

# Agenda and General Information

IEEE 802.3

Next Generation Enterprise Access BASE-T  
PHY Study Group

David Chalupsky, Acting Chair  
Intel Corp.

Atlanta, GA, January, 2015

# Agenda

---

- *Appointment of Recording Secretary*
- *Confirmation of Chair*
- Welcome and Introductions
- Approve Agenda
- Goals for this meeting
- Reflector and Web
- Ground Rules
- IEEE
  - Structure, Bylaws and Rules
  - Call for Patents
  - IEEE Standards Process
- Liaisons and Communications
- Presentations
- Motions and Closing Business
- Future Meetings

# Motion #1

---

- Approve the agenda
- M:
- 2<sup>nd</sup>:
- Result:



# Study Group 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

# Goals for the meeting

---

- Develop PAR, CSD, and Objectives for NGEABT study group to move on to task force phase
- Lay the ground work for the next meeting

# Reflector and Web

---

- To subscribe to the 802.3 NGEABT reflector, send an email to:

[ListServ@ieee.org](mailto:ListServ@ieee.org)

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

```
subscribe stds-802-3-NGBASET <yourfirstname> <yourlastname>
end
```

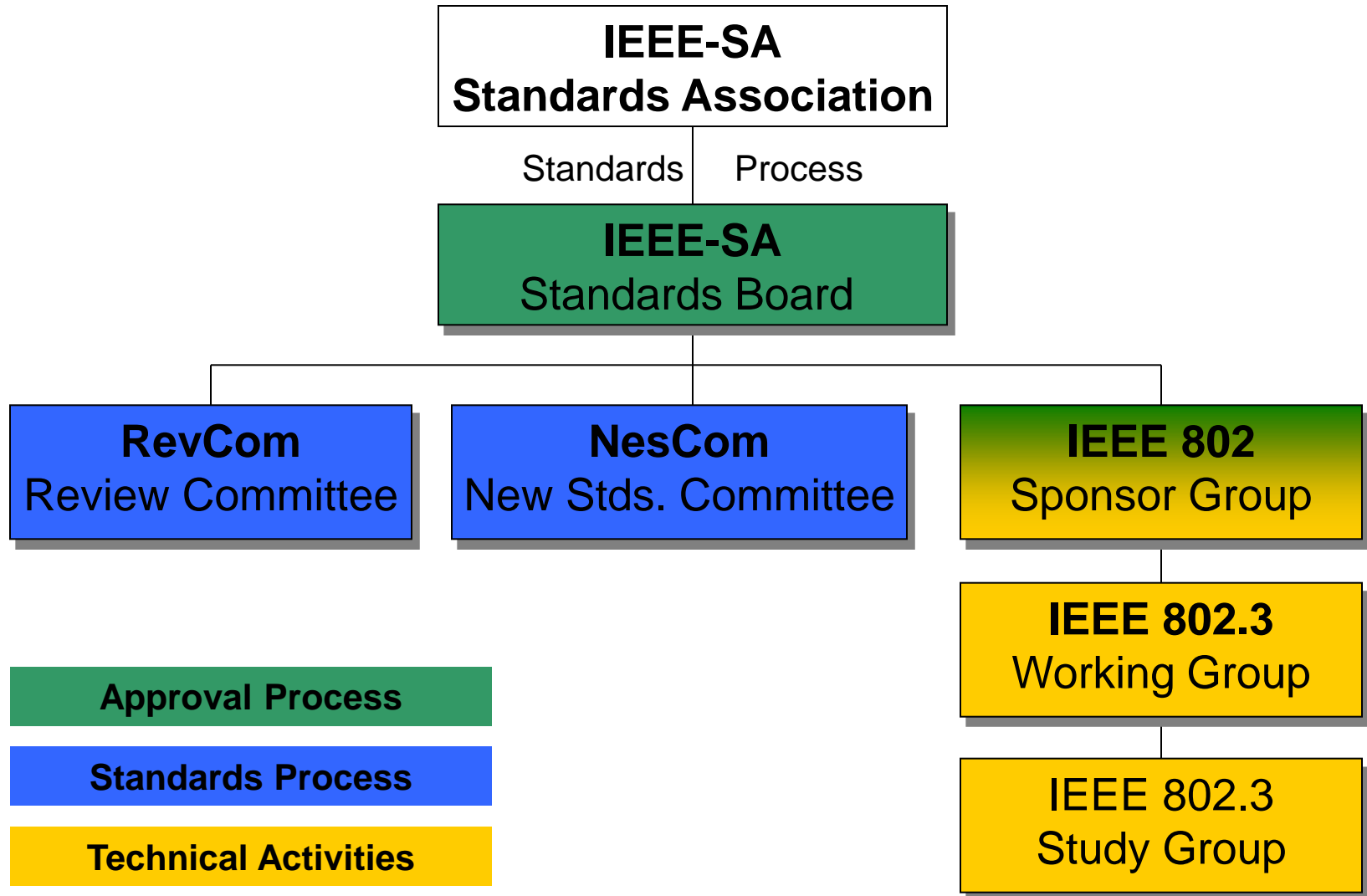
- Note: this reflector is shared by P802.3bq 40GBASE-T, 25GBASE-T Study Group, and NGEABT Study Group
- Send reflector messages to:  
[STDS-802-3-NGBASET @listserv.ieee.org](mailto:STDS-802-3-NGBASET@listserv.ieee.org)
- Task Force web page URL:  
<http://www.ieee802.org/3/NGEBASET/index.html>

