



Agenda and General Information

IEEE 802.3
Next Generation BASE-T Study Group

Bill Woodruff
Broadcom
Phoenix, January 22-23, 2013

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

Status

- SG met in San Antonio November 13-14
- Entertained Liaison requests from ISO/IEC and TIA TR-42
 - Responses provided
- Objective added to adopt a 2-connector channel model
- SG term extended for an additional 6 months

Goals for the meeting

- Outline Study Group processes
- Hear technical tutorials and presentations supporting the development of the project documentation
 - Per Motion #4, focus on presentations regarding reach objective in the range of 20-30m
 - Objectives (on-going)
 - PAR (complete)
 - 5C
- Lay the ground work for the next meeting

Big ticket items

- Objectives to be addressed
 - Reach objective
- Plan for when to request formation of Task Force
- 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>

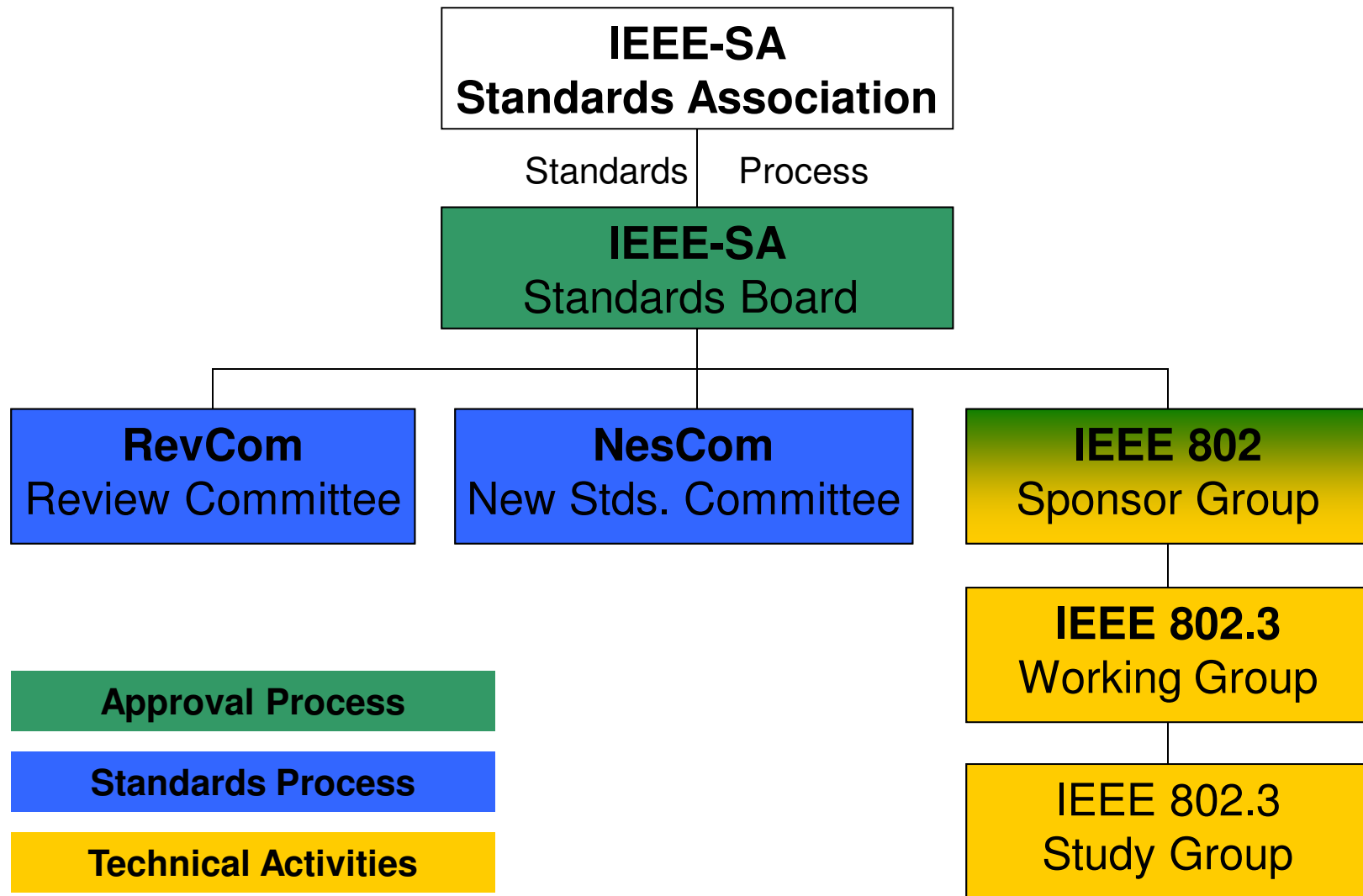
Study Group Private Area

- URL: <http://www.ieee802.org/3/NGBASET/private/index.html>
 - Username:
 - Password:
- Write it down...
- Note - The content is posted for your review only, and neither the content nor access information should be copied or redistributed to others in violation of document copyrights.

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.**

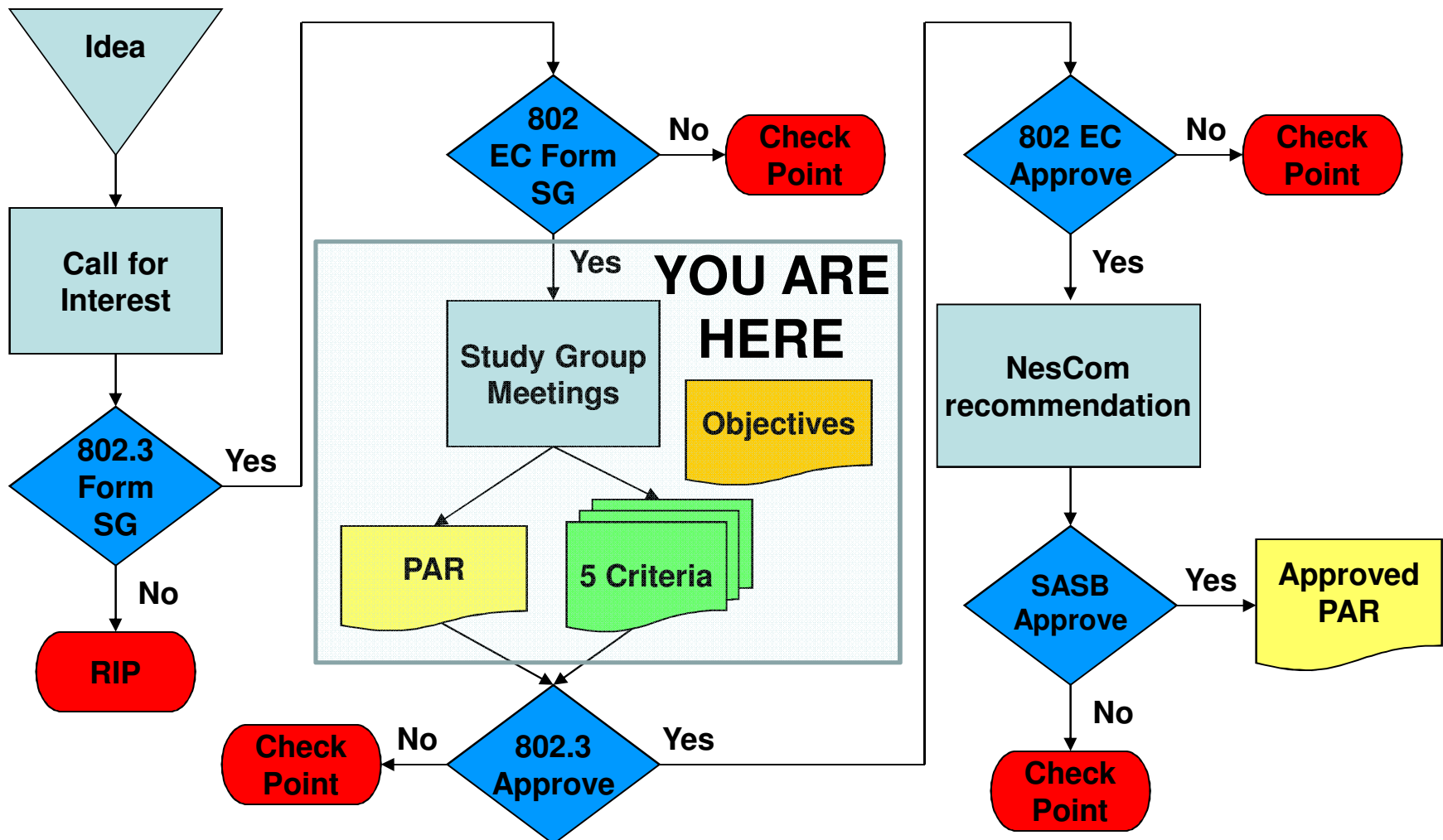
If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org or visit <http://standards.ieee.org/about/sasb/patcom/index.html>

