

Agenda and General Information

IEEE P802.3bp
Reduced Twisted Pair Gigabit Ethernet
PHY

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High Speed Design, Inc.
Phoenix, AZ January 24-25, 2013

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
 - Task Force Operation
- Liaisons and Communications
- Review of Action Items from previous Meeting
- Presentations
- Motions and Closing Business
- Future Meetings

Task Force 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

- Review of IEEE process
- Review of Task Force operation
- Reports from ad hocs
- Presentations
 - Automotive link segment and EMC
- 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

- Task Force web page URL:

www.ieee802.org/3/bp/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

Attendance

- Tutorial Material on attendance tool
 - http://ieee802.org/3/minutes/mar11/0311_imat.pdf
- URL
 - URL: imat.ieee.org
 - Session access code: hohokam
- Please sign the sheet that will be circulated each day

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

Instructions for the WG Chair

The IEEE-SA strongly recommends that at each WG meeting the chair or a designee:

- Show slides #1 through #4 of this presentation
- Advise the WG attendees that:
 - The IEEE's patent policy is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
 - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
 - There may be Essential Patent Claims of which the IEEE is not aware. Additionally, neither the IEEE, the WG, nor the WG chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
- Instruct the WG Secretary to record in the minutes of the relevant WG meeting:
 - That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
 - That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard
 - Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.
- The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
- It is recommended that the WG chair review the guidance in *IEEE-SA Standards Board Operations Manual* 6.3.5 and in FAQs 12 and 12a on inclusion of potential Essential Patent Claims by incorporation or by reference.

Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE-SA Standards Board.

Participants, Patents, and Duty to Inform

All participants in this meeting have certain obligations under the IEEE-SA Patent Policy.

- Participants [Note: Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2]:
 - “Shall inform the IEEE (or cause the IEEE to be informed)” of the identity of each “holder of any potential Essential Patent Claims of which they are personally aware” if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
 - “Personal awareness” means that the participant “is personally aware that the holder may have a potential Essential Patent Claim,” even if the participant is not personally aware of the specific patents or patent claims
 - “Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of such potential Essential Patent Claims” (that is, third parties that are not affiliated with the participant, with the participant’s employer, or with anyone else that the participant is from or otherwise represents)
- The above does not apply if the patent claim is already the subject of an Accepted Letter of Assurance that applies to the proposed standard(s) under consideration by this group
- Early identification of holders of potential Essential Patent Claims is strongly encouraged
- No duty to perform a patent search

Patent Related Links

All participants should be familiar with their obligations under the IEEE-SA Policies & Procedures for standards development.

Patent Policy is stated in these sources:

IEEE-SA Standards Boards Bylaws

<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>

IEEE-SA Standards Board Operations Manual

<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>

Material about the patent policy is available at

<http://standards.ieee.org/about/sasb/patcom/materials.html>

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>

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



Call for Potentially Essential Patents

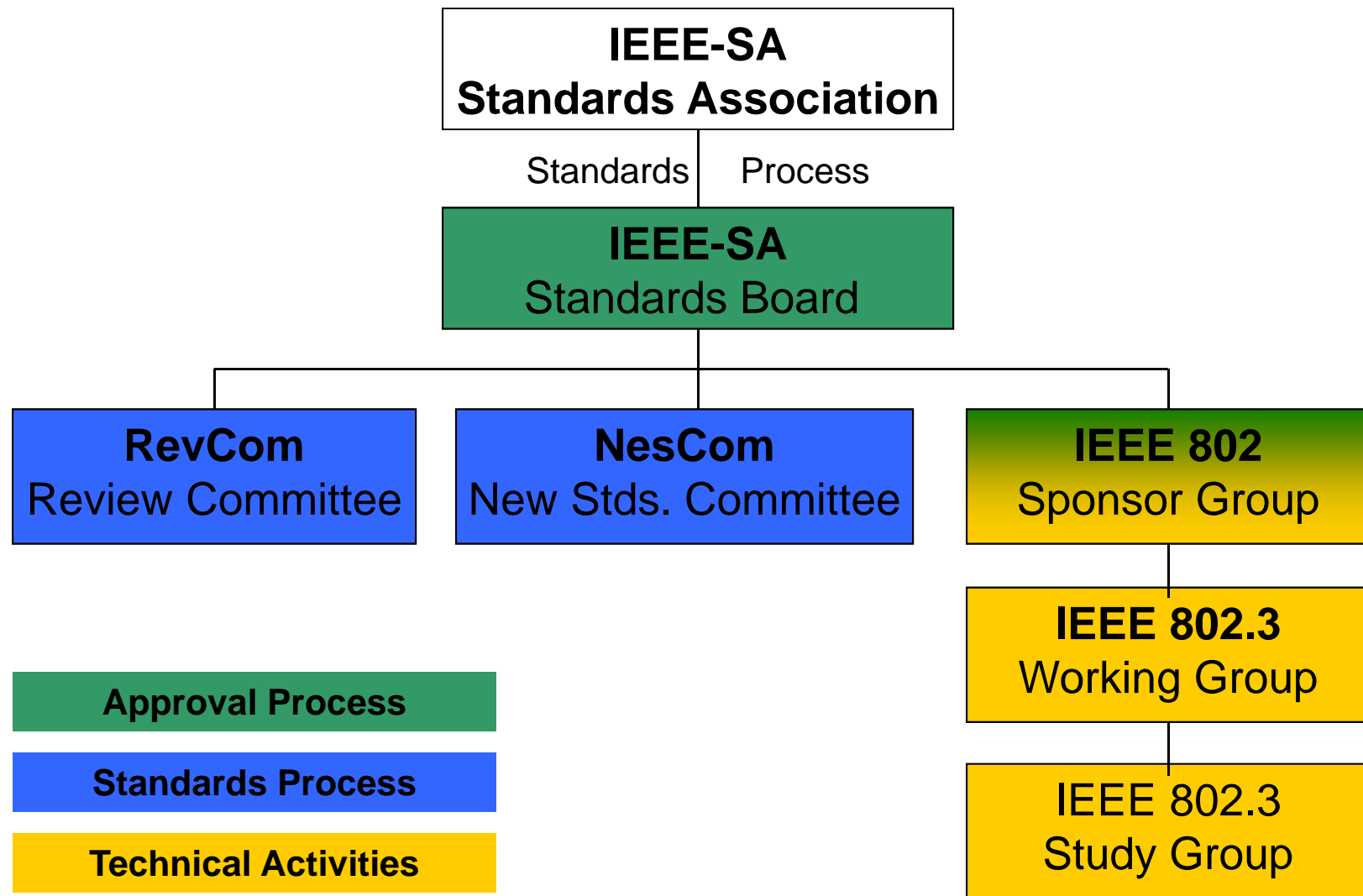
