

# Agenda and General Information

IEEE 802.3cc

## **Serial 25 Gb/s Ethernet Operation Over Single-Mode Fiber Task Force**

David Lewis, Lumentum

Whistler, British Columbia, May 24th, 2016

# Agenda

- Appointment Recording Secretary
- Approve Agenda
- Chair Election
- Welcome and Introductions
- ~~Approve Minutes~~
- Ground Rules
- Reflector and Web
- IEEE
  - Structure, Bylaws and Rules
  - Call for Patents
  - IEEE Standards Process
- Goals for this meeting
- Big Ticket Items
- Presentations
- Motions and Closing Business
- Future Meetings

# P802.3cc Task Force organization

- Chair: David Lewis, Lumentum
- Recording Secretary: Kohichi Tamura, Oclaro
- Chief Editor: TBD
- Ad hoc Chair: Peter Jones, Cisco

# Task Force Decorum



- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (December 2013 IEEE-SA Standards Board Ops Manual 5.3.3.5)
- Photography or recording by permission only (December 2013 IEEE-SA Standards Board Ops Manual 5.3.3.4)
- Cell phone ringers off
- 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

# Reflector and Web

- To subscribe to the 25Gb/s Ethernet over Single-Mode Fiber Task Force reflector, send an email to:

**ListServ@ieee.org**

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

***subscribe stds-802-3-25GSMF <yourfirstname> <yourlastname>  
end***

- Send 25Gb/s Ethernet over Single-Mode Fiber reflector messages to:

***stds-802-3-25GSMF@listserv.ieee.org***

- Task Force web page URL:

**<http://www.ieee802.org/3/cc/index.html>**

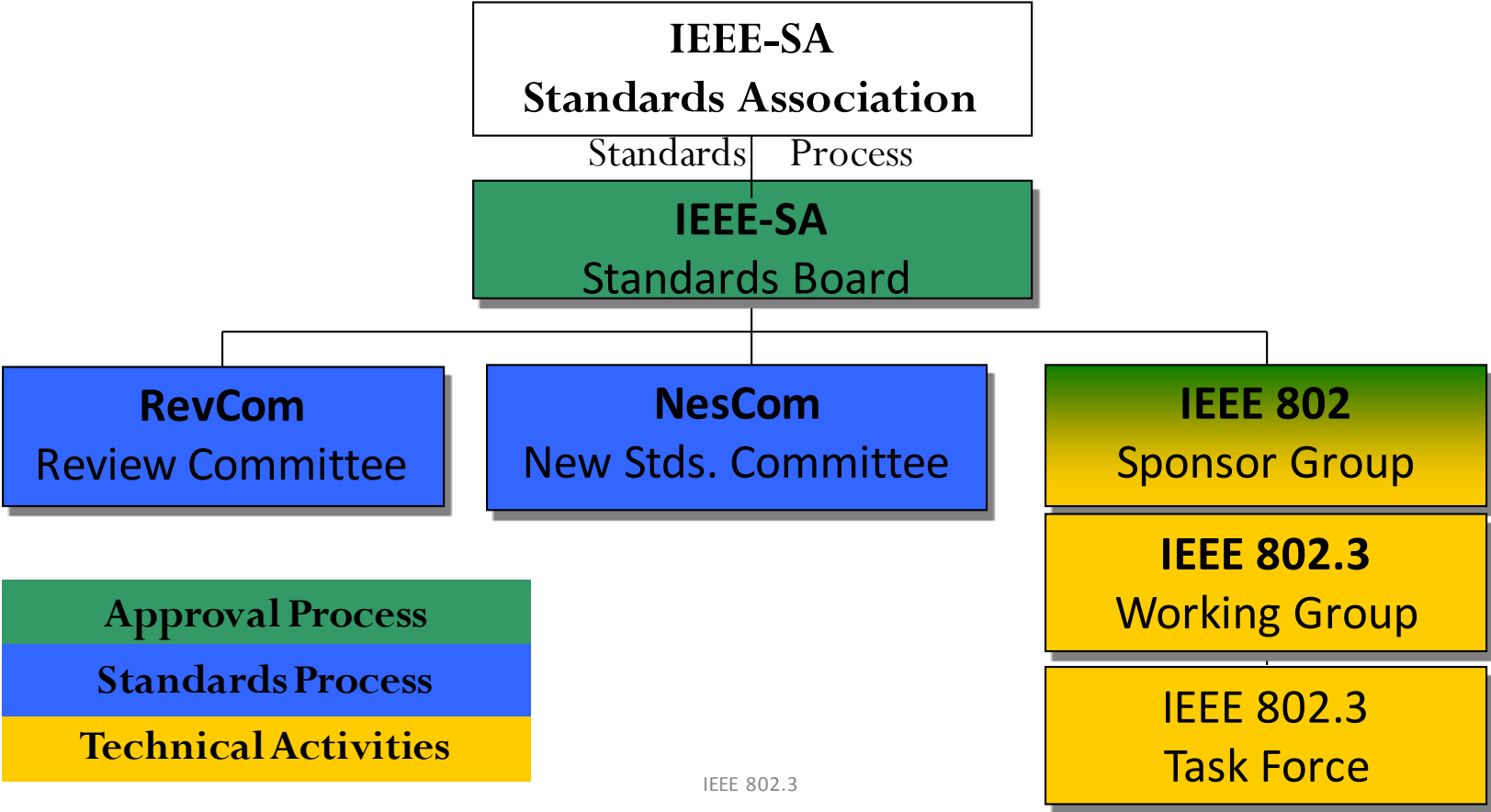
# Ground Rules

- 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

# Attendance

- Tutorial Material on attendance tool
  - [http://ieee802.org/3/minutes/attendance\\_procedures.pdf](http://ieee802.org/3/minutes/attendance_procedures.pdf)
- Access details
  - URL: <http://imat.ieee.org/>
  - Use your imat login
    - (must be on meeting SDID – no VPN)

# IEEE Structure





# Important Bylaws and Rules

- **IEEE-SA Operations Manual**  
[http://standards.ieee.org/develop/policies/sa\\_opman/](http://standards.ieee.org/develop/policies/sa_opman/)
- **IEEE-SA Standards Board Bylaws**  
<http://standards.ieee.org/develop/policies/bylaws/>
- **IEEE-SA Standards Board Operations Manual**  
<http://standards.ieee.org/develop/policies/opman/>
- **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/devdocs.shtml>
- **IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG) Policies and Procedures**  
<http://www.ieee802.org/devdocs.shtml>
- **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

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

- Participants [Note: Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2]:
  - “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
  - “Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of 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
- Early identification of holders of potential Essential Patent Claims is strongly encouraged
- No duty to perform a patent search

# Patent Related Links

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/develop/policies/bylaws/sect6-7.html#6>*

IEEE-SA Standards Board Operations Manual

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

Material about the patent policy is available at

*<http://standards.ieee.org/about/sasb/patcom/materials.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/about/sasb/patcom/index.html>

