

# Agenda and General Information

IEEE 802.3

Reduced Twisted Pair Gigabit Ethernet  
PHY

Steven B. Carlson

High Speed Design, Inc.

Minneapolis, MN, USA – May 15-16 2012

# Agenda

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

# Study Group Decorum



- Photography or recording by permission only (2010 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

# Goals for the meeting

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- Introduction to IEEE process
  - PAR
  - 5 Criteria
  - Objectives
- Presentations that address the PAR, 5 Criteria, and objectives
- Set goals for next meeting
- Build consensus

# Reflector and Web

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- To subscribe to the RTPGE 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-RTPGE <yourfirstname> <yourlastname>

- Send RTPGE reflector messages to:

**stds-802-3-RTPGE** [@listserv.ieee.org](mailto:@listserv.ieee.org)

- Study Group web page URL:

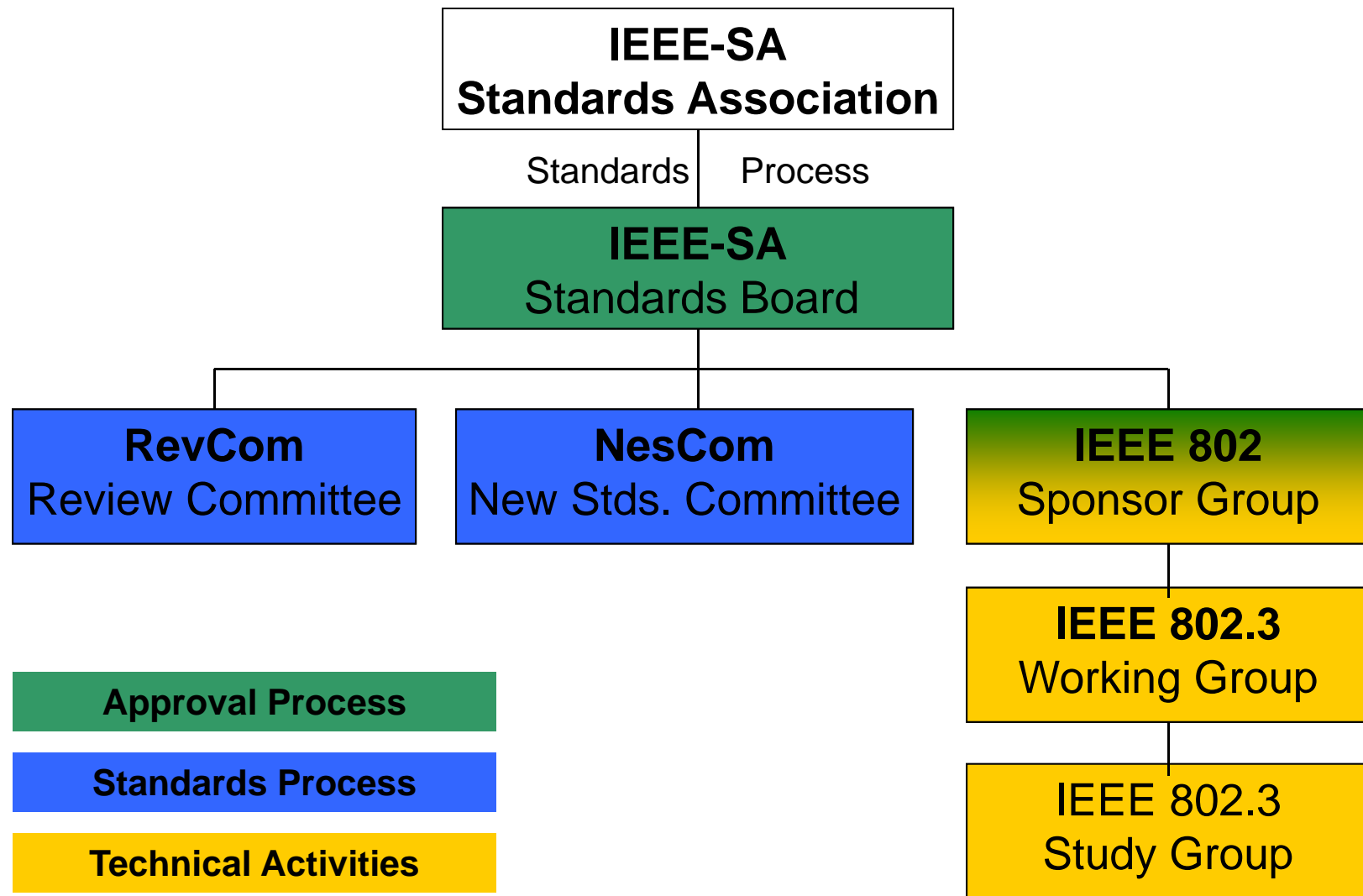
[www.ieee802.org/3/RTPGE/index.html](http://www.ieee802.org/3/RTPGE/index.html)

