

Agenda and General Information

IEEE 802.3
400 Gb/s Ethernet Study Group

John D'Ambrosia, Dell
Dallas, TX, USA
IEEE 802 Nov 2013 Plenary

Agenda

- Appointment of Recording Secretary
- Welcome and Introductions
- Approve Agenda
- Approve Sept Plenary Minutes
- Goals for this meeting
- Reflector and Web
- Ground Rules
- IEEE
 - Structure
 - Bylaws and Rules
 - Guidelines for IEEE-SA Meetings
 - IEEE Standards Process
- Time Line Discussion
- 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
- Develop consensus on Objectives
- 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>

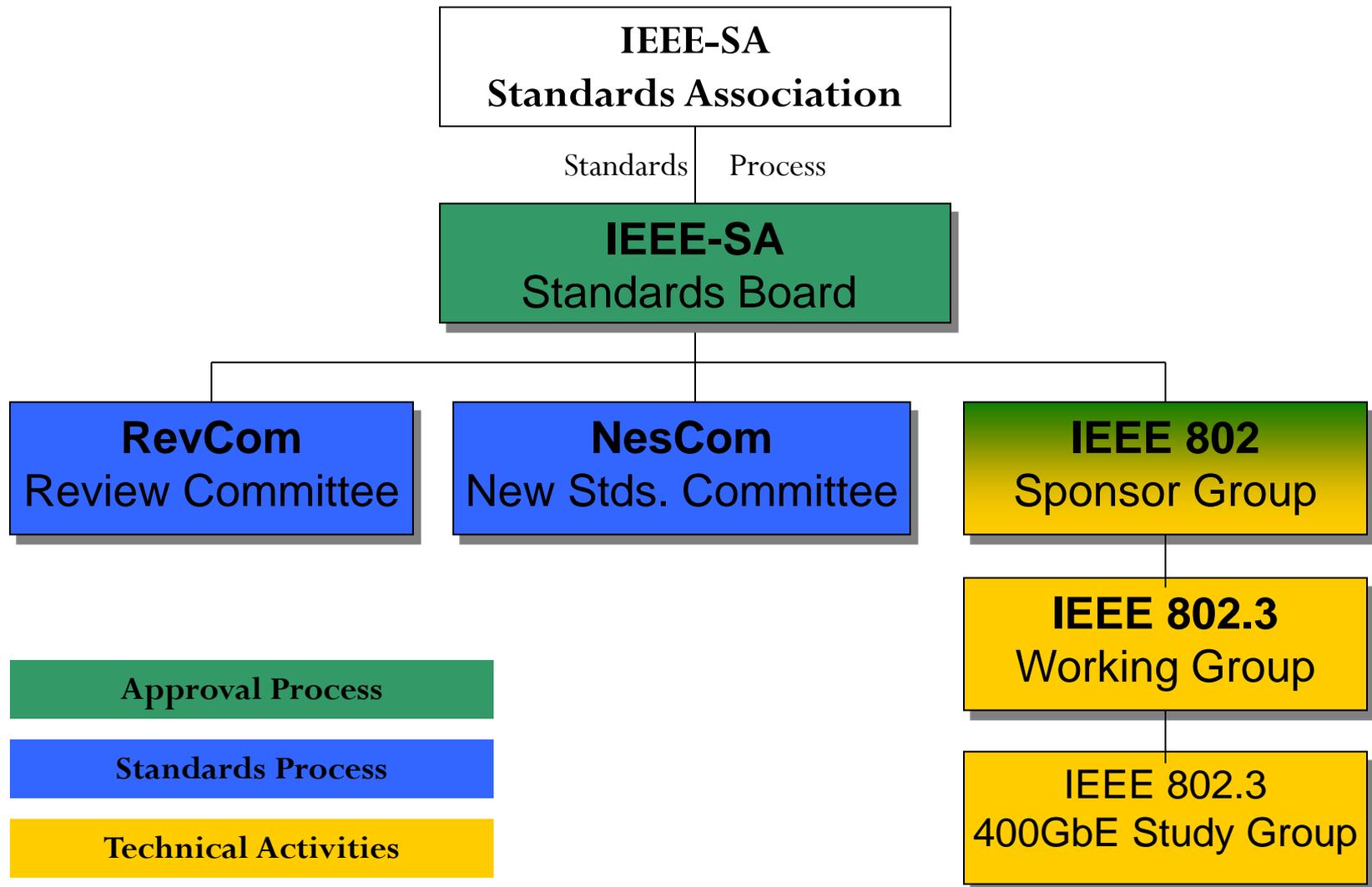
- Ad hoc area URL:

<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

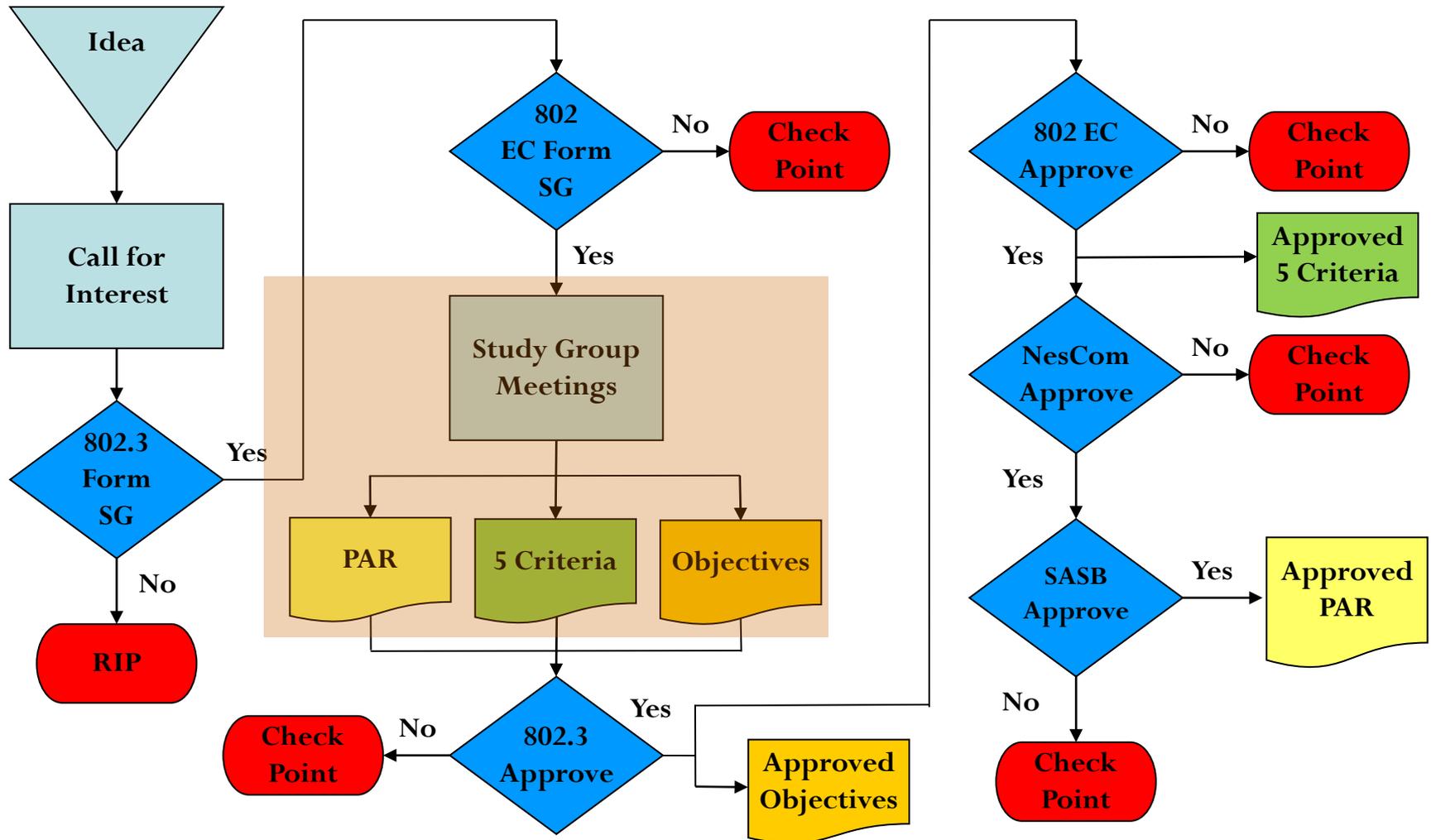
- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
- Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
- Don't discuss specific license rates, terms, or conditions.
 - Relative costs,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