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>

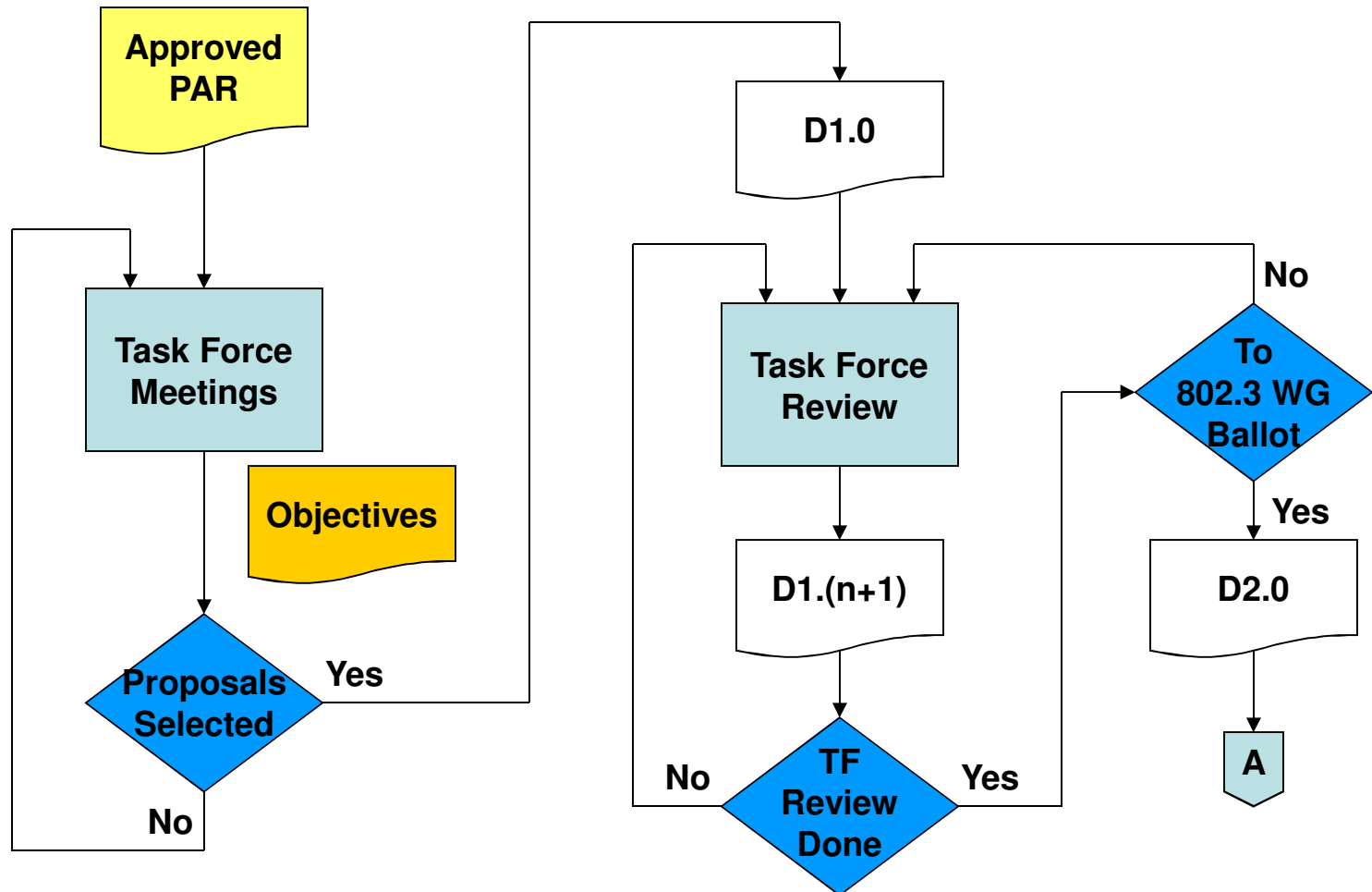


Overview of IEEE 802.3 Standards Process (1/5)- Study Group Phase

