



IEEE 802.3 40Gb/s SMF PMD Study Group

Agenda and General Information

New Orleans

Jan 2010

Agenda

- Welcome and Introductions
- Appoint/Volunteer Recording Secretary
- Confirmation of Chair
- Goals for this Week
- Ground Rules
- Reflector and Web
- IEEE
 - Structure
 - Bylaws and Rules
 - Call for Patents
 - IEEE Standards Process
- Presentations
- Liasons
- Motions & Closing Business
- Future Meetings

Study Group Decorum



- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (2007 SASB Op Manual 5.3.3.5)
- Photography or recording by permission only (5.3.3.4)
- Cell phone ringers off
- Wear your badges at all times in meeting areas

Goals for the Week

- Hear presentations related to objectives and 5 Criteria
- Determine whether consensus exists for defining 40GE SMF PMD SG Objectives
- Stretch goals - Consensus on:
 - Objective
 - 5 Criteria Responses
 - Project Authorization Request (PAR)

40GE SMF PMD Study group organization

Chair: to be confirmed

Web Master

- John D'Ambrosia (jdambrosia@ieee.org)

Recording Secretary: TBD

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

Reflector and Web

- To subscribe to the IEEE 802.3 40GE SMF PMD Study Group reflector, send an email to:

ListServ@ieee.org

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

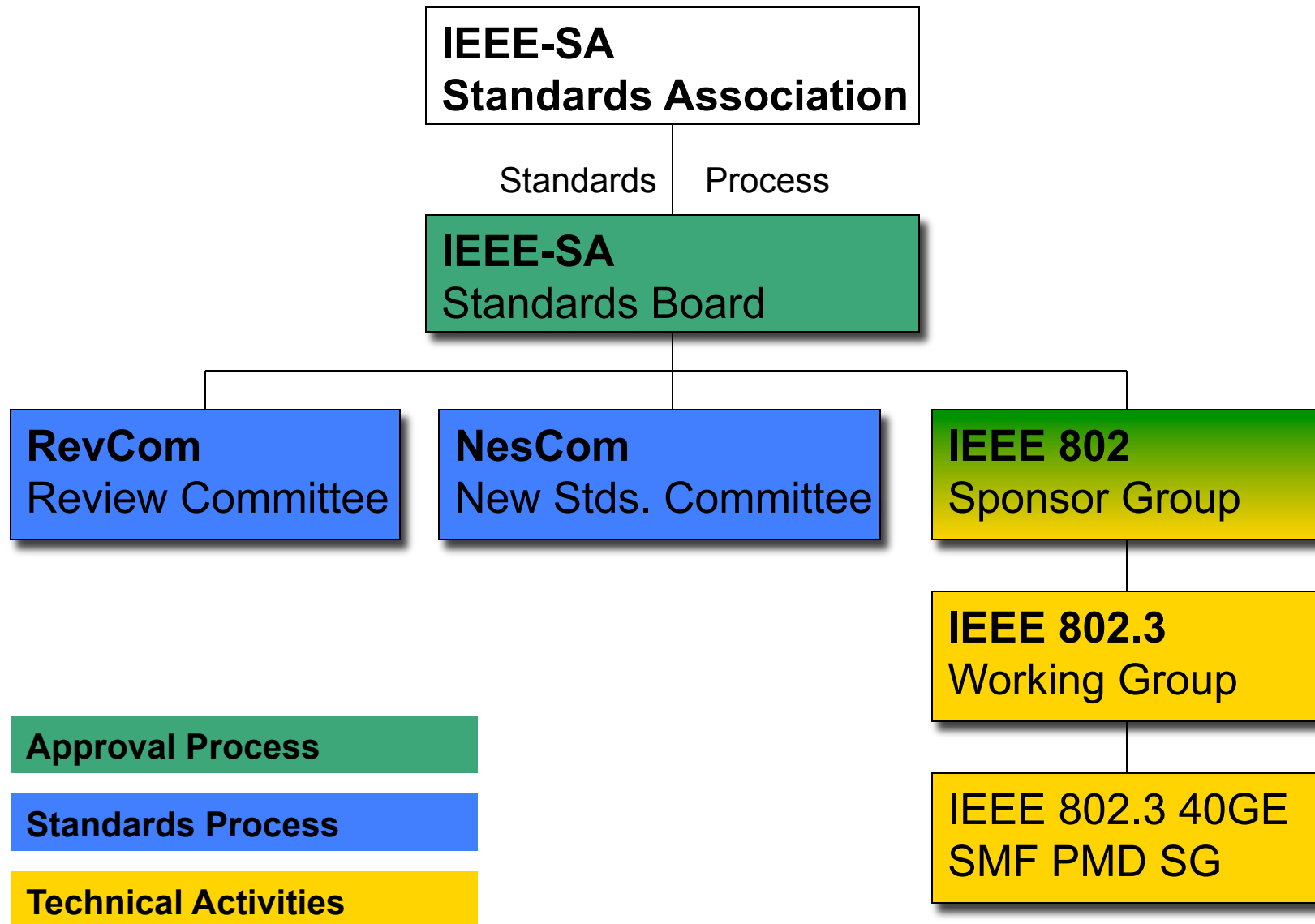
***subscribe stds-802-3-40GSMF <yourfirstname> <yourlastname>
end***