# 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

# 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)

# Guidelines for IEEE-SA Meetings

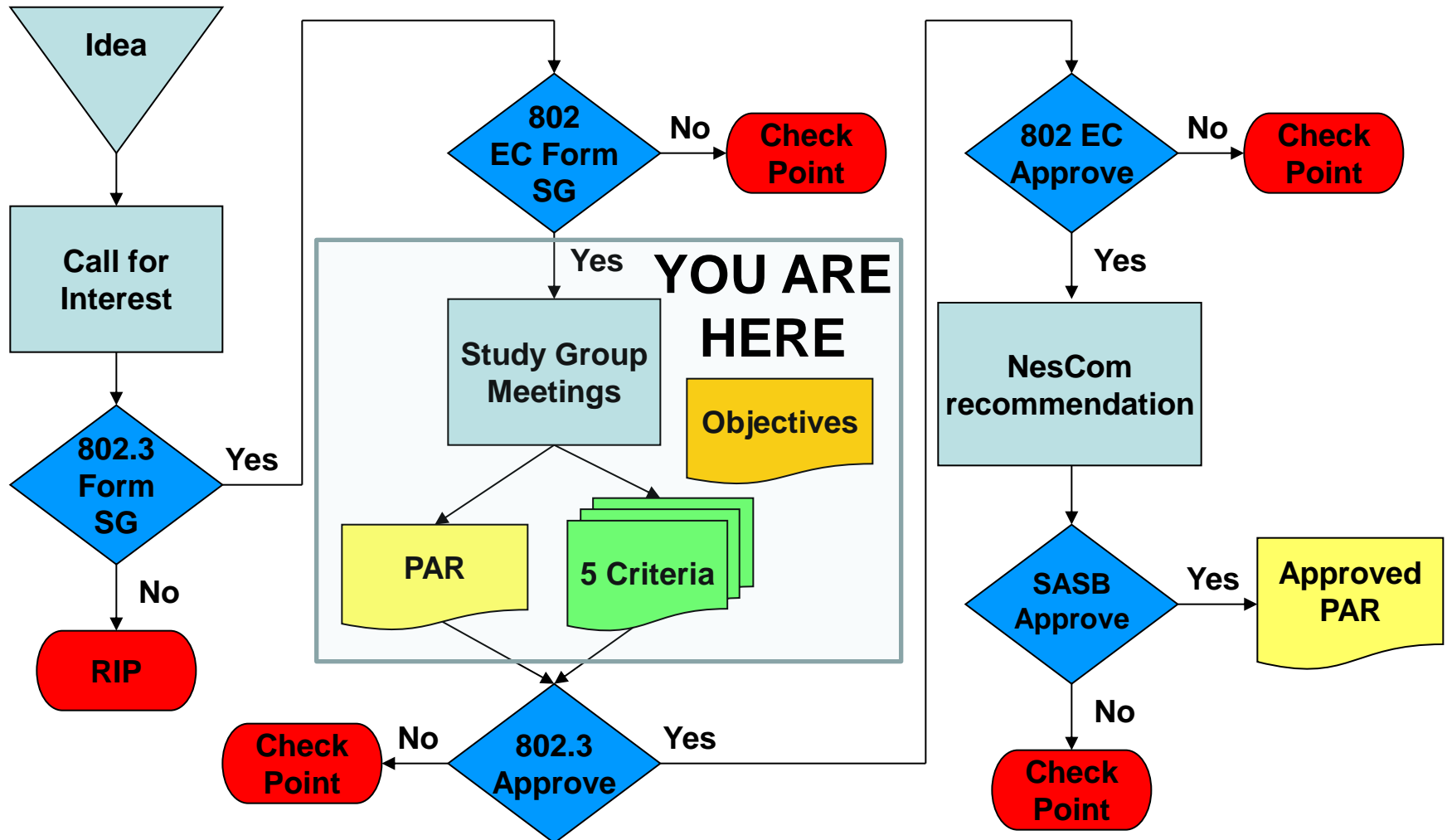
- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
- Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
- Don't discuss specific license rates, terms, or conditions.
  - Relative costs,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