# 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

# IEEE Structure



# Important 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/about/sasb/audcom/pnp/LMSC.pdf>
- **IEEE 802 LAN/MAN Standards Committee (LMSC) Operations Manual**  
[http://www.ieee802.org/PNP/2010-07/IEEE\\_802\\_LMSC\\_OM\\_approved\\_100716.pdf](http://www.ieee802.org/PNP/2010-07/IEEE_802_LMSC_OM_approved_100716.pdf)
- **IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG) Policies and Procedures**  
[http://www.ieee802.org/PNP/2010-07/IEEE\\_802\\_LMSC\\_WG\\_PandP\\_approved\\_100716.pdf](http://www.ieee802.org/PNP/2010-07/IEEE_802_LMSC_WG_PandP_approved_100716.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)



# **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.**

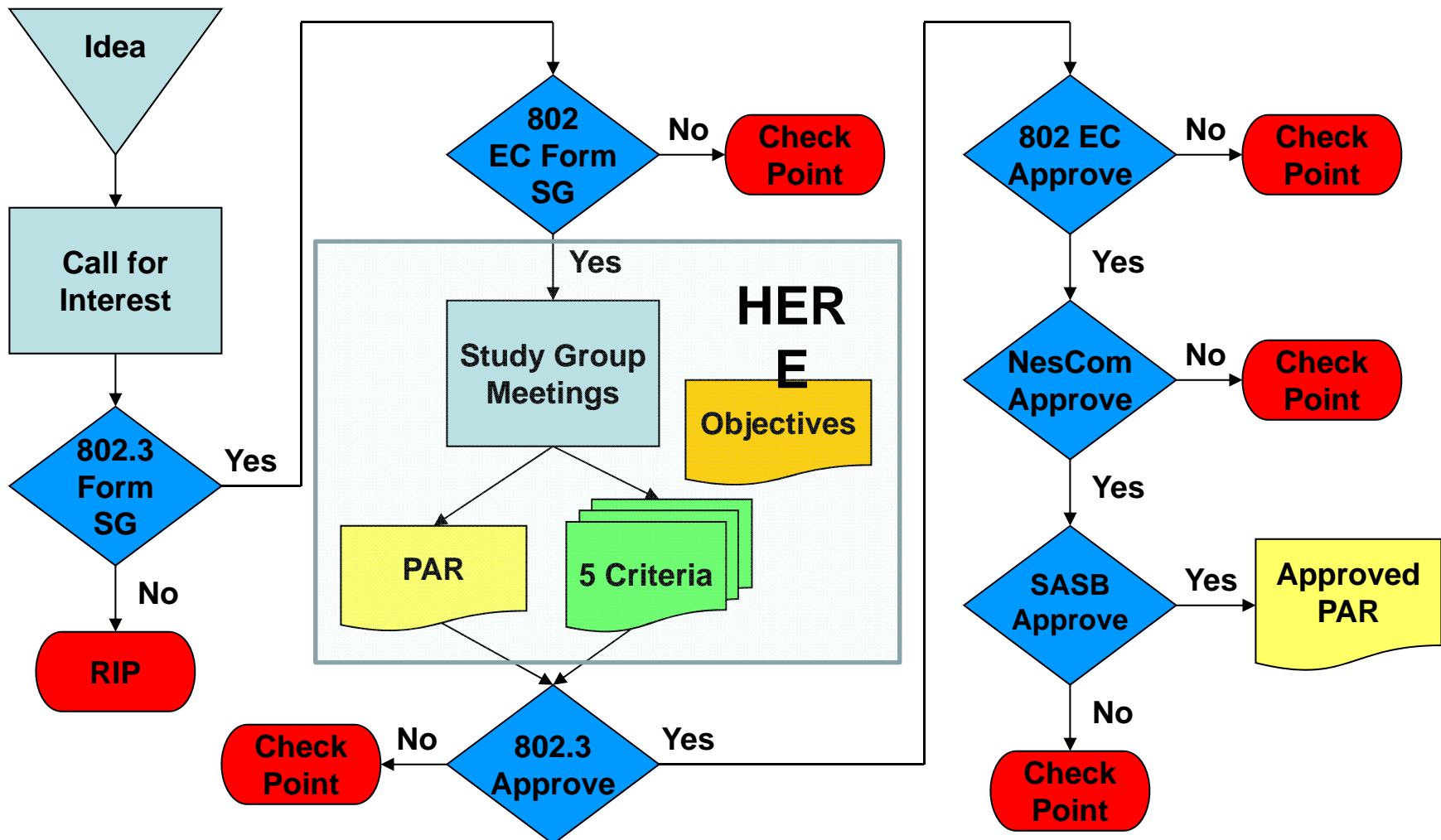
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If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at [patcom@ieee.org](mailto:patcom@ieee.org) or visit <http://standards.ieee.org/about/sasb/patcom/index.html>

