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# **IEEE 802.3 40Gb/s SMF PMD Task Force**

Agenda and General Information

Geneva, Switzerland

May 2010

# Agenda

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- Welcome and Introductions
- Appoint/Volunteer Recording Secretary
- Approve Agenda
- Approve meeting minutes
- Goals for this Week
- Ground Rules
- Reflector and Web
- IEEE
  - Structure
  - Bylaws and Rules
  - Call for Patents
  - IEEE Standards Process
- Presentations
- Motions & Closing Business
- Future Meetings

# Study Group Decorum

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- 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

# 40GE SMF PMD Study group organization

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Chair: Mark Nowell ([mnowell@ieee.org](mailto:mnowell@ieee.org))

Web Master: John D'Ambrosia ([jdambrosia@ieee.org](mailto:jdambrosia@ieee.org))

Recording Secretary: TBD

Editor: Pete Anslow ([panslow@ciena.com](mailto:panslow@ciena.com))

# Goals for the Week

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- Our first meeting as a Task Force
  - Review project schedule
  - Review technical presentations
  - Review proposed baseline text (non-technical)
  - Evaluate any proposals – adopt?

# Ground Rules

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- 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

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- To subscribe to the IEEE 802.3 40GE SMF PMD Task Force 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 Task Force reflector messages to:  
***STDS-802-3-40GSMF@listserv.ieee.org***
- Task Force web page URL:  
***<http://grouper.ieee.org/groups/802/3/bg/index.html>***
- Study Group material archived at:  
***<http://grouper.ieee.org/groups/802/3/40GSMF/index.html>***

# IEEE P802.3ba Private Area

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- URL: <http://www.ieee802.org/3/bg/private/>
  - Username: 802.3bg
  - Password: \*\*\*\*\*
- Write it down...
- Note - Any drafts are posted for your review only, and neither the draft nor access information should be copied or redistributed to others in violation of document copyrights.



# Task Force Approved Project Documents

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- PAR

- [http://grouper.ieee.org/groups/802/3/40GSMF/40GESMF\\_SG\\_PAR\\_0110.pdf](http://grouper.ieee.org/groups/802/3/40GSMF/40GESMF_SG_PAR_0110.pdf)

