Agenda and General Information

IEEE P802.3bm

40 Gb/s and 100 Gb/s Fiber Optic

Task Force

Dan Dove

Dove Networking Solutions

Affiliated with Huawei

San Diego, CA USA – 15 July 2014

Agenda

- Welcome and Introductions
- Appointment of Secretary
- Approve Agenda
- Delay approval of Minutes of July Co-Located Interim Meeting until September 2014
- Reflector and Web
- Ground Rules
- IEEE
    - Structure, Bylaws and Rules
    - Call for Patents
    - IEEE Standards Process
- Liaisons and Communications
- Review of Action Items from July Co-Located Interim Meeting
- Discuss Goals for this meeting
    - Brief time to allow for additional comment resolution if required
- No Ad Hoc Reports
- Possible time for Comment Resolution (Led by Pete Anslow, Chief Editor)
- Motions, Discussions and Closing Business
- Future Meetings

Task Force Decorum

- Photography or recording by permission only (2012 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

Reflector and Web

- To subscribe to the *Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet* reflector, send an email to: **_ListServ@ieee.org_**

  with the following in the body of the message (do not include "<>"):
  - **subscribe stds-802-3-100Goptx <yourfirstname> <yourlastname>**
  - *end*

- Send *Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet* reflector messages to:
  - ***STDS-802-3-100Goptx@LISTSERV.IEEE.ORG***

- Task Force web page URL:

  http://www.ieee802.org/3/bm/index.html

Task Force Private Area

- *The User ID / Password is available to all Task Force Participants, and the minimum requirement to be considered part of the Task Force is to be signed up to the reflector.*

- URL: http://www.ieee802.org/3/bm/private/index.html
  - Username 802.3bm
  - Password: ██████

- Write it down…

Note - The draft, and any other content, is posted for your review only, and neither the content nor access information should be copied or redistributed to others in violation of document copyrights.

Attendance

- Tutorial Material on attendance tool
  - http://www.ieee802.org/3/minutes/attendance_procedures.pdf
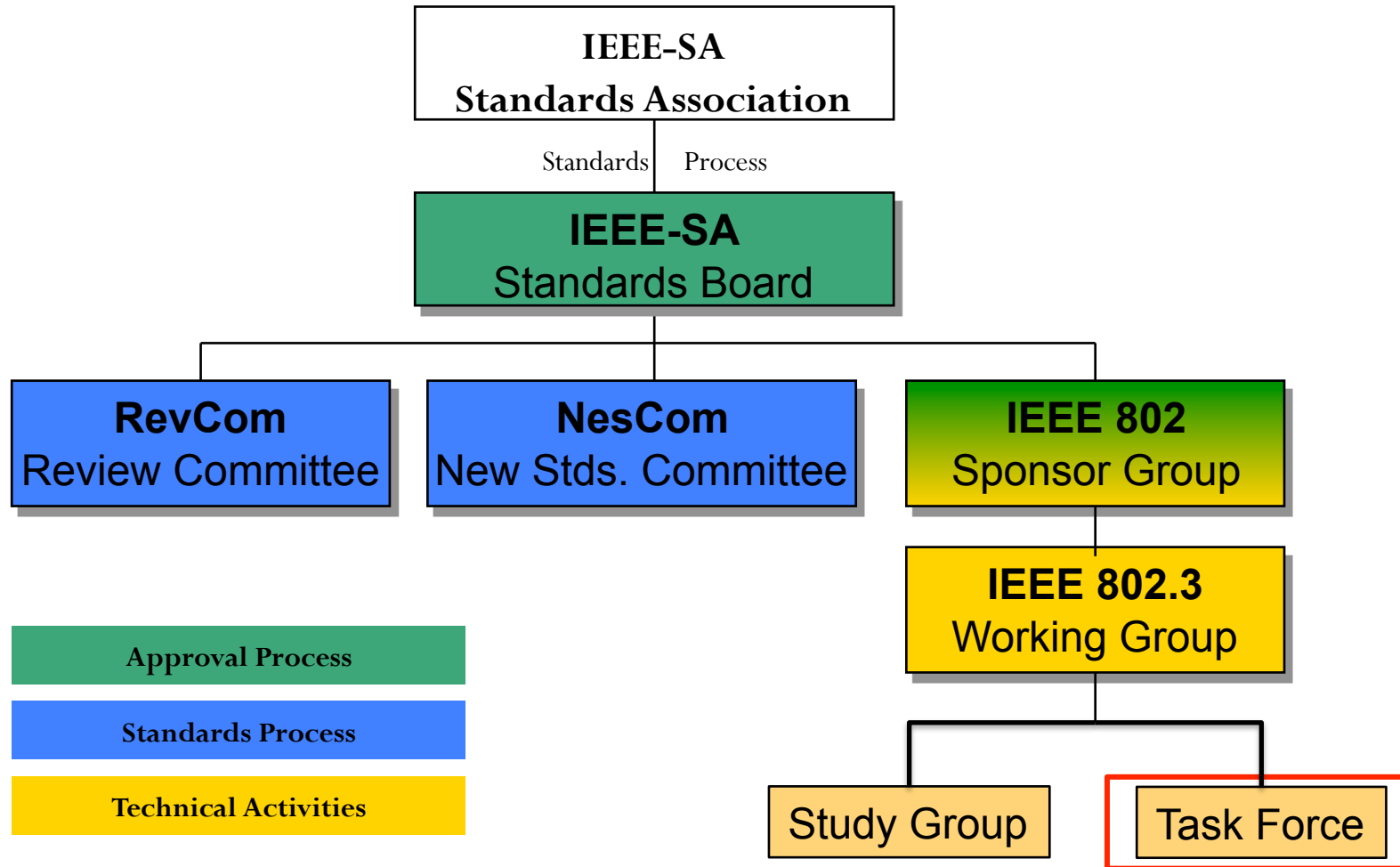
- Link
  - http://imat.ieee.org/