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>

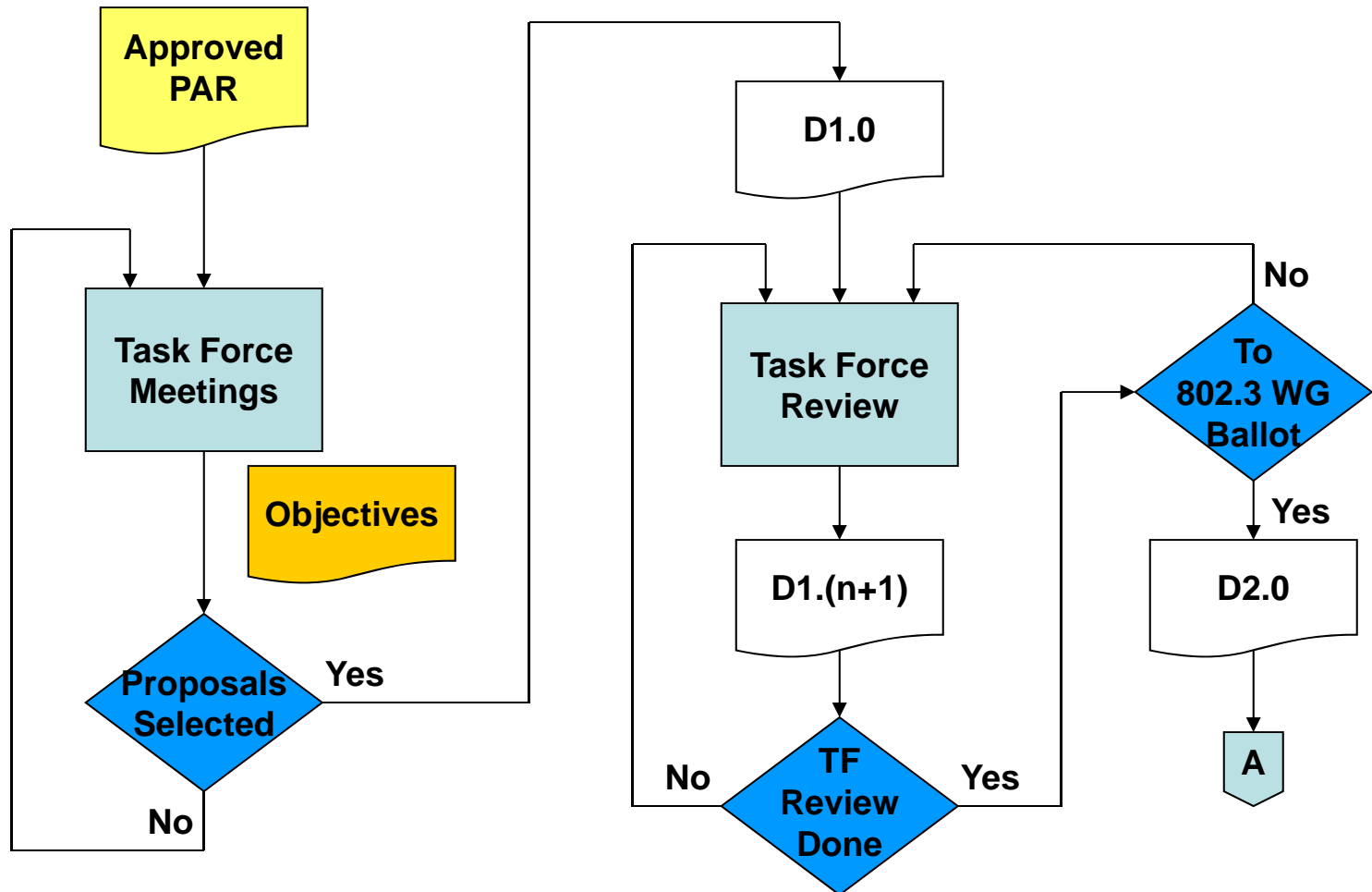


# Overview of IEEE 802.3 Standards Process (1/5)- Study Group