- Send IEEE 802.3 40GE SMF Study Group reflector messages to:
STDS-802-3-40GSMF@listserv.ieee.org

- Study Group web page URL:

<http://www.ieee802.org/3/40GSMF/>

IEEE Structure



Bylaws and Rules

- **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/board/aud/LMSC_2009.pdf
- **IEEE 802 LAN/MAN Standards Committee (LMSC) Operations Manual:**
 - http://www.ieee802.org/PNP/2008-11/LMSC_OM_approved_081114.pdf
- **IEEE 802.3 Working Group Operating Rules:**
 - http://ieee802.org/3/rules/P802_3_rules.pdf

Guidelines for IEEE-SA Meetings

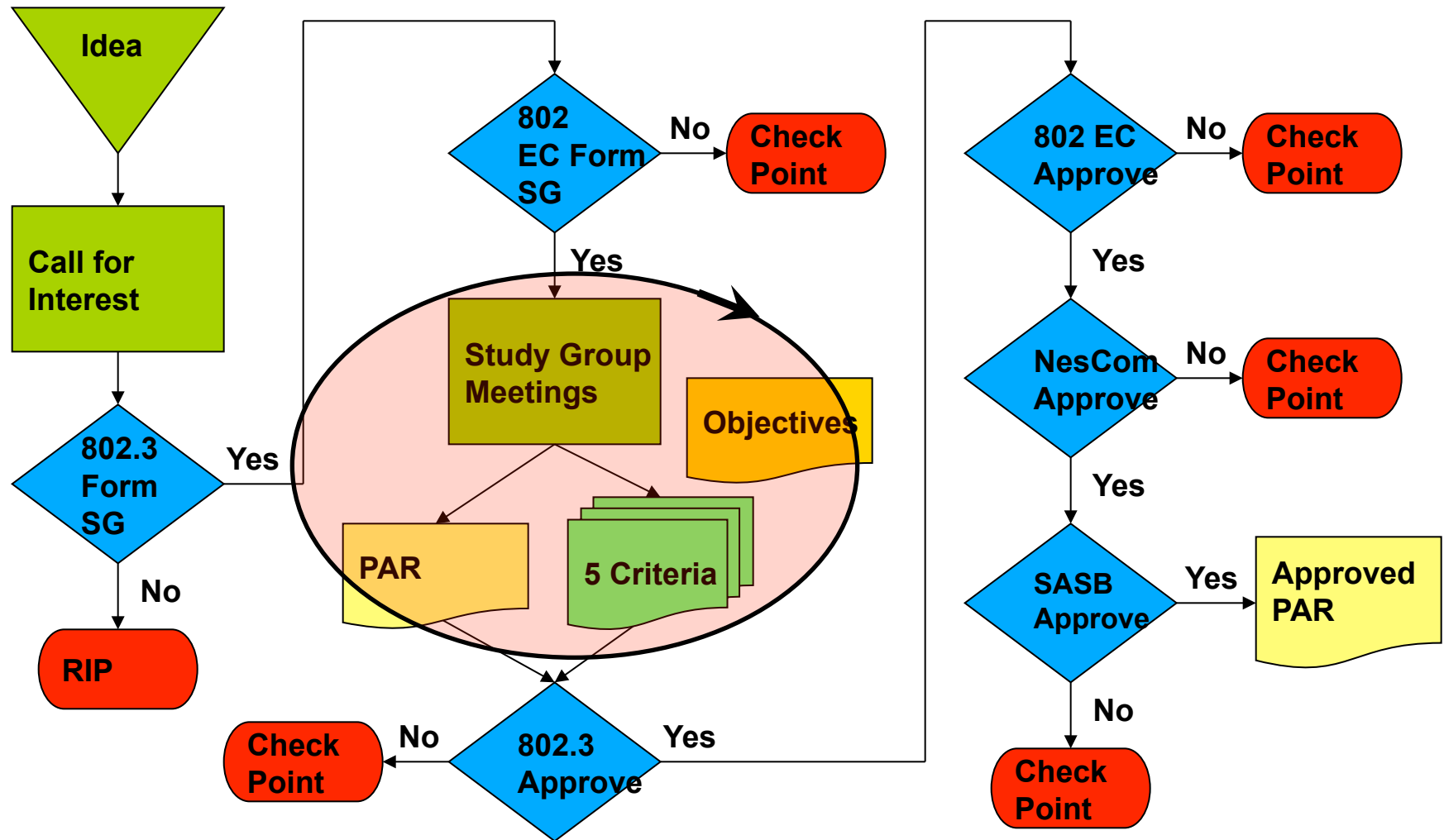
- **All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.**
- **Don't discuss the interpretation, validity, or essentiality of patents/patent claims.**
- **Don't discuss specific license rates, terms, or conditions.**
 - Relative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