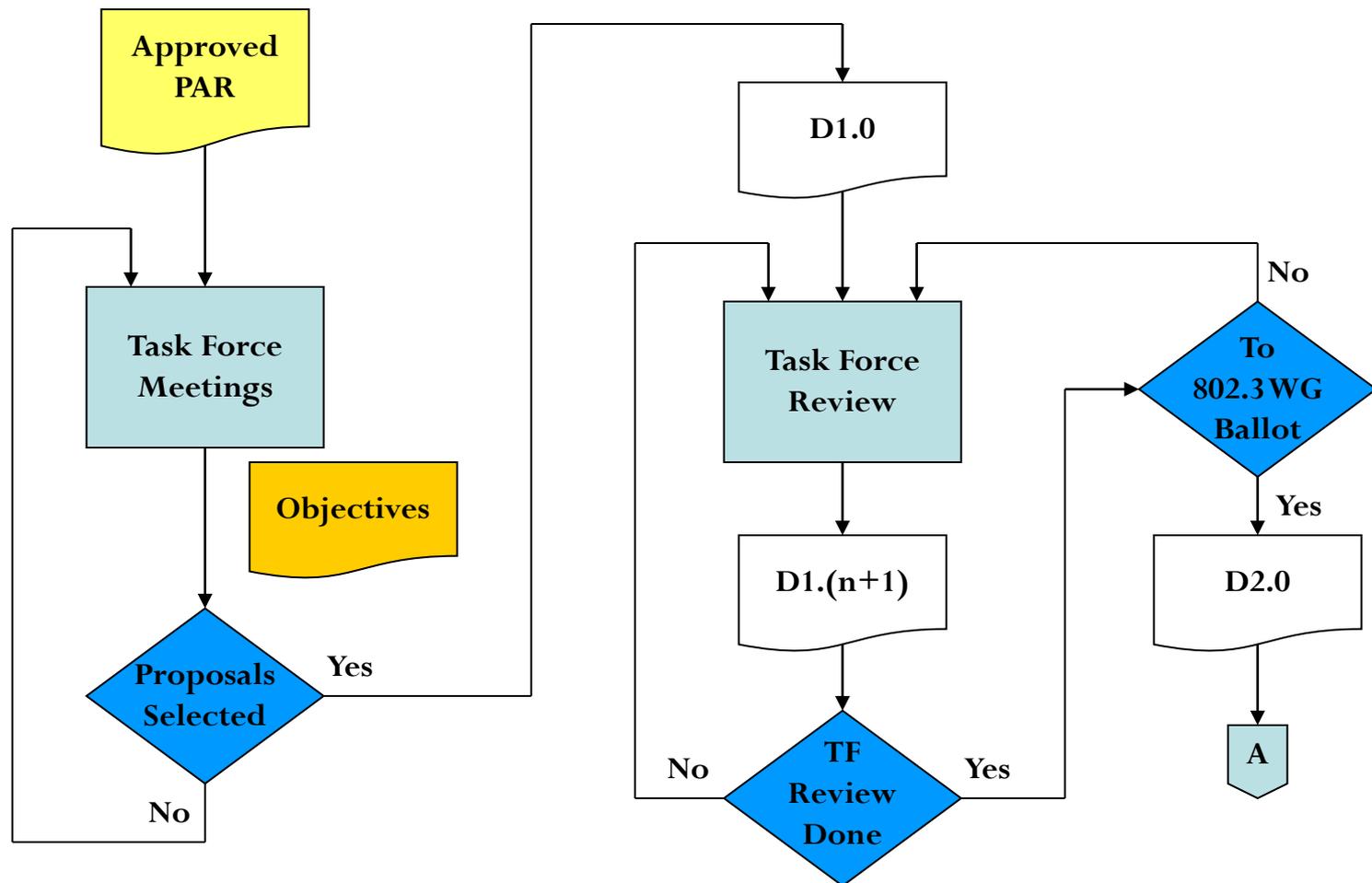
This slide set is available
at <https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt>

