Agenda and General Information

IEEE 802.3

Reduced Twisted Pair Gigabit Ethernet PHY

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High Speed Design, Inc.

Minneapolis, MN, USA – May 15-16 2012

Agenda

- *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

- 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

- To subscribe to the RTPGE reflector, send an email to:

  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:

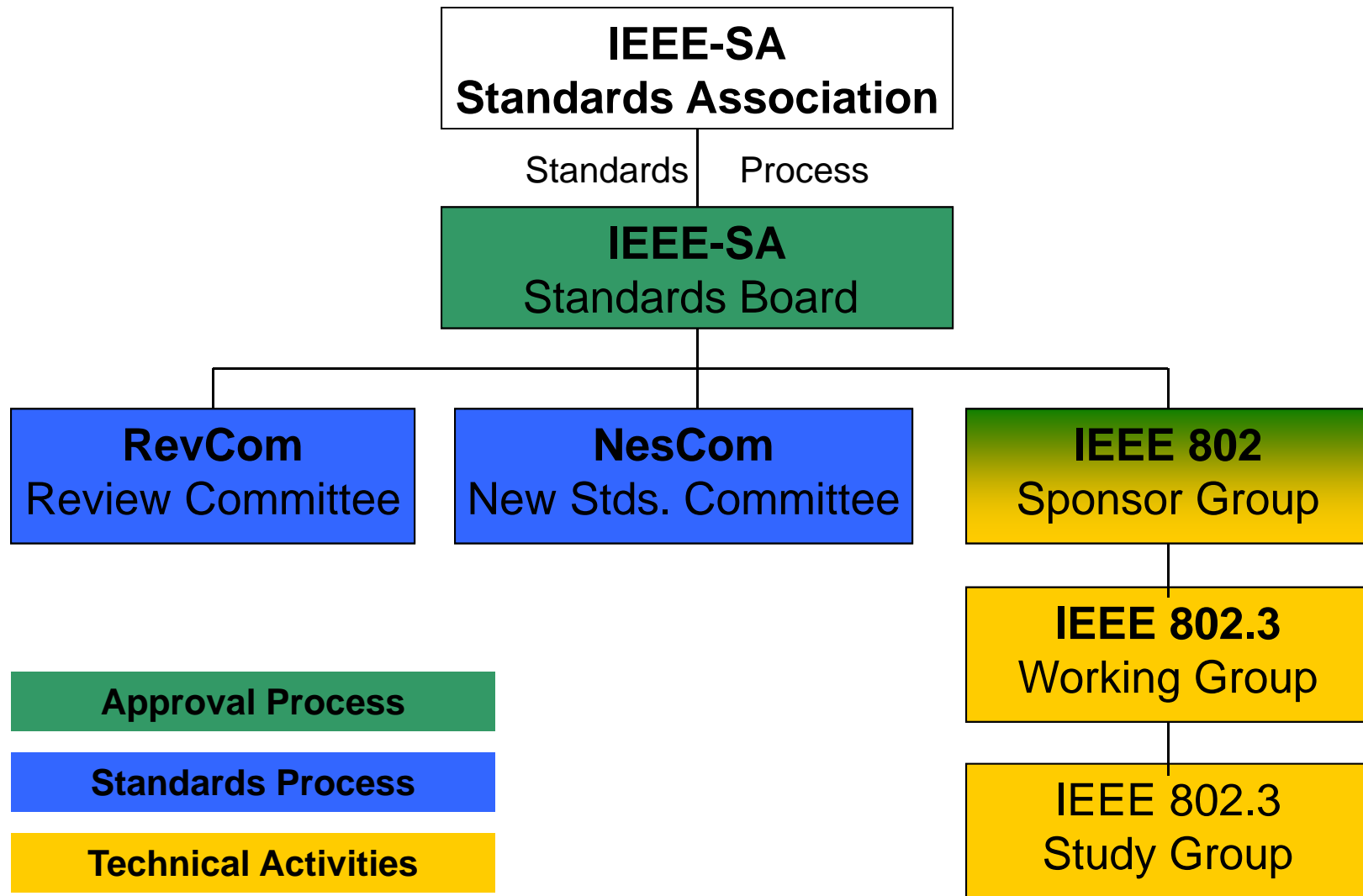 **stds-802-3-RTPGE** *@listserv.ieee.org*