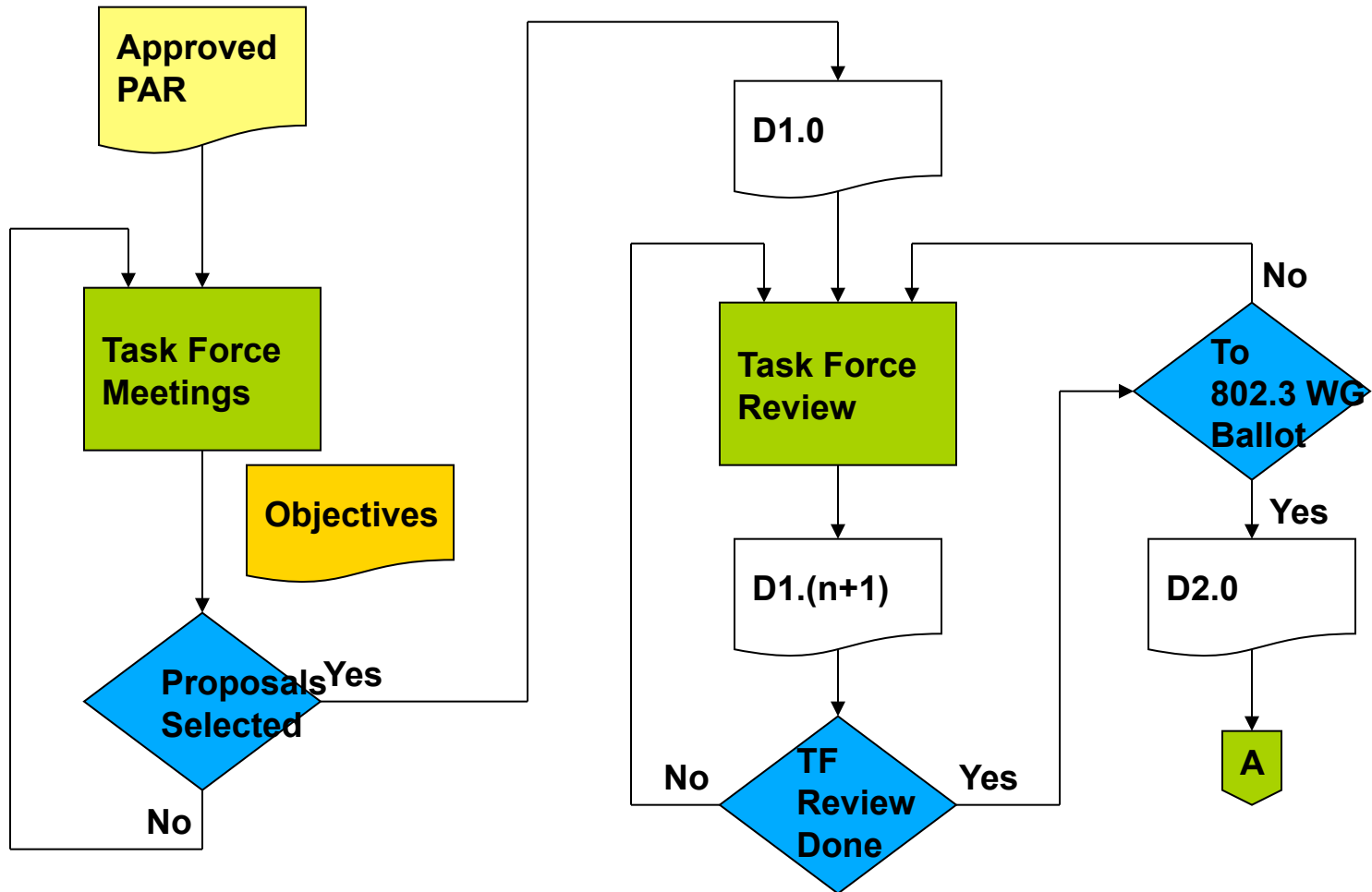
This slide set is available at <http://standards.ieee.org/board/pat/prePAR-pat-slideset.ppt>

