Agenda and General Information

IEEE 802.3
400 Gb/s Ethernet Study Group

John D’Ambrosia, Dell
Indian Wells, CA, USA
IEEE 802.3 January 2014 Interim

Agenda

- Appointment of Recording Secretary
- Welcome and Introductions
- Approve Agenda
- Approve Nov 2013 Plenary Minutes
- Goals for this meeting
- Reflector and Web
- Ground Rules
- IEEE
  - Structure
  - Bylaws and Rules
  - Guidelines for IEEE-SA Meetings
  - IEEE Standards Process
- Liaisons & Communications
- Ad Hoc Reports
- Presentations
- Discussion, Straw Polls, Motions
- Closing Business
- Future Meetings

Task Force Decorum

- Photography or recording by permission only (2010 SASB Op Manual 5.3.3.4)
- Cell phone ringers off
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (5.3.3.5)
- 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 week

- Hear presentations related to objectives and 5 Criteria.
- Consensus on Objectives, PAR, 5 Criteria.
- Approve requesting IEEE 802.3 WG submit project documentation.
- Lay the ground work for the next meeting.

Reflector and Web

- To subscribe to the 400G reflector, send an email to:

  ListServ@ieee.org

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

  subscribe stds-802-3-400G <yourfirstname> <yourlastname>

  end

- Send 400G reflector messages to:

  STDS-802-3-400G@listserv.ieee.org

- Task Force web page URL:

  http://www.ieee802.org/3/400GSG/index.html

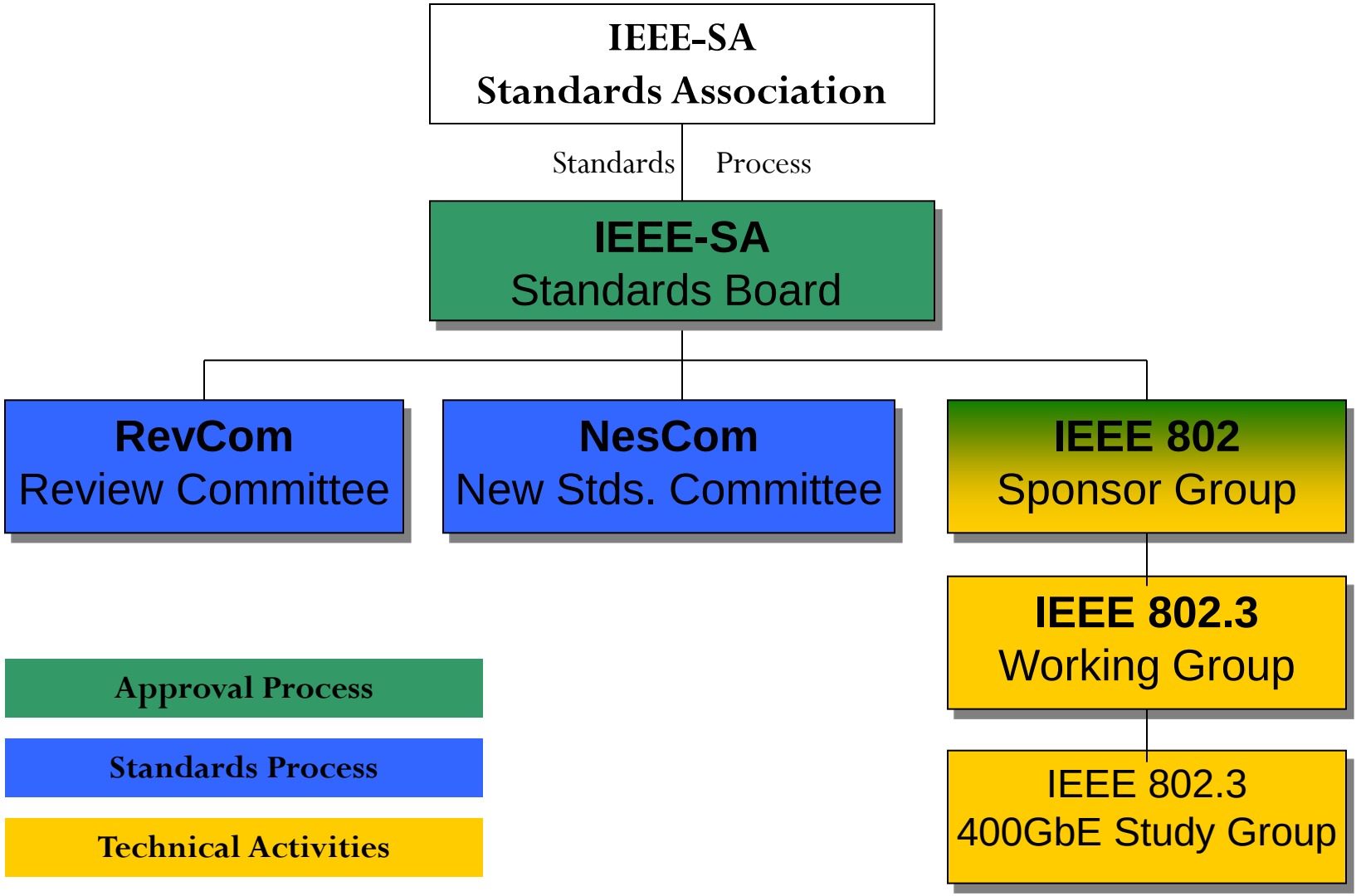
- Ad hoc area URL:

  http://www.ieee802.org/3/400GSG/public/adhoc/index.shtml

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, 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://www.ieee802.org/PNP/2010-07/IEEE_802_LMSC_OM_approved_100716.pdf
- **IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG) Policies and Procedures**
  http://www.ieee802.org/PNP/2010-07/IEEE_802_LMSC_WG_PandP_approved_100716.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

Guidelines for IEEE-SA Meetings

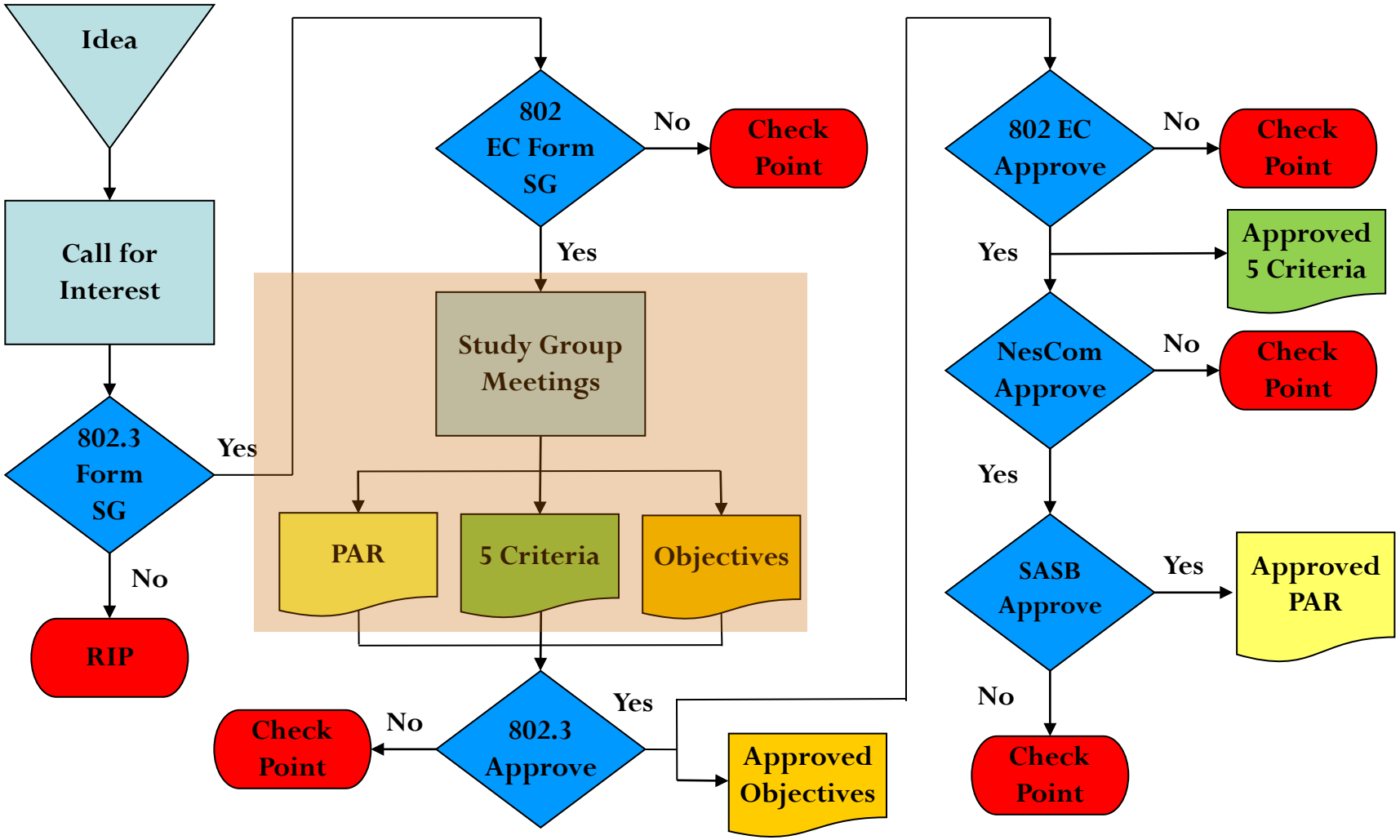
- **All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.**
- **Don't discuss the interpretation, validity, or essentiality of patents/patent claims.**
- **Don't discuss specific license rates, terms, or conditions.**
  - Relative 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.