Phase

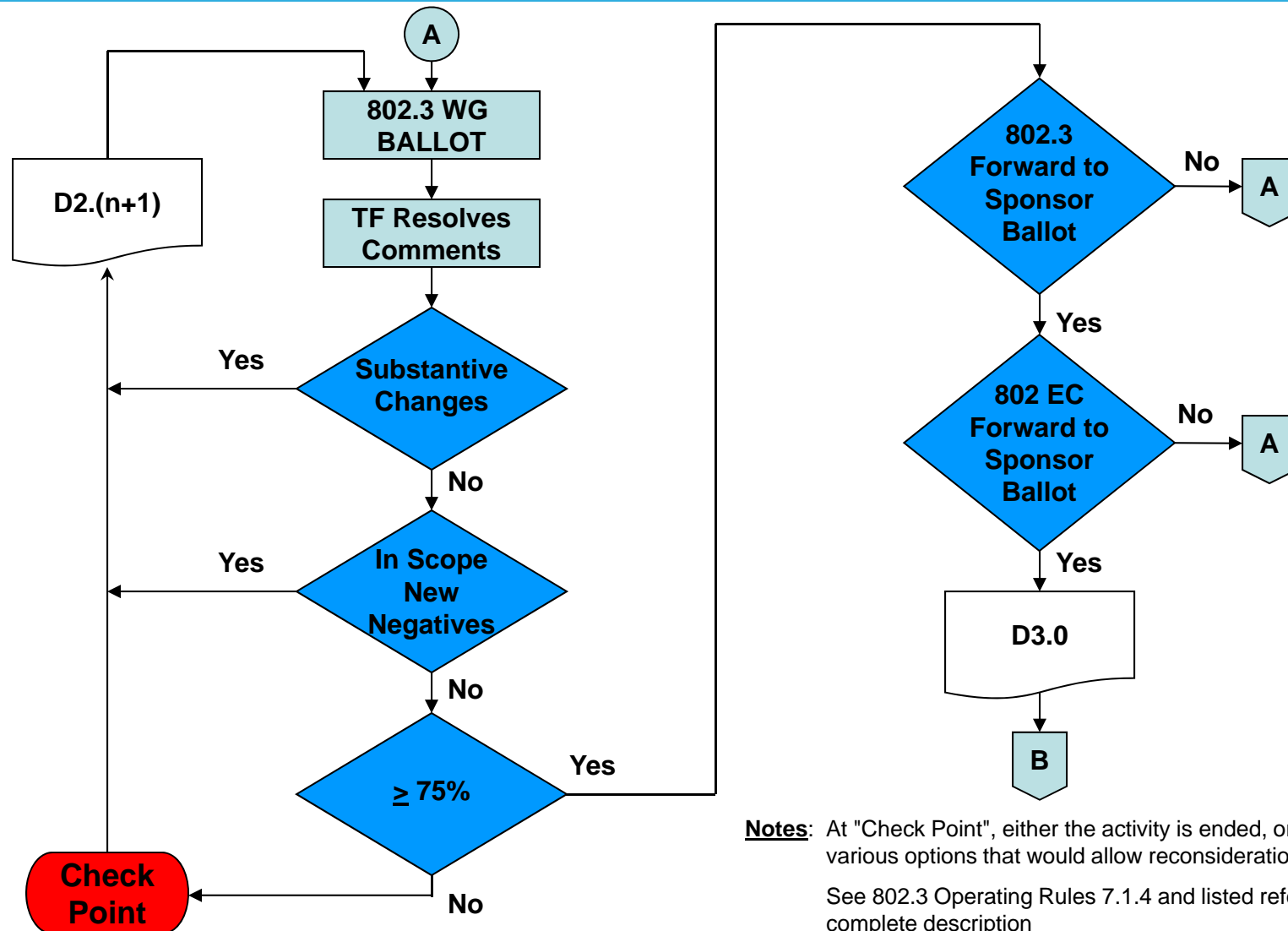


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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