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

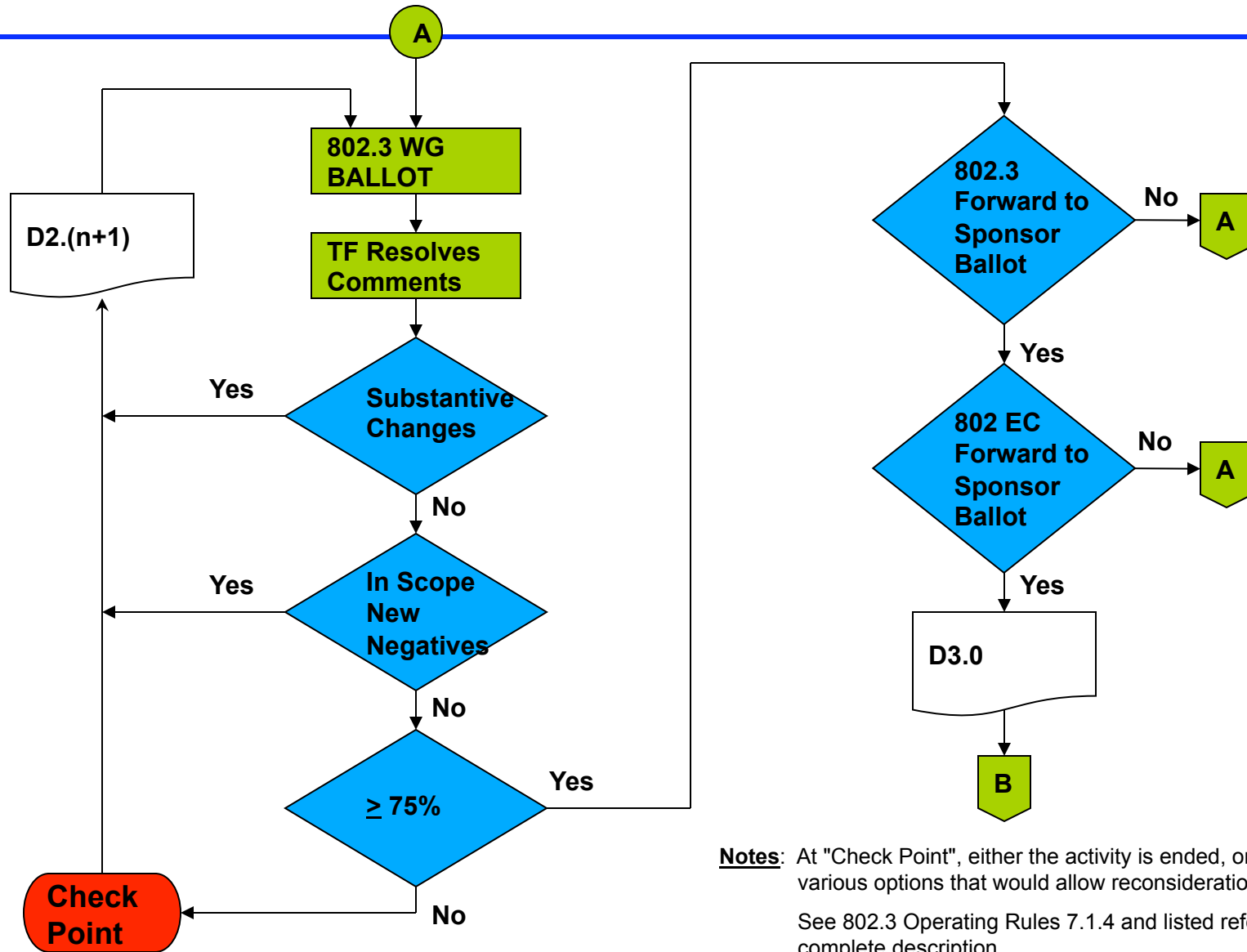


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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