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

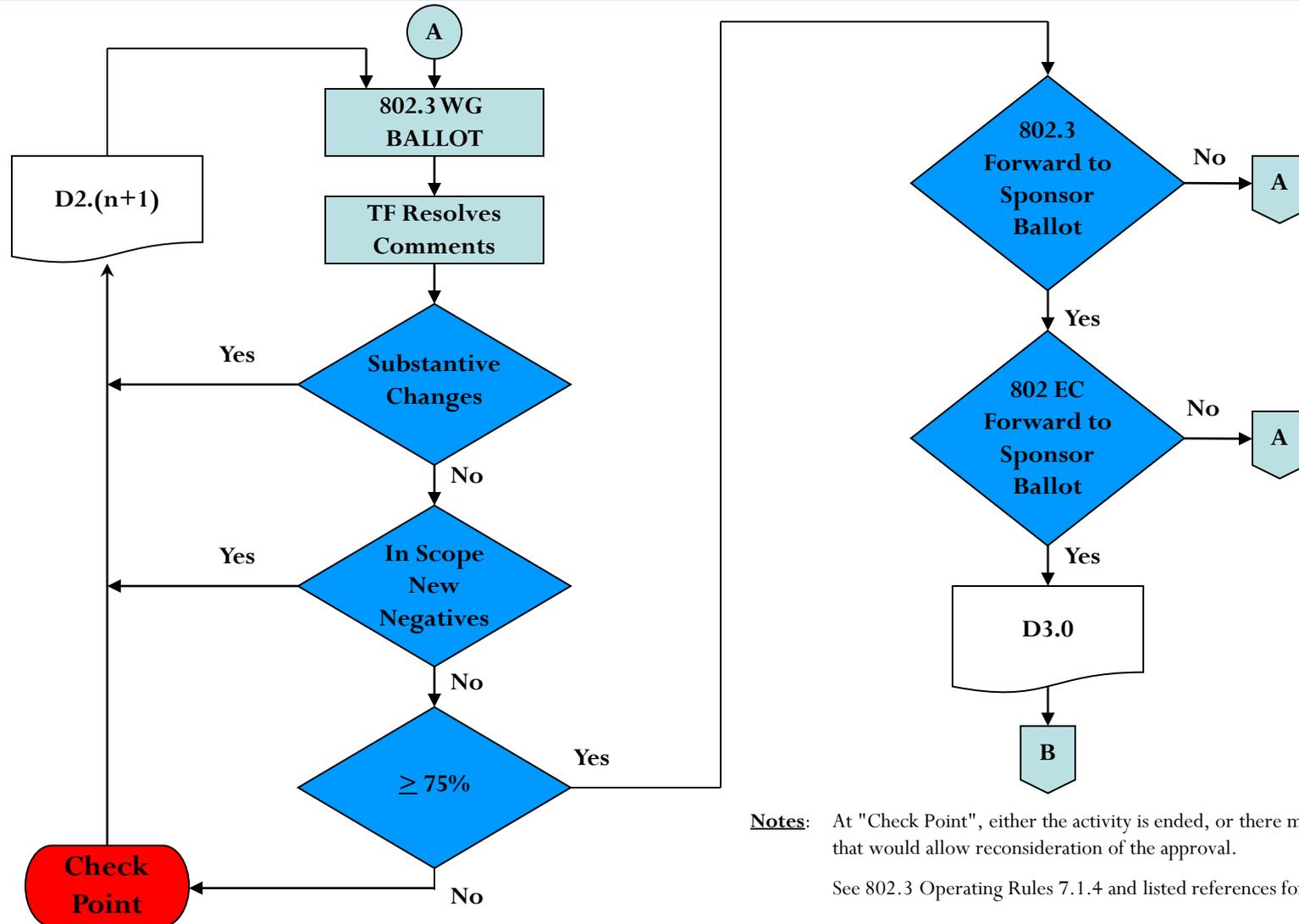


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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