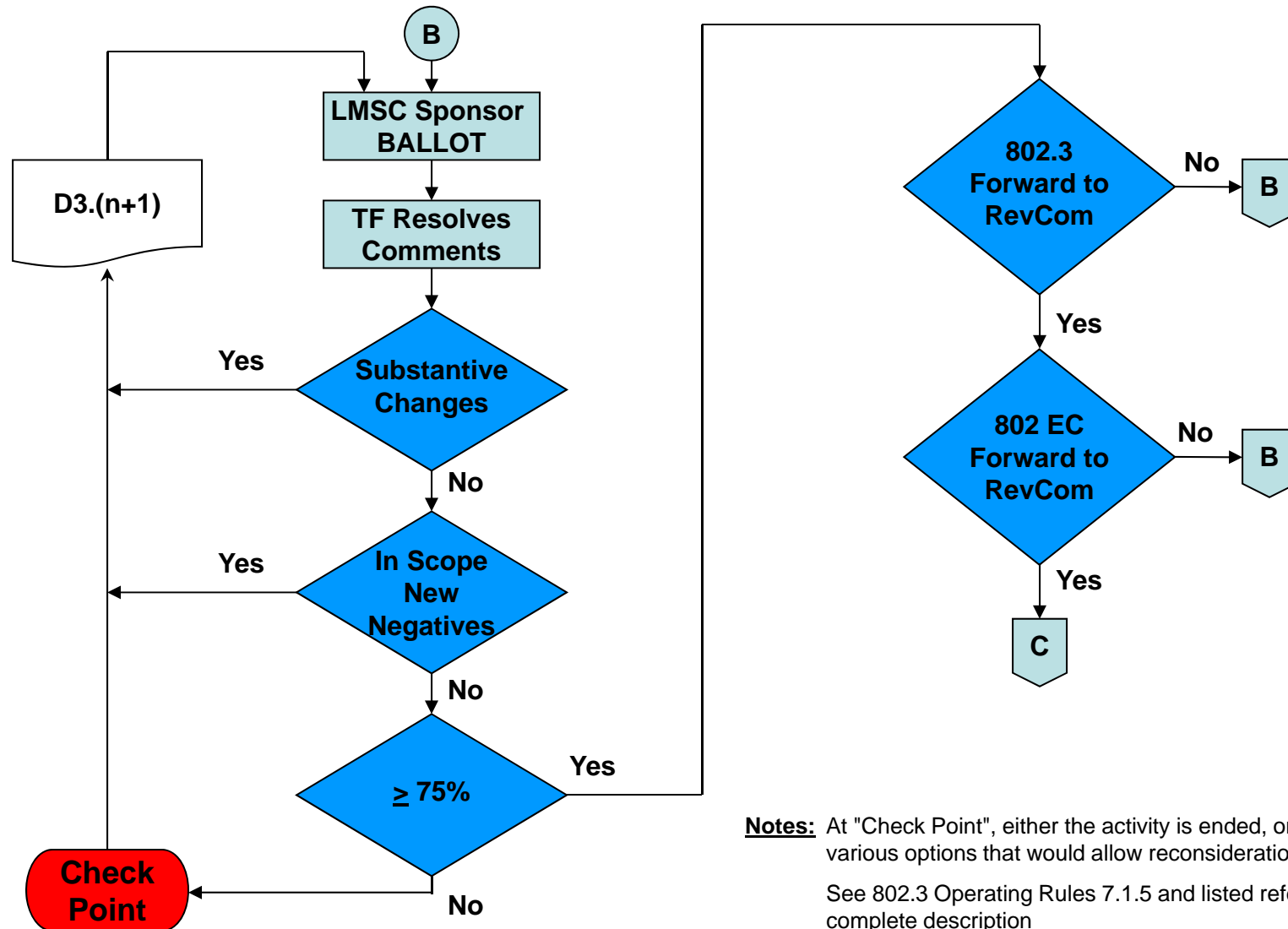
# Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