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 – Do unto others…
- NO product pitches (ex: "LightZippyDoo is the best!")
- NO corporate pitches (ex: "We Illuminate Your Networks!")
- NO prices!!!
  - This includes costs, ASPs, etc. no matter what the currency
- NO restrictive notices

IEEE Structure


```
                    ┌────────────────────────┐
                    │       IEEE-SA          │
                    │  Standards Association │
                    └────────────────────────┘
                      Standards │ Process
                    ┌────────────────────────┐
                    │       IEEE-SA          │
                    │    Standards Board     │
                    └────────────────────────┘
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RevCom
Review Committee

NesCom
New Stds. Committee

IEEE 802
Sponsor Group

IEEE 802.3
Working Group

Approval Process	
Standards Process	
Technical Activities	

Study Group

Task Force

Important Bylaws and Rules

- **IEEE-SA Operations Manual**
  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

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

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**
    - **"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**
- **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 or visit http://standards.ieee.org/about/sasb/patcom/index.html

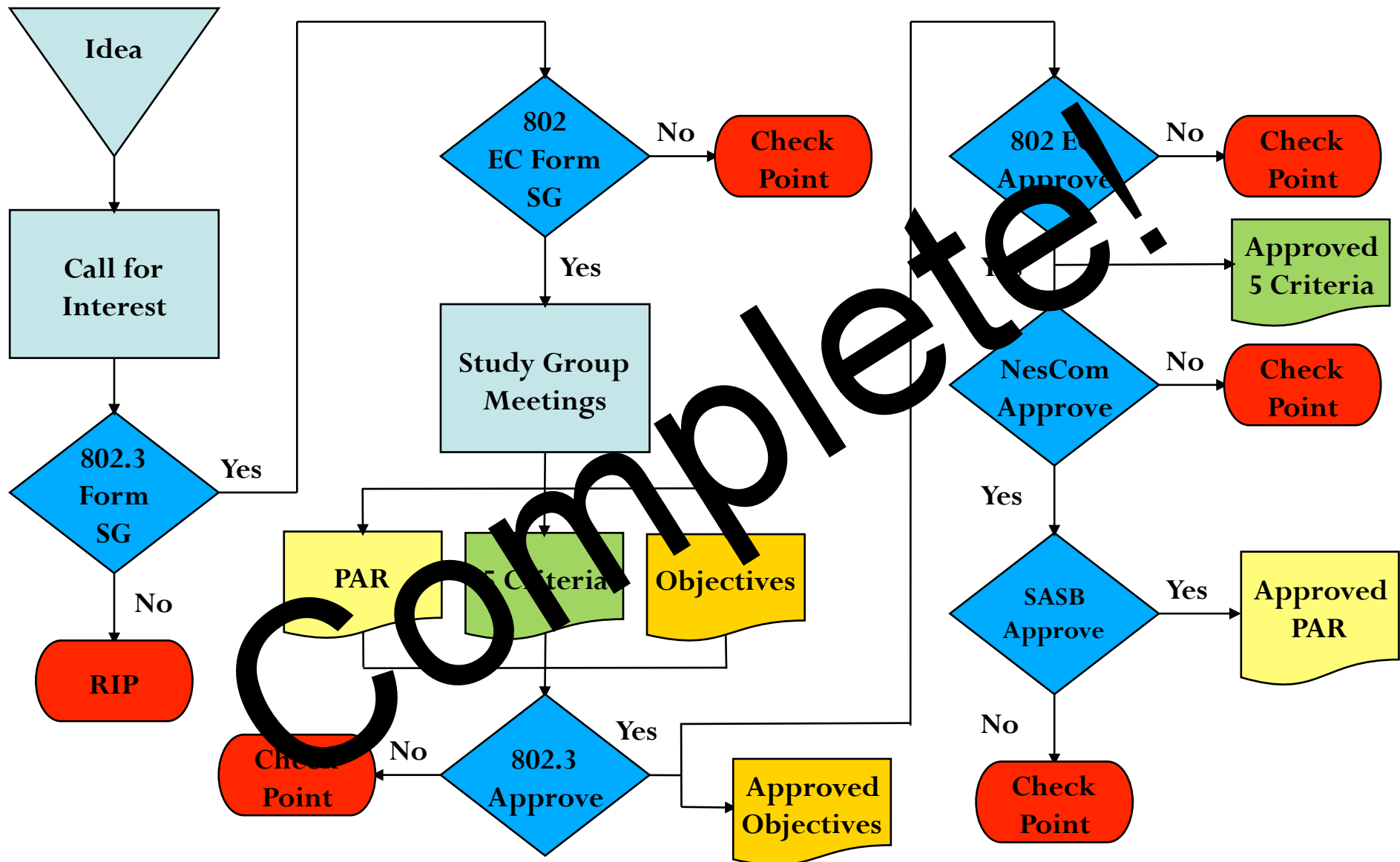**This slide set is available at https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt**

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

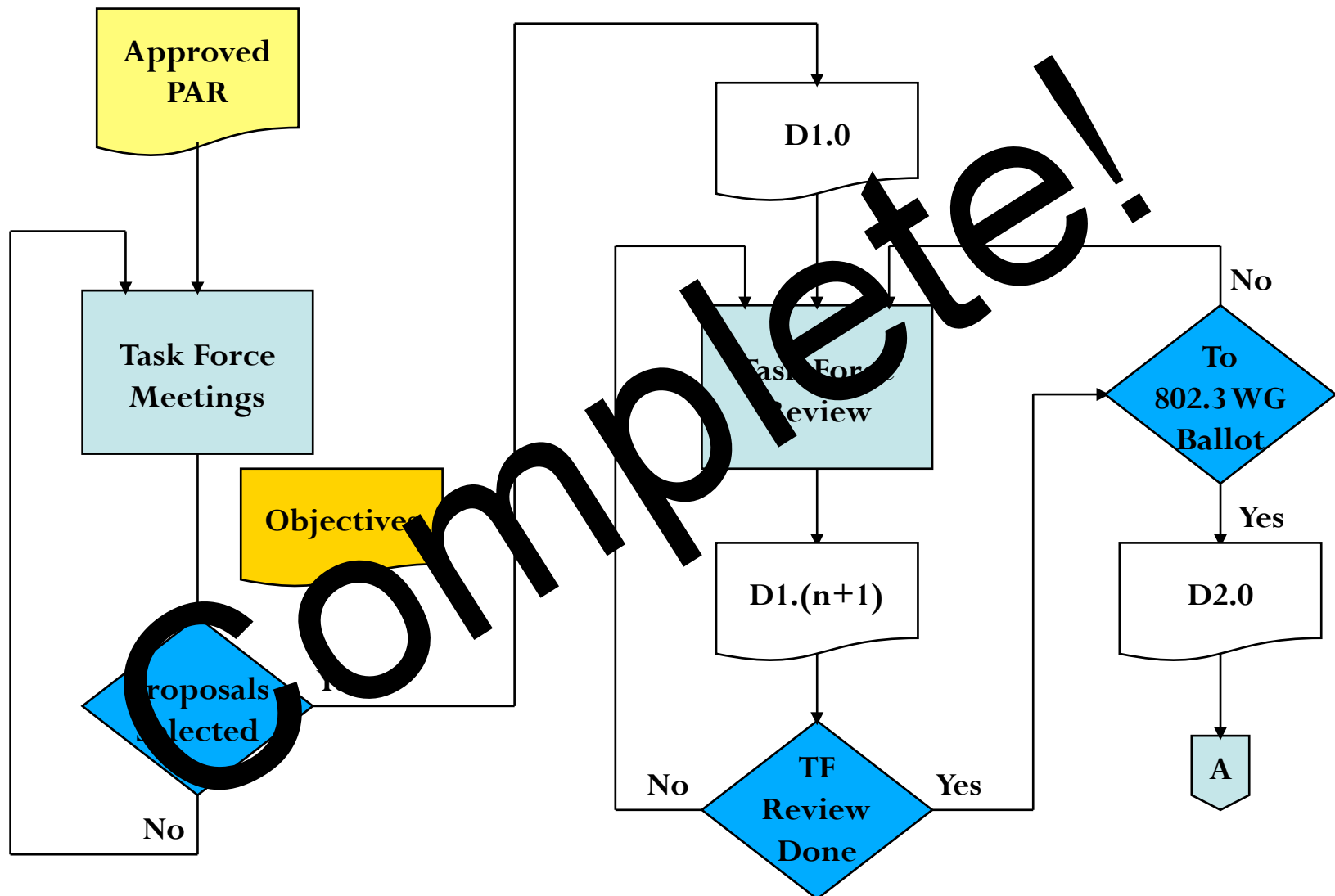 - ❖ NOTE TO SECRETARY – Record this Call & Response to Call

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

A
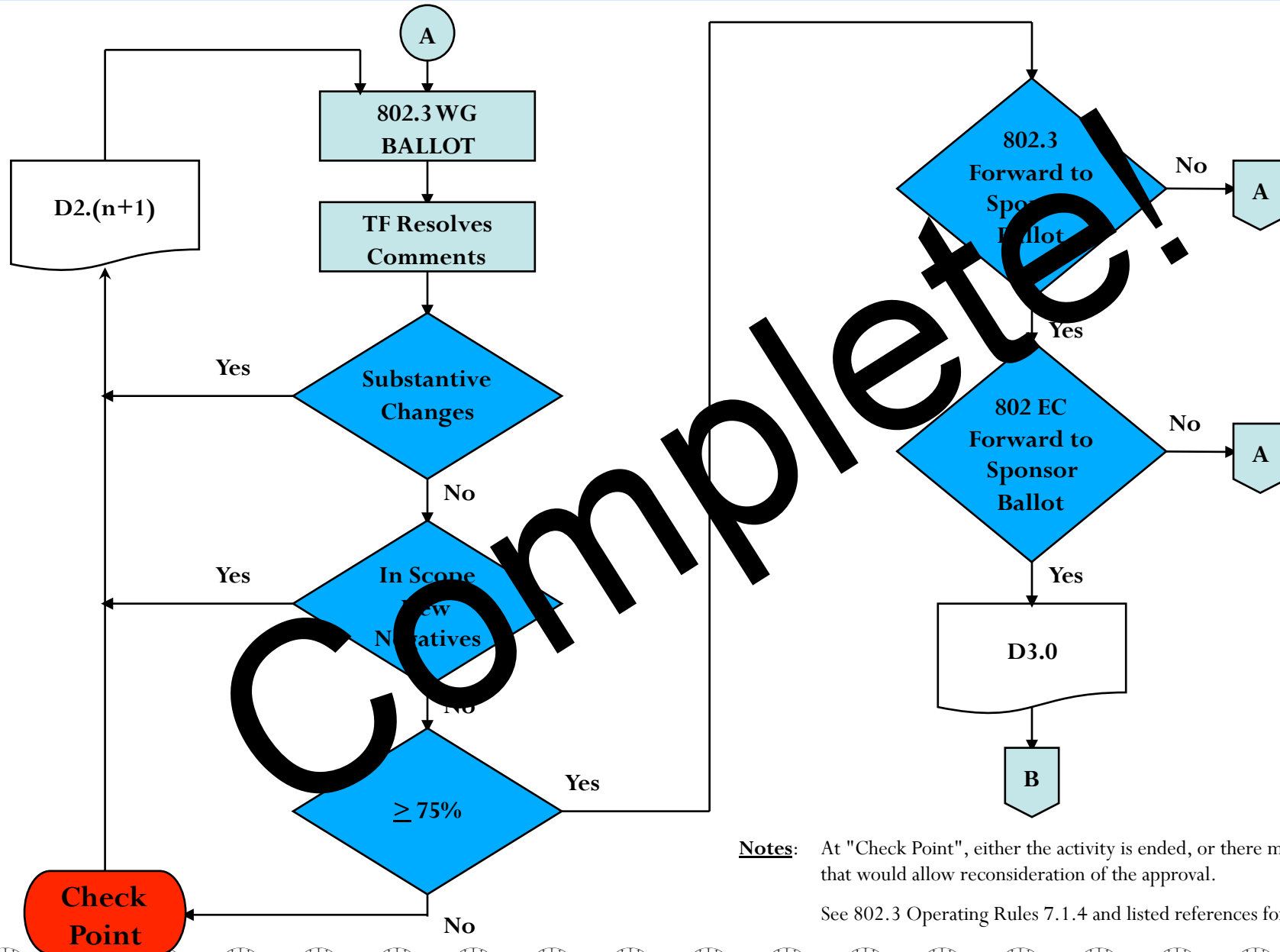
802.3 WG BALLOT

TF Resolves Comments

Substantive Changes — Yes → D2.(n+1)

No

In Scope New Negatives — Yes

No

≥ 75% — Yes

Check Point — No