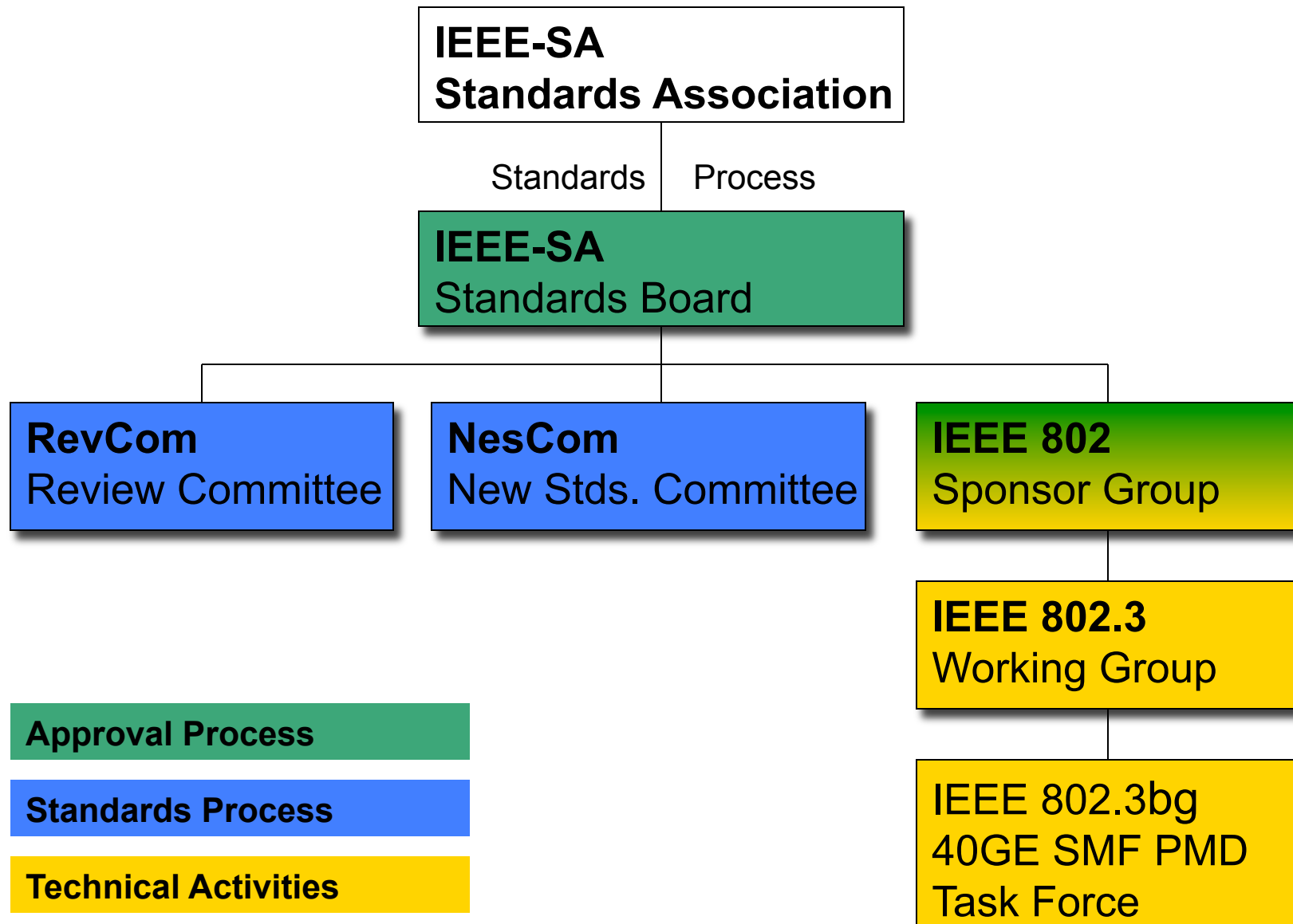
- 5 Criteria

- [http://grouper.ieee.org/groups/802/3/40GSMF/40GESMF\\_SG\\_5C\\_responses\\_0110.pdf](http://grouper.ieee.org/groups/802/3/40GSMF/40GESMF_SG_5C_responses_0110.pdf)

- Objectives

- [http://grouper.ieee.org/groups/802/3/40GSMF/40GESMF\\_SG\\_Objectives\\_0110.pdf](http://grouper.ieee.org/groups/802/3/40GSMF/40GESMF_SG_Objectives_0110.pdf)

# IEEE Structure



# Bylaws and Rules

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- **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](http://standards.ieee.org/board/aud/LMSC_2009.pdf)
- **IEEE 802 LAN/MAN Standards Committee (LMSC) Operations Manual:**
  - [http://www.ieee802.org/PNP/2009-11/LMSC\\_OM\\_approved\\_091120\\_rev\\_100213.pdf](http://www.ieee802.org/PNP/2009-11/LMSC_OM_approved_091120_rev_100213.pdf)
- **IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG) Policies and Procedures:**
  - [http://www.ieee802.org/PNP/2009-11/LMSC\\_WG\\_PandP\\_approved\\_091120\\_rev\\_100213.pdf](http://www.ieee802.org/PNP/2009-11/LMSC_WG_PandP_approved_091120_rev_100213.pdf)
- **IEEE 802.3 Working Group Operating Rules:**
  - [http://ieee802.org/3/rules/P802\\_3\\_rules.pdf](http://ieee802.org/3/rules/P802_3_rules.pdf)

# Participants, Patents, and Duty to Inform

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All participants in this meeting have certain obligations under the IEEE-SA Patent Policy. Participants:

- “Shall inform the IEEE (or cause the IEEE to be informed)” of the identity of each “holder of any potential Essential Patent Claims of which they are personally aware” if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
  - “Personal awareness” means that the participant “is personally aware that the holder may have a potential Essential Patent Claim,” even if the participant is not personally aware of the specific patents or patent claims
- “Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of such potential Essential Patent Claims” (that is, third parties that are not affiliated with the participant, with the participant’s employer, or with anyone else that the participant is from or otherwise represents)
- The above does not apply if the patent claim is already the subject of an Accepted Letter of Assurance that applies to the proposed standard(s) under consideration by this group

Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2

- Early identification of holders of potential Essential Patent Claims is strongly encouraged
- No duty to perform a patent search

# Patent Related Links

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All participants should be familiar with their obligations under the IEEE-SA Policies & Procedures for standards development.

