Agenda and General Information

IEEE 802.3

Reduced Twisted Pair Gigabit Ethernet PHY

Steven B. Carlson

High Speed Design, Inc.

ITU Geneva CH – September 27 -28, 2012

Agenda

- *Appointment of Recording Secretary*
- 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 in order to finalize for November
- 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:
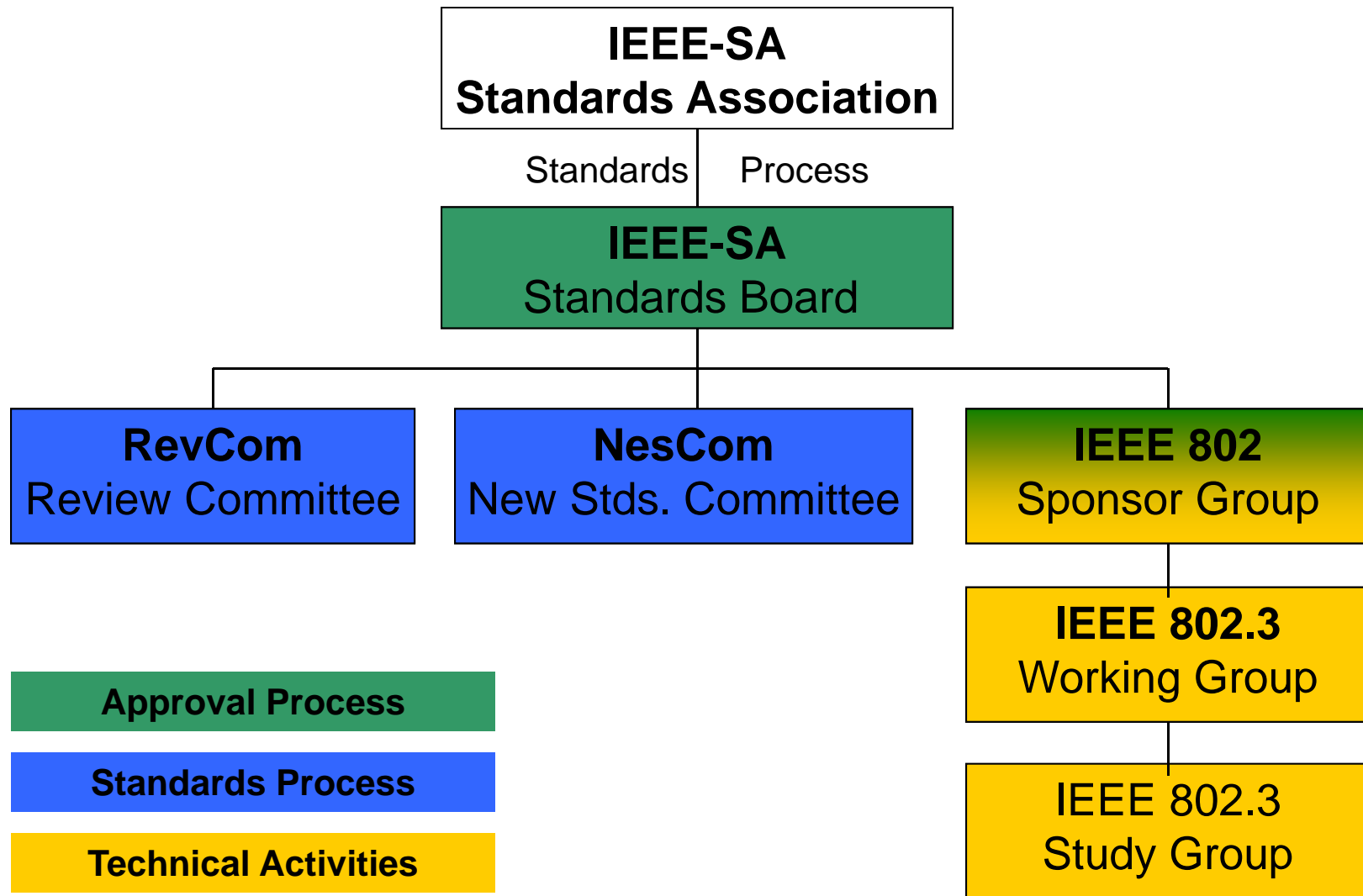 **stds-802-3-RTPGE** **_@listserv.ieee.org_**