D2.(n+1)

802.3 Forward to Sponsor Ballot — No → A

Yes

802 EC Forward to Sponsor Ballot — No → A
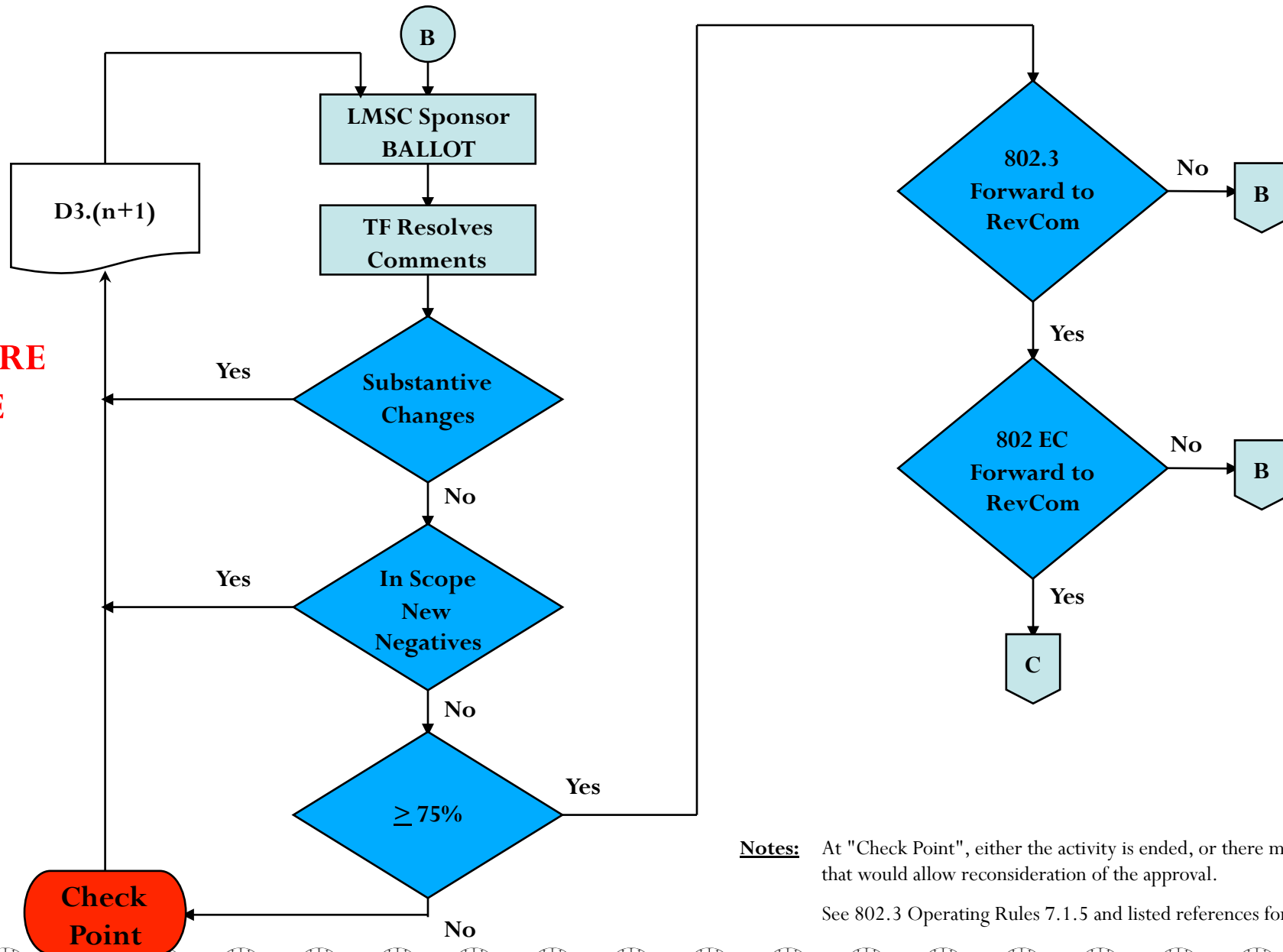
Yes

D3.0

B

Complete!

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

B

LMSC Sponsor BALLOT

TF Resolves Comments

Substantive Changes — Yes → **D3.(n+1)**

WE ARE HERE

No

In Scope New Negatives — Yes

No

≥ 75% — Yes

No → **Check Point**

802.3 Forward to RevCom — No → **B**

Yes

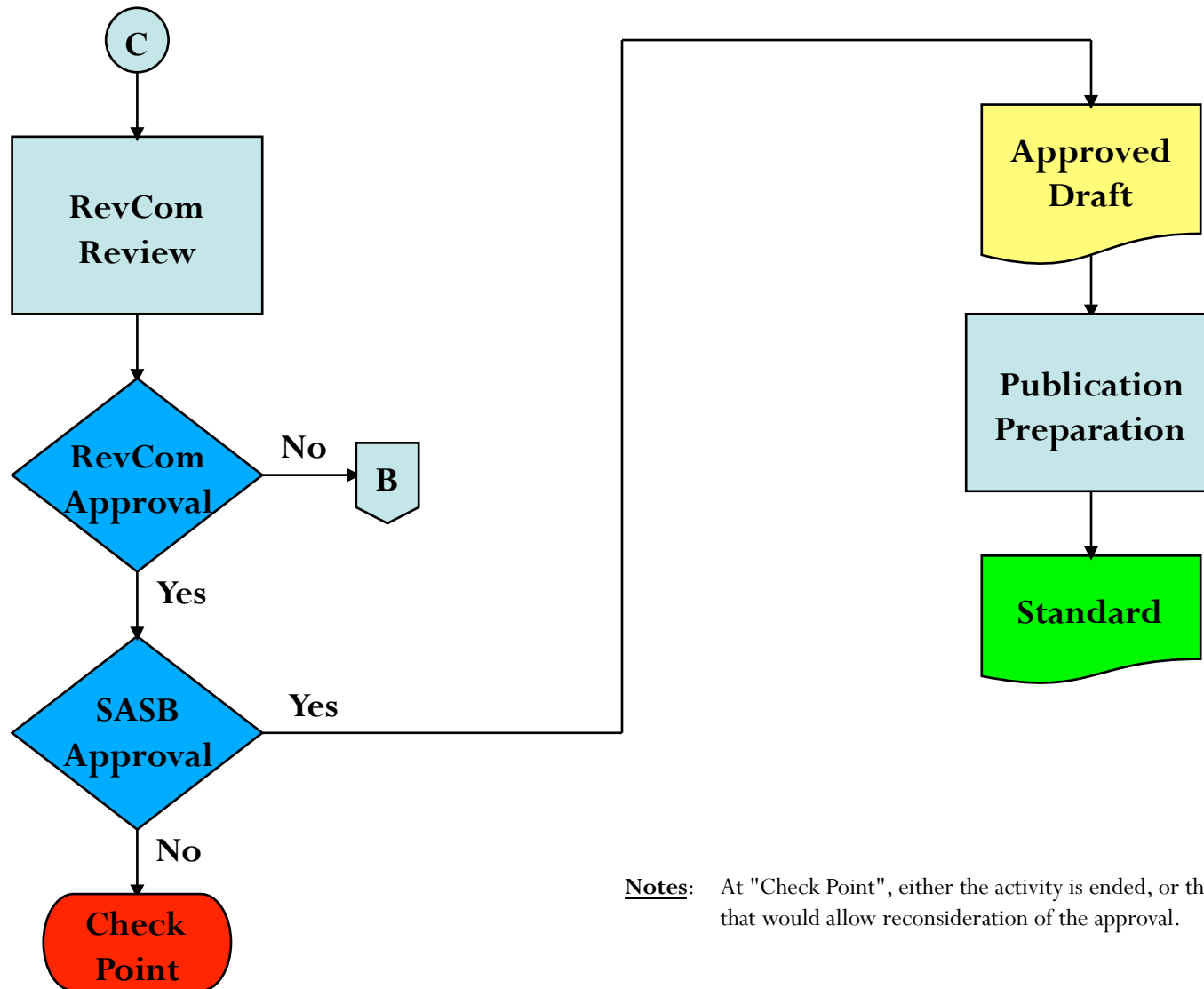**802 EC Forward to RevCom** — No → **B**

Yes → **C**

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

C

RevCom Review

RevCom Approval — No → **B**

Yes

SASB Approval — Yes →

No

Check Point

Approved Draft

Publication Preparation

Standard

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

- OIF
  - Ongoing communications between OIF and IEEE 802.3 initiated by IEEE P802.3ba project
  - In regards to OIF CEI-25G-LR, CEI-28G-SR, CEI-28G-VSR
