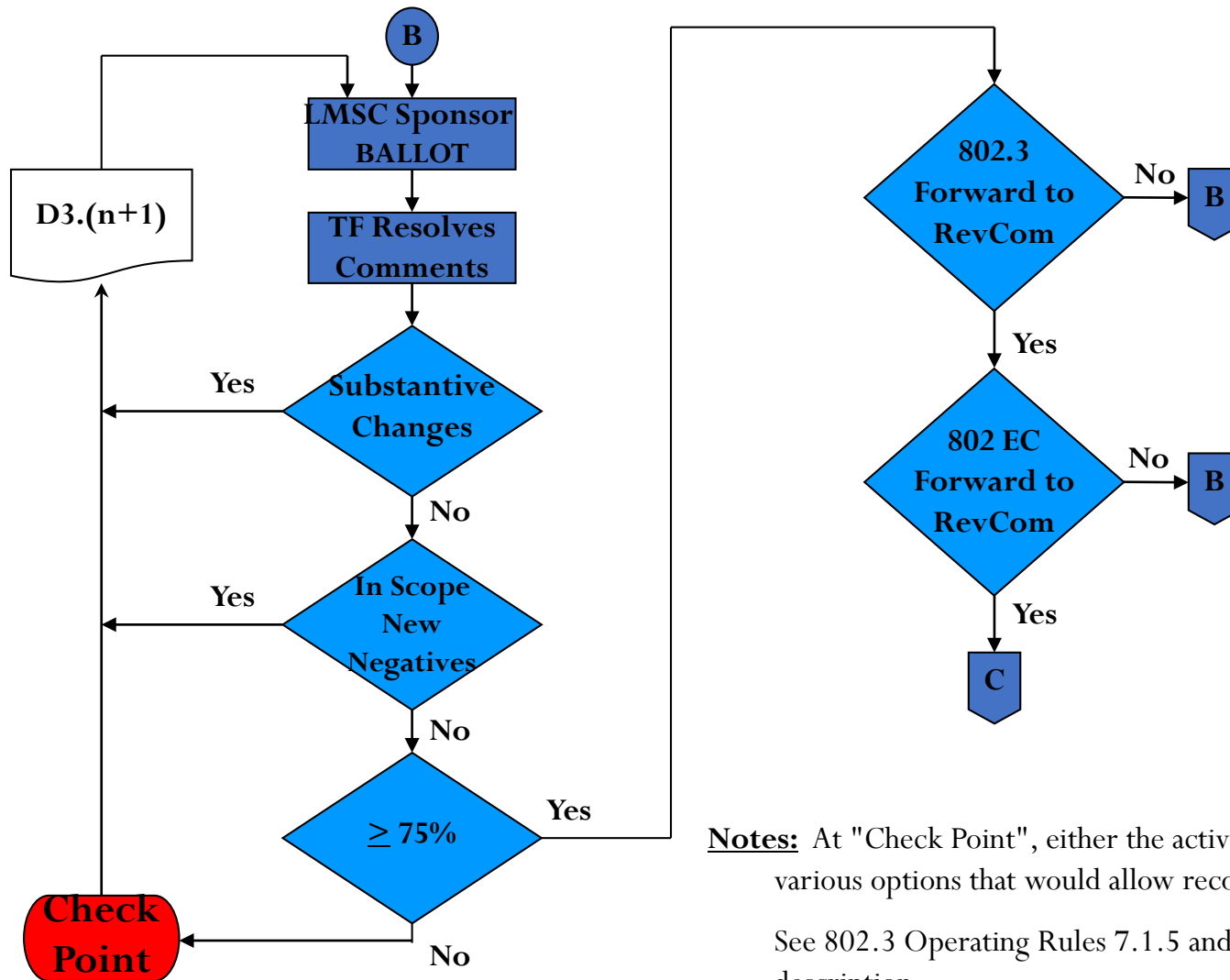
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase

Notes: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.
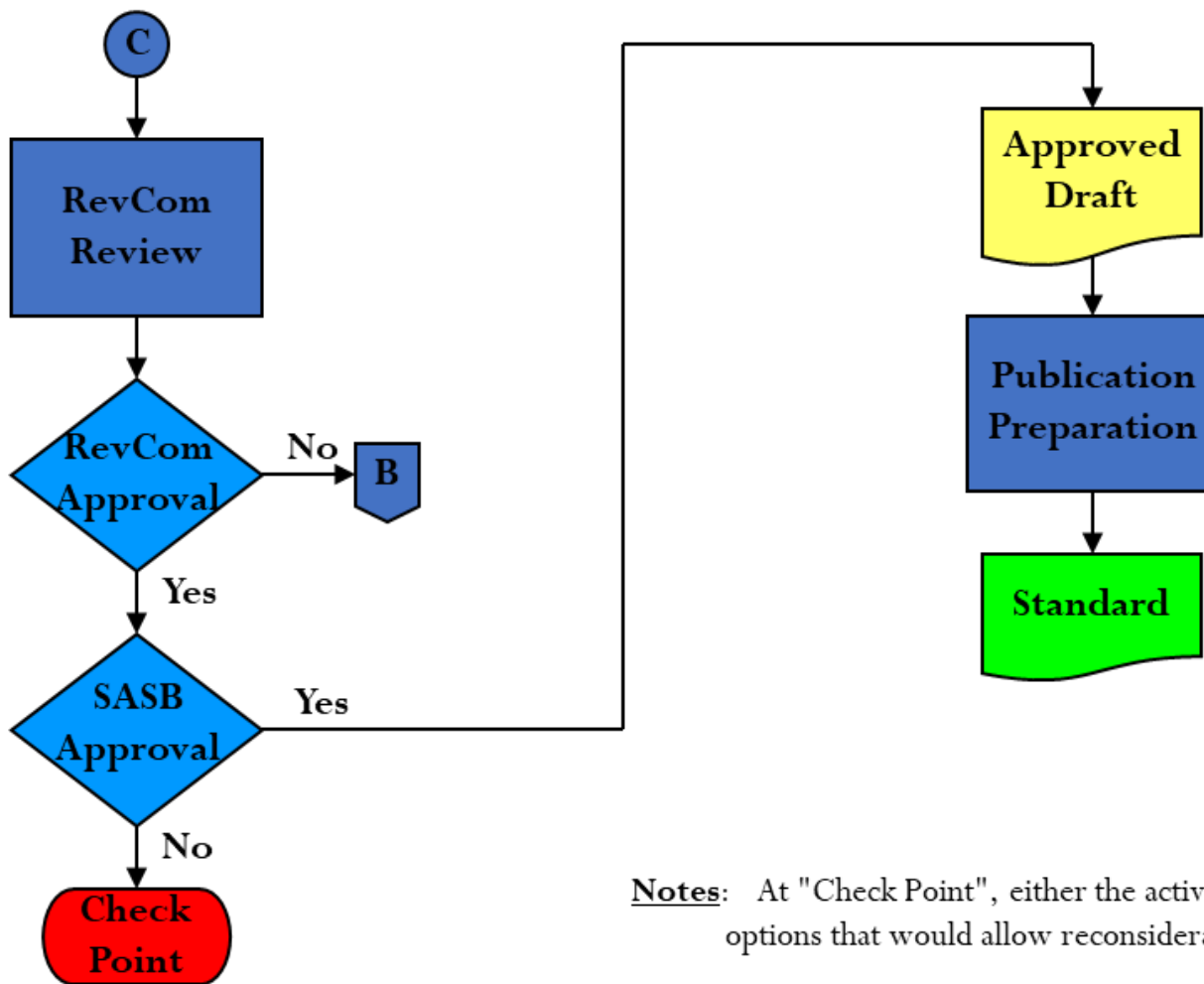
See 802.3 Operating Rules 7.1.4 and listed references for complete description

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

B

LMSC Sponsor BALLOT

TF Resolves Comments

D3.(n+1)