- If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance:
 - Either speak up now or
 - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible or
 - Cause an LOA to be submitted

Other Guidelines for IEEE WG Meetings

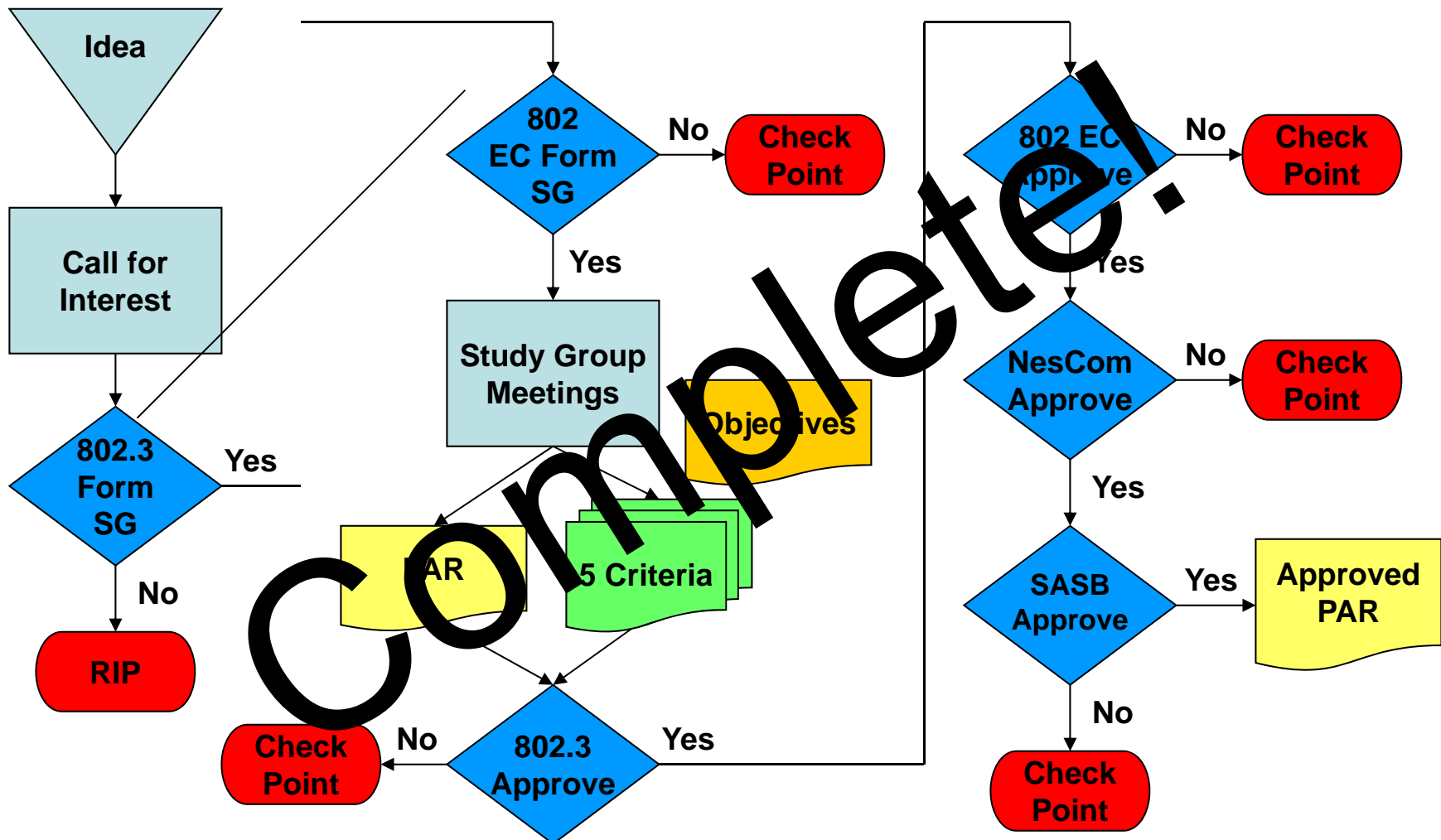
- **All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.**
 - **Don't discuss the interpretation, validity, or essentiality of patents/patent claims.**
 - **Don't discuss specific license rates, terms, or conditions.**
 -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