- Study Group web page URL:

  www.ieee802.org/3/RTPGE/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

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

RevCom	NesCom	IEEE 802
Review Committee	New Stds. Committee	Sponsor Group

IEEE 802.3
Working Group

IEEE 802.3
Study Group

Approval Process	
Standards Process	
Technical Activities	

Important Bylaws and Rules

- **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

- **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

- **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.**

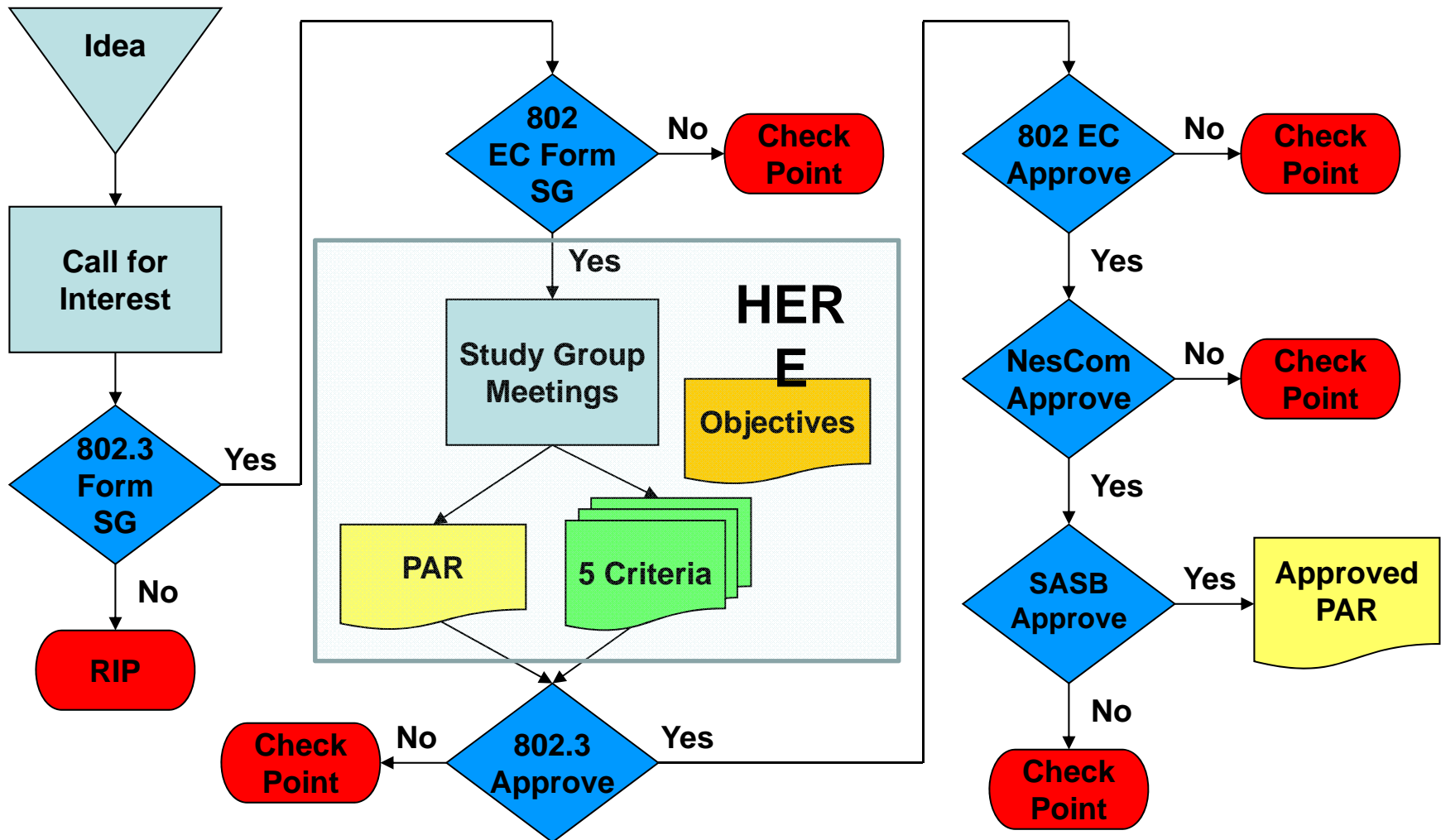- **Don't be silent if inappropriate topics are discussed… do formally object.**