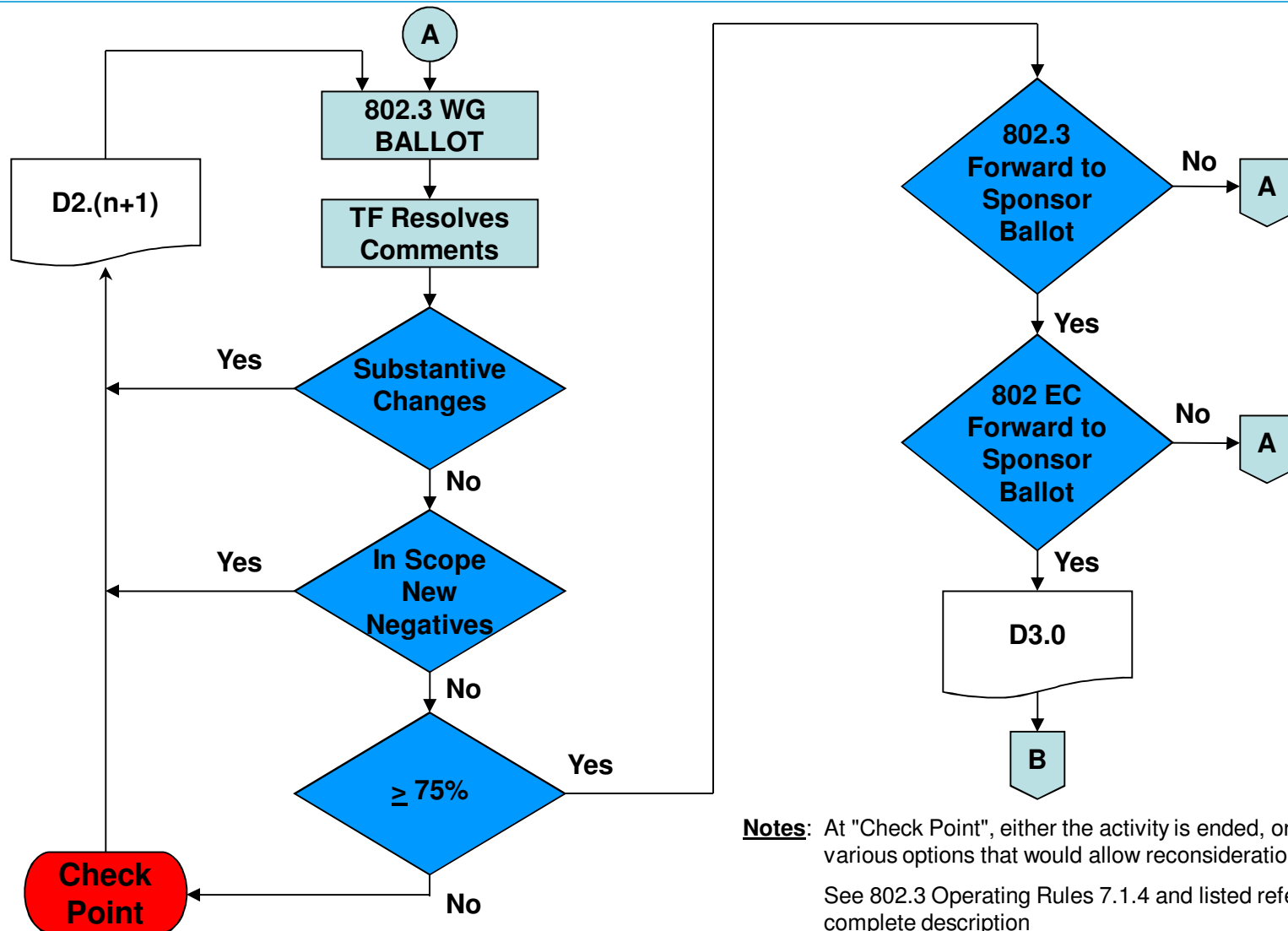


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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