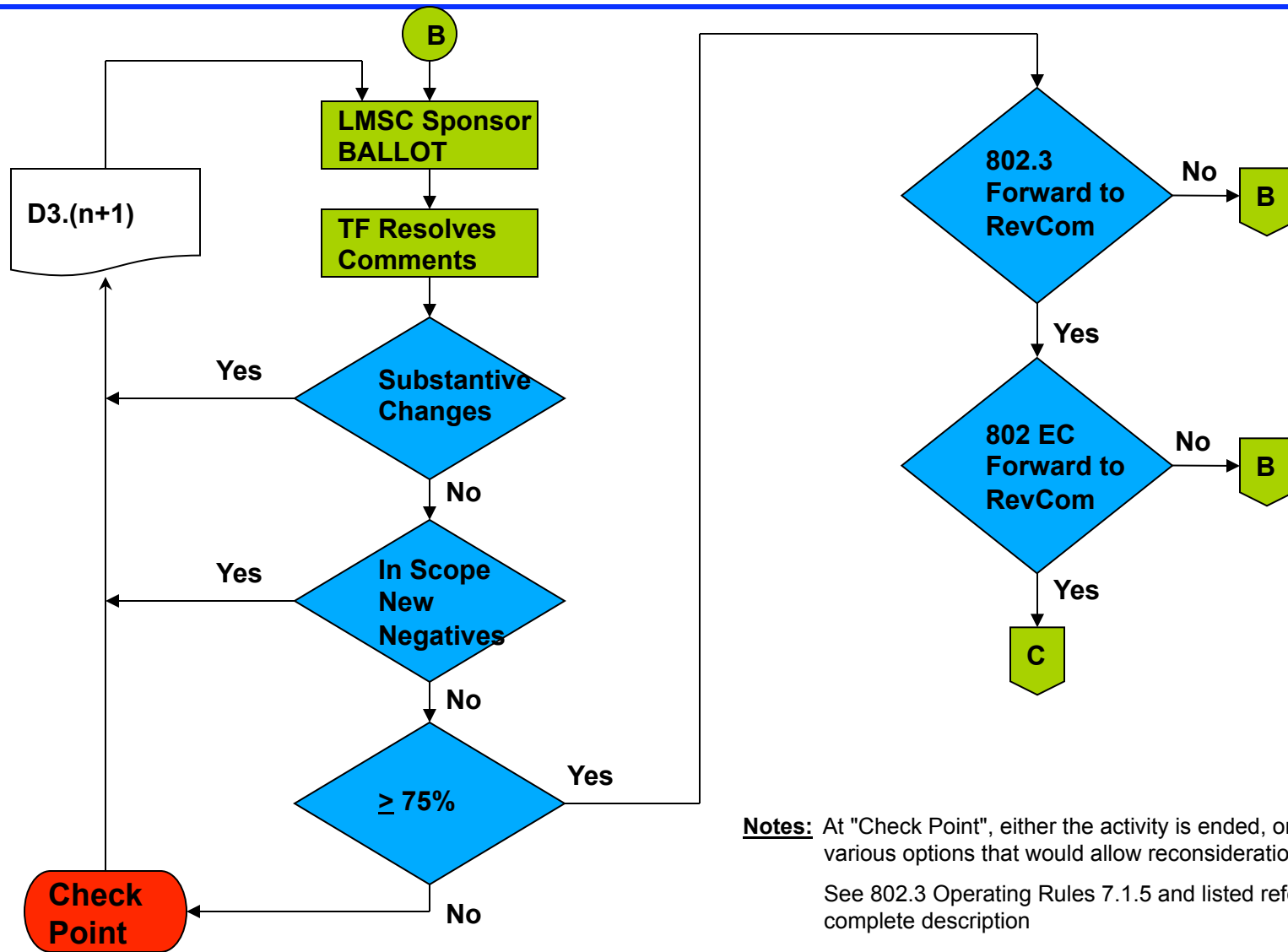


Overview of IEEE 802.3 Standards Process (3/5) - Working Group Ballot Phase



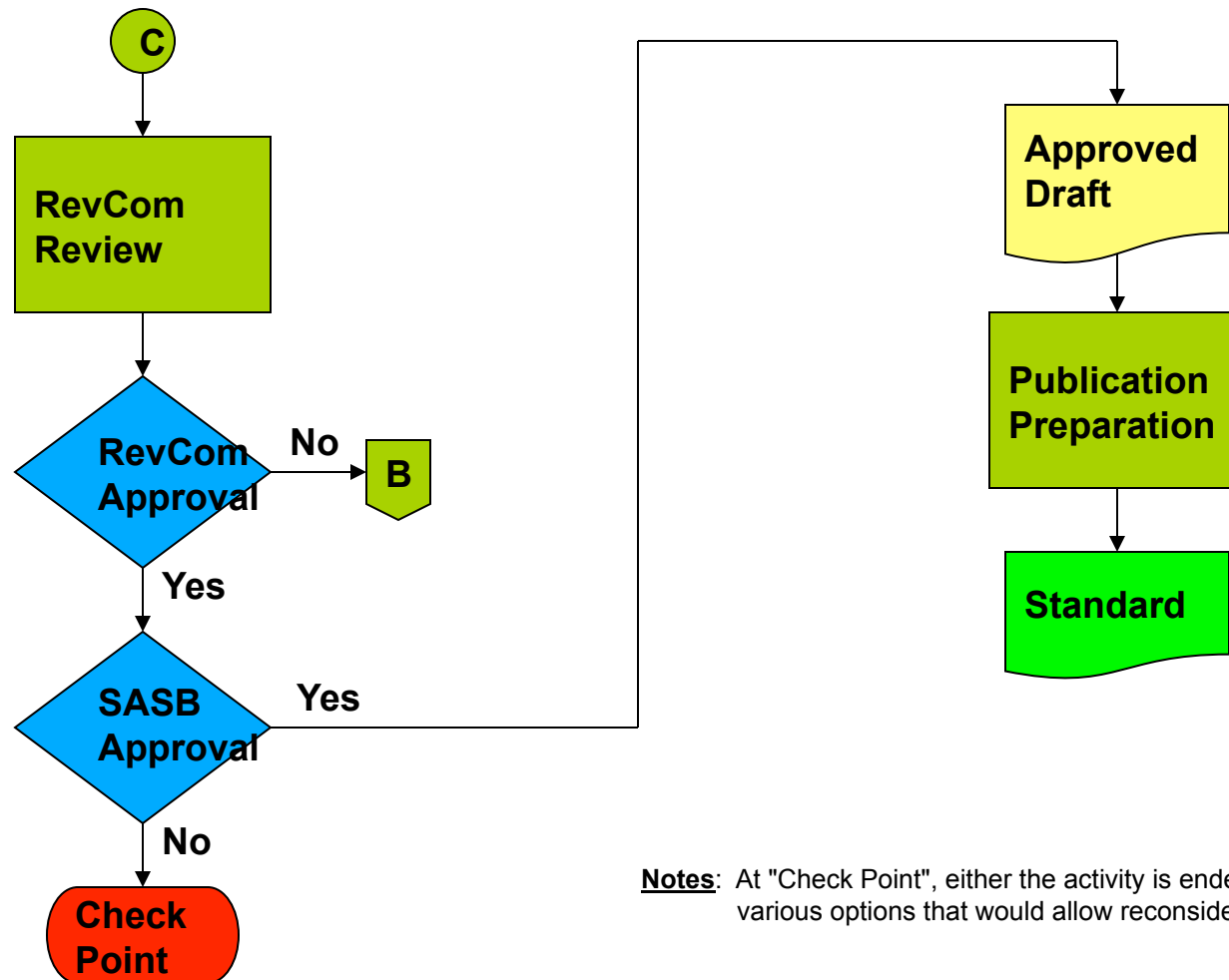
Notes: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval. See 802.3 Operating Rules 7.1.4 and listed references for complete description