**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

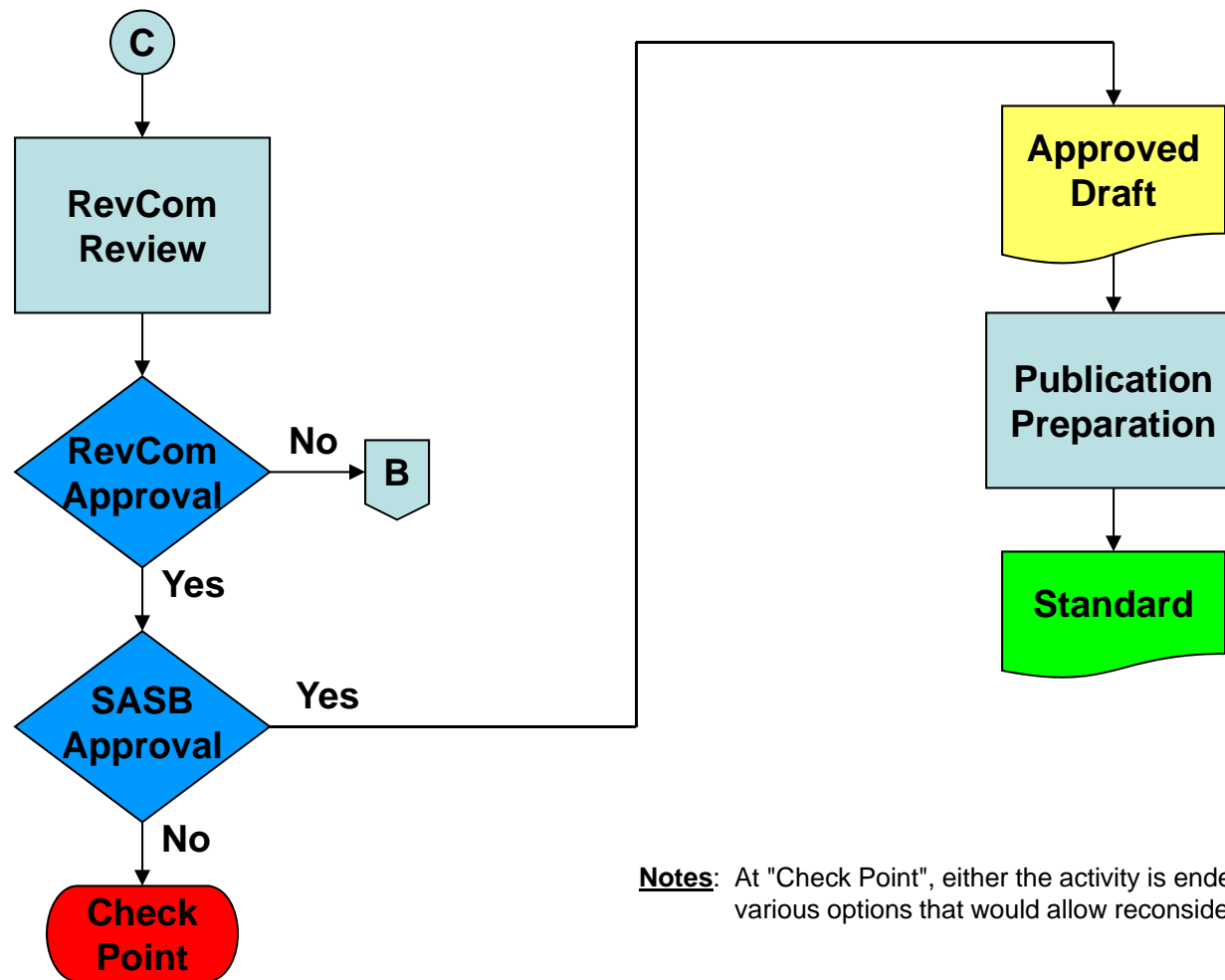
# Overview of IEEE 802.3 Standards Process (4/5)- Sponsor Ballot Phase



**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 reconsideration of the approval.

# The Study Group

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- Normal function is to draft a complete PAR and Five Criteria
- Provide a plenary week tutorial to the LMSC.
- 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.

# Request for Formation of Study Group (as per March 2011 Plenary Motion)

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Request that IEEE 802.3 WG form a study group to develop a PAR and 5 Criteria for a:

## **Reduced Twisted Pair Gigabit Ethernet PHY**

M: Steve Carlson

S: Marek Hajduczenia

Procedural (>50%)

Y: 77 N: 0 A: 3



# Liaisons and Communications

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- When we have them, they will go here

# Action Items

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- When we have them, they will go here

# Attendance

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- Tutorial Material on attendance tool
  - [http://ieee802.org/3/minutes/mar11/0311\\_imat.pdf](http://ieee802.org/3/minutes/mar11/0311_imat.pdf)
- URL (Valid for this meeting only)
  - URL: seabass.ieee.org/imat
  - Password will be provided
- Please sign the sheet that will be circulated each day

# Presentations

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The PAR form demystified

David Law

HP

[Review of the 5 Criteria](#)

John D'Ambrosia

Dell

[Project Objectives](#)

Marek Hajduczenia

ZTE

[Technical Feasibility - EMC](#)

Stefan Buntz

Daimler

[USE CASES & REQUIREMENTS  
FOR IEEE802.3 RTPGE](#)

Thomas Hogenmüller et al    Bosch et al

[Feasibility Framework for Reduced  
Twisted Pair Gigabit Ethernet  
\(RTPGE\)](#)

Mehmet Tazebay

Broadcom

Note –Times listed are subject to change.