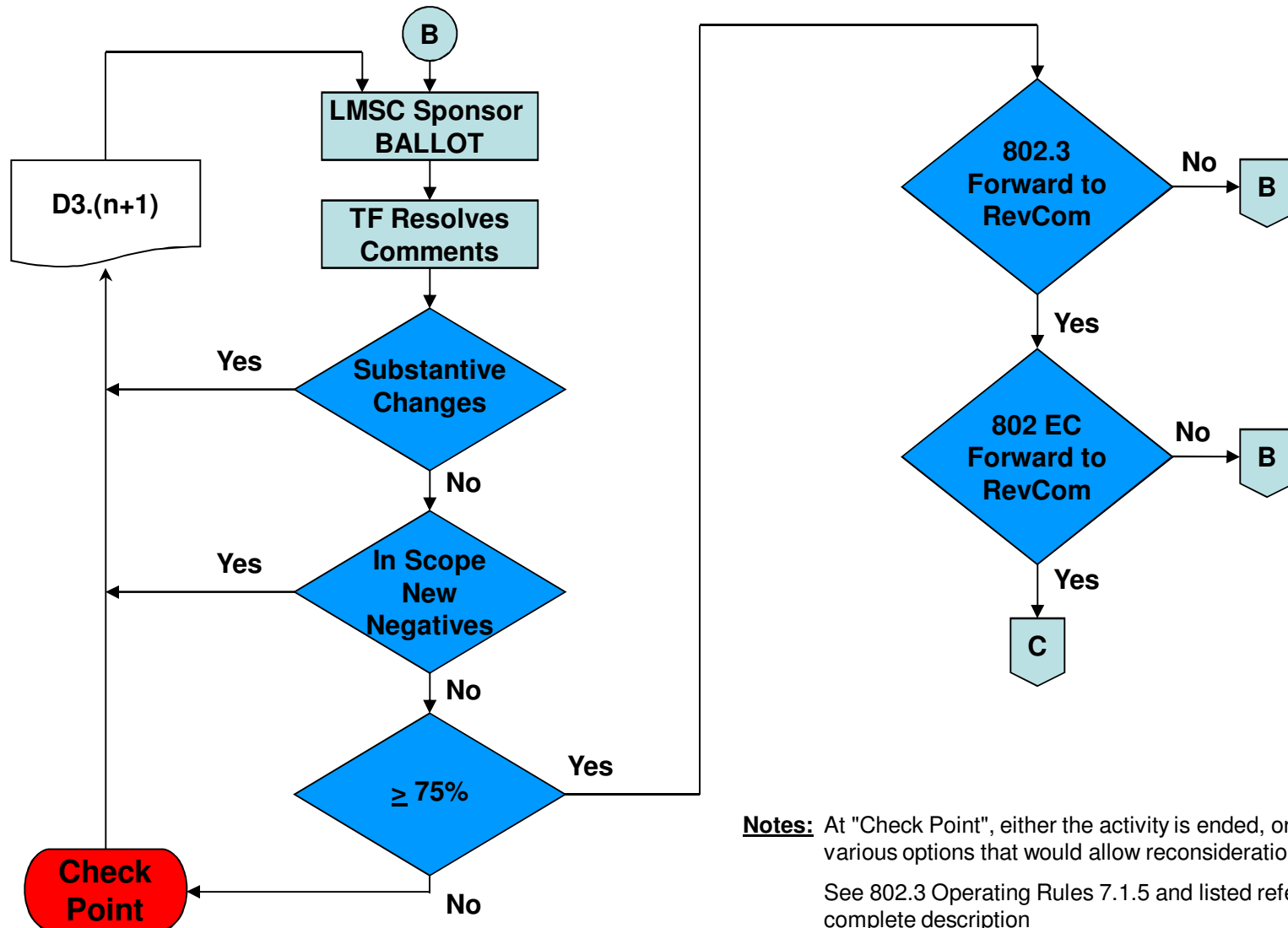
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