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
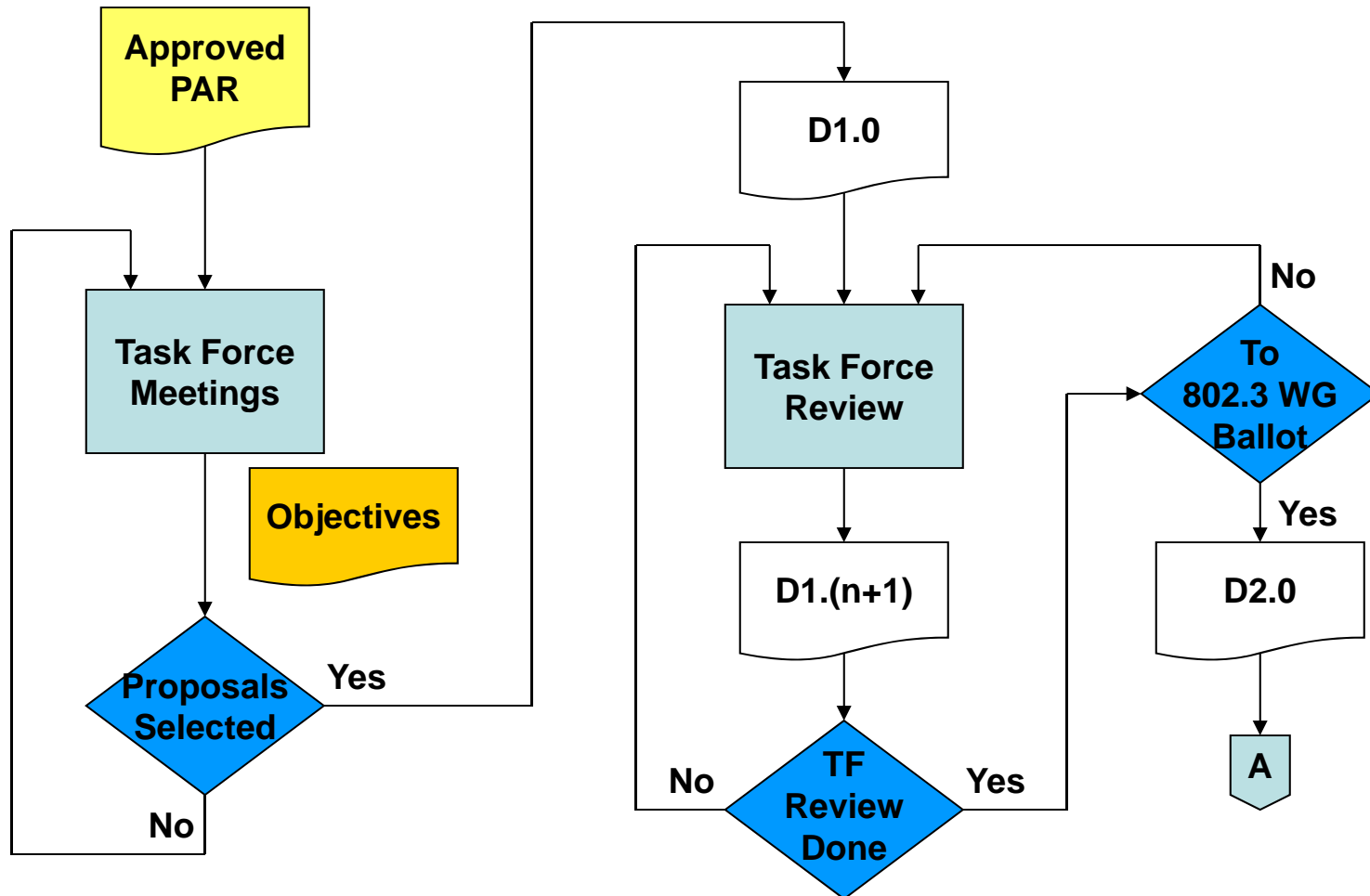
◆IEEE