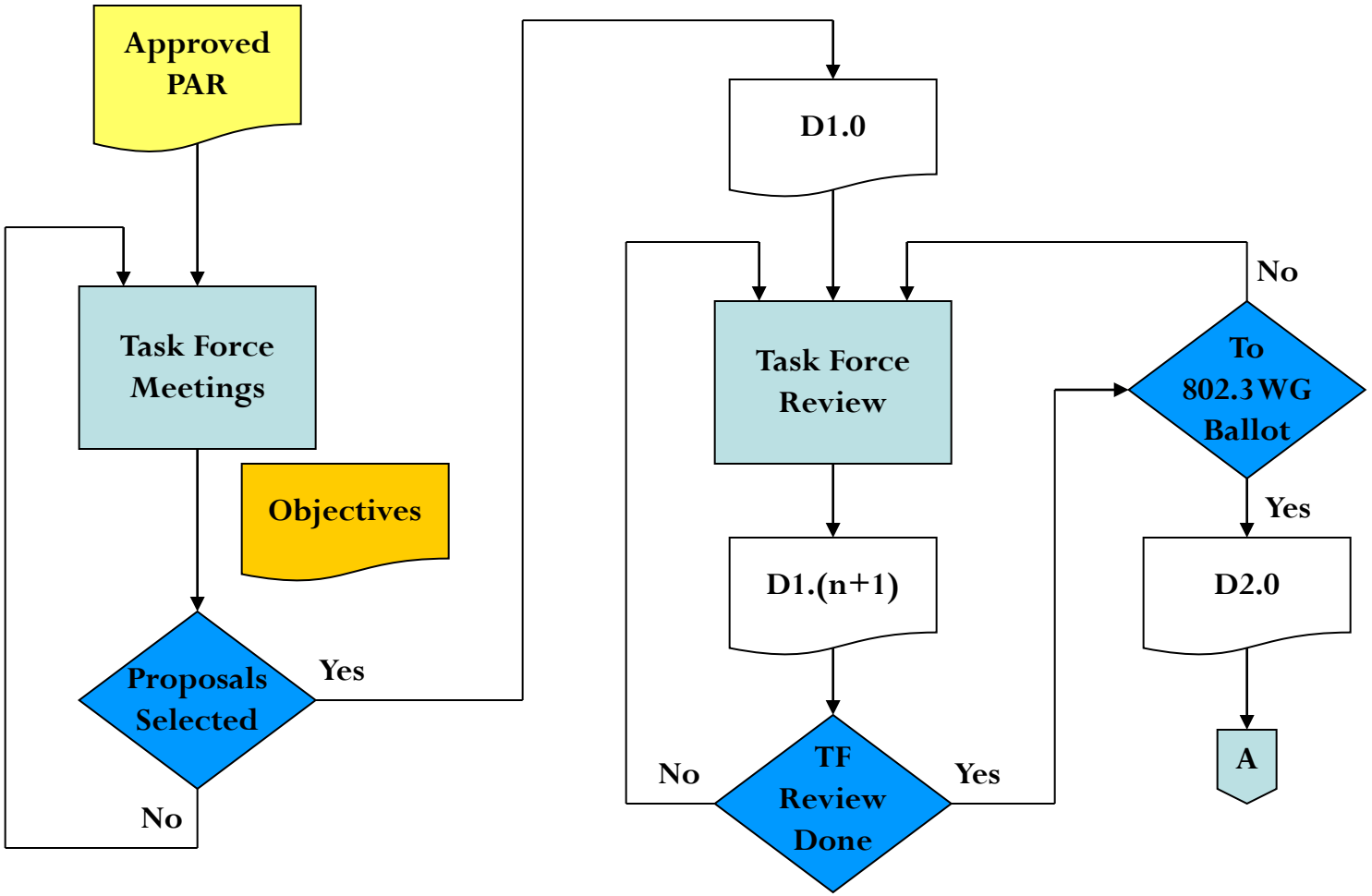
This slide set is available at https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt

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

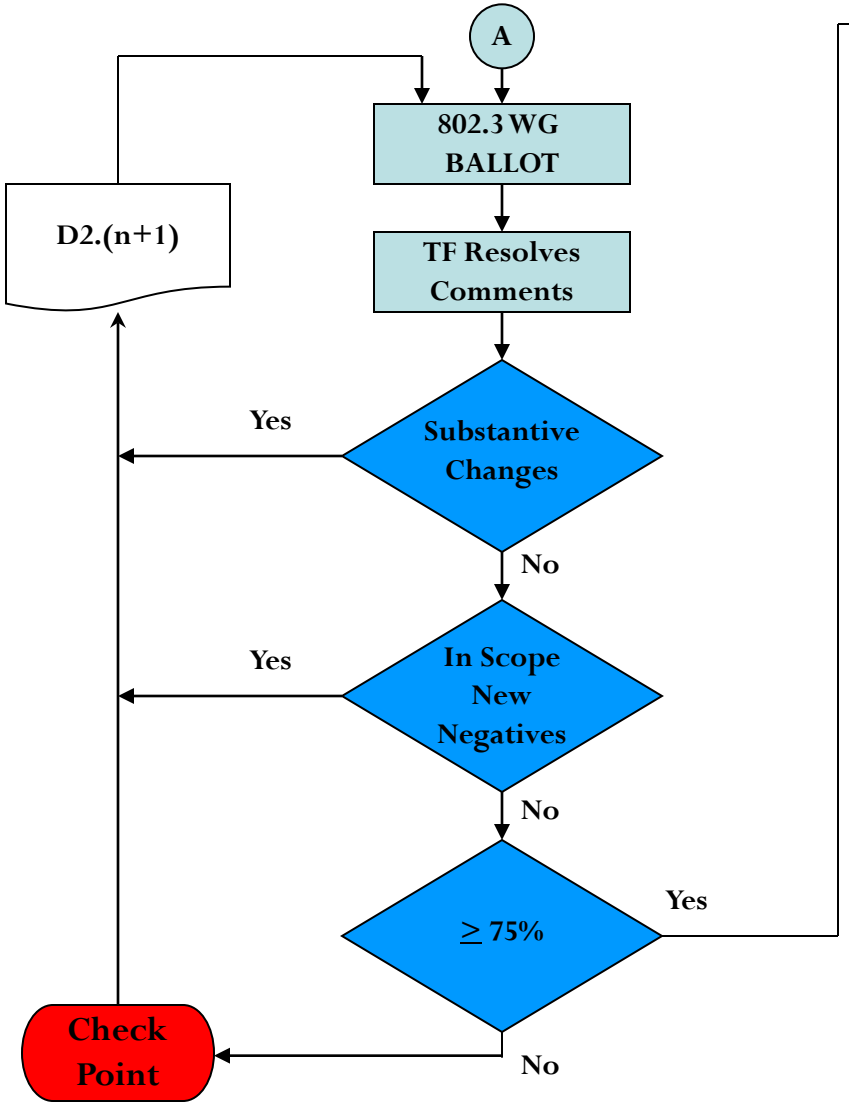


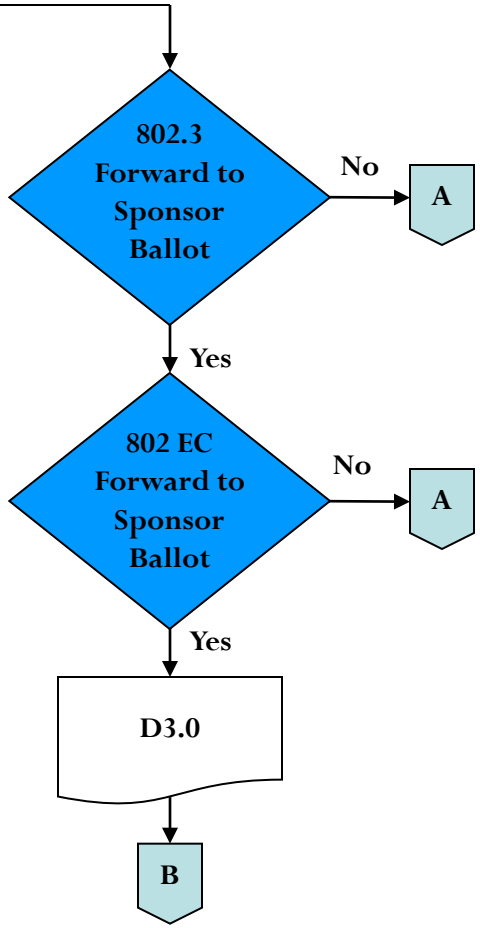
Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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