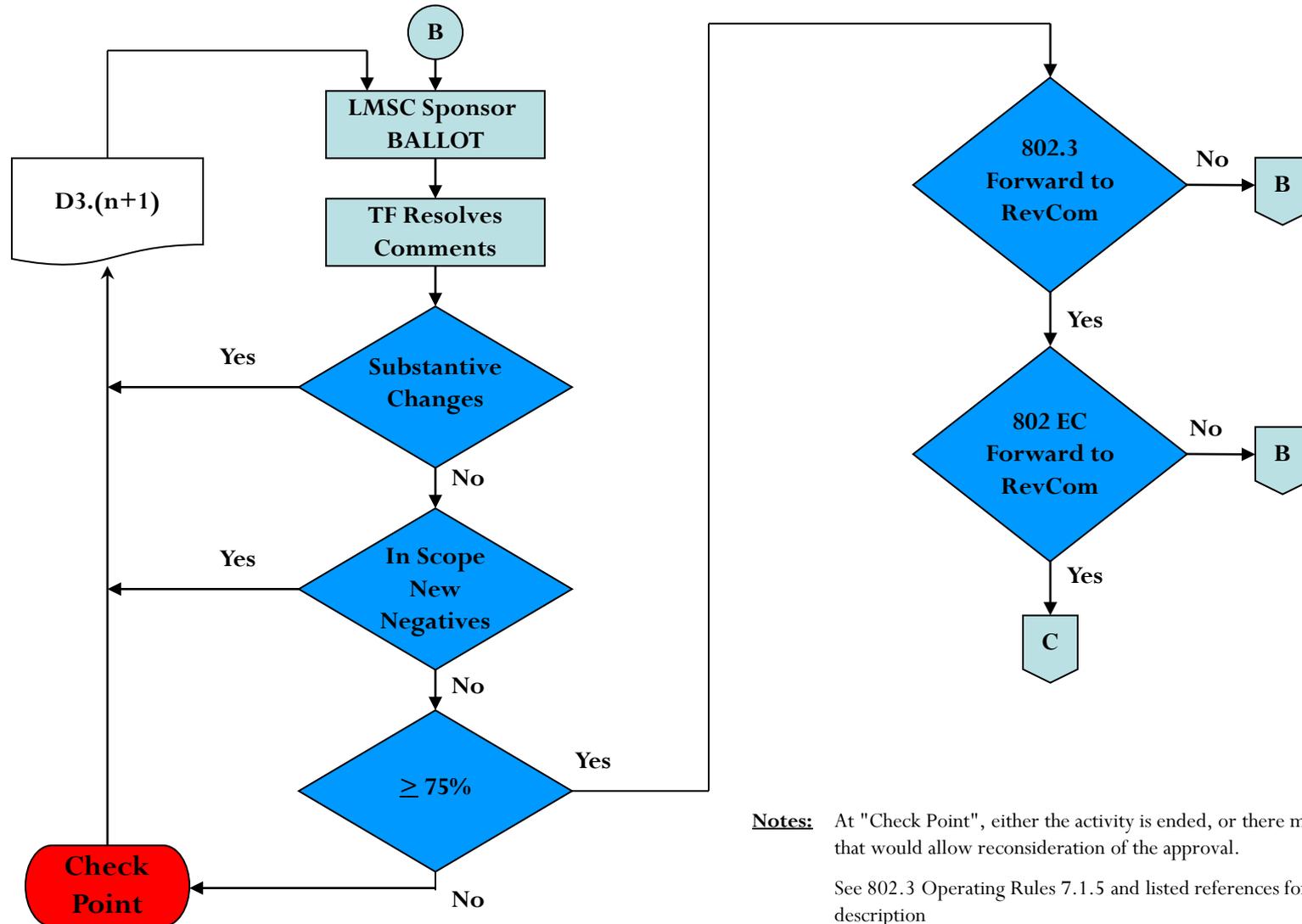
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