25 Mar 2008

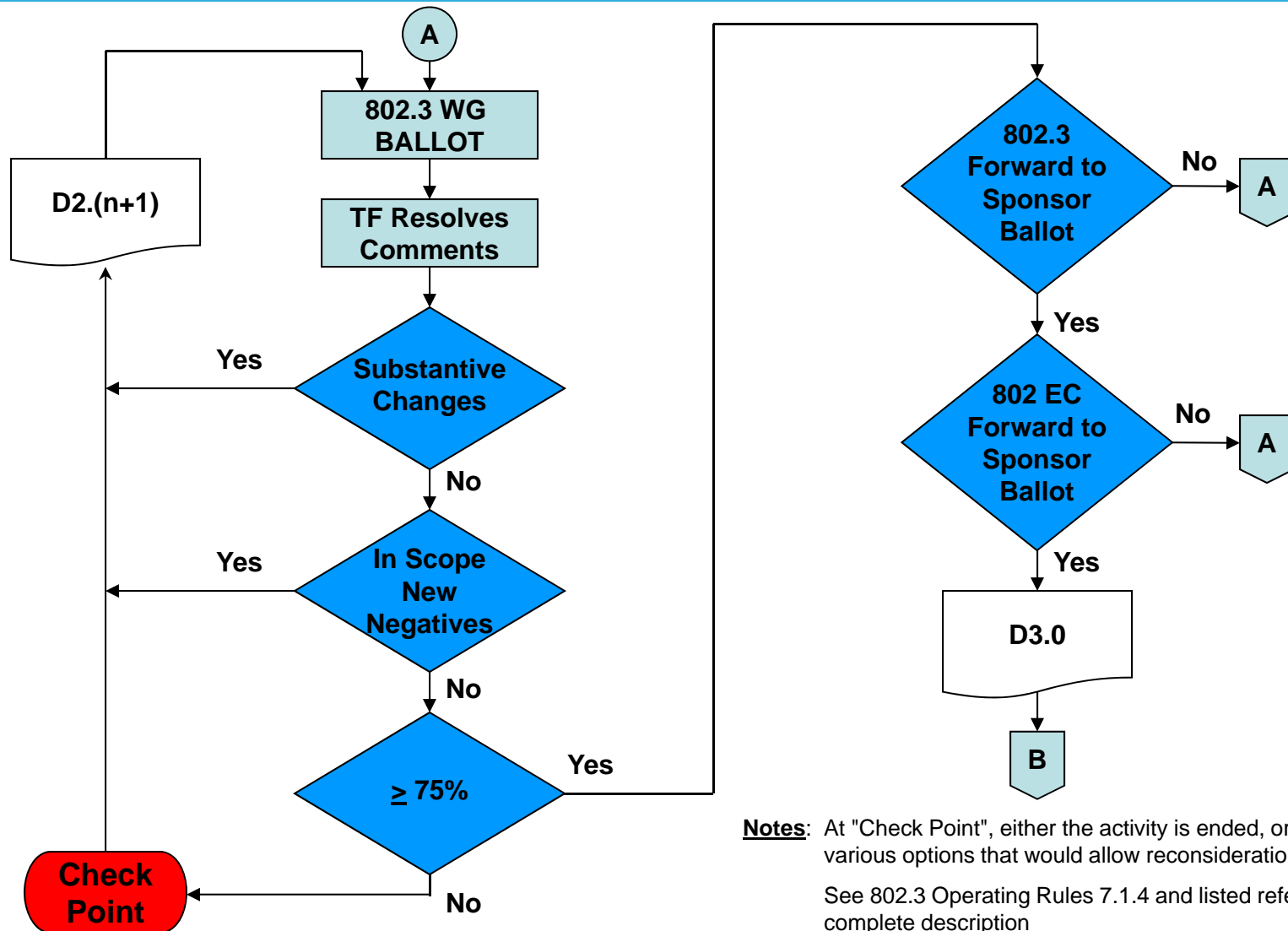# Overview of IEEE 802.3 Standards Process (1/5)- Study Group Phase

