

Agenda and General Information

IEEE 802.3

Next Generation BASE-T Study Group

Bill Woodruff - Acting
Broadcom

Geneva, 24 & 25 September 2012

Agenda

- 802.3 Working Group Chair opens meeting
- Appointment of Recording Secretary
- Confirmation of Study Group 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

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

- Outline Study Group processes
- Hear technical tutorials and presentations supporting the development of the project documentation
 - Objectives
 - PAR
 - 5C
- Lay the ground work for the next meeting

Reflector and Web

- To subscribe to the Next Generation BASE-T reflector, send an email to:

ListServ@ieee.org

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

subscribe NGBASE-T <*yourfirstname*> <*yourlastname*>

end

- Send NGBASE-T reflector messages to:

STDS-802-3-NGBASET@listserv.ieee.org

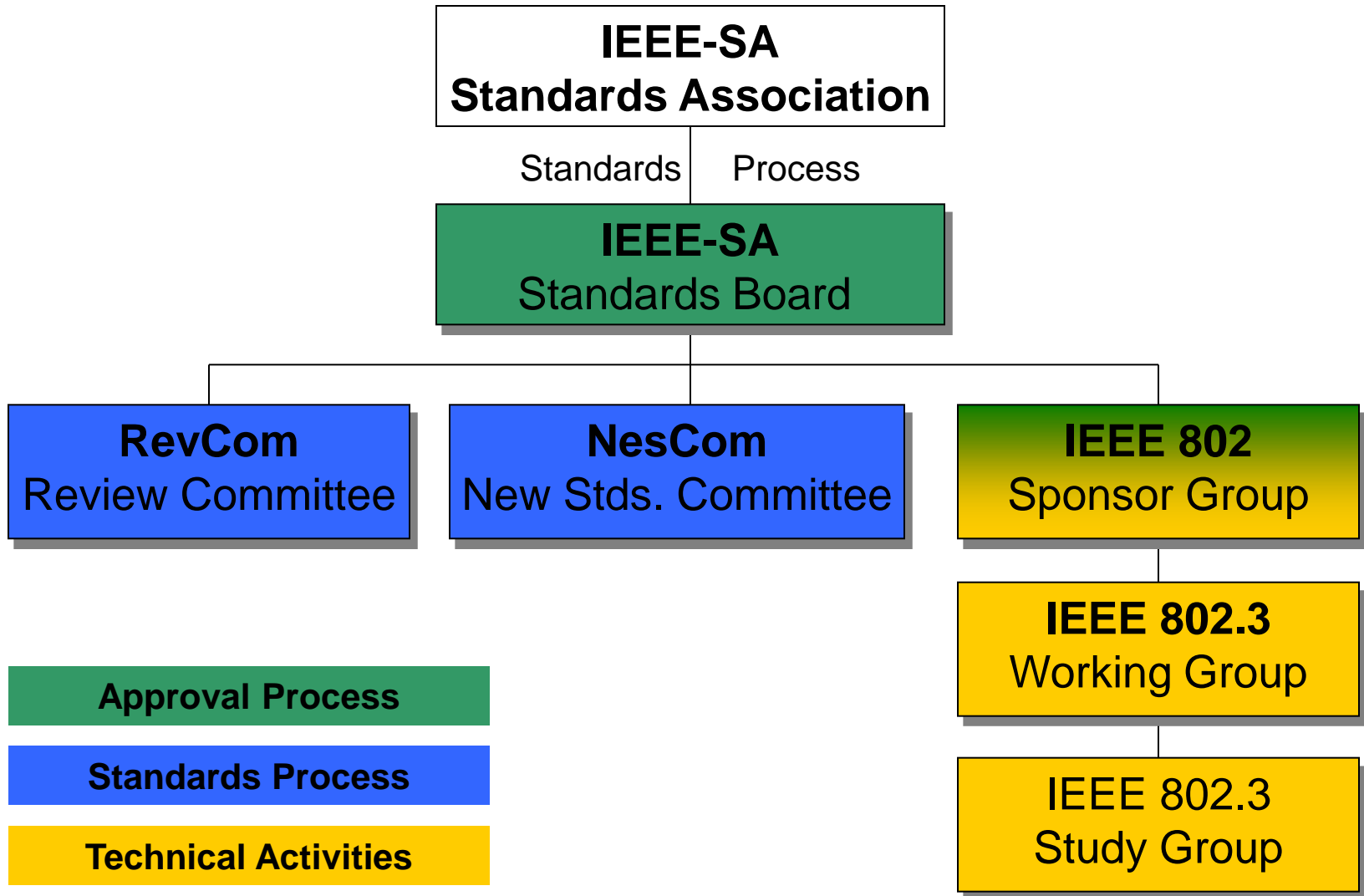
- Study Group web page URL:

<http://www.ieee802.org/3/NGBASET/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/
- **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/PNP/2012-03/IEEE_802_LMSC_OM_approved_120604.pdf
- **IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG) Policies and Procedures**
http://www.ieee802.org/PNP/2012-03/IEEE_802_LMSC_WG_PandP_approved_120604.pdf
- **IEEE 802.3 Working Group Operating Rules**
http://ieee802.org/3/rules/P802_3_rules.pdf

Guidelines for IEEE-SA Meetings

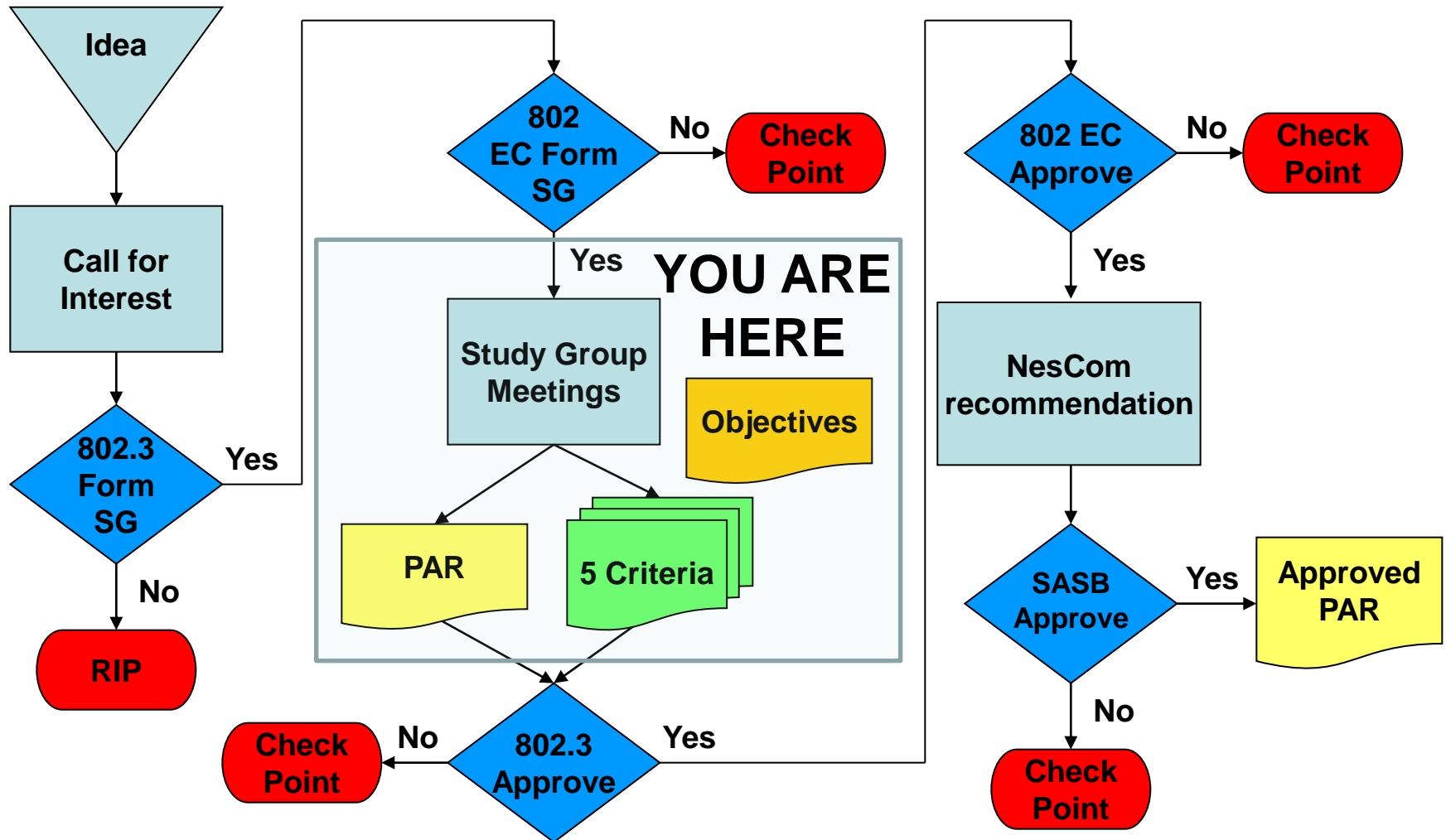
- | **All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.**
- | **Don't discuss the interpretation, validity, or essentiality of patents/patent claims.**
- | **Don't discuss specific license rates, terms, or conditions.**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