# Presentations

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Reduced Twisted Pair Gigabit Ethernet SG Link segments

Chris DiMinico

MC Communications

Channel Framework for Reduced Twisted Pair Gigabit Ethernet

Mehmet Tazebay

Broadcom

A Feasibility Study of One Twisted Pair Gigabit Ethernet

Benson Huang

Realtek

An Overview of Energy-Efficient Ethernet

Mike Bennett, Wael Diab

LBNL, Broadcom

Reduced Pair Ethernet – Adjacent Markets

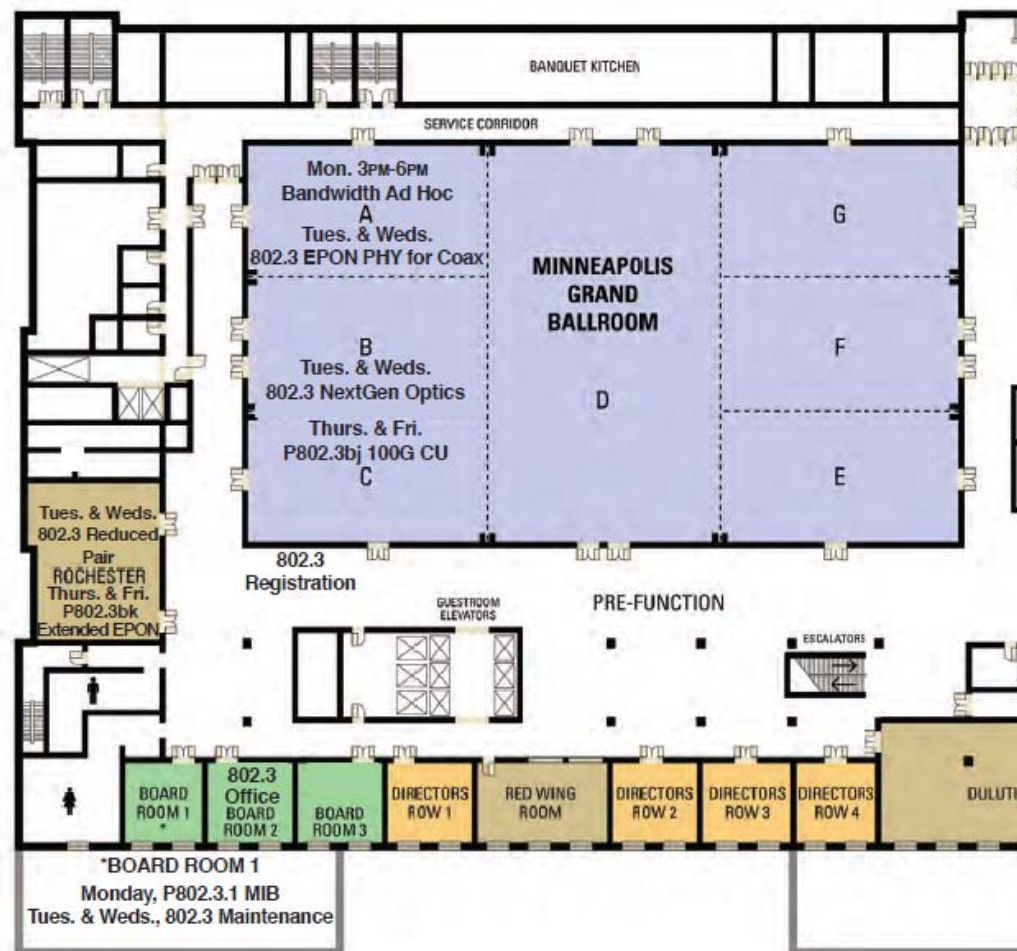
Hassaan Aslam

Broadcom

Note –Times listed are subject to change.

# Meeting Map

## THIRD FLOOR



# Future Meetings

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- See: <http://www.ieee802.org/3/interims/index.html>
- July 2012 Plenary
  - San Diego, CA
  - July 16 - 19
- September 2012 Interim
  - ITU, Geneva, CH
  - September 24 - 28
- November 2012 Plenary
  - San Antonio, TX
  - November 12 - 15
- Anyone interested in hosting a meeting contact me.



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# Thank You!