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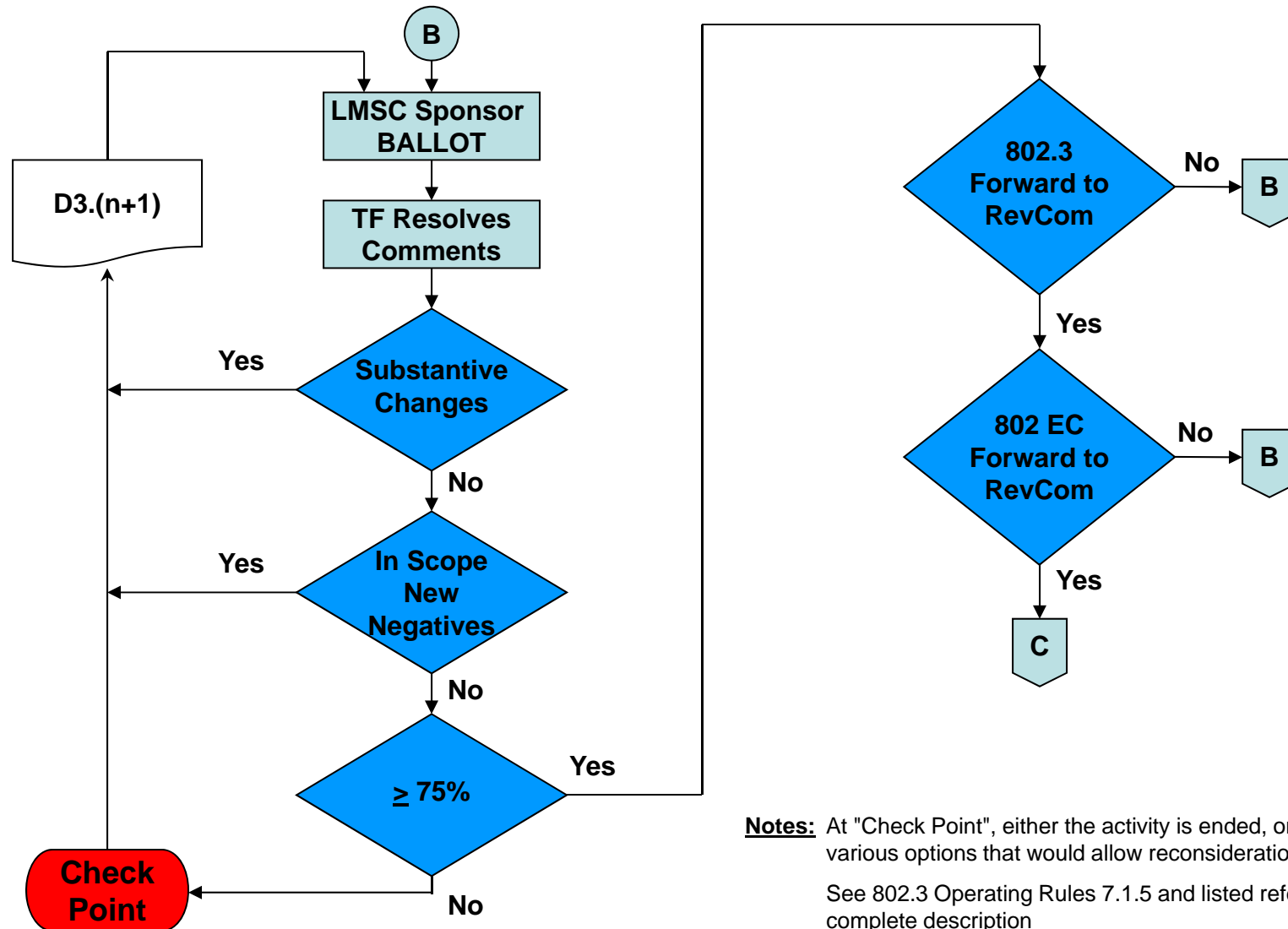
Notes: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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

D3.(n+1)

Substantive Changes — Yes

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.