  - Currently being operated through 802.3 Working Group
  - Send an update (D3.1) copy of 802.3bm to OIF

- ITU-T
  - No new communications to report

- INCITS TC T11
  - No new communications to report
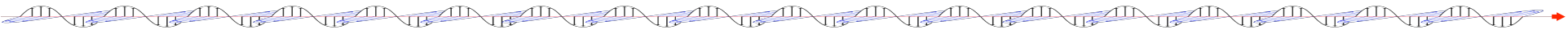
Goals for the meeting

- Quickly Review Task Force Operation & Schedule
- Quickly Review ad hoc Activities & Reports
- If required, review comments on the draft
- Consider Motions & Discussions (if required)
  - Authorize generation of D3.1 and prepare for recirculation ballot
  - Authorize informal communication to OIF with D3.1
  - Lay the ground work for the next meeting
- Wrap Up & Future Meeting Discussion

IEEE P802.3bm 40 Gb/s and 100 Gb/s Fiber Optic Task Force
Approved Project Documents

- ## PAR (as approved in May 2013)

  - http://www.ieee802.org/3/bm/P802.3bm_May2013.pdf

- ## 5 Criteria (as approved in November 2013)

  - http://www.ieee802.org/3/bm/P8023bm_5Criteria_1113.pdf

- ## Objectives (as approved in November 2013)