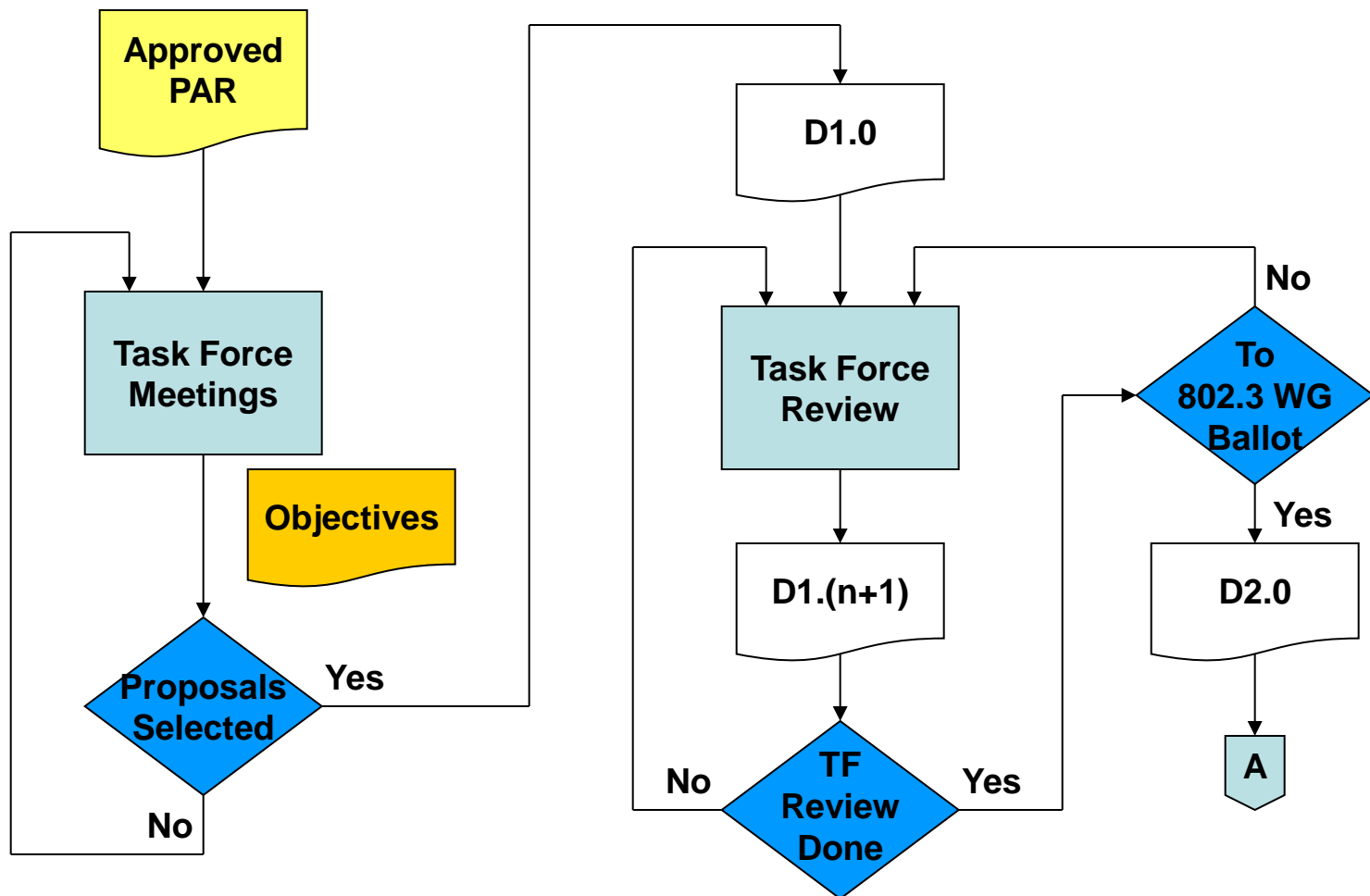
This slide set is available  
at <https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt>