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

# Call for Potentially Essential Patents

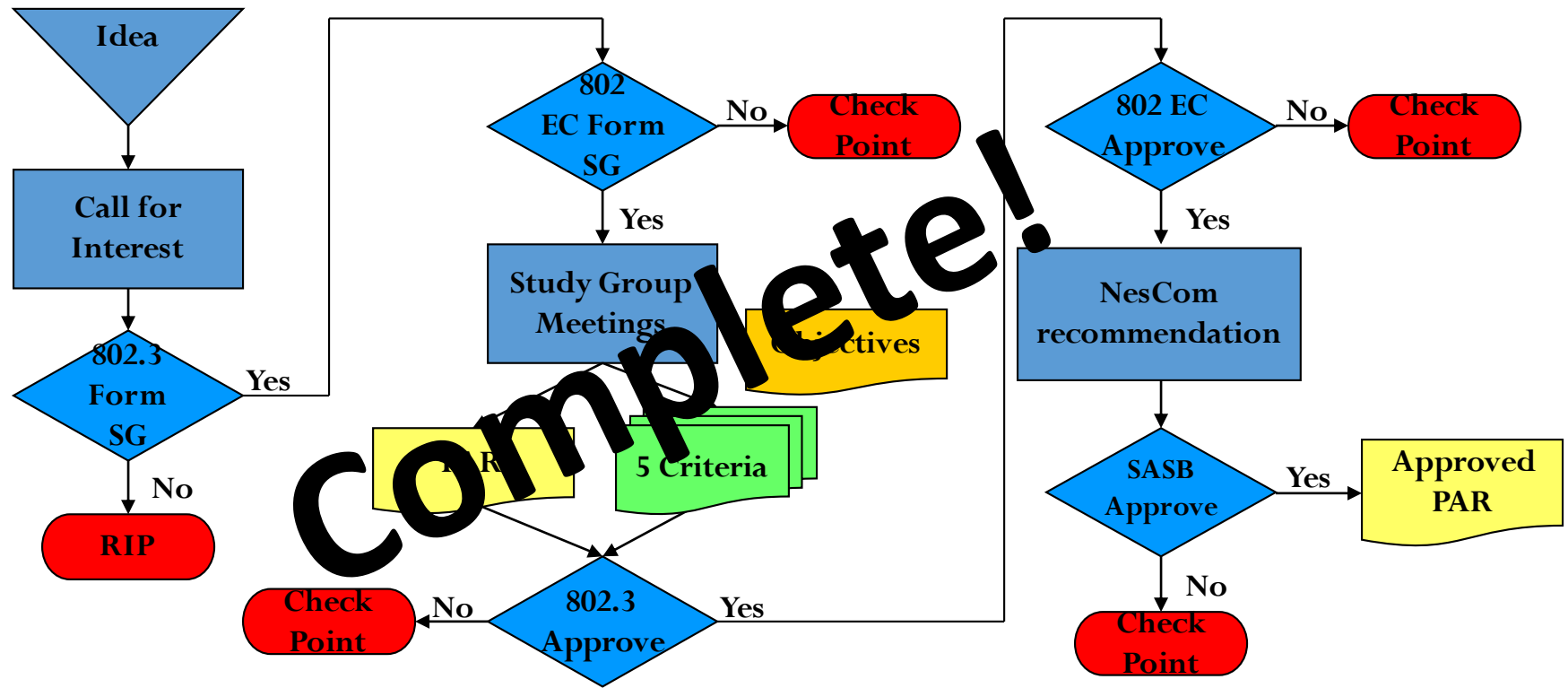
- If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance:
  - Either speak up now or
  - Provide 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

- **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.**

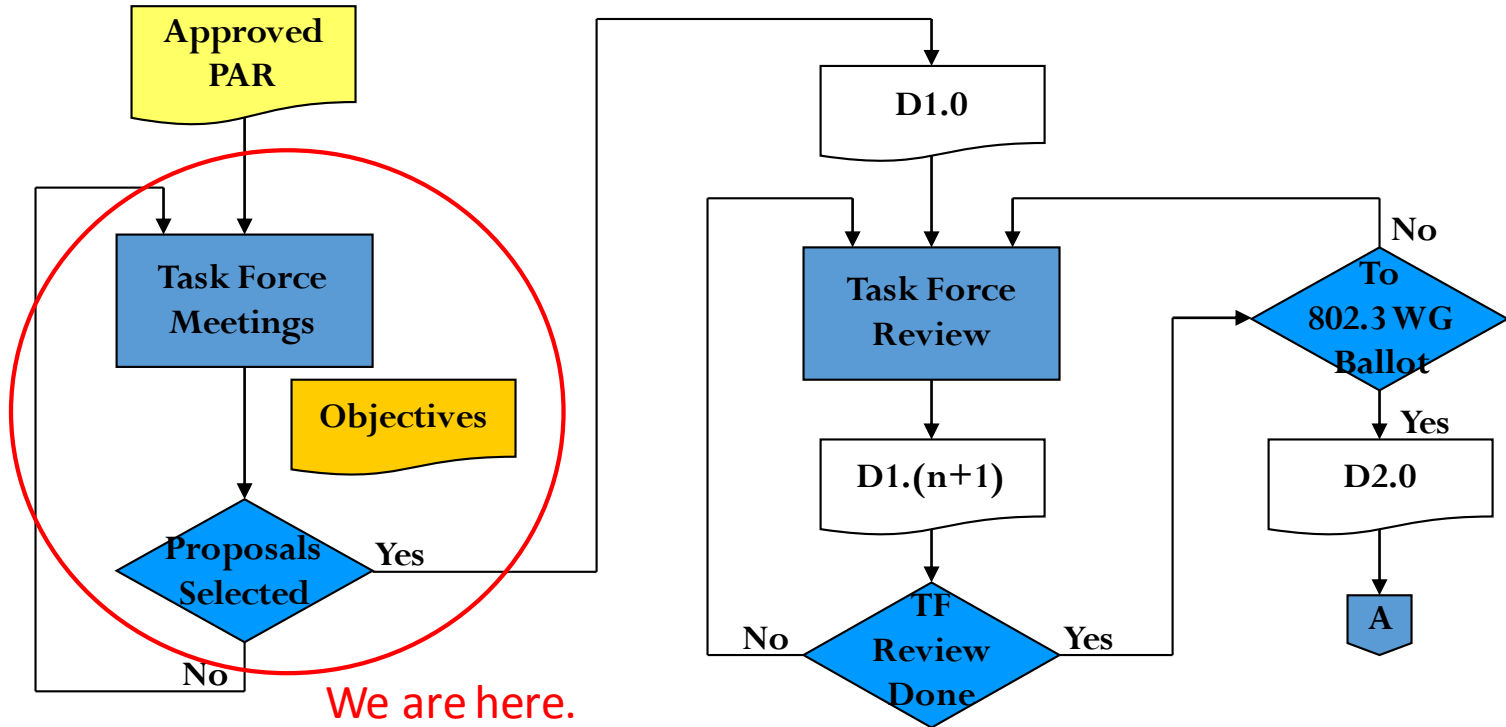
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See *IEEE-SA StandardsBoard OperationsManual*, clause 5.3.10 and "Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy" for more details.