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

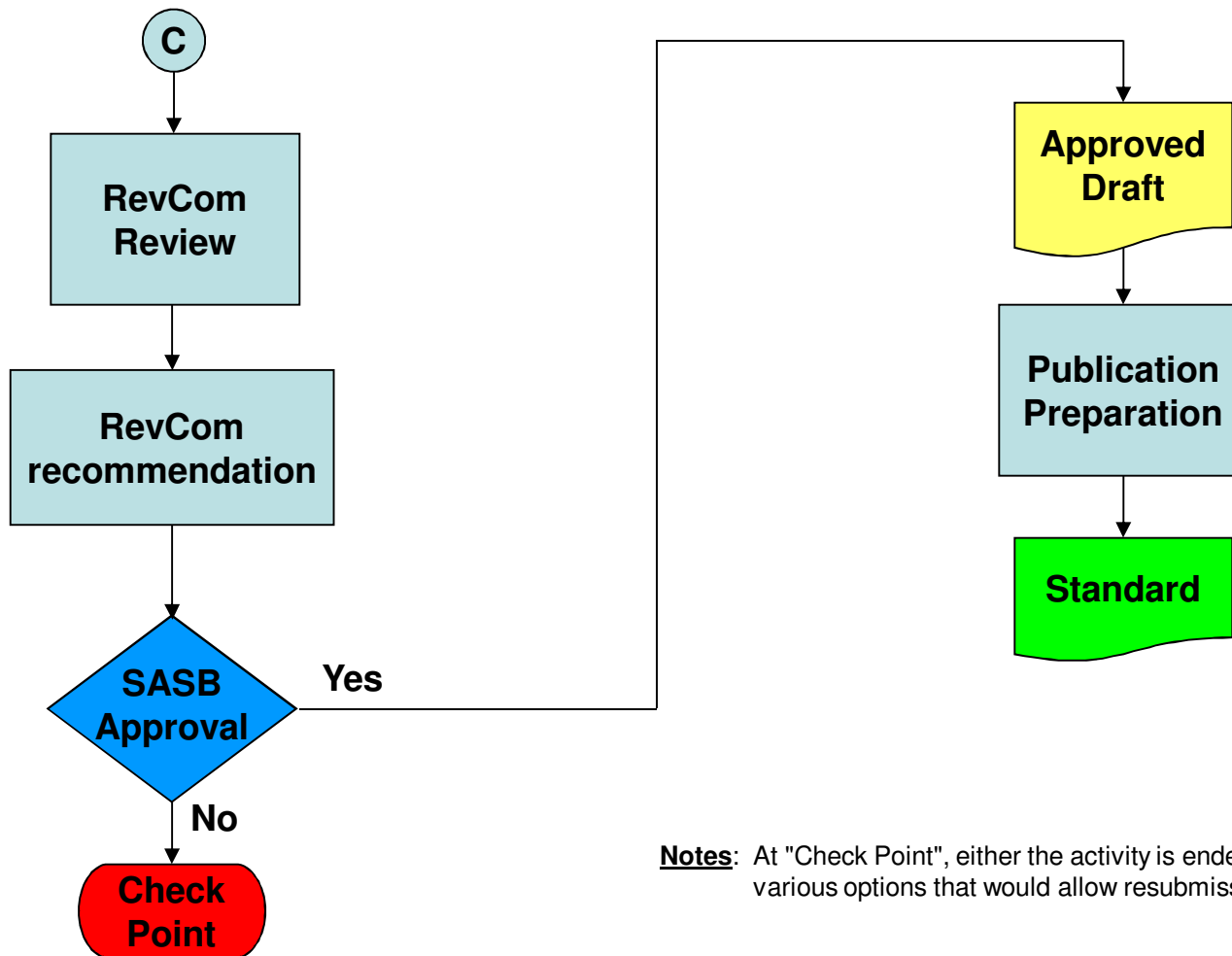
Overview of IEEE 802.3 Standards Process (4/5)- Sponsor Ballot Phase



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 TIA TR-42.7 to the IEEE 802.3 Working Group
 - <http://www.ieee802.org/3/minutes/mar13/incoming/TR42d7-2013-02-004-LiaisonTo802d3.pdf>
 - The SG will prepare a draft response in March (if required) for consideration by the WG

Action Items

- In the event new objectives are set, prepare draft Liaison letters to TIA and ISO/IEC for consideration at the March Plenary.