- 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.**

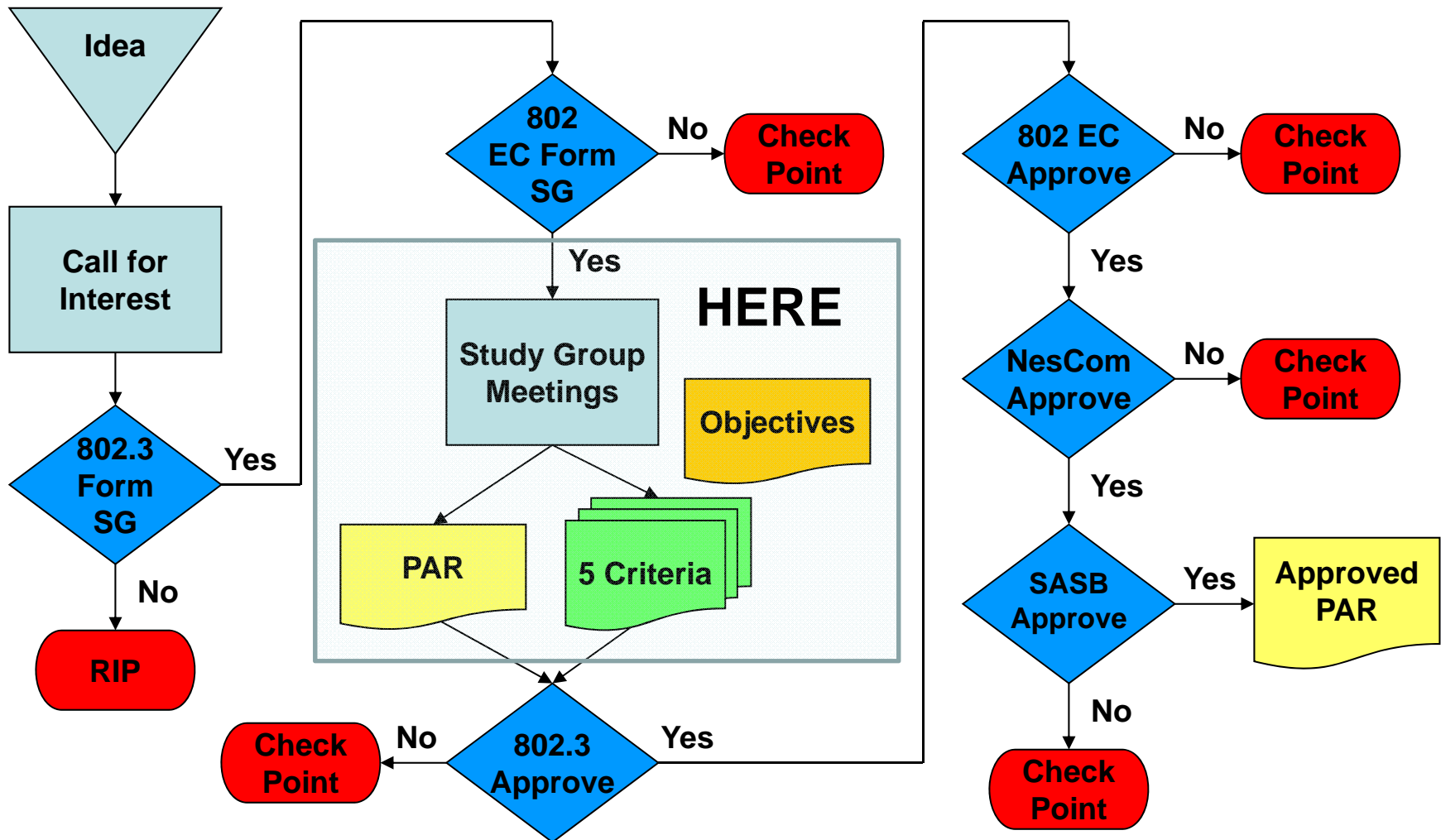- **Don't be silent if inappropriate topics are discussed… do formally object.**