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.

Request for Formation of 40GE SMF PMD Study Group (as per November '09 Plenary Motion)

- Move the IEEE 802.3 Working Group requests formation of a “40GE PMD Study Group” to study the need for an amendment to the IEEE 802.3 standard to specify a 40Gb/s Ethernet Single-mode Fiber PMD optimized for client applications in the carrier environment.

The Study Group

- Normal function is to draft a complete PAR and Five Criteria
- Provide a plenary week tutorial to the LMSC for major projects.
- Gain approval at the WG 802.3, 802 SEC, IEEE NesCom and IEEE-SA Standards Board.
- SG only exists for 6 months
 - Extensions can be requested, voted on by 802.3, ratified by SEC
- Development of Objectives helps set the goals for the Task Force
- Consensus (>75%) required to move forward

- Not a goal – choosing a solution.

Accomplishments this week will have an impact on project schedule

- Much pre-work has been done on this topic within the HSSG and the subsequent IEEE 802.3ba Task Force
 - 40GE CWDM vs. serial discussions culminating in Sept'08
 - Straw poll taken Sept'08: **Straw Poll #5: (Requested by Matt Traverso) I believe that the 40GbE serial PMD proposal is worthy of consideration in a future project. Y:86**
- Work continued outside of 802.3ba:
 - Pre-CFI incubation, CFI and formation of SG
- 18+ months of attention on this topic.

Conclusion: there is potential for quick consensus and there is desire by some to move forward quickly.