Patent Policy is stated in these sources:

IEEE-SA Standards Boards Bylaws

*<http://standards.ieee.org/guides/bylaws/sect6-7.html#6>*

IEEE-SA Standards Board Operations Manual

*<http://standards.ieee.org/guides/opman/sect6.html#6.3>*

Material about the patent policy is available at

*<http://standards.ieee.org/board/pat/pat-material.html>*

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at [patcom@ieee.org](mailto:patcom@ieee.org) or visit <http://standards.ieee.org/board/pat/index.html>

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

# Call for Potentially Essential Patents

- If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance:
  - Either speak up now or
  - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible or
  - Cause an LOA to be submitted

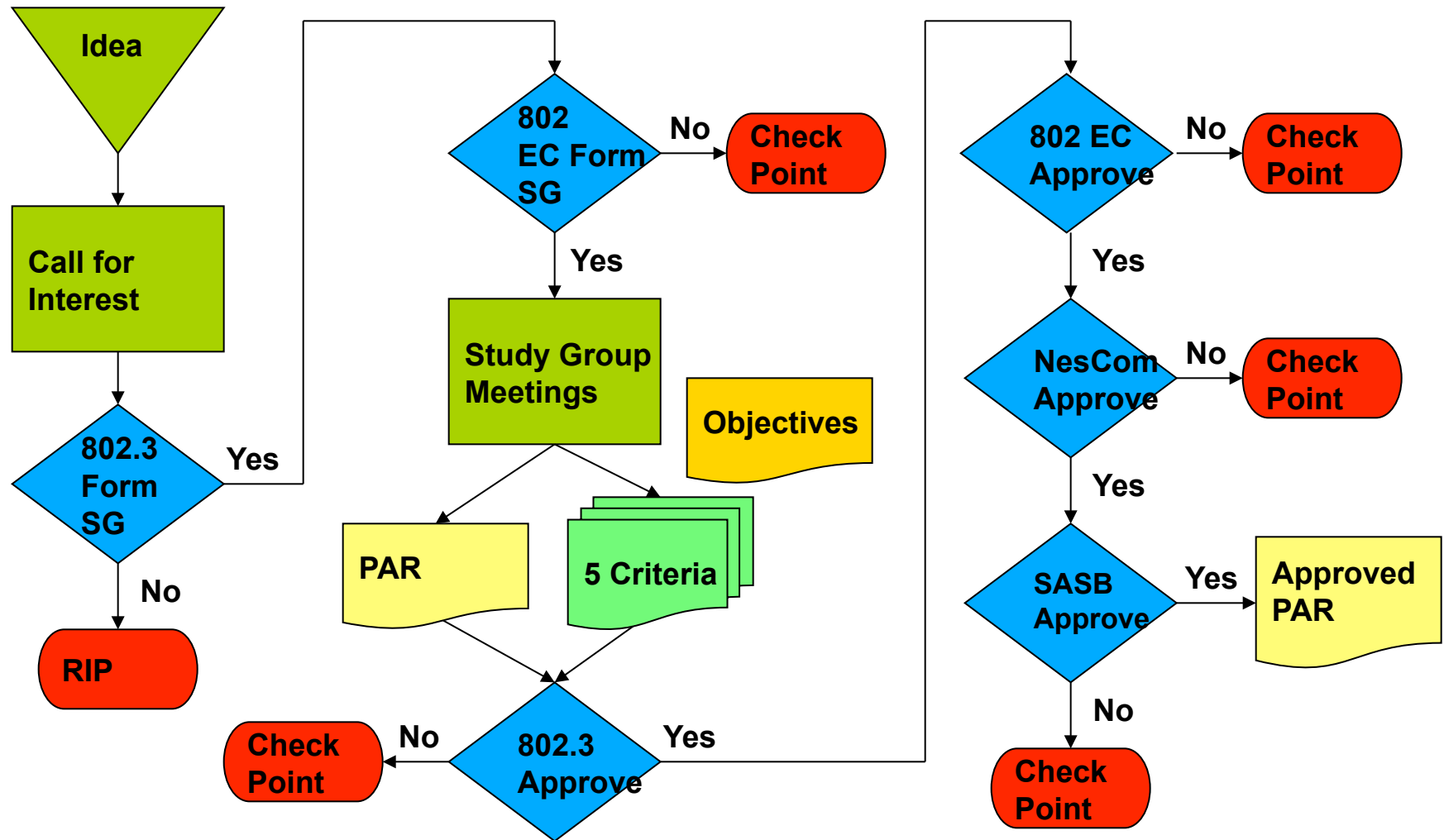
# Other Guidelines for IEEE WG Meetings

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- **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.**

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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.