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

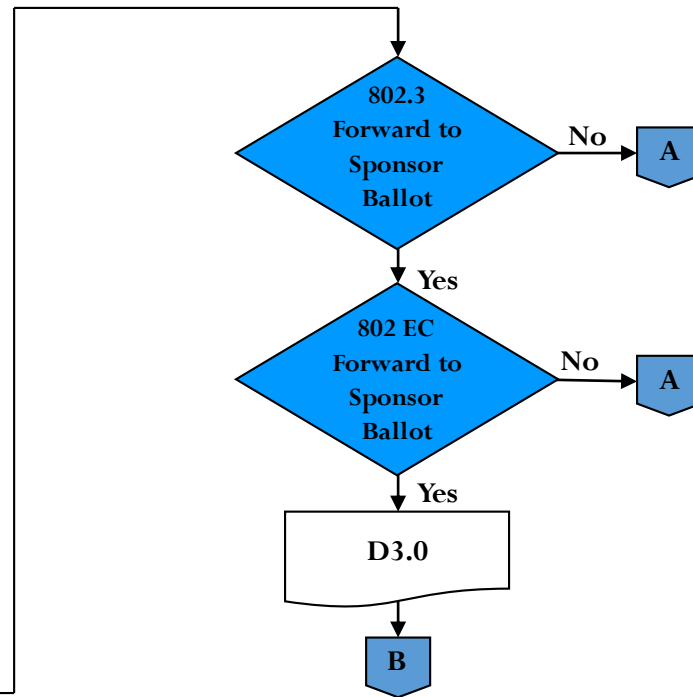
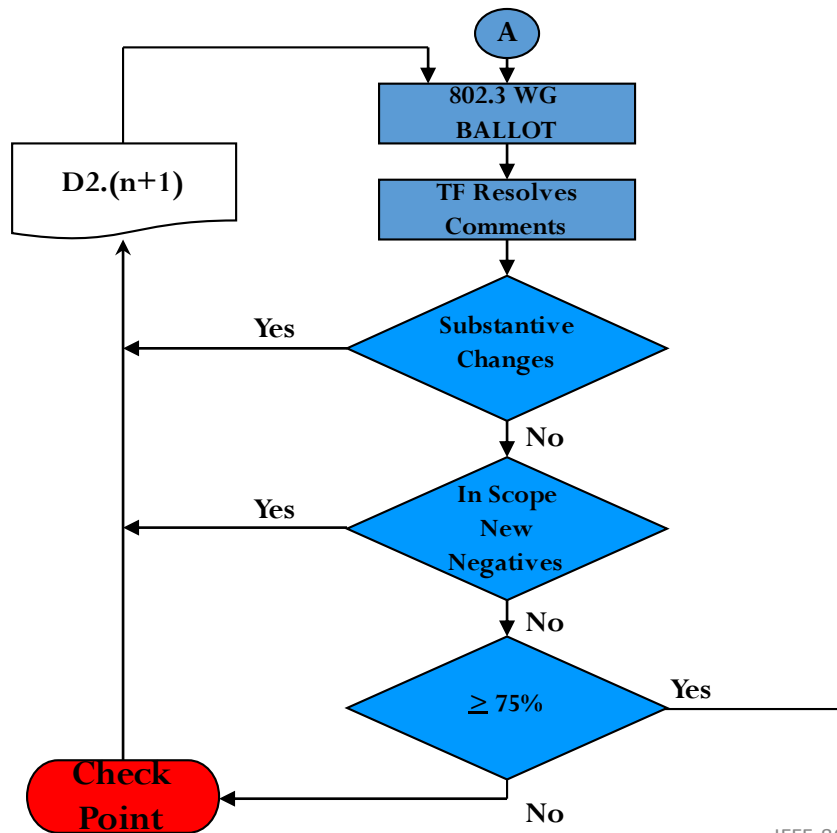