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
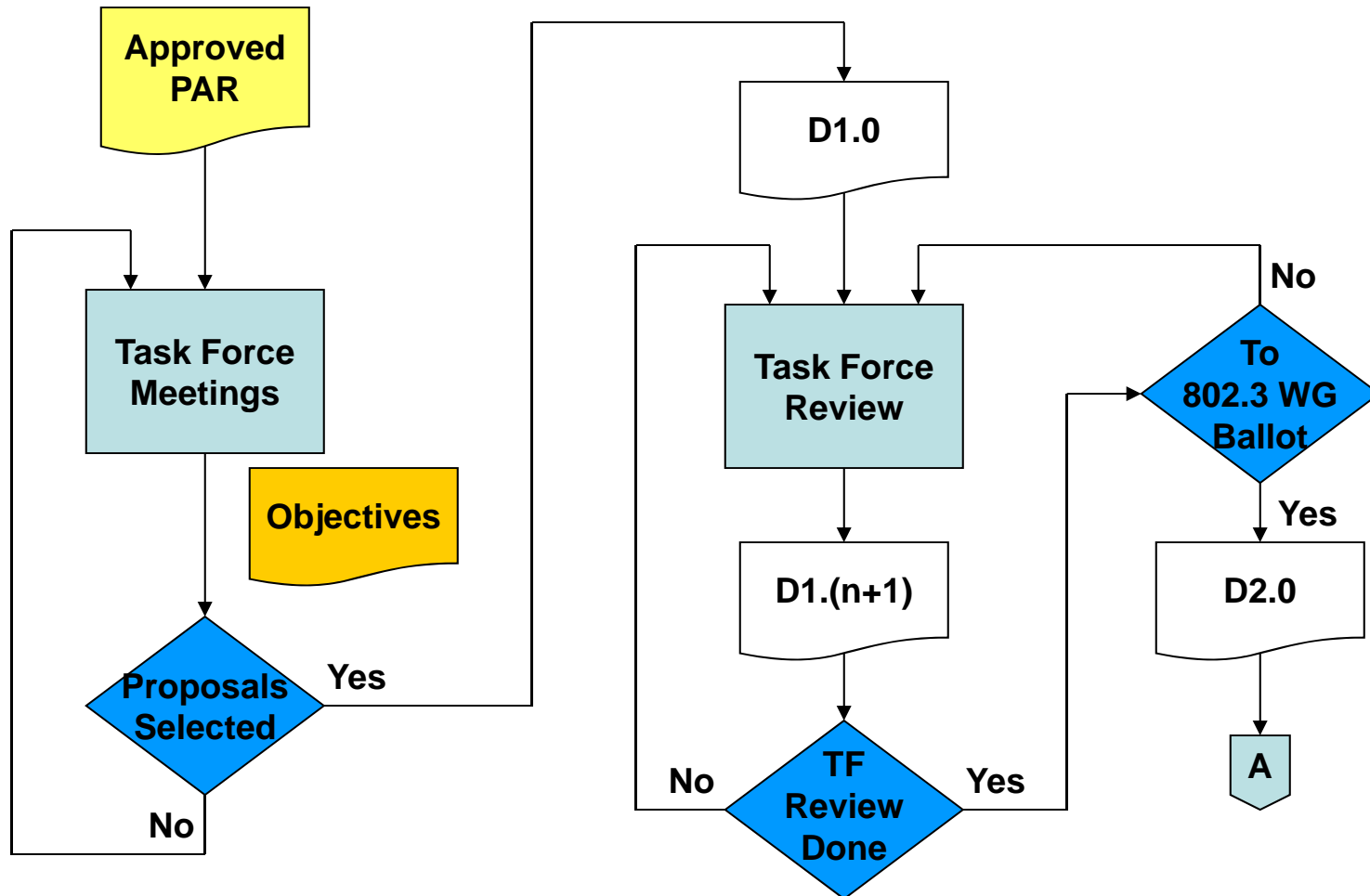
◆IEEE