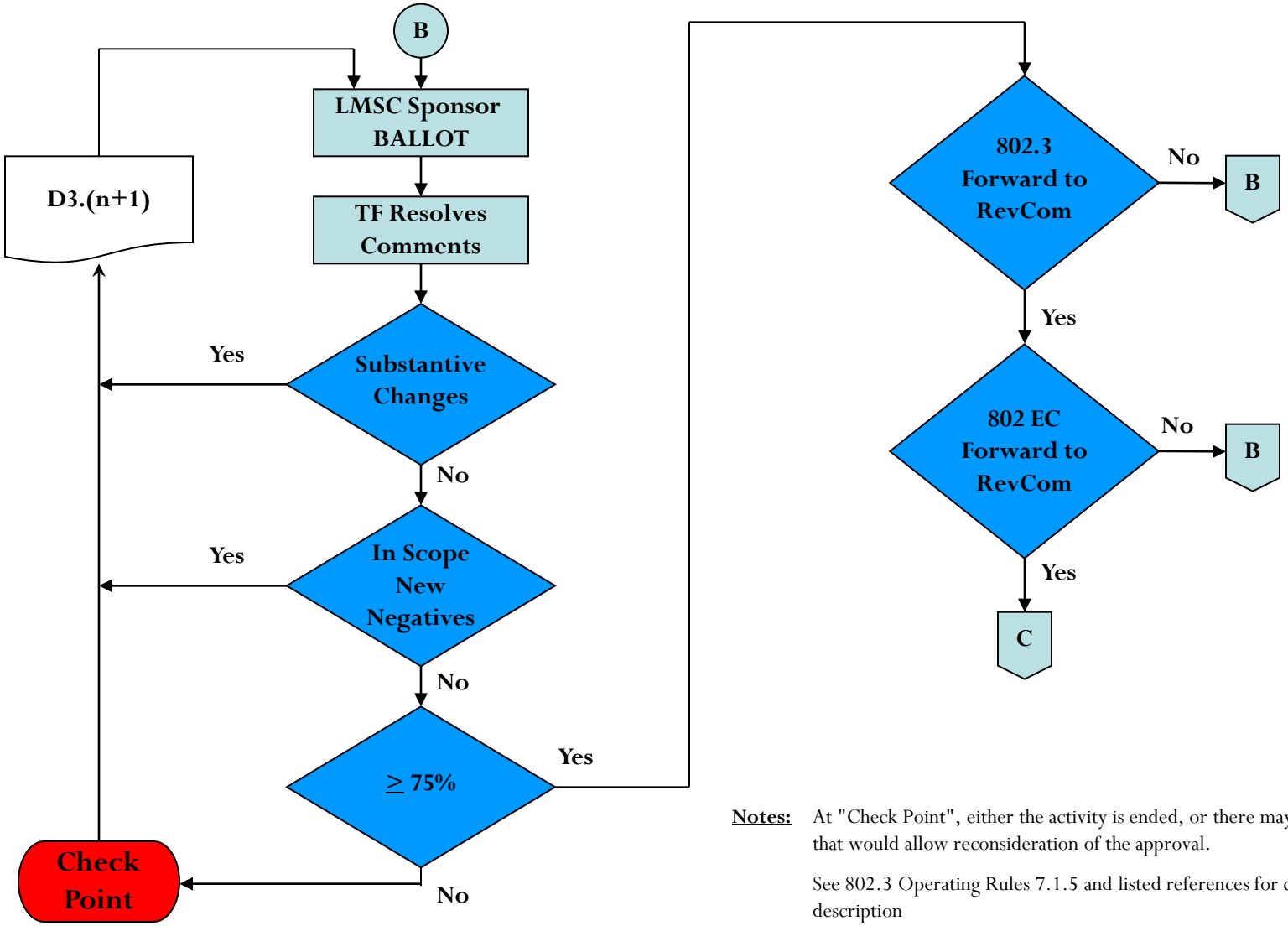




Notes: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

See 802.3 Operating Rules 7.1.4 and listed references for complete description

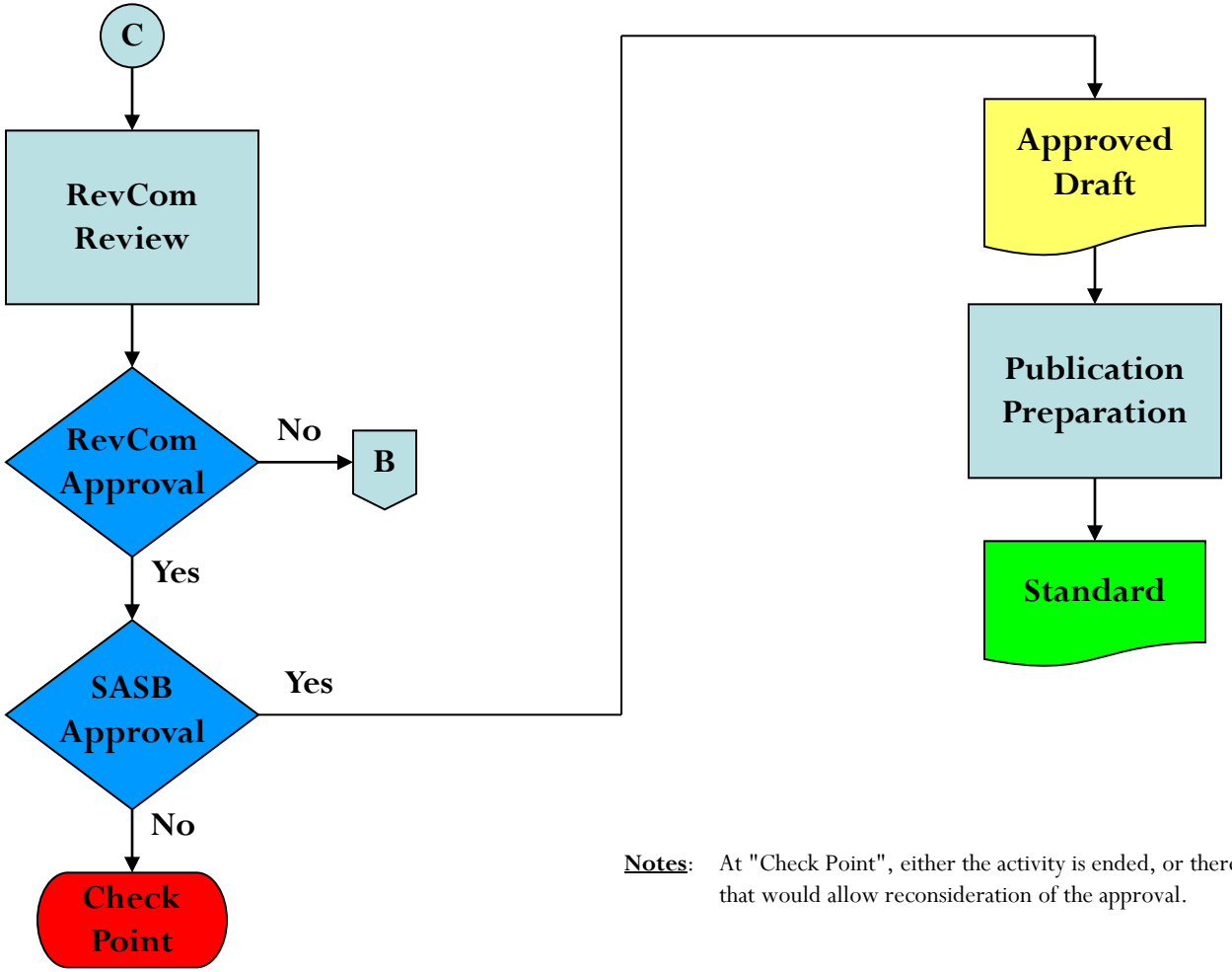
Overview of IEEE 802.3 Standards Process (4/5)- Sponsor Ballot Phase



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 reconsideration of the approval.

Liaisons and Communications

- Appointed at 802.3 Opening Plenary
  - ISO/IEC JTC1/SC 25 WG3: Status of standards to support parallel single mode optical fibre cabling
    - http://www.ieee802.org/3/minutes/nov13/incoming/25N2202_LiaisonRep_toIEEE_paralellOF.pdf

Monday

Note –Times listed are subject to change.