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

# 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

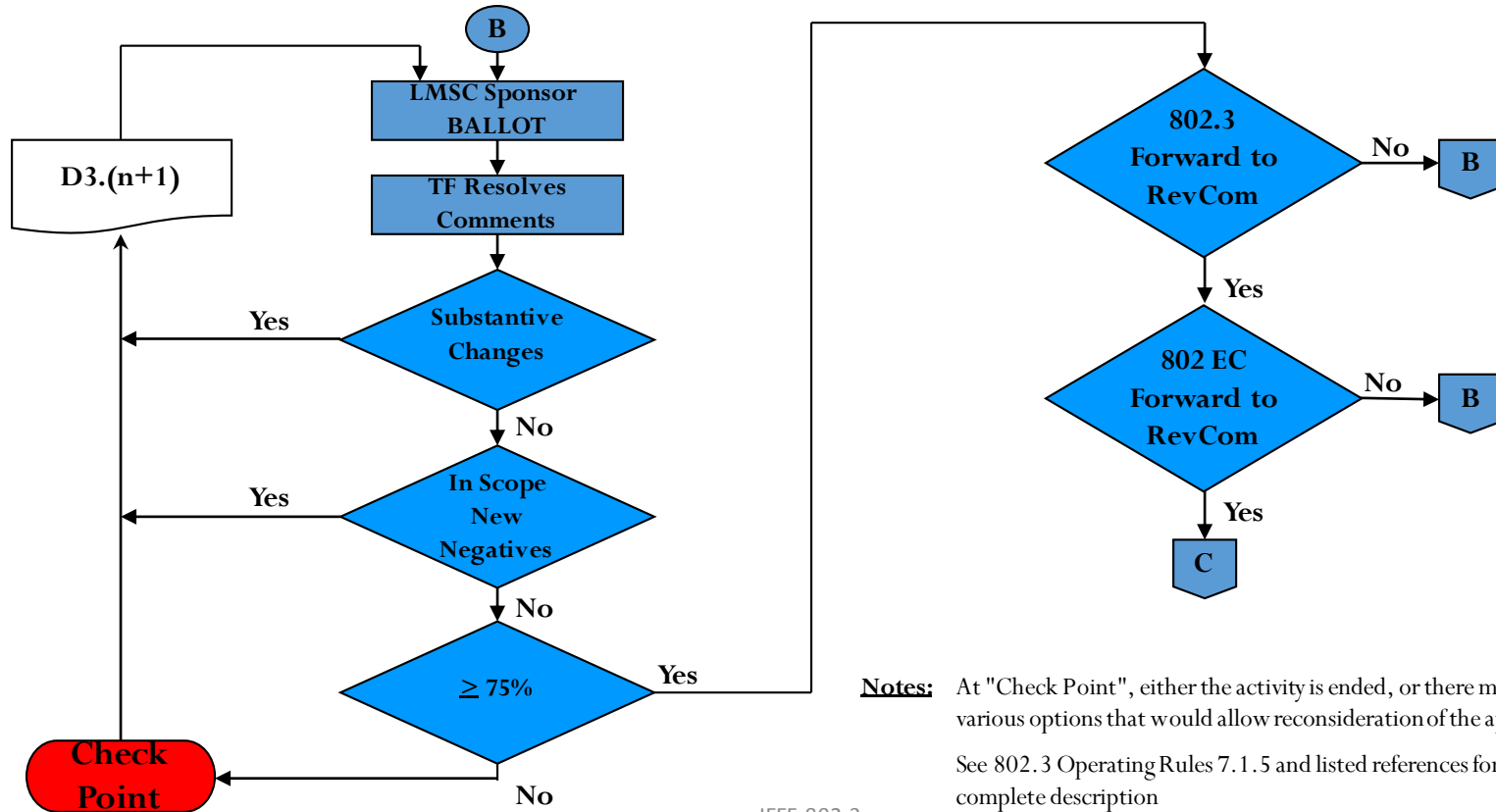


**Notes:** At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

See 802.3 Operating Rules 7.1.4 and listed references for complete description

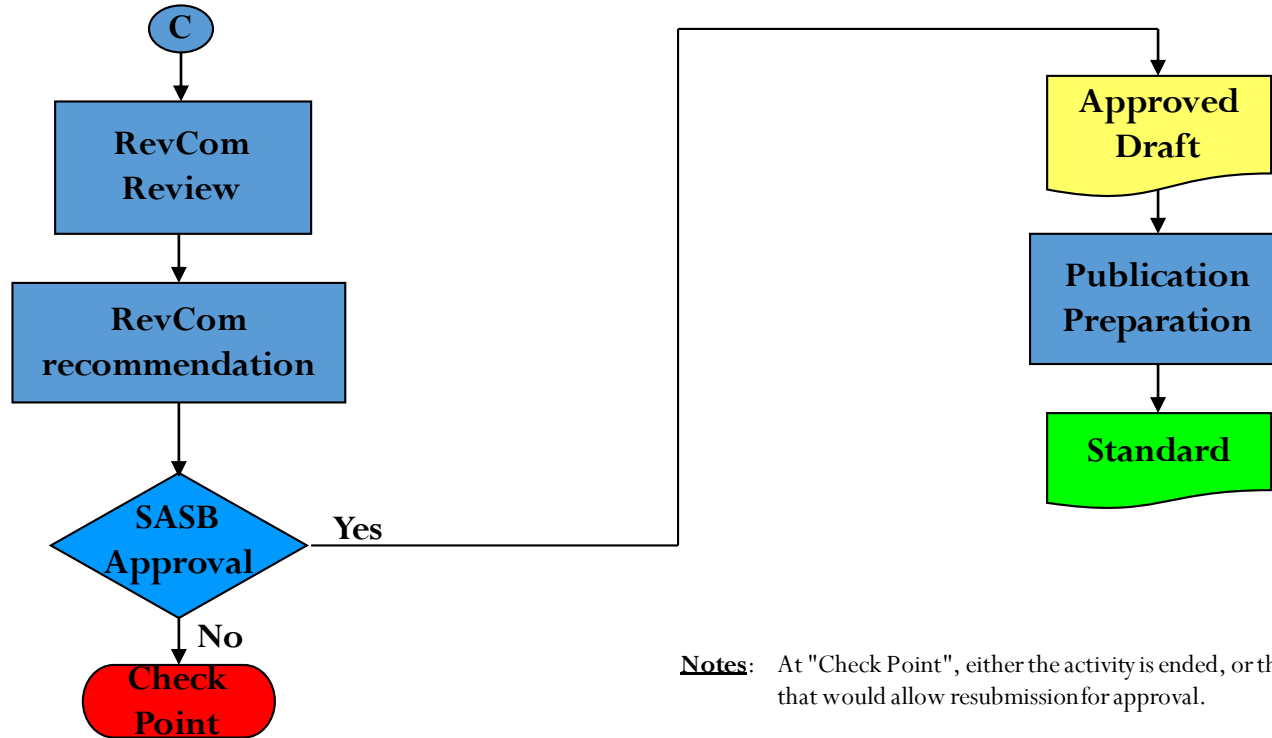