25 Mar 2008

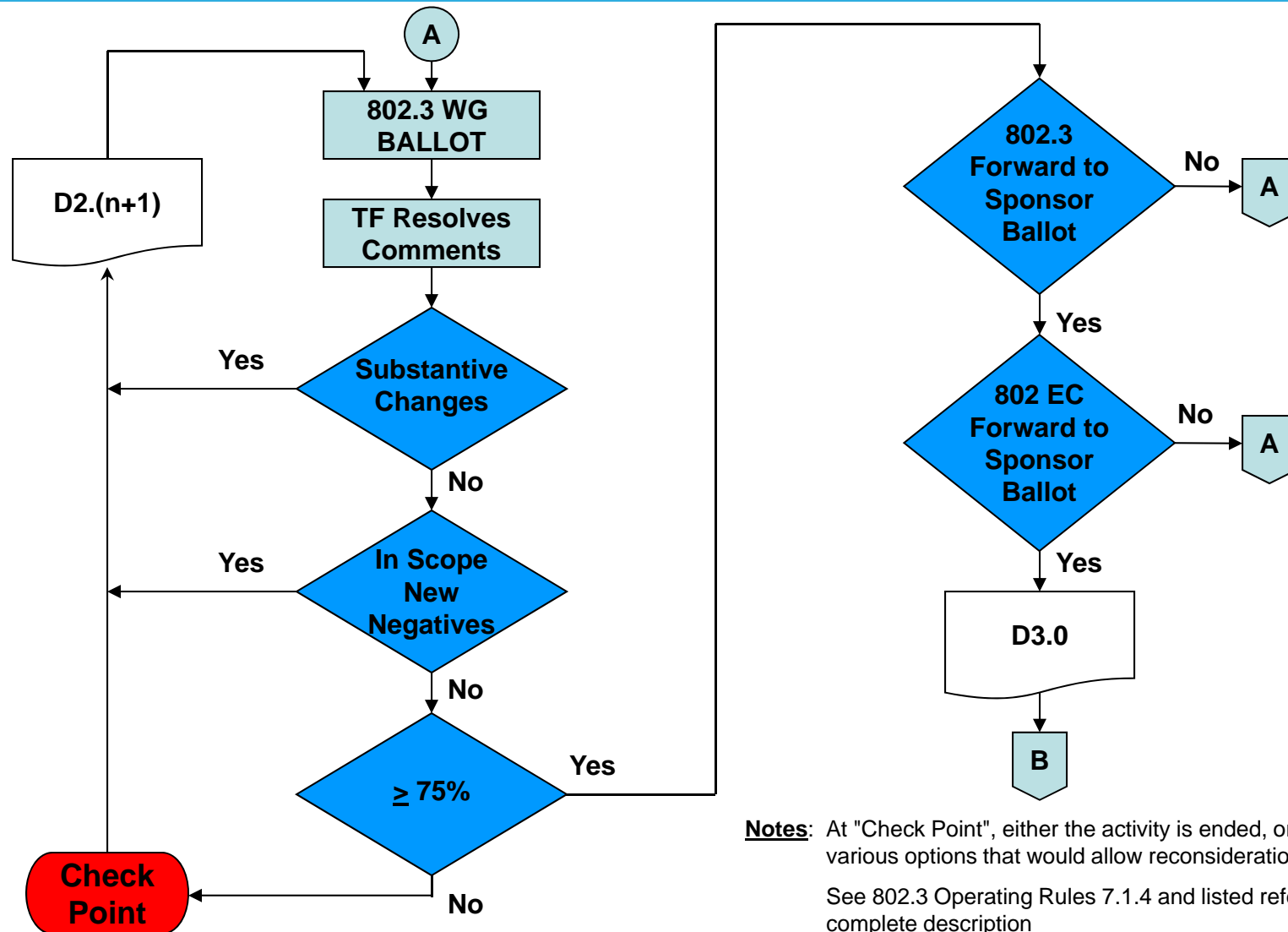# Overview of IEEE 802.3 Standards Process (1/5)- Study Group Phase