  - http://www.ieee802.org/3/bm/P8023bm_Objectives_1113.pdf

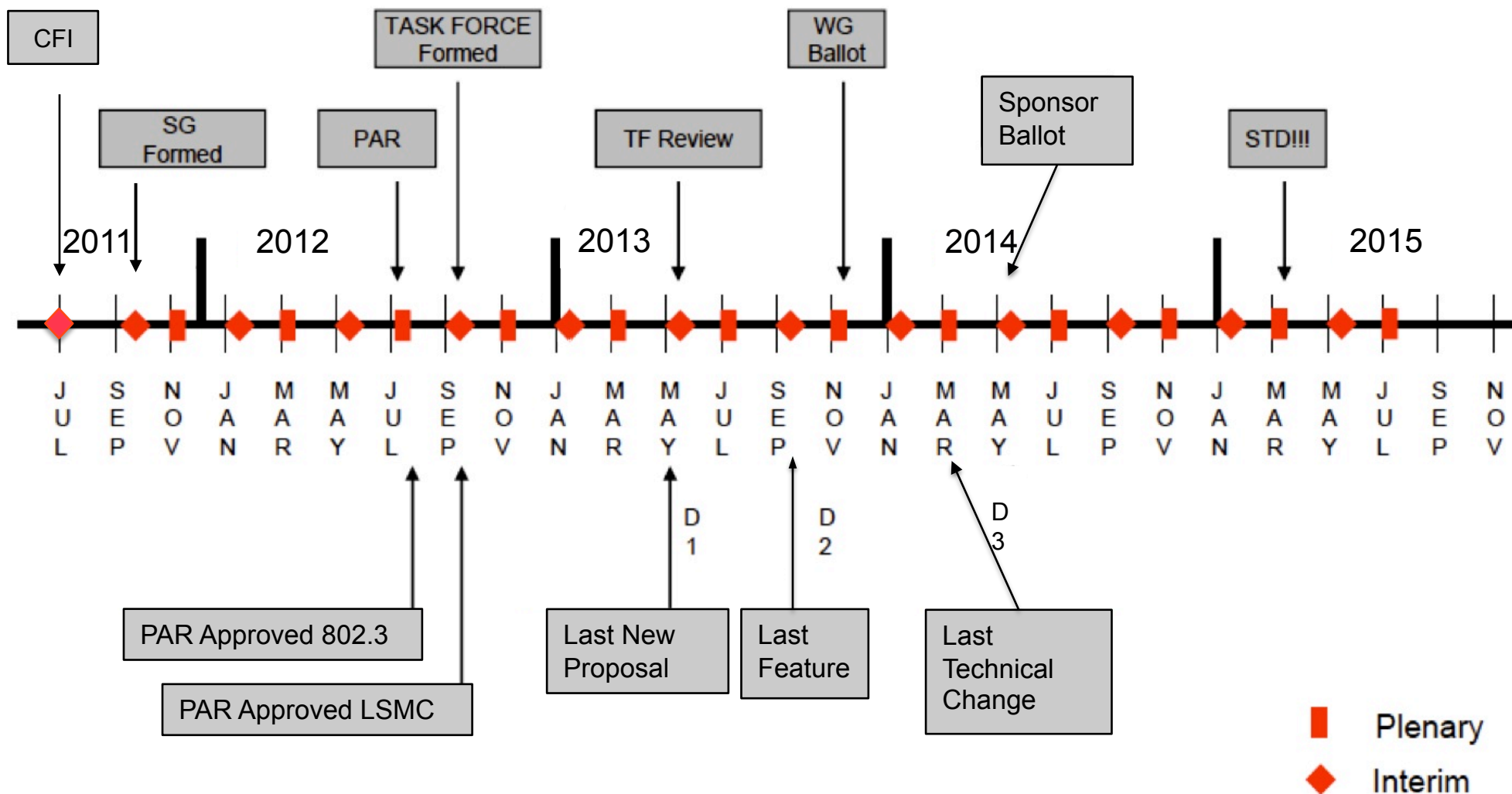- ## Timeline

  - http://www.ieee802.org/3/bm/timeline_0114.pdf

IEEE P802.3bm 40 Gb/s and 100 Gb/s Fiber Optic Task Force Objectives

- ✧ Support full-duplex operation only
- ✧ 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
- ✧ Provide appropriate support for OTN
- ✧ Define re-timed 4-lane 100G PMA to PMA electrical interfaces for chip to chip and chip to module applications
- ✧ Define a 40 Gb/s PHY for operation over at least 40 km of SMF
- ✧ Define a 100 Gb/s PHY for operation up to at least 100 m of MMF
- ❑ Specify optional Energy Efficient Ethernet (EEE) for 40 Gb/s and 100 Gb/s operation over fiber optic cables.

- ✧ (approved by 802.3 July 2011)
- ❑ (approved by 802.3 November 2012)

IEEE P802.3bm Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet
Timeline (adopted in Jan 2014)

Tuesday Agenda