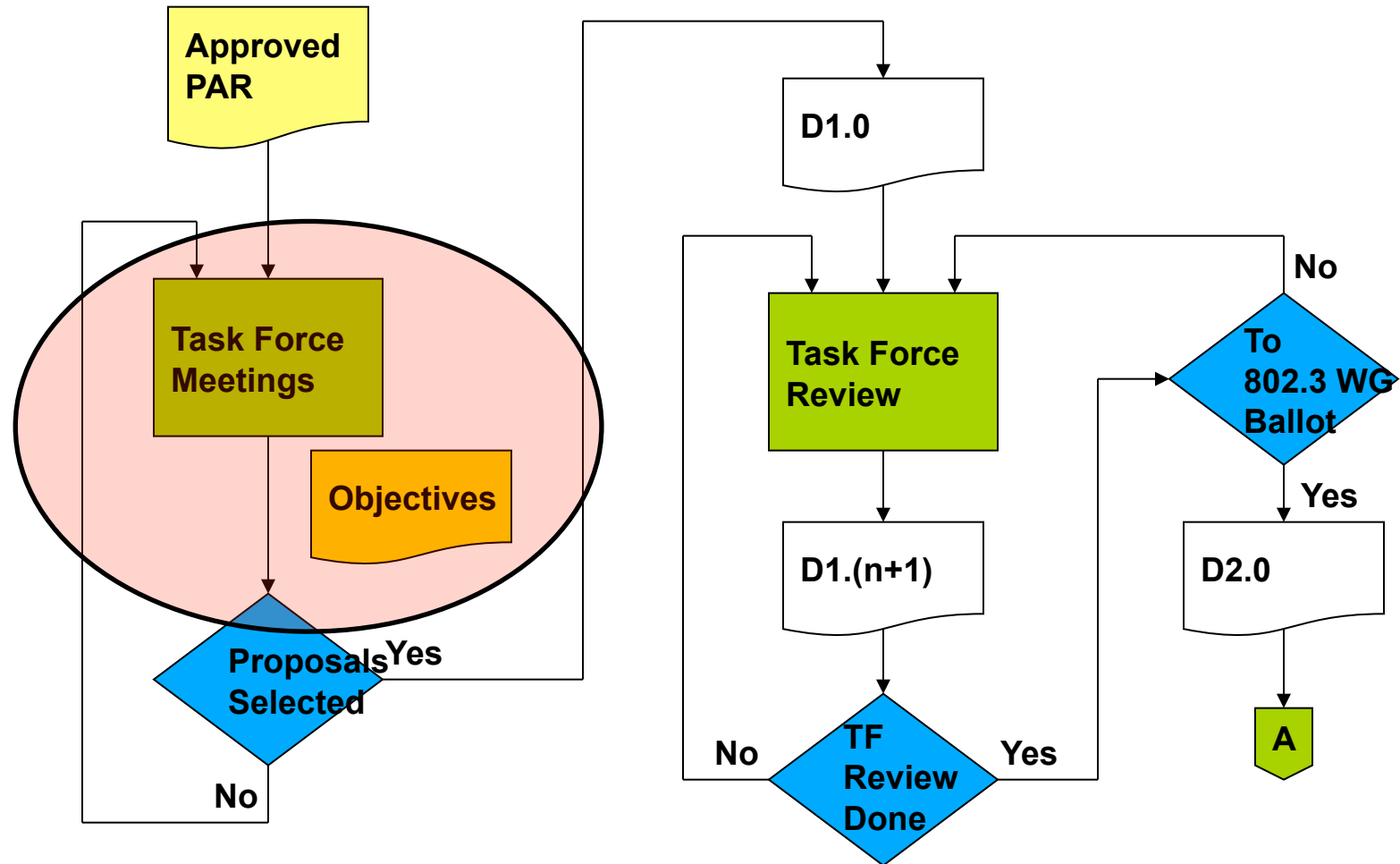
# Overview of IEEE 802.3 Standards Process (1/5)- Study Group Phase