# Overview of IEEE 802.3 Standards Process (4/5)- Sponsor Ballot Phase



**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 resubmission for approval.

# IEEE P802.3cc 25 Gb/s Ethernet over Single-Mode Fiber Task Force Approved Project Documents

- PAR
  - [http://www.ieee802.org/3/25GSMF/P802\\_3cc\\_PAR\\_180316.pdf](http://www.ieee802.org/3/25GSMF/P802_3cc_PAR_180316.pdf)
- CSD
  - [http://www.ieee802.org/3/cc/P802\\_3cc\\_CSD.pdf](http://www.ieee802.org/3/cc/P802_3cc_CSD.pdf)
- Objectives
  - [http://www.ieee802.org/3/cc/P802\\_3cc\\_Objectives.pdf](http://www.ieee802.org/3/cc/P802_3cc_Objectives.pdf)
- Timeline
  - TBD

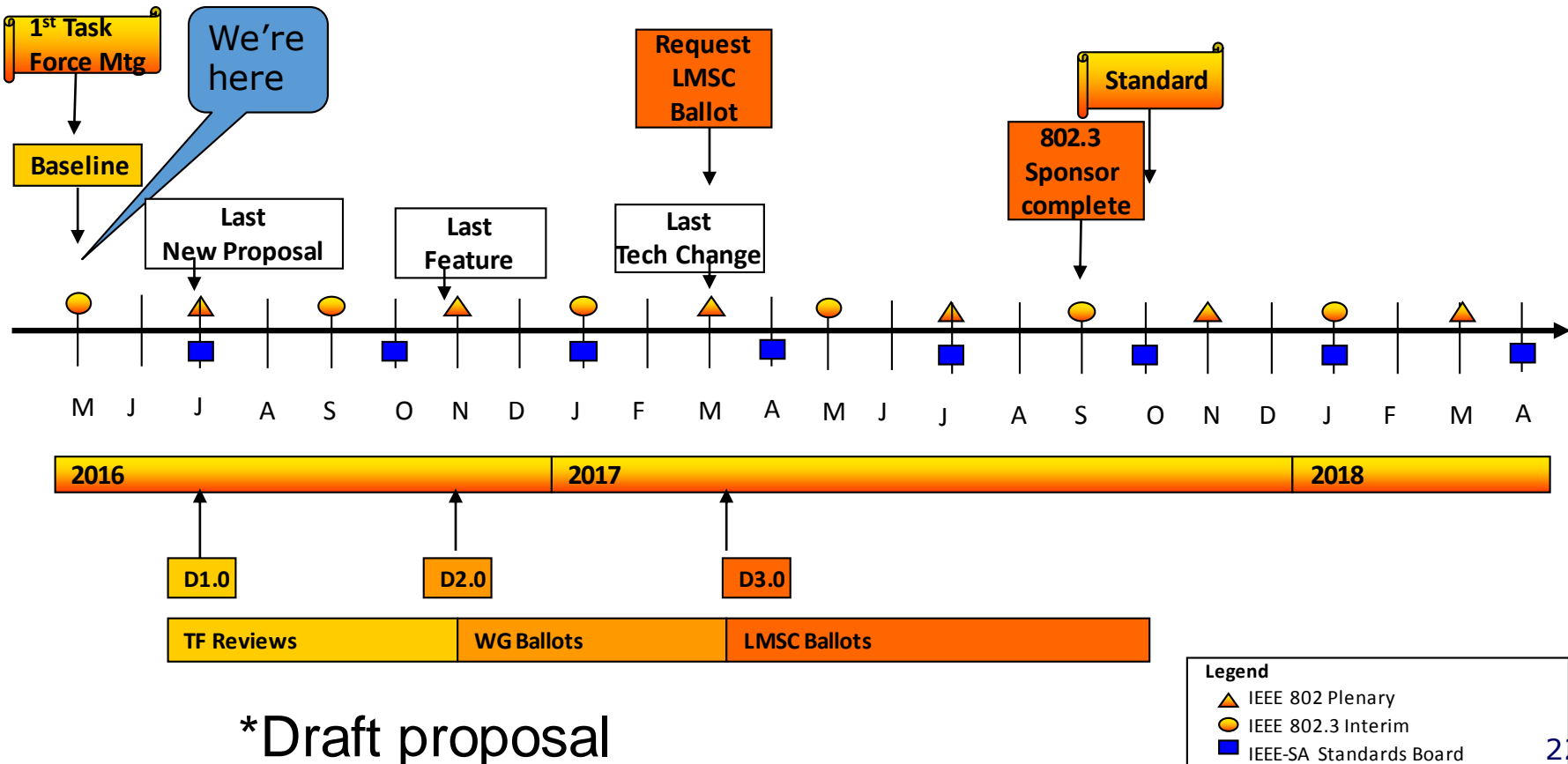
# IEEE P802.3cc 25Gb/s Ethernet over Single-Mode Fiber TF Objectives