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

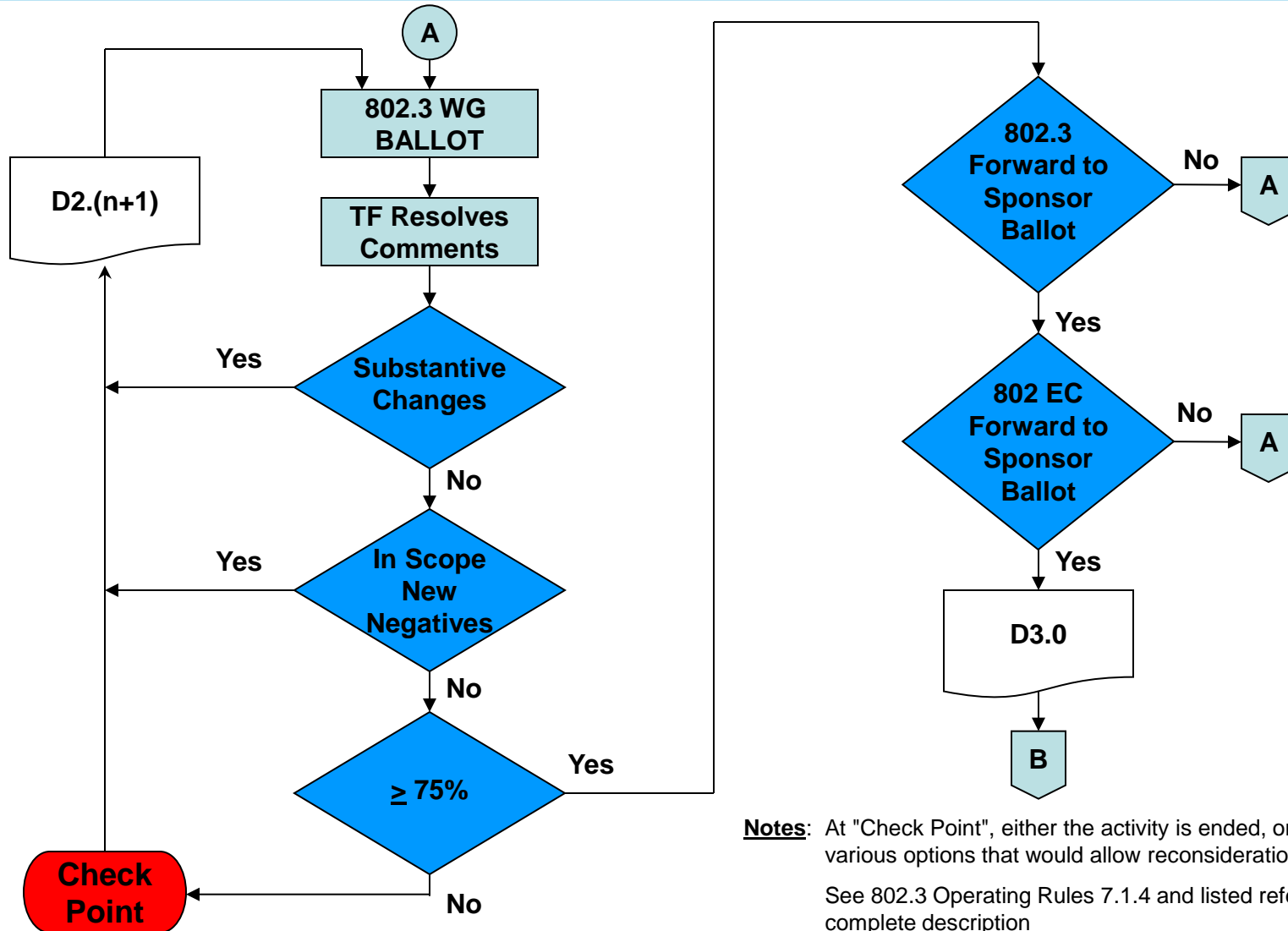


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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