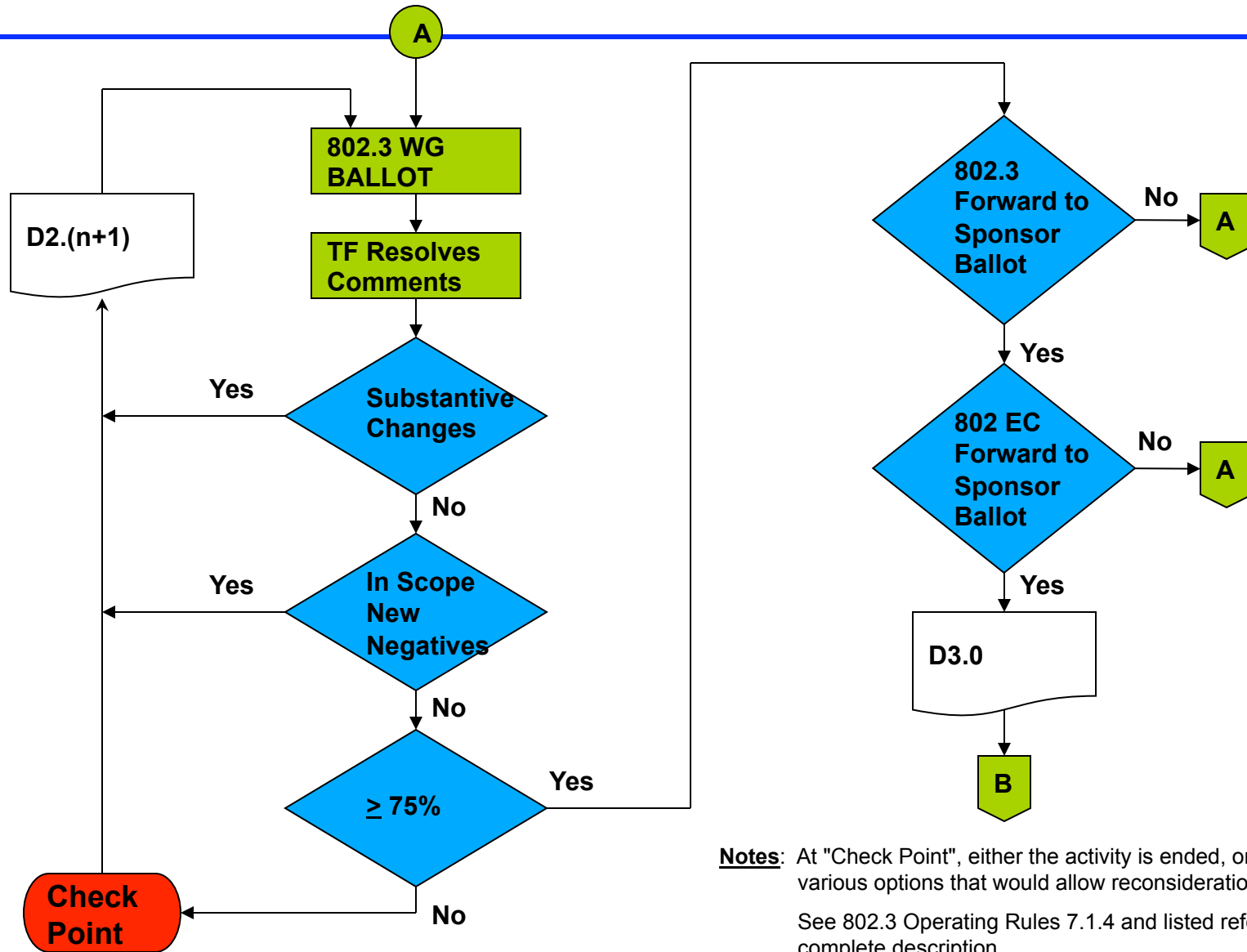
Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.