Time	Presenter	Affiliation	Title	File Name
8:30 AM	John D'Ambrosia	Dell	Agenda and General Information	agenda_400_01_0114.pdf
9:15 AM	Alan Flatman	Independent	Liaison: ISO/IEC JTC1/SC 25 WG3	
9:25 AM	Steve Trowbridge	Alcatel-Lucent	Technical Feasibility Ad hoc	trowbridge_400_01_0114.pdf
9:35 AM	Andy Moorwood	Infinera	Economic Feasibility Ad Hoc	moorwood_400_01_0114.pdf
9:45 AM	John D'Ambrosia	Dell	Applications Ad Hoc Update	dambrosia_400_01_0114.pdf
9:55 AM	Break			
10:15 AM	Tom Palkert	Molex	Passive Copper Cable Objective for 400 GbE	palkert _400_04_0114.pdf
10:45 AM	Tom Palkert	Molex	Need for 400GbE Breakout	palkert _400_01_0114.pdf
11:15 AM	Mike Peng Li	Altera	Economic Feasibility of 400G Ethernet MAC/PCS/FEC/PMA	li _400_01_0114.pdf
12:00 PM	Lunch			
1:15 PM	Mark Gustlin	Xilinx	Economic Feasibility of 400G Ethernet MAC/PCS/FEC	gustlin _400_01_0114.pdf
1:45 PM	Yoshiaki Sone	NTT	Maximizing the cost advantage of Ethernet by considering future generations of 400GE	sone _400_01_0114.pdf
2:15 PM	Tom Palkert	Molex	Economic Feasibility of Multi-fiber Lane Connectors	palkert _400_03_0114.pdf
2:45 PM	Tom Palkert	Luxtera	Economic Feasibility of Multi-fiber PMDs	palkert _400_02_0114.pdf
3:15 PM	Break			
3:35 PM	Tongong Wang	Huawei	Technical Feasibility of Bit multiplexing in 400GbE PMA	wang _400_01_0114.pdf
4:05 PM	Dan Dove	Huawei	Considering 2 km and 10 km Architectural Alternatives	dove _400_01_0114.pdf
4:35 PM	Xu Yu	Huawei	Feasibility for 10km SMF PMD	yu _400_01_0114.pdf
5:05 PM	Chris Cole	Finisar	400Gb/s SMF PMD Technical Feasibility	cole_400_01_0114.pdf
5:35 PM	John D'Ambrosia	Dell	Proposed CSD	dambrosia_400_03_0114.pdf
6:00 PM	Discussion & Straw Polls			
6:30 PM	Break for Day			

Tuesday

Note –Times listed are subject to change.

8:30 AM	John D'Ambrosia	Dell	Opening Comments	
8:40 AM	Ali Ghiasi	Ghiasi Quantum LLC	Evolution of 400 GbE PMD and Signaling	ghiasi _400_01_0114.pdf
9:10 AM	Xiaolu Song	Huawei	Opportunities for PAM-4 Modulation	song_400_01_0114.pdf
9:40 AM	Tomoo Takahara	Fujitsu	Technical feasibility of DMT for 400GbE SMF transmission	takahara _400_01_0114.pdf
10:10 AM	Break			
10:30 AM	Winston Way	Neophotonics	4x100GE through 2 and 10km SMF Using DMT and 1.3 LAN-WDM EMLs	way _400_01_0114.pdf
11:00 AM	Patricia Bower	Fujitsu	Technical feasibility of CMOS DMT transceiver for 400GbE SMF transmission	bower_400_01_0114.pdf
11:30 AM	Riu Hirai	Hitachi	Proposal of new 400GbE Signaling Formats with 4λ x 100G Configuration	hirai_400_01_0114.pdf
12:00 PM	Lunch			
1:15 PM	Scott Kipp	Brocade	Optical Module Power Estimates for 400GbE	kipp_400_01_0114.pdf
1:45 PM	Mark Bugg	Molex	Technical feasibility of 400G copper interconnects	bugg _400_01_0114.pdf
2:15 PM	Takeshi Nishimura	Yamaichi Electronics	56Gbps/ch Connector Capability on CFP2 Connector	nishimura _400_01_0114.pdf
2:45 PM	Discussion, Motions, Strawpolls			
2:45 PM	Break			
3:05 PM	Discussion, Motions, Strawpolls			
5:30 PM	Closing Business			
6:00 PM	Adjourn			

Future Meetings

- See: http://www.ieee802.org/3/interims/index.html
- March 2014 Plenary
  - Week of March 16
  - Beijing, China
- May 2014 Interim (hosted by Ethernet Alliance)
  - Week of May 12
  - Sheraton Norfolk Waterside Hotel, Norfolk, VA, USA
- July 2014 Plenary
  - Week of July 13
  - Manchester Grand Hyatt, San Diego, CA, USA
- Sept 2014 Interim
  - Week of September 8
  - Brookstreet Hotel, Ottawa, Canada
- Nov 2014 Plenary
  - Week of November 2
  - Grand Hyatt San Antonio, San Antonio, TX, USA
- Anyone interested in hosting a meeting or webex contact me.

Thank You!