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

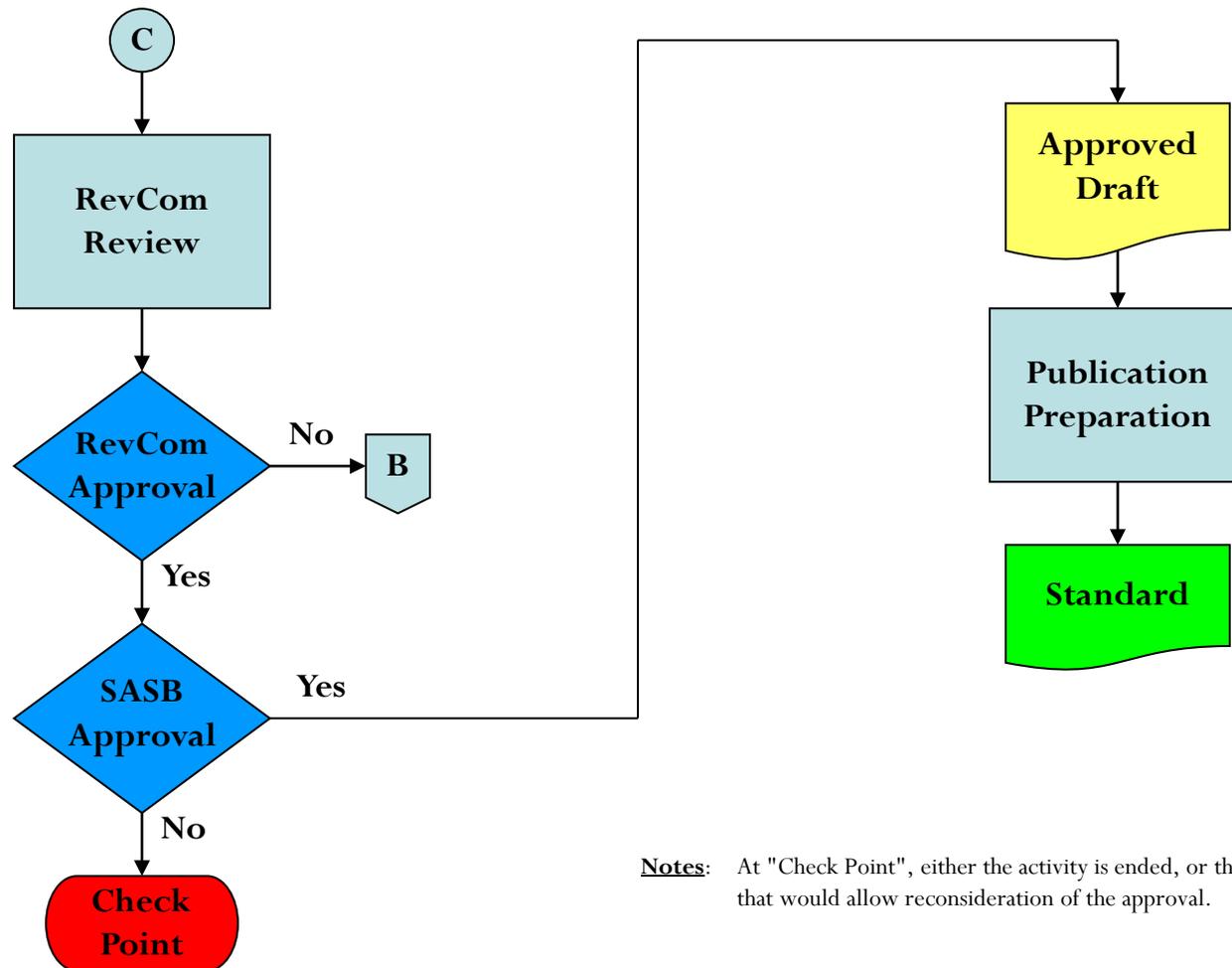
Overview of IEEE 802.3 Standards Process (4/5)- Sponsor Ballot Phase



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_to_EEE_paralelIOF.pdf

Tuesday

Note –Times listed are subject to change.