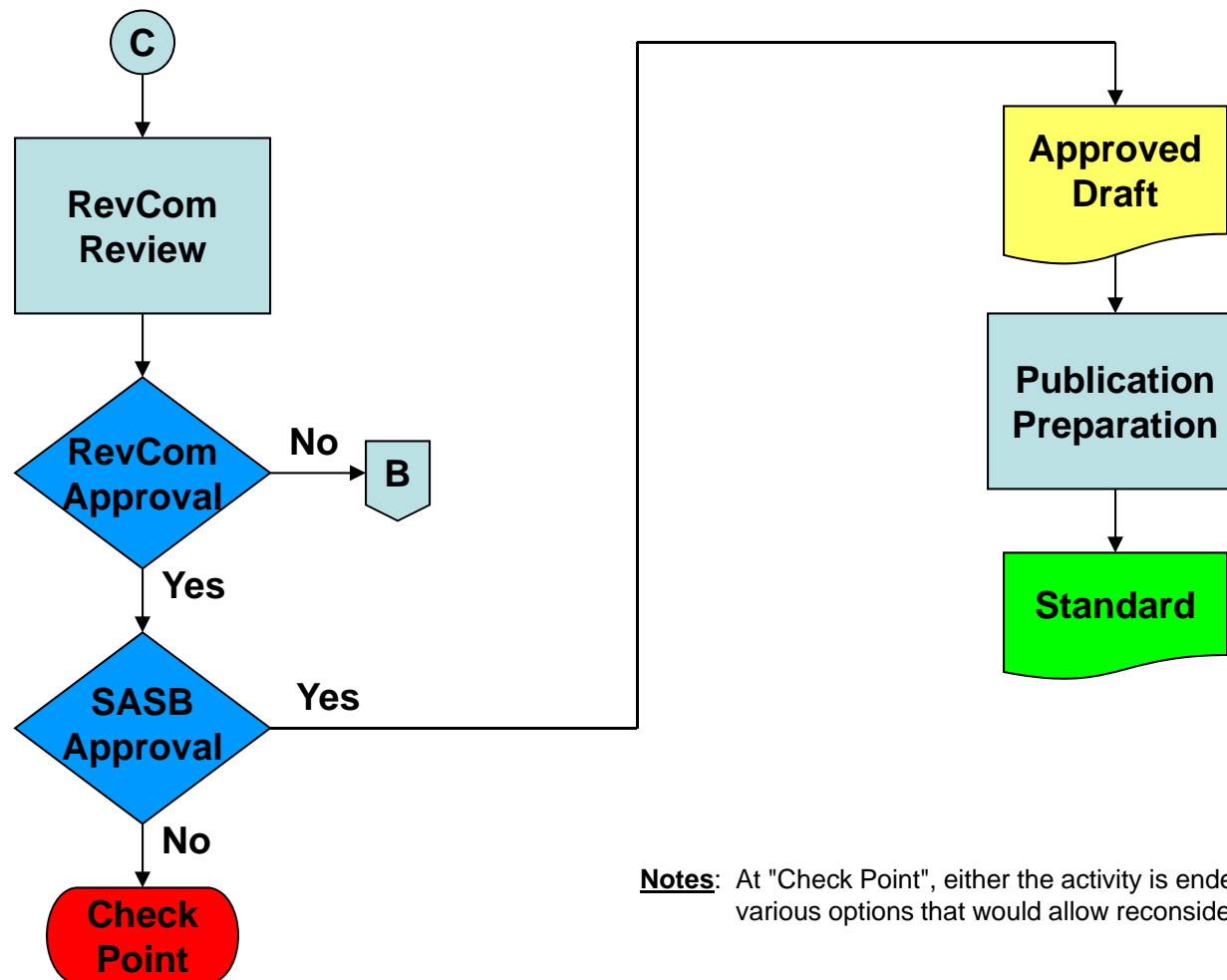See 802.3 Operating Rules 7.1.5 and listed references for complete description

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.

The Study Group

- 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)

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

- When we have them, they will go here

Action Items

- When we have them, they will go here

Attendance

- Tutorial Material on attendance tool
  - 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