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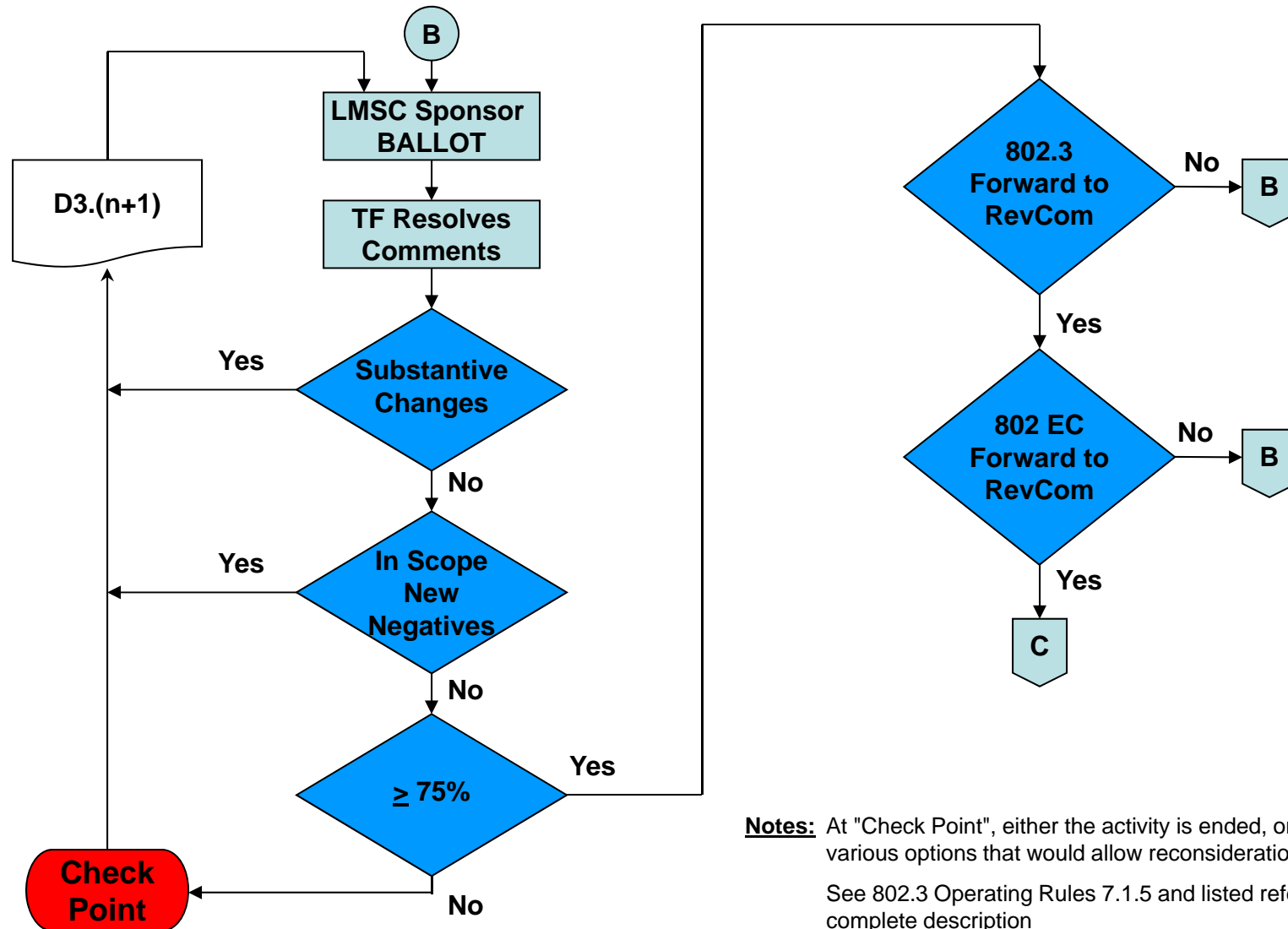
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase