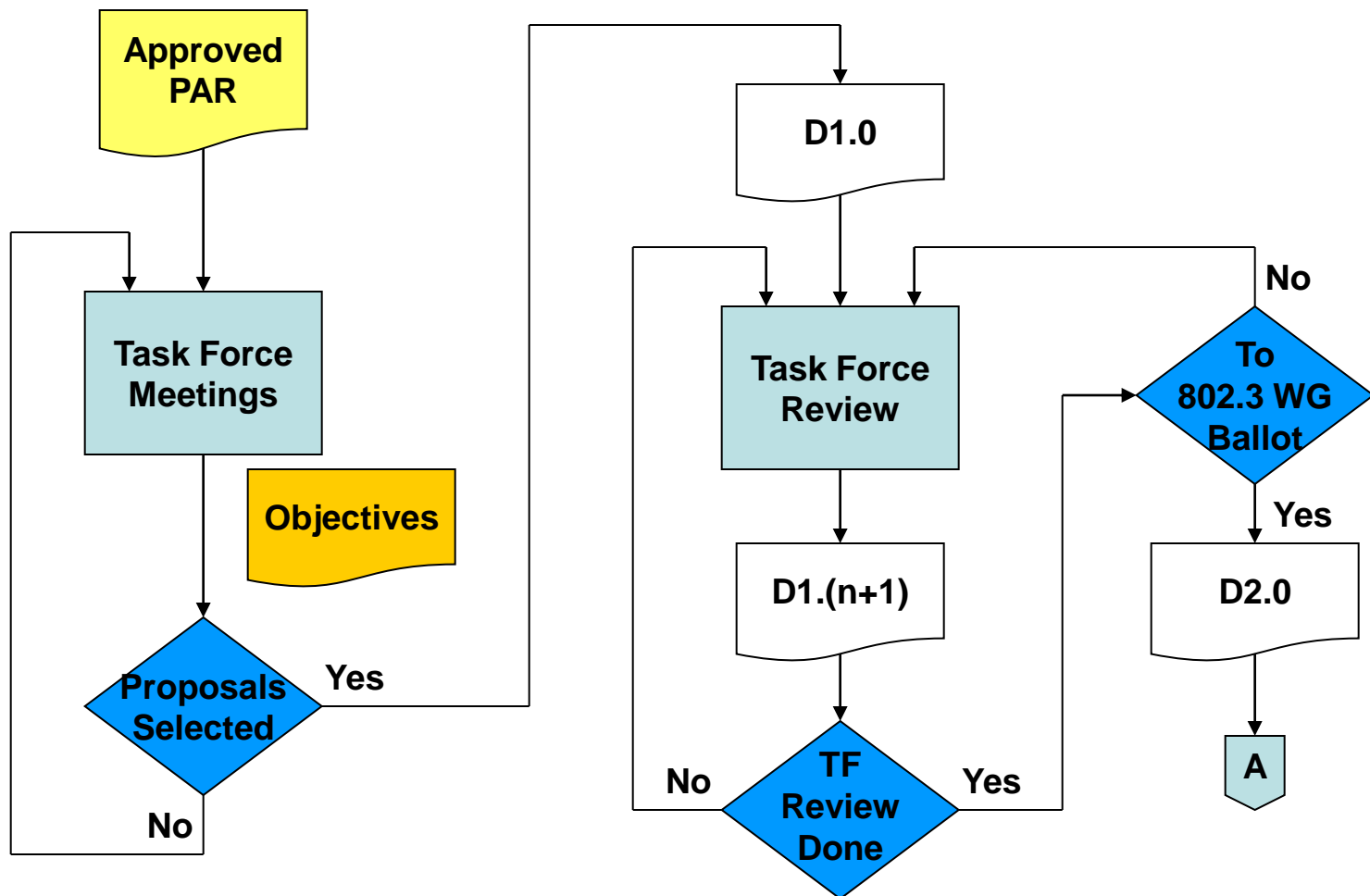
This slide set is available
at <https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt>