Note –Times listed are subject to change.

Tuesday			Start Time 8:00		Discussion Time 15	
Presentation Time	**Duration**	**Presenter**	**Affiliation**	**Title**		**Filename**
8:00	20	Dan Dove	Huawei	Introduction & Agenda		dove_02a_0714_optx.pdf
8:20	10	Pete Anslow	Ciena	Editor's Opening Report		anslow_03_0714_optx.pdf
8:30	120	Pete Anslow	Ciena	Comment Resolution		P802d3bm_d3p0_comments_rec_ID.pdf (1)
10:30	15	Break				
10:45	30	Pete Anslow	Ciena	Comment Resolution		P802d3bm_d3p0_comments_rec_ID.pdf (1)
11:15	15	Pete Anslow	Ciena	Editor's Closing Report		anslow_04_0714_optx.pdf
***	15	Chris DiMinico	MC Communications	802.3bj and CAUI-4 Test Fixtures		diminico_01_0714_optx.pdf
				Informal communication to OIF		IC_oif_0714_optx.pdf
	15	Dan Dove	Huawei	Motions, Discussion & Wrap Up		
12:00	0	Adjourn				

(1) This meeting is intended to be very minimal and only will include comment resolution if the Co-Located Interim meeting failed to resolve all comments.

*** This presentation was requested after the consideration date/time. It will be subject to Task Force approval to be presented.

Future Meetings

- See: http://www.ieee802.org/3/interims/index.html
- See: http://802world.org/plenary/future-plenary-sessions/

- **Week of September 8, 2014 (Interim)**
  - **All IEEE 802.3 and 802.1 Task Force and Study Groups will meet**
  - **Brooktree Hotel – Ottawa, Canada**
  - **Hosted by: Ericsson**

- **Week of November 2-7, 2014 (Plenary)**
  - **All IEEE 802.3 and 802.1 Task Force and Study Groups will meet**
  - **Grand Hyatt, San Antonio TX, USA**

- **Week of January 13, 2015 (Interim)**
  - **All IEEE 802.3 Task Force and Study Groups will meet**
  - **Location TBD**

- **Week of March 2-7, 2015 (Plenary)**
  - **All IEEE 802.3 Task Force and Study Groups will meet**
  - **Estrel Hotel & Convention Center, Berlin Germany**

- Anyone interested in hosting a meeting contact Steve Carlson.

Thank You!