A

802.3 WG BALLOT

D2.(n+1)

TF Resolves Comments

Substantive Changes — Yes

No

In Scope New Negatives — Yes

No

≥ 75% — Yes

No

Check Point

802.3 Forward to Sponsor Ballot — No → **A**

Yes

802 EC Forward to Sponsor Ballot — No → **A**

Yes

D3.0

B

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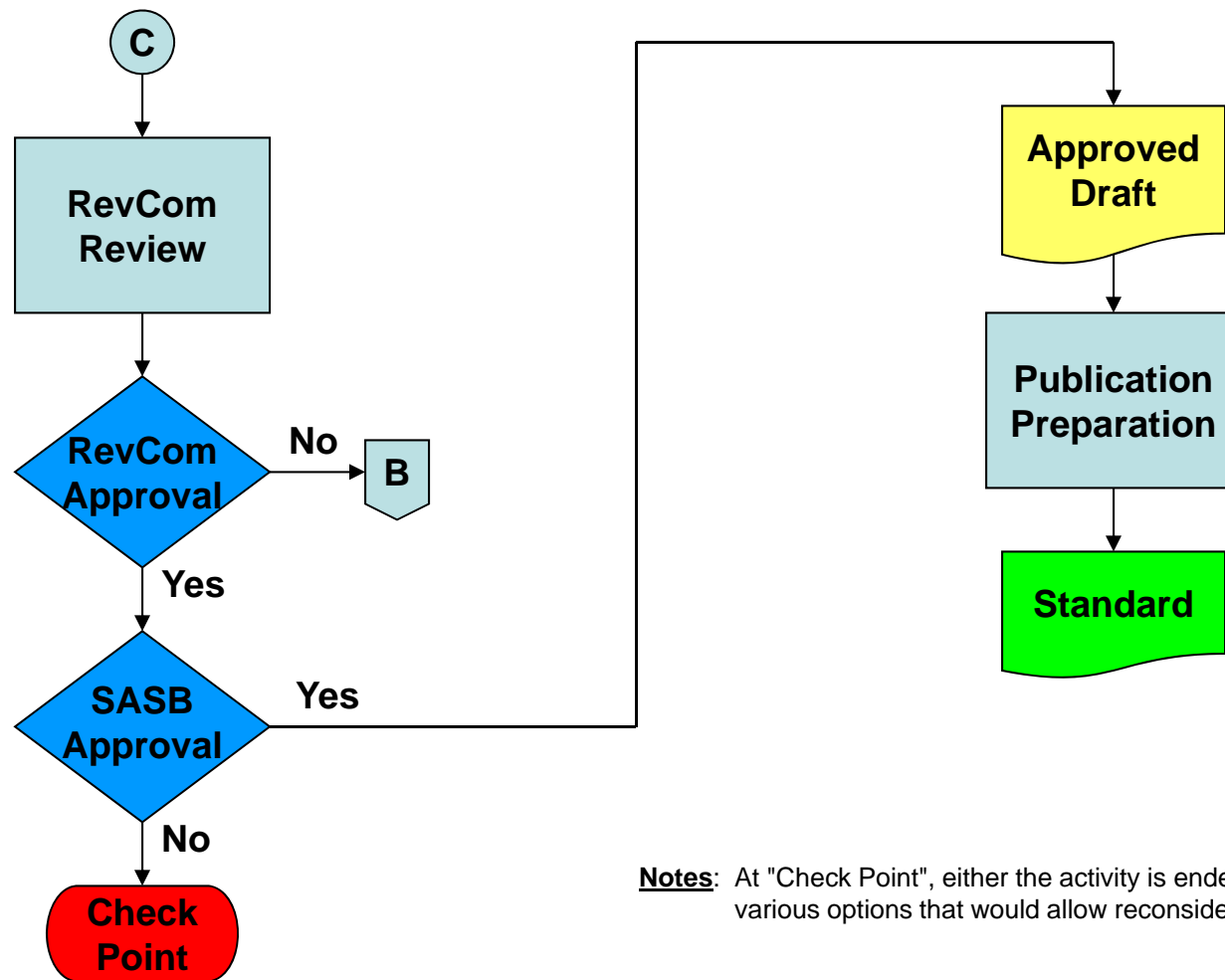
Overview of IEEE 802.3 Standards Process (4/5)- Sponsor Ballot Phase