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

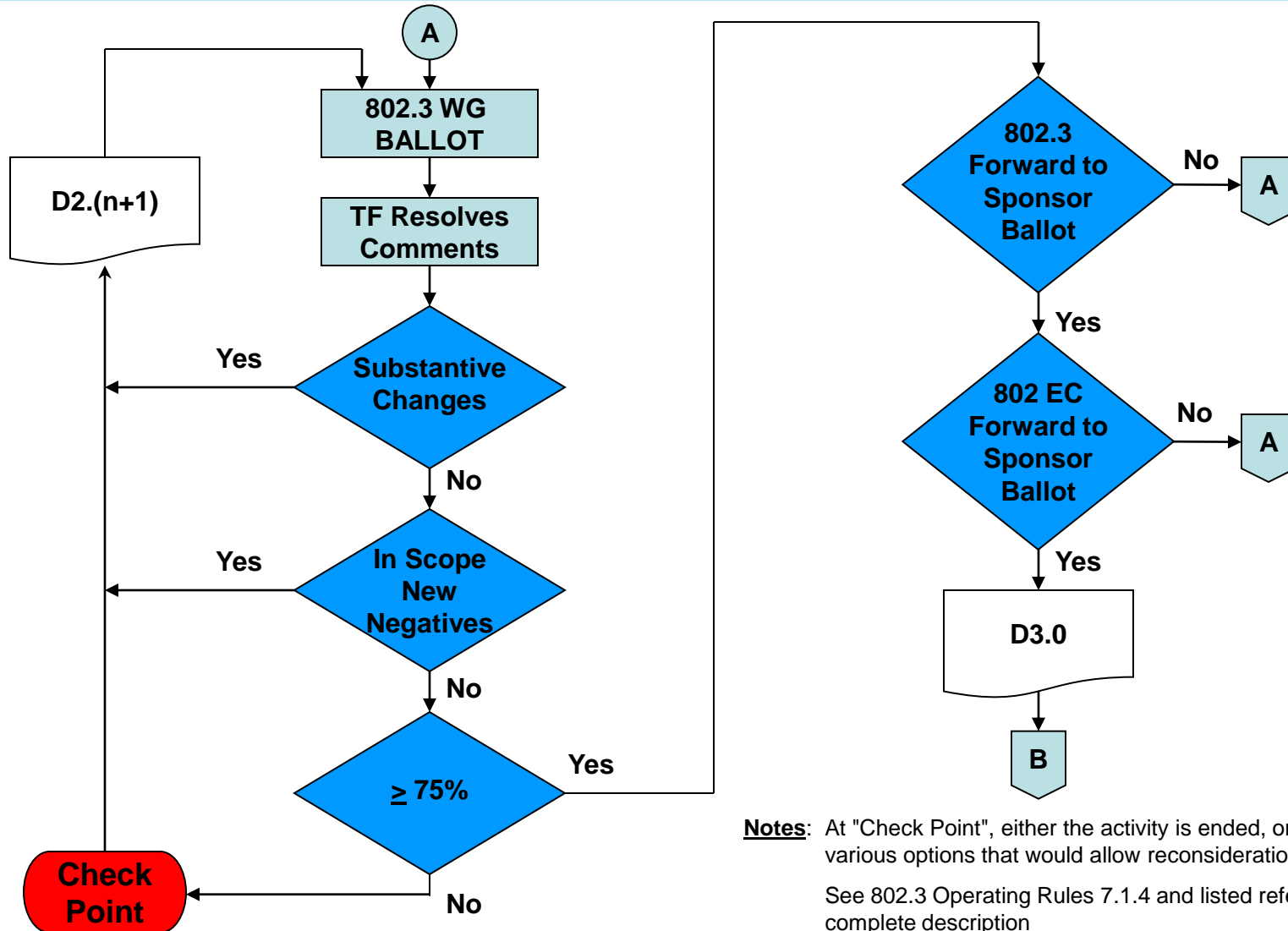


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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