- Support a MAC data rate of 25Gb/s
- Support full-duplex operation only
- Preserve the Ethernet frame format utilizing the Ethernet MAC
- Preserve minimum and maximum Frame Size of current IEEE 802.3 standard
- Support a BER of better than or equal to  $10^{-12}$  at the MAC/PLS service interface (or the frame loss ratio equivalent)
- Support optional Energy-Efficient Ethernet operation
- Provide physical layer specification which support 25 Gb/s operation over at least 10 km onSMF
- Provide physical layer specification which support 25 Gb/s operation over at least 40 km onSMF
- Provide appropriate support for OTN

# Goals for the meeting

- Our first meeting as a Task Force
  - Review project schedule
  - Review technical presentations
  - Evaluate baseline proposals – adopt?

# IEEE P802.3cc Task Force Timeline\*



\*Draft proposal

# Presentations – Tues May 24th

Tuesday	<u>Time</u>	<u>Presenter</u>	<u>Affiliation</u>	<u>Title</u>	<u>File Name</u>	<u>Duration</u>
24-May-16	9:00 AM	David Lewis	Lumentum	Agenda and General Information	agenda_3cc_01_0516.pdf	1:00
	10:00 AM	Peter Jones	Cisco	Ad Hoc Report	jones_3cc_01_0516.pdf	0:20
	10:20 AM	<b>Break</b>				
	10:45 AM	Tom McDermott	Fujitsu	Baseline Proposal - Electrical, RS, PCS, PMA, FEC	mcdermott_3cc_01a_0516.pdf	0:25
	11:10 AM	Kohichi Tamura	Oclaro	25GbE SMF 10km/40km Baseline Proposal	tamura_3cc_01_0516.pdf	0:25
	11:35 AM	Kohichi Tamura	Oclaro	TDP and TDEC for 25GbE SMF	tamura_3cc_02_0516.pdf	0:25
	12:00 PM	<b>Lunch</b>				
	1:00 PM	Discussion, Straw Polls & Motions				2:00
	3:00 PM	<b>Adjourn</b>				

Note – Times listed are subject to change.

Updated versions will be captured with new filename versions

# Ad hoc charter

## Ad-hoc meeting plans

Single on-going weekly meetings, all topics (will cycle) – agendas will be published.  
90 mins.

Wed. 2-3:30 Pacific proposed

## Updated Charter

The charter of the 25 Gb/s Ethernet over Single-Mode Fiber Task Force Ad Hoc is to address all issues in relation to the optical PMDs to ensure progress towards a technically complete draft.



# Future Meetings & Ad hocs

- Ad-hoc meeting plans
  - Single on-going weekly meetings, all topics–agendas will be published. 90 mins.
  - Wed 2-3:30 Pacific proposed
- See: <http://www.ieee802.org/3/cc/public/adhoc/index.shtml>
- July 2016 Plenary
  - San Diego, CA
  - July 25-28<sup>th</sup>, 2016
- Sept 2016 Interim
  - Ft. Worth, TX
  - Week of Sept 12<sup>th</sup>, 2016
- Nov 2016 Plenary
  - San Antonio, TX
  - Nov 7-10<sup>th</sup>, 2016
- Anyone interested in hosting a interim meeting contact me or the IEEE 802.3 Executive Secretary [Steve Carlson](#).

# Thank You!