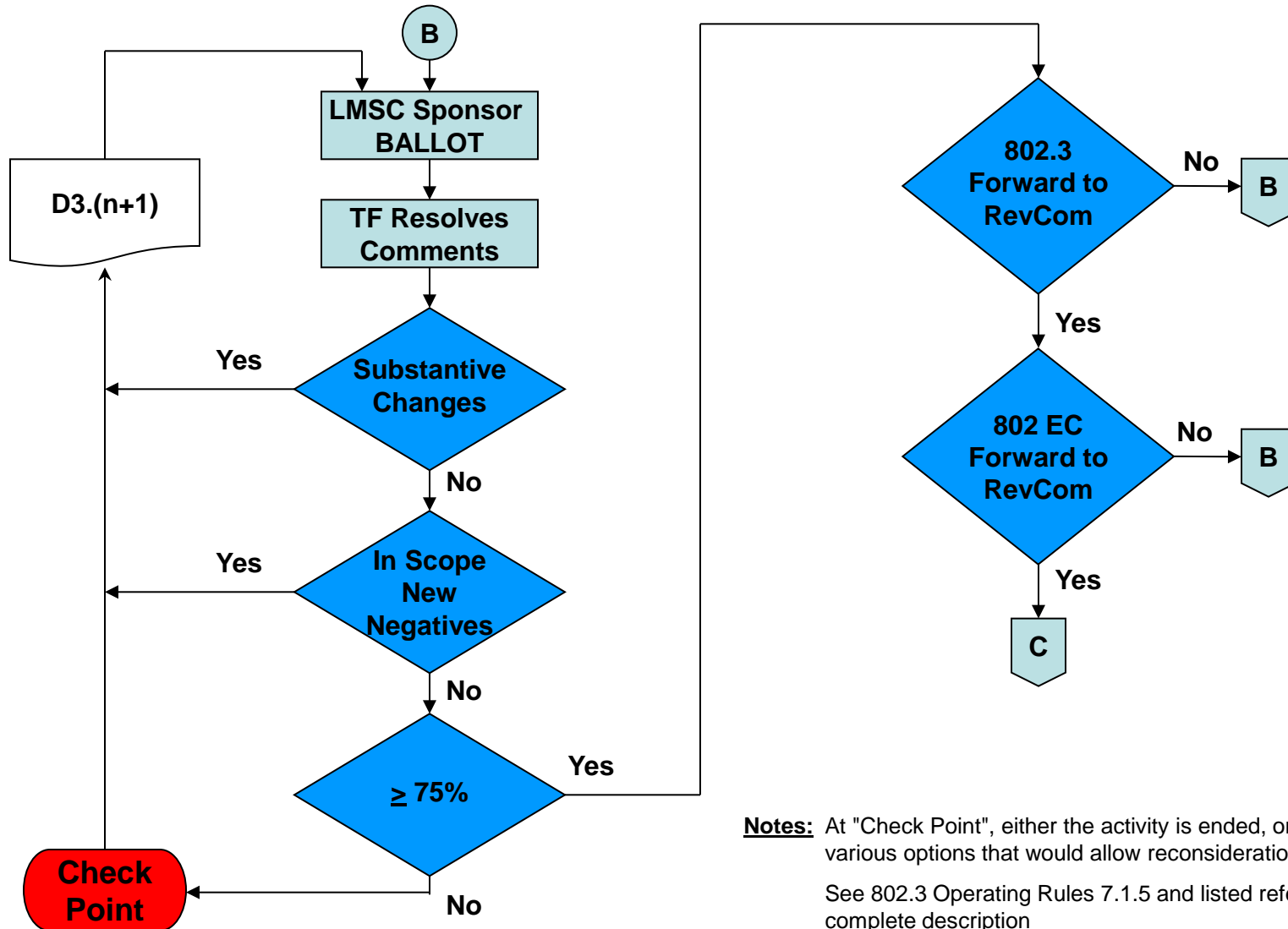


# Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



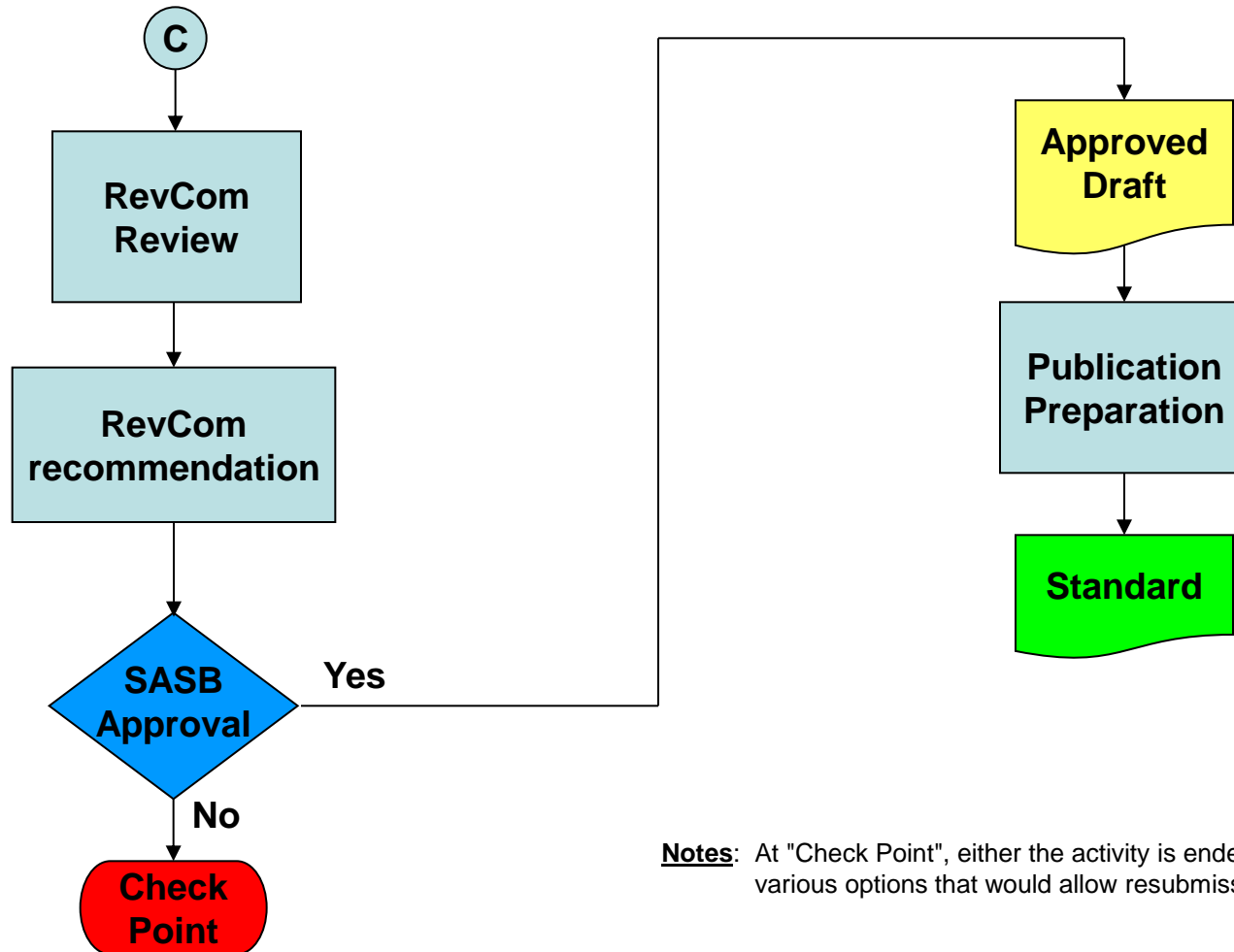
**Notes:** At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval. See 802.3 Operating Rules 7.1.4 and listed references for complete description

# 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 resubmission for approval.

# The Study Group

---

- Normal function is to draft a complete PAR and Criteria For Standards Development (CSD, aka Five Criteria)
- Optionally provide a plenary week tutorial to the LMSC.
- Gain approval at the IEEE 802.3 WG, IEEE 802 EC, IEEE-SA NesCom and IEEE-SA Standards Board.
- SG only exists for 6 months
  - Extensions can be requested
  - Voted on by IEEE 802.3
  - Ratified by IEEE 802 EC
- Development of Objectives helps set the goals for the Task Force
- Consensus required to move forward
  
- Not a goal – choosing a solution.