Substantive Changes — Yes → D3.(n+1)
No

In Scope New Negatives — Yes → D3.(n+1)
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 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, 200 Gb/s, and 400 Gb/s Ethernet"

Goals for the Week

➢ Consensus building on PAR / Objectives / CSD

➢ 6 technical presentations

➢ Consider liaisons

  ➢ From ITU-T: ITU-T SG15 to IEEE 802.3 regarding coherent 100 Gb/s DWDM interfaces

  ➢ From COBO: http://www.ieee802.org/3/minutes/nov17/incoming/COBO_to_IEEE_802d3_Oct_2017.pdf

➢ Consider inclusion of 100G Beyond 10km

Liaisons and Communications

- **ITU-T – Coherent 100 Gb/s DWDM Interfaces**
  - **http://www.ieee802.org/3/minutes/nov17/incoming/ITU_SG15-LS-73_to_IEEE_802d3.pdf**

- **COBO**
  - http://www.ieee802.org/3/minutes/nov17/incoming/COBO_to_IEEE_802d3_Oct_2017.pdf

- **OIF**
  - http://www.ieee802.org/3/minutes/nov17/incoming/OIF_to_IEEE_802d3_Nov_2017.pdf

Schedule

Wednesday   **8-Nov-17**   **All**

Time	Presenter	Affiliation	Title	File Name
9:00 AM	John D'Ambrosia	Futurewei, Subsidiary of Huawei	Agenda and General Information	agenda_b10k_01_1117.pdf
9:30 AM	David Lewis	Lumentum	50 GbE 40km Objective	lewis_b10k_01_1117.pdf
10:00 AM	Break			
10:20 AM	Xinyuan Wang	Huawei	Analysis on Feasibility to Support a 40km Objective in 50/200/400GbE	wang_b10k_01a_1117.pdf
10:50 AM	Yoshiaki Sone	NTT	Investigation of the technical feasibility for 50G/200G/400G beyond 10km optical PHY	sone_b10k_01_1117.pdf
11:20 AM	Ilya Lyubomirsky	Inphi	Leveraging 400G ZR FEC Technology	lyubomirsky_b10k_01_1117.pdf
11:50 AM	Tom Williams	Acacia	Coherent Feasibility and Interop	williams_b10k_01a_1117.pdf
12:00 PM	Lunch			
1:15 PM	Peter Stassar	Huawei	Considerations on X00 Gb/s 40-80km interfaces with appropriate support for DWDM Systems	stassar_b10k_01_1117.pdf
1:45 PM	Steve Trowbridge	Nokia	OTN Support for Beyond 10km Optical PHYs	trowbridge_b10k_01_1117.pdf
2:15 PM	John D'Ambrosia	Futurewei, Subsidiary of Huawei	The Path Forward	dambrosia_b10k_01_1117.pdf
2:45 PM	Break			
3:05 PM	Discussion / Strawpolls			
5:00 PM	Break for Day			

Thursday   **9-Nov-17**

Time	Presenter	Affiliation	Title	
9:00 AM	John D'Ambrosia	Futurewei, Subsidiary of Huawei	Opening Comments	
9:10 AM	Discussion, Strawpolls, Motions			
10:00 AM	Break			
10:20 AM	Discussion, Strawpolls, Motions			
11:30 AM	Closing Business			
12:00 PM	Adjourn			

Future Meetings

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

- Jan 2018 Interim
  - Week of Jan 22, 2018
  - ITU Headquarters and CICG
  - Geneva, CH
- Mar 2018
  - Week of Mar 5, 2018
  - Hyatt Regency O'Hare
  - Rosemont, IL, USA
- May 2018
  - Week of May 21,2018
  - Omni William Penn Hotel
  - Pittsburgh, PA, USA
- July 2018
  - Week of July 9, 2018
  - Manchester Grand Hyatt
  - San Diego, CA, USA
- Sept 2018
  - Week of Sept 10, 2018

Thank You!