Need to understand IEEE procedures, dates, schedules in order to assess this group's schedule

Transitioning from SG → TF

Necessary steps:

1. SG reaches agreement on Objectives, 5 Criteria, PAR
2. 802.3 WG approves Objectives, 5 Criteria, PAR
3. 802 EC approves 5 Criteria, PAR
4. IEEE-SA Standards Board approves PAR (based on NesCom recommendation)

Scenario #1

- SG reaches agreement on Objectives, 5C, PAR week of Jan 29
- Pre-submit to EC, Nescom ahead of March mtgs
- 802.3 WG and 802 EC approves @ March plenary
- IEEE-SA Standards Board approves @ March mtg
- 1st 40G SMF PMD TF – May interim

Scenario #2

- SG reaches agreement on Objectives, 5C, PAR March Plenary or May Interim
- 802.3 WG and 802 EC approves @ July plenary
- IEEE-SA Standards Board approves @ Sept 29th mtg
- 1st 40G SMF PMD TF – November Plenary

Presentations

<u>Time</u>	<u>Presenter</u>	<u>Affiliation</u>	<u>Title</u>	<u>Duration</u>	<u>File Name</u>
Thursday					
28-Jan-10					
1:00 PM	Mark Nowell	Cisco	Agenda and General Information	0:45	agenda_01_1109.pdf
1:45 PM	Brad Booth	Applied Micro	802.3 standards development: lessons learned	0:35	booth_01_0110.pdf
2:20 PM	Zeng Li	Huawei	40G Serial Module technical requirement	0:30	li_01_0110.pdf
2:50 PM			Break	0:20	
3:10 PM	Atul Gupta	Inphi	40GE SMF PMD: RX Feasibility	0:20	gupta_01_0110.pdf
3:30 PM	Martin Carroll	Verizon	Carrier requirement for optical compatibility	0:20	carroll_01_0110.pdf
3:50 PM	Pete Anslow	Nortel	Optical link budget interoperability	0:20	anslow_02_0110.pdf
4:10 PM	Andrew Ambrose	Alcatel-Lucent	40 Gb/s Ethernet optimized for client applications in the carrier environment: BROAD MARKET POTENTIAL	0:30	ambrose_01_0110.pdf
4:40 PM	Jon Anderson	Opnext	40 Gb/s Ethernet optimized for client applications in the carrier environment: Technical feasibility	0:20	anderson_01_0110.pdf
5:00 PM	Pete Anslow	Nortel	40 Gb/s Ethernet optimized for client applications in the carrier environment: DISTINCT IDENTITY	0:20	anslow_01_0110.pdf
5:20 PM	Sam Sambasivan	AT&T	Economic feasibility	0:30	sambasivan_01_0110.pdf
5:50 PM	Stephen Trowbridge	Alcatel-Lucent	40 Gb/s Ethernet optimized for client applications in the carrier environment: COMPATIBILITY	0:20	trowbridge_01_0110.pdf
6:10 PM			Dinner break	1:35	
7:45 PM	John D'Ambrosia	Force10	Proposed Objectives	0:30	dambrosia_01_0110.pdf
8:15 PM			Discussion + Straw polls	1:00	
9:15 PM			Break		
Friday					
29-Jan-10					
9:00 AM	Mark Nowell	Cisco	Opening Comments	0:15	
9:15 AM			Objectives Discussion + Motions	0:30	
9:45 AM	Stephen Trowbridge	Alcatel-Lucent	40Gb/s Ethernet Single-mode Fibre PMD Study Group: Proposed 5-Criteria responses	0:30	trowbridge_02_0110.pdf
10:15 AM			Break	0:20	
10:35 AM			5 Criteria Discussion + Motions	1:00	
11:35 AM	John D'Ambrosia	Force10	Proposed PAR Responses	0:30	dambrosia_02_0110.pdf
12:05 PM			Lunch	1:00	
1:05 PM			PAR Discussion + Motions	0:30	
1:35 PM			Discussion, Motions, & Closing Business	0:30	
2:05 PM			Adjourn		

Note – Order of presentations and times listed are subject to change.

Liaisons

- No incoming liaisons at this time
- Informal communication to ITU-T

Future Meetings

- Future Meeting information at:
 - <http://ieee802.org/3/interims/index.html>
- March 2010 IEEE 802 Plenary
 - March 14 - 19
 - Caribe Royale Orlando All Suites Resort and Convention Center
 - Orlando, FL, USA
- May 2010 IEEE 802.3 Interim
 - May 24 – 28
 - Hosted by ITU
 - Geneva, Switzerland



Thank You!