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

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

- Reports from ad hocs from July meeting
- Vote on final SG versions PAR, 5C, and objectives
- Prepare for November plenary and TF request to 802.3 WG

Attendance

- Tutorial Material on attendance tool
  - http://ieee802.org/3/minutes/mar11/0311_imat.pdf

- URL
  - URL: imat.ieee.org

- Please sign the sheet that will be circulated each day

Presentations

Agenda and General Information	Steve Carlson	High Speed Design, Inc.
RTPGE Survey Ad Hoc Report 8-11-2012	Channel Ad Hoc	
802.3 RTPGE Draft Channel Reach Objective	Mehmet Tezebay	Broadcom
PAR and Five Criteria Updates	RTPGE SG- Steve Carlson	
Noise considerations for RTPGE objectives	Gavin Parnaby	Marvell
RTPGE Technical Feasibility Study of PHY and Cabling System	Mabud Choudhury, Richard Mei	Commscope
	Gavin Parnaby, Dance Wu	Marvell
	George Zimmerman	CME -Commscope

Note –Times and order listed are subject to change.

Tutorial for adoption of PAR, 5C, objectives

The adoption of a DRAFT PAR, 5C and objectives is done by technical motions (>75%) approval. The motions should look like this example:

MOTION #X (the Recording Secretary will keep track of the motion numbers)

Adopt objectives 1, 2, 4, 7, and 9 from "presenter_name_xx_0712.pdf".

Moved:
Second:
Technical (75%)

Y: N: A:

Our goal for this meeting is to adopt the final SG versions PAR, 5C and objectives

Tutorial for adoption of PAR, 5C, objectives

Geneva Interim

Any proposed changes will be presented and voted on in Geneva. At the Geneva interim the goal is to adopt a final PAR, 5C and objectives. These will be sent to the 802.3 WG Chair for submission to the EC and previewed to the 802.3 WG prior to the November Plenary.

San Antonio Plenary

At the closing 802.3 WG plenary, the PAR, 5C and objectives will be presented and voted on by the WG. Each of the 5C are voted separately. The WG may request changes to the wording of any of the material submitted to them for a vote.

Post-plenary

The PAR and 5C are forwarded to the EC for approval, then sent on to NesCom and finally the SASB. If we maintain our timeline we should be on the December SASB agenda. When our project is approved, we become the IEEE 802.3bp Task Force.

Future Meetings

- See: http://www.ieee802.org/3/interims/index.html

- November 2012 Plenary
  - San Antonio, TX
  - November 12 - 15

- Anyone interested in hosting a meeting contact me.

Thank You!