# WG Motion #30 November'14

---

Move that,

Request that the IEEE 802.3 WG form a study group to develop a PAR and CSD for:

“Next Generation Enterprise BASE-T Access”

M: D. Chalupsky S: Y. Kim

> 50%

Y: 92, N: 0, A: 2

Passed 6-November 2014, 5:26 pm

# Liaisons and Communications

---

# 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/>
  - (For interim) Password will be provided

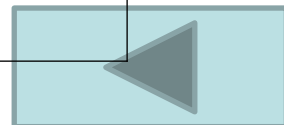
# Agenda notes

---

- Note that IEEE P802.3bq, 25GBASE-T study group and NGEABT study group are running contiguously
- 802.3 NGEABT is scheduled from 8am -6pm Thursday and Friday
- **HOWEVER:** NGEABT study group will convene earlier if P802.3bq and 25GBASE-T SG finish early
  - **Anticipate 1pm start Wednesday**
- Given flexible start time, specific times for presentations and events are not forecast, but “order of go” is reflected in website listing and agenda slide on following page.

# Proposed Agenda

Title	Post Date	Presenter	Affiliation
<a href="#">Agenda and General Information</a>	14-Jan-2015	David Chalupsky	Intel
<a href="#">Architecture ad hoc Proposed PAR</a>	14-Jan-15	Peter Jones	Cisco
<a href="#">Architecture ad hoc Proposed CSD</a>	14-Jan-15	Peter Jones	Cisco
<a href="#">Architecture ad hoc Proposed Objectives</a>	14-Jan-15	Peter Jones	Cisco
<a href="#">Cabling Installed Base Update</a>	13-Jan-15	Peter Jones	Cisco
<a href="#">Why 2.5G/5G Data Rates</a>	14-Jan-15	Amrik Bains	Cisco
<a href="#">PoE Objective for Next-Gen Enterprise Access BASE-T</a>	8-Jan-15	George Zimmerman	CME Consulting
<a href="#">BER Objective for Next-Gen Enterprise Access BASE-T</a>	8-Jan-15	George Zimmerman	CME Consulting
<a href="#">Call for New Connectors for BASE-T Ethernet</a>	8-Jan-15	Kamal Dalmia	Aquantia
<a href="#">NGEABT Testing Challenges for the Installed Cabling Base</a>	8-Jan-15	Theodore Brillhart	Fluke Networks
<a href="#">Channel Characterization</a>	8-Jan-15	German Feyh	Broadcom
<a href="#">Cat5e Alien Crosstalk T Measurements</a>	8-Jan-15	Bob Wagner Chris DiMinico	Panduit, MC Communications
<a href="#">Investigations of Category 5e Cabling for 2.5 and 5Gbps PAM Transmission using 10GBASE-T derived Technology</a>	13-Jan-15	Richard Mei Benji Boban George Zimmerman	Commscope Commscope CME Consulting, Commscope
<a href="#">5G Over Cat6 and Cat5e Enterprise Cabling</a>	13-Jan-15	Ramin Farjad, Amrik Bains	Aquantia, Cisco
<a href="#">Impulse Noise Impact on 2.5Gb/s / 5Gb/s Operation In Enterprise Environment</a>	13-Jan-15	Ramin Shrirani, Larry Cohen	Aquantia
Discussion, Motions and Straw polls			



# Future Meetings

---

- See: <http://www.ieee802.org/3/interims/index.html>
- See: <http://802world.org/plenary/future-plenary-sessions>
- Mar 2015 Plenary Week of March 8
  - Estrel Hotel and Convention Center, Berlin, Germany
- May 2015 Interim Week of May 18
  - Omni William Penn Hotel, Pittsburg, PA, USA
  - Hosted by the Ethernet Alliance
- July 2015 Plenary Week of July 13
  - Hilton Waikoloa Village, Waikoloa, HI, USA
- Sept 2015 Interim Week of Sept 14
  - Hyatt Regency Coconut Point, Bonita Springs, FL, USA
  - Hosted by NEC
- Nov 2015 Plenary Week of Nov 8
  - Hyatt Regency Dallas, Dallas, TX, USA
- Anyone interested in hosting a interim meeting contact the IEEE 802.3 Executive Secretary [Steve Carlson](#).

---

# Thank You!