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

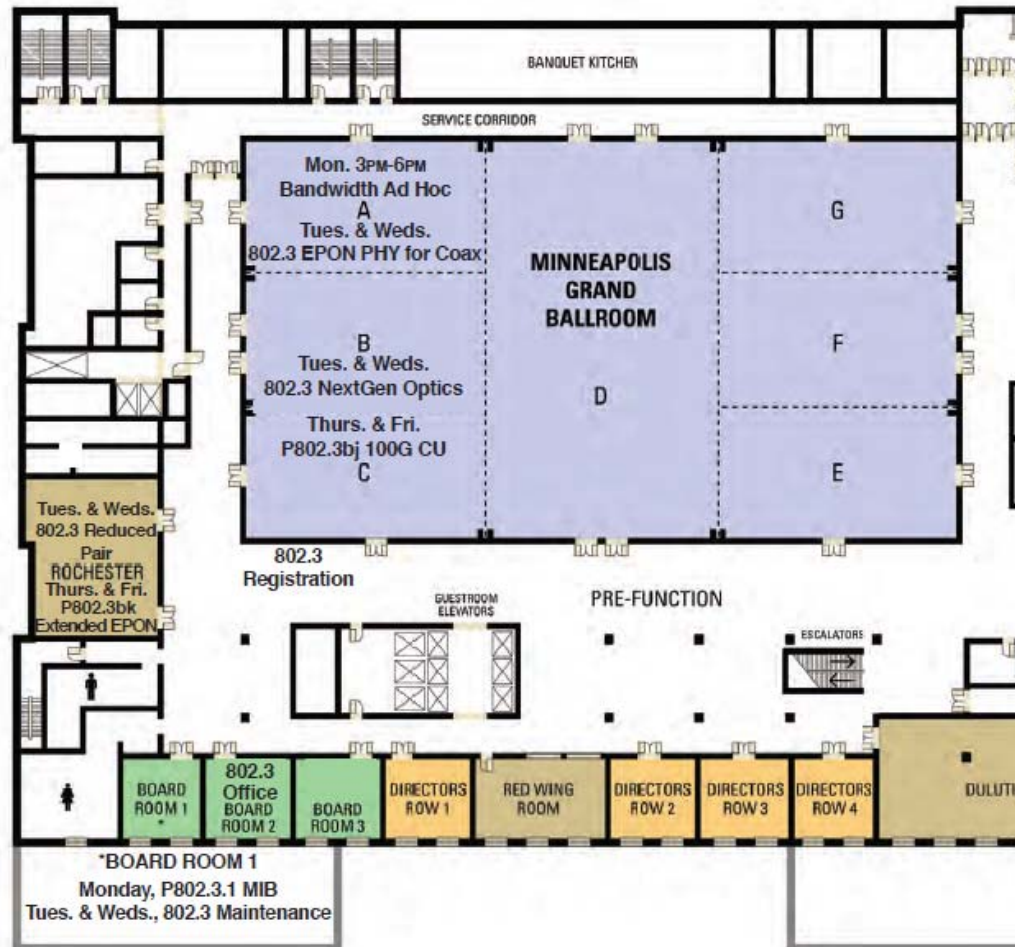|		
Reduced Twisted Pair Gigabit Ethernet SG Link segments	Chris DiMinico	MC Communications
Channel Framework for Reduced Twisted Pair Gigabit Ethernet	Mehmet Tazebay	Broadcom
A Feasibility Study of One Twisted Pair Gigabit Ethernet	Benson Huang	Realtek
An Overview of Energy-Efficient Ethernet	Mike Bennett, Wael Diab	LBNL, Broadcom
Reduced Pair Ethernet – Adjacent Markets	Hassaan Aslam	Broadcom
Industrial Environment	Ludwig Winkel	Siemens

Note –Times listed are subject to change.

Meeting Map

THIRD FLOOR

BANQUET KITCHEN

SERVICE CORRIDOR

Mon. 3PM-6PM
Bandwidth Ad Hoc
A
Tues. & Weds.
802.3 EPON PHY for Coax

MINNEAPOLIS
GRAND
BALLROOM

G

B
Tues. & Weds.
802.3 NextGen Optics

F

Thurs. & Fri.
P802.3bj 100G CU
C

D

E

Tues. & Weds.
802.3 Reduced
Pair
ROCHESTER
Thurs. & Fri.
P802.3bk
Extended EPON

802.3
Registration

GUESTROOM
ELEVATORS

PRE-FUNCTION

ESCALATORS

BOARD
ROOM 1

802.3
Office
BOARD
ROOM 2

BOARD
ROOM 3

DIRECTORS
ROW 1

RED WING
ROOM

DIRECTORS
ROW 2

DIRECTORS
ROW 3

DIRECTORS
ROW 4

DULUTH

*BOARD ROOM 1
Monday, P802.3.1 MIB
Tues. & Weds., 802.3 Maintenance

Future Meetings

- 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.

Thank You!