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

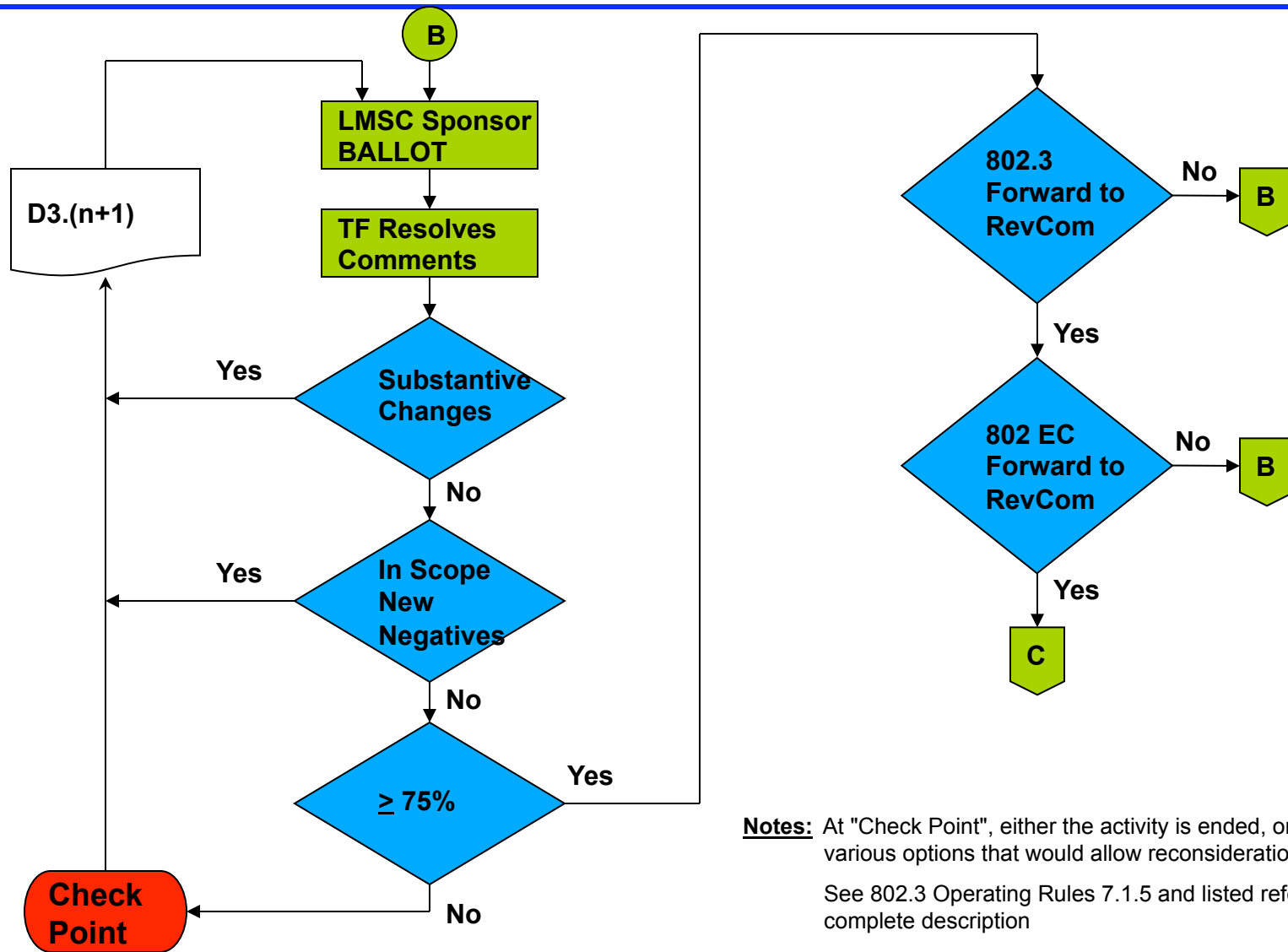


# Overview of IEEE 802.3 Standards Process (3/5) - Working Group Ballot Phase



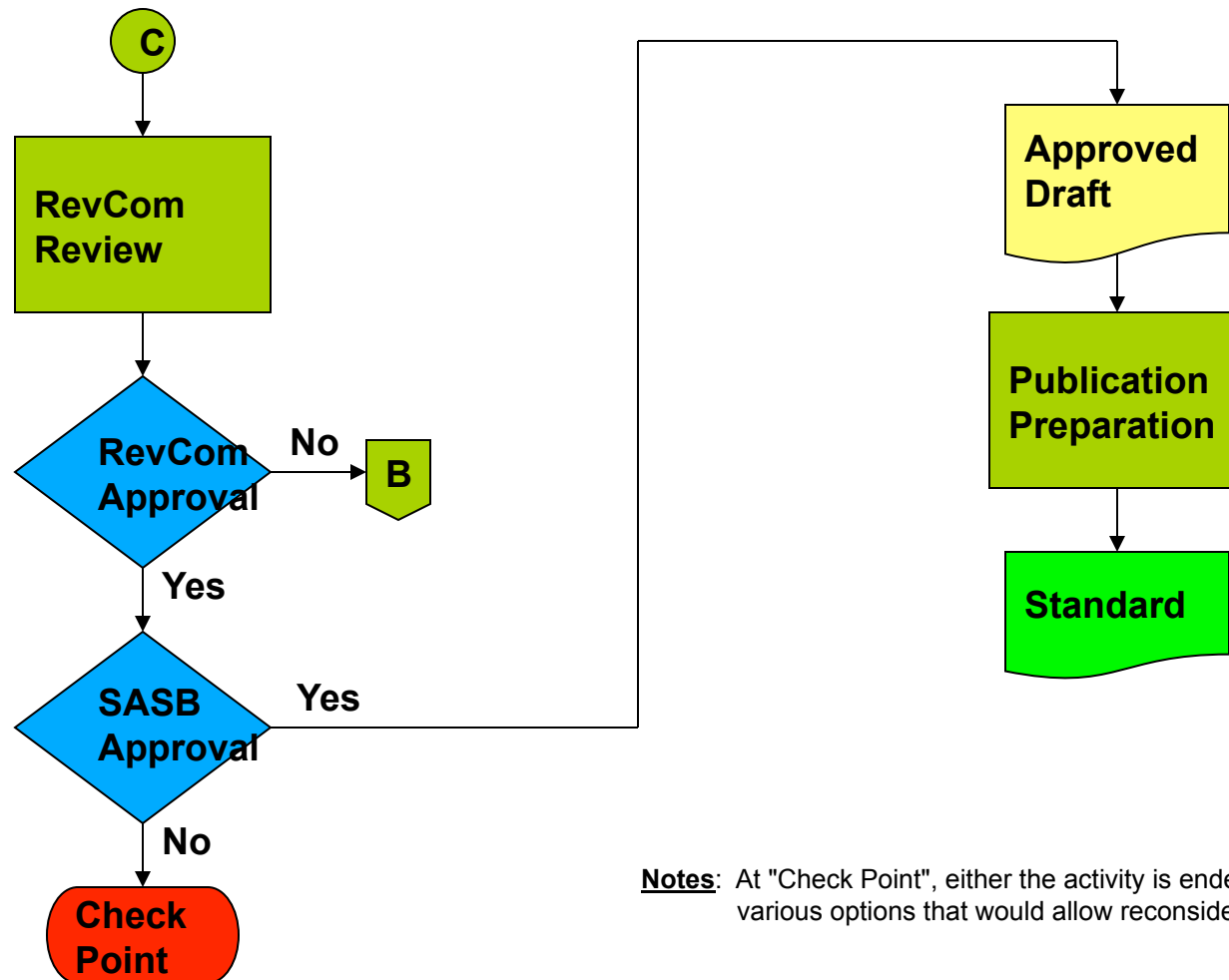
**Notes:** At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval. See 802.3 Operating Rules 7.1.4 and listed references for complete description