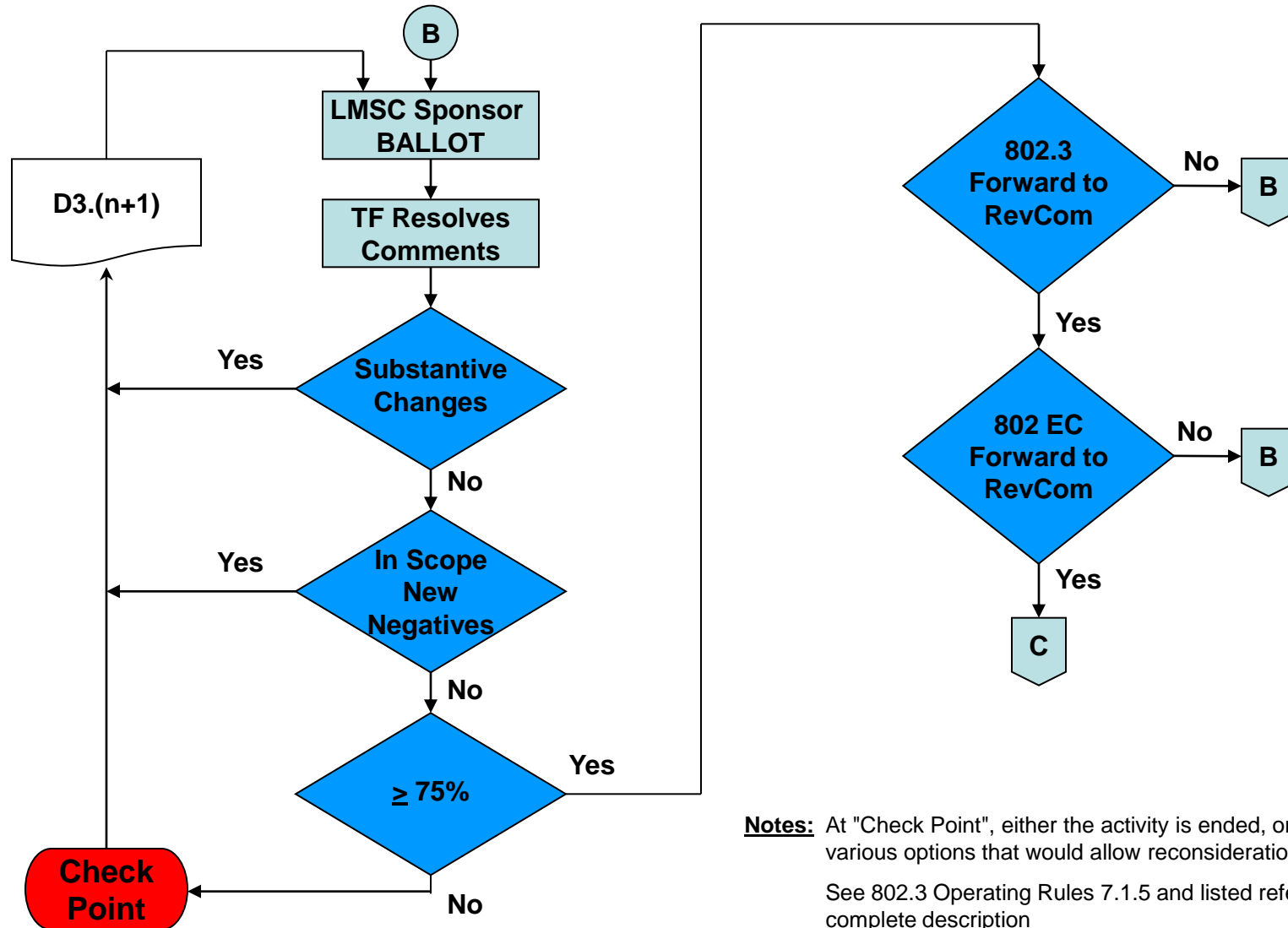


Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



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

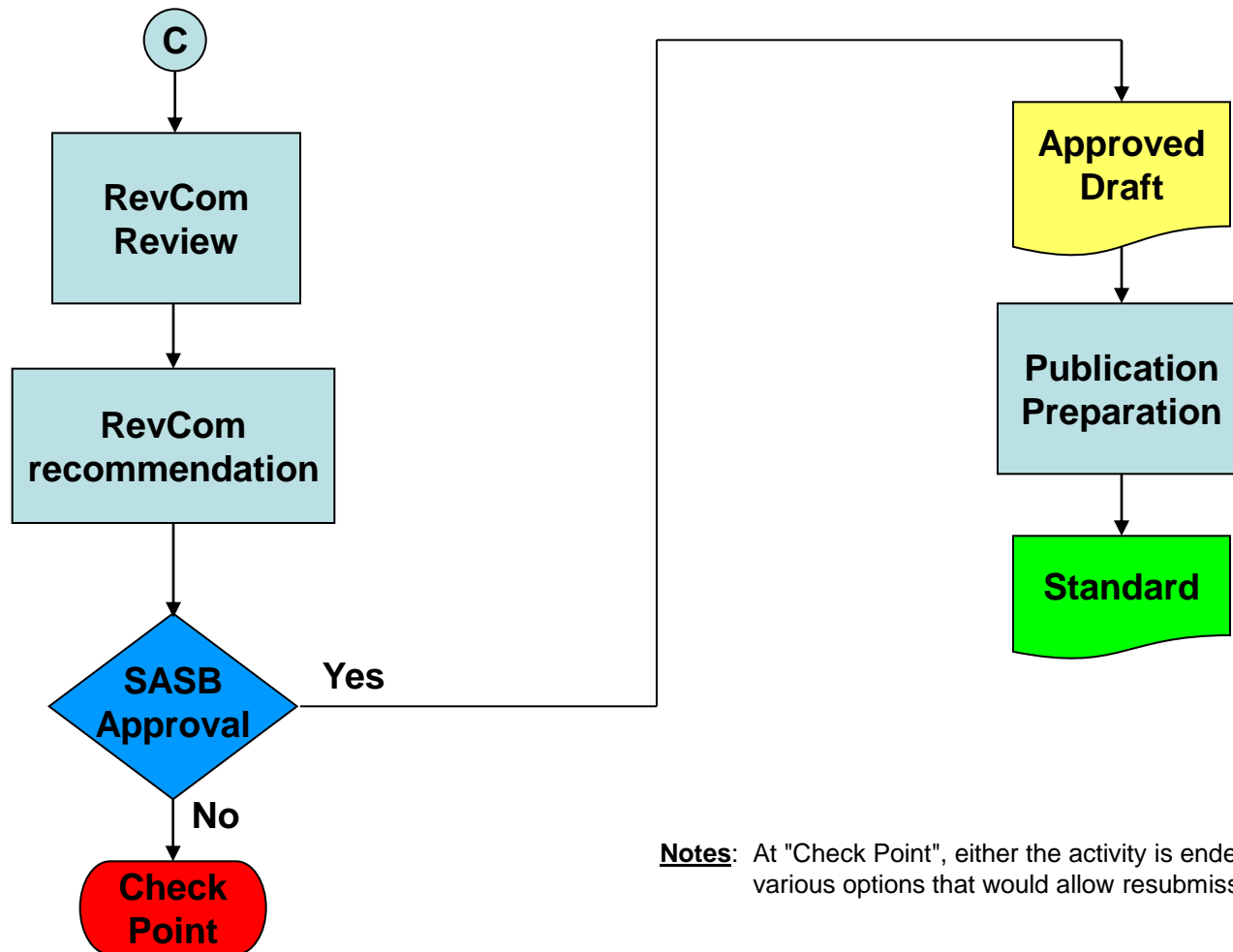
Overview of IEEE 802.3 Standards Process (4/5)- Sponsor Ballot Phase



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 Five Criteria
- 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.