Attendance

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

Presentations (Tuesday)

Duration	Time	Title	Presenter	Affiliation	File Name
0:30	9:00 AM	Agenda and General Information	Bill Woodruff	Broadcom	agenda_01_0113_ngbt.pdf
0:30	9:30 AM	Performance Data	Wayne Larsen	Commscope	Larsen_01_0113_NGBT.pdf
0:30	10:00 AM	Data Center Design Considerations	Chris Diminico	MC Communications	diminico_01_0113_NGBT.pdf
0:30	10:30 AM	BREAK			
0:40	11:00 AM	Balanced cabling for 40Gb/s over less than 100 m	Hans Lackner	QoSCom GmbH	Schicketanz_01_0113_ngbt.pdf
0:40	11:40 AM	TIA Link Length Survey	Shadi Abu Ghazaleh	Hubbell	AbuGhazaleh_01_0113_ngbt.pdf
1:10	12:20 PM	LUNCH			
0:30	1:30 PM	Power and Reach at 40G	George Zimmerman	CME Consulting	zimmerman_01_0113_NGBT.pdf
0:20	2:00 PM	Auto-Negotiation of Reach	Dan Dove	APM	dove_01_0113_ngbt.pdf
0:20	2:20 PM	A Single PHY Optimized for Multiple Applications	Dan Dove	APM	dove_02_0113_ngbt.pdf
0:20	2:40 PM	10GBASE-Tsr - A Service to Humanity	Dan Dove	APM	dove_03_0113_ngbt.pdf
0:30	3:00 PM	BREAK			
0:40	3:30 PM	10GBASE-T Requirements: Learning from 10GBASE-T	Peter Wu	Marvell	WuParnaby_01_0113_NGBT.pdf
0:00	4:10 PM	Break for the day			

Note –Times listed are subject to change.

Presentations (Wednesday)

Duration	Time	Title	Presenter	Affiliation	File Name
0:15	9:00 AM	Open Meeting	Bill Woodruff	Broadcom	
0:30	9:15 AM	Cat 7A Channel Analysis	Stephen Bates	PMCS	bates_01_0113_NGBT.pdf
0:30	9:45 AM	Symbol Rate Selection for 40GBASE-T	Dariusz Dabiri	APM	dabiri_01_0113_NGBT.pdf
0:30	10:15 AM	BREAK			
0:40	10:45 AM	Impact of Cable Specifications on NGBASE-T Margin to Capacity	Mike Grimwood	Broadcom	grimwood_01_0113_NGBT.PDF
0:35	11:25 AM	Proposed 5C Responses	Dave Chalupsky	Intel	chalupsky_01_0113_NGBT.pdf
1:00	12:00 PM	LUNCH			
1:00	1:00 PM	Motions & Straw Polls			
0:45	2:00 PM	Closing, future logistics and Other Motions			
	2:45 PM	Adjourn			

Note –Times listed are subject to change.

Meeting Map

Study Group Name

Version 2.3

IEEE 802.3 Next Generation BASE-T – January 2013 Interim meeting

Date
Location

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Motion #1

- Approve the Agenda

M: Richard Mei

S: Paul Vanderlaan

Procedural, 50%

Passes by voice with no objective

Motion #2

- Approve previous meeting minutes

M: Paul Vanderlaan

S: Ron Nordin

Procedural, 50%

Motion passes by voice without objection

Future Meetings

- See: <http://www.ieee802.org/3/interims/index.html>
- March 2013 plenary
 - Orlando, Florida
 - March 18-21 2013
- May 2013 joint interim
 - The Fairmont Empress, Victoria, BC, Canada
 - Week of May 13, 2013
- July 2013 plenary
 - Geneva Switzerland
 - Week of July 15th
- Sept 2013 joint interim
 - York Racecourse Conference Center, York UK
 - Week of September 2
- Anyone interested in hosting a interim meeting contact me or the IEEE 802.3 Executive Secretary [Steve Carlson](#).

Thank You!