# 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.

# Voting privileges

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The rules regarding obtaining and maintaining that privilege are found here:  
<http://www.ieee802.org/3/rules/member.html>

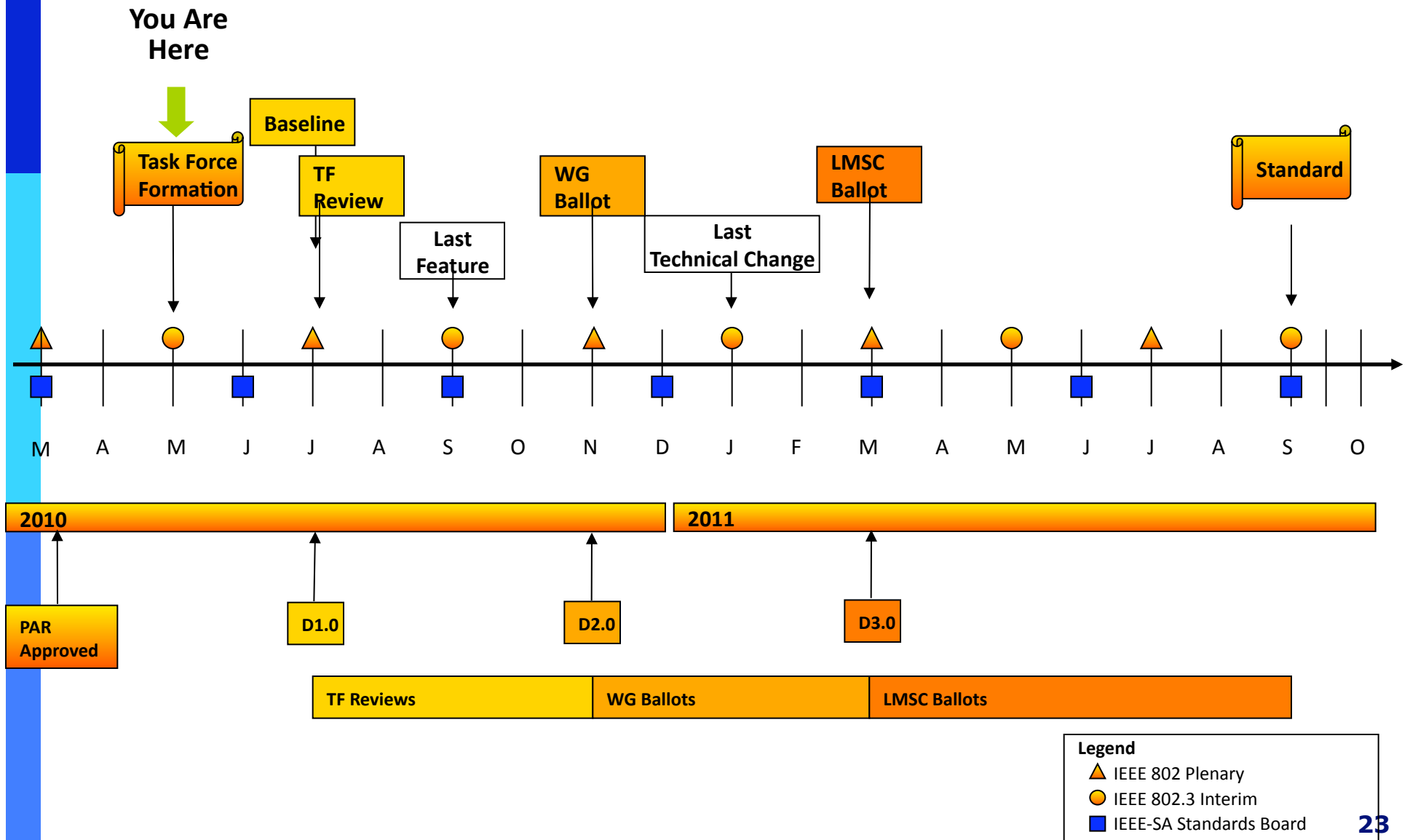
- To become a voter:
  - Complete and current contact information recorded in the Working Group 802.3 database.
  - You must attend and sign attendance book for at least 75% of sessions of two 802.3 WG plenary meetings (within the last four)
    - Full attendance at a two-day 802.3 WG Interim can be substituted for one Plenary
  - Request to become a voter during the opening or closing Plenary meeting when solicited by the Chair from the “potential voters list”
- To remain a voter
  - Maintain Complete and current contact information in the Working Group 802.3 database.
  - Have 75% attendance during at least two of the last four plenaries
    - Attendance at an interim can substitute for attendance at no more than 1 plenary
  - Participate in Working Group ballots. You can be dropped for lack of participation !