Liaisons and Communications

- Letter from ISO/IEC JTC 1/SC 25/WG 3 in relation to 40 Gb/s cabling systems
- http://www.ieee802.org/3/minutes/nov12/incoming/25N2052_Liaison_to_IEEE802_3.pdf

Attendance

- Tutorial Material on attendance tool
 - http://ieee802.org/3/minutes/mar11/0311_imat.pdf
- Attendance tool URL
 - URL: <http://imat.ieee.org>
 - Password will be provided

Presentations (Monday)

Time	Title	Presenter	Affiliation	File Name
8:15 AM	Open meeting	David Law	HP	
8:45 AM	Agenda and General Information	Bill Woodruff	Broadcom	agenda_01a_0912.pdf
9:15 AM	Liaison from ISO/IEC JTC 1/SC 25/WG 3	Alan Flatman	LAN Technologies	
9:30 AM	Major PAR form questions	David Law	HP	law_01_0912.pdf
10:00 AM	Project Objectives	Dan Dove	Applied Micro	dove_02_0912.pdf
10:30 AM	BREAK			
10:50 AM	Review of the 5 Criteria	John D'Ambrosia	Dell	dambrosia_01_0912.pdf
11:20 AM	Technical Tutorials			
11:20 AM	ISO/IEC SC 25/WG 3 - an overview	Alan Flatman	LAN Technologies	flatman_01_0912.pdf
11:50 AM	TIA TR42.7 Next Generation Cabling Project Update	Valerie Maguire	Siemon	maguire_01_0912.pdf
12:20 PM	LUNCH			
1:50 PM	Technical Presentations			
1:50 PM	Cabling Parameters	Wayne Larsen	Commscope	larsen_01_0912.pdf
2:35 PM	Length Distribution	Wayne Larsen	Commscope	larsen_02_0912.pdf
3:05 PM	Preliminary Study: Modeled 40G Reach on category cabling	Paul Vanderlaan	Nexans	vanderlaan_01_0912.pdf
3:35 PM	BREAK			
3:55 PM	Cabling Challenges and Opportunities	Ron Nordin	Panduit	nordin_01_0912.pdf
4:25 PM	NGBASE-T Link Segments	Chris DiMinico	MC Communications	diminico_0912.pdf
4:55 PM	Break for the day			

Note –Times listed are subject to change.

Presentations (Tuesday)

Time	Title	Presenter	Affiliation	File Name
9:00 AM	Open Meeting	Bill Woodruff	Broadcom	agenda_01_0912.pdf
9:15 AM	Server NIC Market Update from CFI	David Chalupsky	Intel	chalupsky_01_0912.pdf
9:45 AM	Considerations for Objectives in Next-Gen BASE-T	George Zimmerman	CME Consulting / Commscope	zimmerman_02_0912.pdf
10:15 AM	An Overview of Energy-Efficient Ethernet	Mike Bennett	Lawrence Berkeley National Laboratory	
10:45 AM	BREAK			bennett_01_0912.pdf
11:05 AM	NGBASE-T Considerations: Reach and Migration Path	Brad Booth	Dell	booth_02_0912.pdf
11:35 AM	NGBASE-TSR - A Scalable BASE-T Approach	Dan Dove	Applied Micro	dove_01_0912.pdf
12:05 PM	Thoughts on Rate Objective	John D'Ambrosia	Dell	dambrosia_02b_0912.pdf
12:35 PM	LUNCH			
2:05 PM	A Simple Model of Relative Power vs. Reach	Will Bliss	Broadcom	bliss_01_0912.pdf
2:50 PM	Project Documentation Proposals			
2:50 PM	Proposed objectives for Next-Gen BASE-T	George Zimmerman	CME Consulting / Commscope	zimmerman_01_0912.pdf
3:20 PM	Drafting the 5 Criteria	David Chalupsky	Intel	chalupsky_02_0912.pdf
3:50 PM	Filling in the PAR	Wael Diab	Broadcom	diab_01_0912.pdf
4:20 PM	Closing, future logistics and Other Motions			
4:50 PM	Adjourn			

Note –Times listed are subject to change.

Future Meetings

- See: <http://www.ieee802.org/3/interims/index.html>
- November 2012 plenary
 - San Antonio, TX
 - November 11-16 2012
- January 2013 interim
 - tbd
 - Week of January 21, 2013
- March 2013 plenary
 - Orlando, Florida
 - March 18-21 2013
- Anyone interested in hosting a interim meeting contact me or the IEEE 802.3 Executive Secretary [Steve Carlson](#).

Thank You!