Time	Presenter	Affiliation	Title	File Name
9:00 AM	John D'Ambrosia	Dell	Agenda and General Information	agenda_400_01_1113.pdf
9:45 AM	John D'Ambrosia	Dell	Applications Ad Hoc Update	dambrosia_400_02_1113.pdf
9:55 AM	Mark Gustlin	Xilinx	Logic Ad hoc Update	gustlin_400_01_1113.pdf
10:05 AM	Break			
10:25 AM	Xiaolu Song	Huawei	Considerations on the telecom application for 400GbE	song_x_400_01a_1113.pdf
10:55 AM	Xin Chang	Huawei	400GbE: Perspective from China Service Provider	chang_400_01_1113.pdf
11:25 AM	Brad Booth	Microsoft	Objectives to Support Cloud Scale Data Center Design	booth_400_01_1113.pdf
12:00 PM	Lunch			
1:15 PM	Tom Palkert	Molex	Passive Copper Objectives for 400GbE	palkert_400_01_1113.pdf
1:45 PM	Jack Jewell	Independent affiliated with Commscope	MMF Objective for 400GbE	jewell_400_01_1113.pdf
2:15 PM	Tom Palkert	Molex / Luxtera	500m Single Mode Objective for 400GbE	palkert_400_02_1113.pdf
2:45 PM	Gary Nicholl	Cisco	Applications and PMD Objectives for 400GbE	nicholl_400_01_1113.pdf
3:15 PM	Break			
3:35 PM	Andy Moorwood	Infinera	Early Market PMD Types for: Core Router to Transport interconnect and Router to Router interconnect	moorwood_400_01_1113.pdf
4:05 PM	Chris Cole	Finisar	400Gb/s PMD Objectives Considerations	cole_400_01_1113.pdf
4:35 PM	John D'Ambrosia	Dell	Breakout Functionality	dambrosia_400_01a_1113.pdf
5:05 PM	Chris Cole	Finisar	SMF PMD Objective Modulation Alternatives Technical Feasibility	lyubomirsky_400_01_1113.pdf
5:35 PM	Discussion & Straw Polls			
6:00 PM	Break for Day			

Wednesday

Note –Times listed are subject to change.

9:00 AM	John D'Ambrosia	Dell	Opening Comments	
9:15 AM	Adam Healey	LSI	Meeting Objectives	healey_400_01_1113.pdf
9:30 AM	Pete Anslow	Ciena	Objective format for the 400G project	anslow_400_01_1113.pdf
10:00 AM	Break			
10:20 AM	Pete Anslow	Ciena	Error performance objective for 400GbE	anslow_400_02_1113.pdf
10:50 AM	Discussion & Straw Polls			
11:30 AM	Steve Carlson	High Speed Design	Bandwidth Growth Vehicular ethernet	carlson_400_01_1113.pdf
12:00 PM	Lunch			
1:15 PM	Mark Gustlin	Xilinx	A 400GbE PCS Option	gustlin_400_02_1113.pdf
1:45 PM	Haoyu Song	Huawei	400GbE PCS Direct Coding Analysis	song_400_01_1113.pdf
2:15 PM	Tongtong Wang	Huawei	Technical Feasibility of 400GE Architecture with Stronger FEC	wang_400_01_1113.pdf
2:45 PM	Brian Welch	Luxtera	400G Optical Transceivers – Economic Comparisons in Silicon Photonics	welch_400_01_1113.pdf
3:15 PM	Break			
3:35 PM	Toshiki Tanaka	Fujitsu	Considerations on Optical 400GbE DMT Length	tanaka_400_01_1113.pdf
4:05 PM	Charlie Chen	Titan Photonics	Advance Modulation of 400GE (4x100) Optical Transport	chen_400_01_1113.pdf
4:35 PM	Discussion & Straw Polls			
6:00 PM	Break for Day			

Thursday

Note –Times listed are subject to change.

9:00 AM	John D'Ambrosia	Dell	Opening Comments	
9:15 AM	Discussion, Motions, & Straw Polls			
10:15 AM	Break			
10:35 AM	Discussion, Motions, & Straw Polls			
11:30 AM	Closing Business			
12:00 PM	Adjourn			

Future Meetings

- See: <http://www.ieee802.org/3/interims/index.html>
- January 2014 Interim (hosted by Xilinx)
 - Week of January 20
 - Hyatt Regency Indian Wells, CA, USA
- March 2014 Plenary
 - Week of March 16
 - Beijing, China
- May 2014 Interim (hosted by Ethernet Alliance)
- July 2014 Plenary
 - Week of July 13
 - Manchester Grand Hyatt, San Diego, CA, USA
- Anyone interested in hosting a meeting or webex contact me.

Thank You!