# Objectives

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- Preserve the IEEE 802.3 / Ethernet frame format utilizing the IEEE 802.3 MAC
- Preserve minimum and maximum FrameSize of current IEEE 802.3 standard
- Support a BER better than or equal to  $10^{-12}$  at the MAC/PLS service interface
- Support a MAC data rate of 40 Gb/s
- Use the 40GBASE-R PCS and PMA
- Use only existing electrical and logical interfaces from IEEE Std 802.3 as modified by IEEE P802.3ba
- Provide Physical Layer specification which support 40 Gb/s operation over at least 2 km on SMF.
- Provide optical compatibility with existing carrier 40Gb/s client interfaces (OTU3/STM-256/OC-768/40G POS).

# IEEE P802.3bg Task Force Timeline



# Presentation agenda

<u>Time</u>	<u>Presenter</u>	<u>Affiliation</u>	<u>Title</u>	<u>Duration</u>	<u>File Name</u>
9:00 AM	Mark Nowell	Cisco	Agenda and General Information	0:45	agenda_01_0510.pdf
9:45 AM	Zeng Li	Huawei	40GE PMD target	0:30	li_01_0510.pdf
10:15 AM	Pete Anslow	Ciena	Operation of existing 40G serial at 1310 nm	0:30	anslow_01_0510.pdf
10:45 AM			<b>Break</b>	0:20	
11:05 AM	Jon Anderson	Opnext	Proposal for 1310nm 40GbE SMF PMD	0:30	anderson_01_0510.pdf
11:35 AM	Jonathan King	Finisar	Wavelength and reach choices	0:30	king_01_0510.pdf
12:05 PM			<b>Lunch break</b>	1:25	
1:30 PM	Pete Anslow	Ciena	Optical power budgets	0:20	anslow_03_0510.pdf
1:50 PM	Norbert Folkens	JDSU	Jitter Testing Considerations	0:25	folkens_01_0510.pdf
2:15 PM	Song Shang	Semtech	Comment on Receiver Jitter Tolerance	0:25	shang_02_0510.pdf
2:40 PM	Song Shang	Semtech	In Module Deskew Function and Budget	0:25	shang_01_0510.pdf
3:05 PM			<b>Break</b>	0:20	
3:25 PM			Discussion + Straw polls	1:30	
4:55 PM			<b>Break</b>		

<u>Time</u>	<u>Presenter</u>	<u>Affiliation</u>	<u>Title</u>	<u>Duration</u>	<u>File Name</u>
9:00 AM	Mark Nowell	Cisco	Opening Comments	0:15	
9:15 AM	John D'Ambrosia	Force10	Thoughts on Naming the New PMD	0:20	dambrosia_01_0510.pdf
9:35 AM	Pete Anslow	Ciena	Proposed draft of P802.3bg	1:00	anslow_02_0510.pdf
10:35 AM			<b>Break</b>	0:25	
11:00 AM			Discussions + Motions	1:00	
12:00 PM			<b>Lunch</b>	1:30	
1:30 PM			Discussions + Motions		
			<b>Adjourn</b>		



# Future Meetings

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- Future Meeting information at:
  - <http://www.ieee802.org/meeting/index.html>
- July 2010 IEEE 802.3 Plenary
  - July 11-16
  - San Diego, Ca - Manchester Grand Hyatt



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**Thank You!**