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.

IEEE Structure

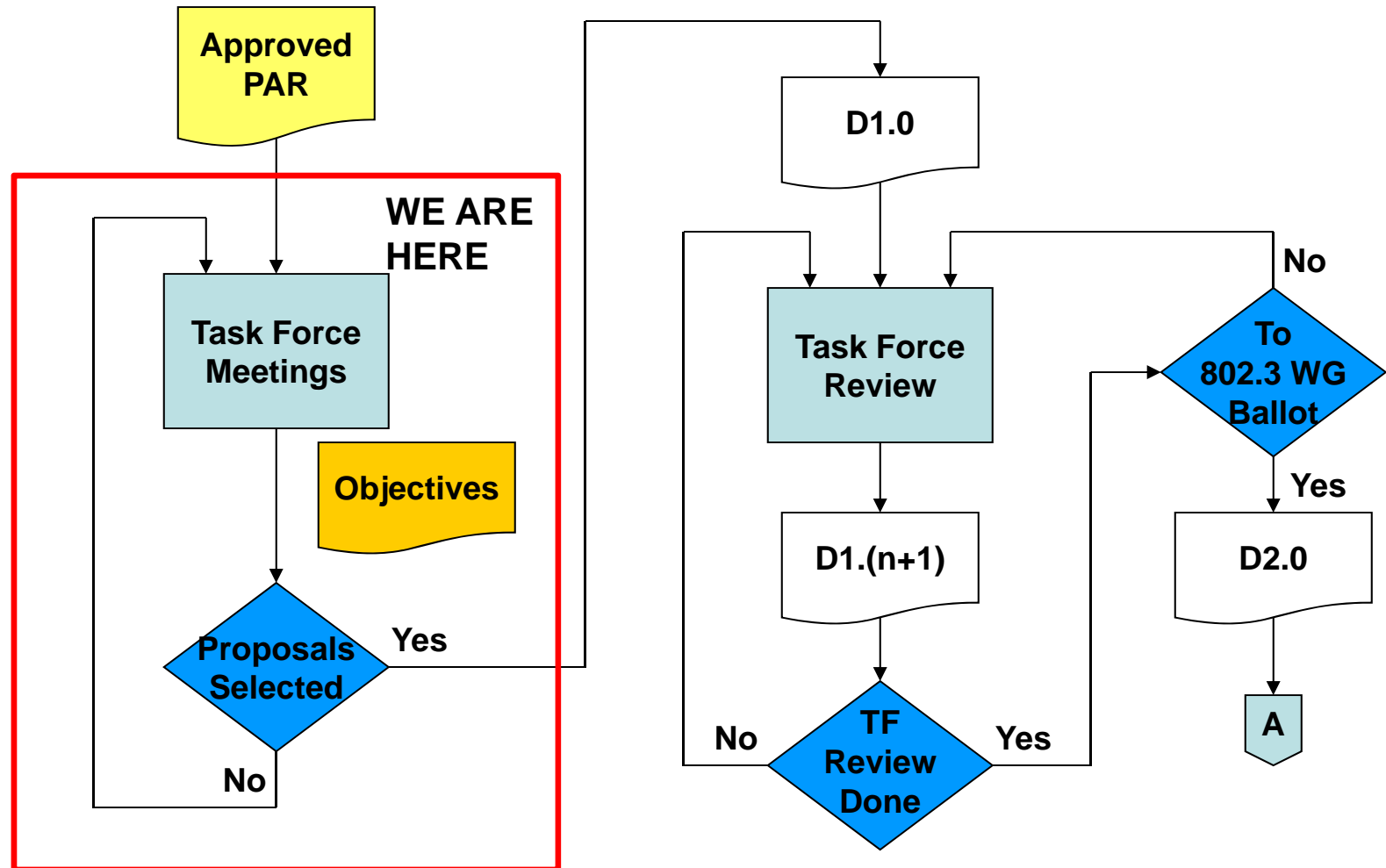


Overview of IEEE 802.3 Standards Process (1/5)- Study Group Phase

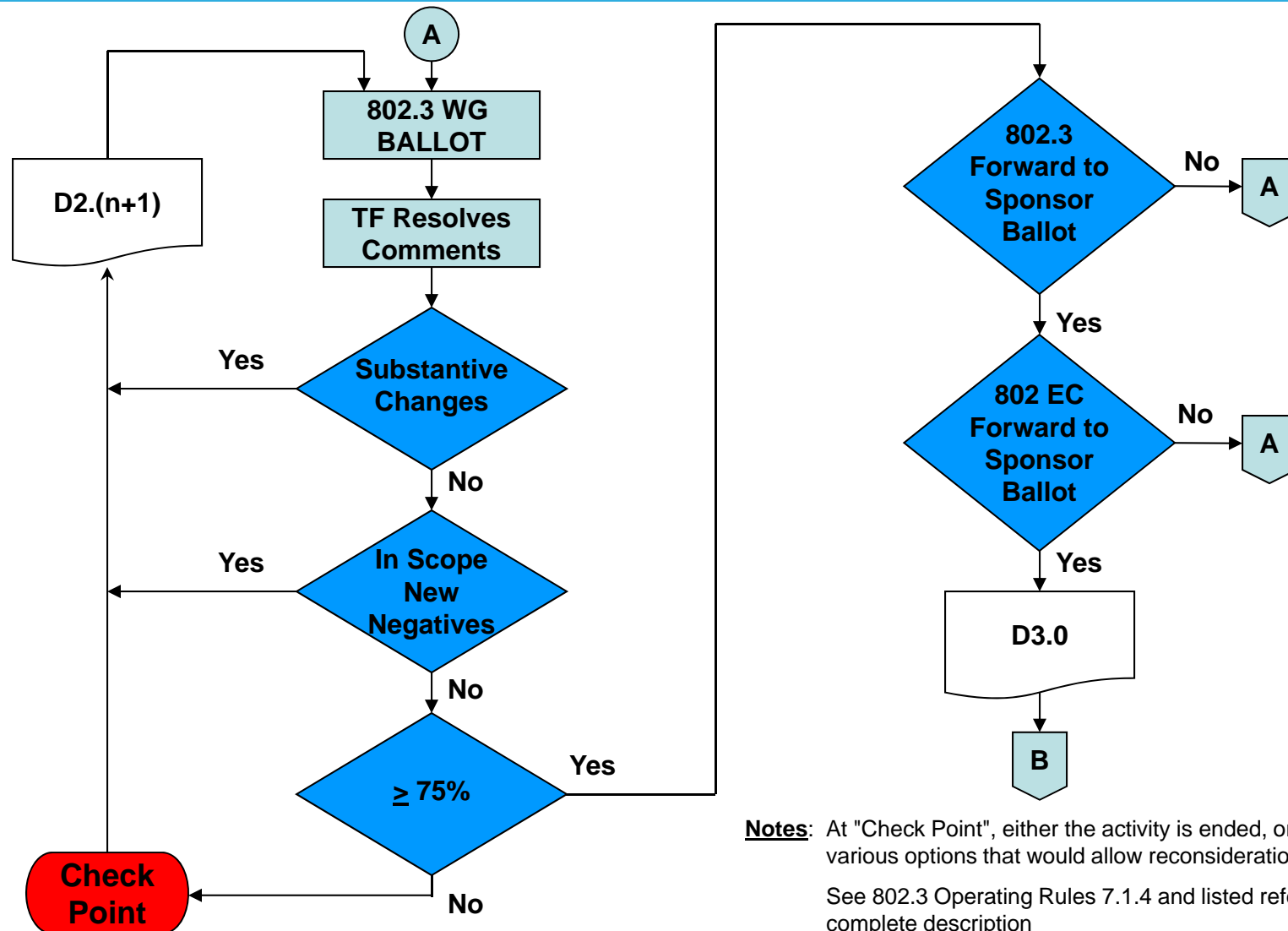


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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



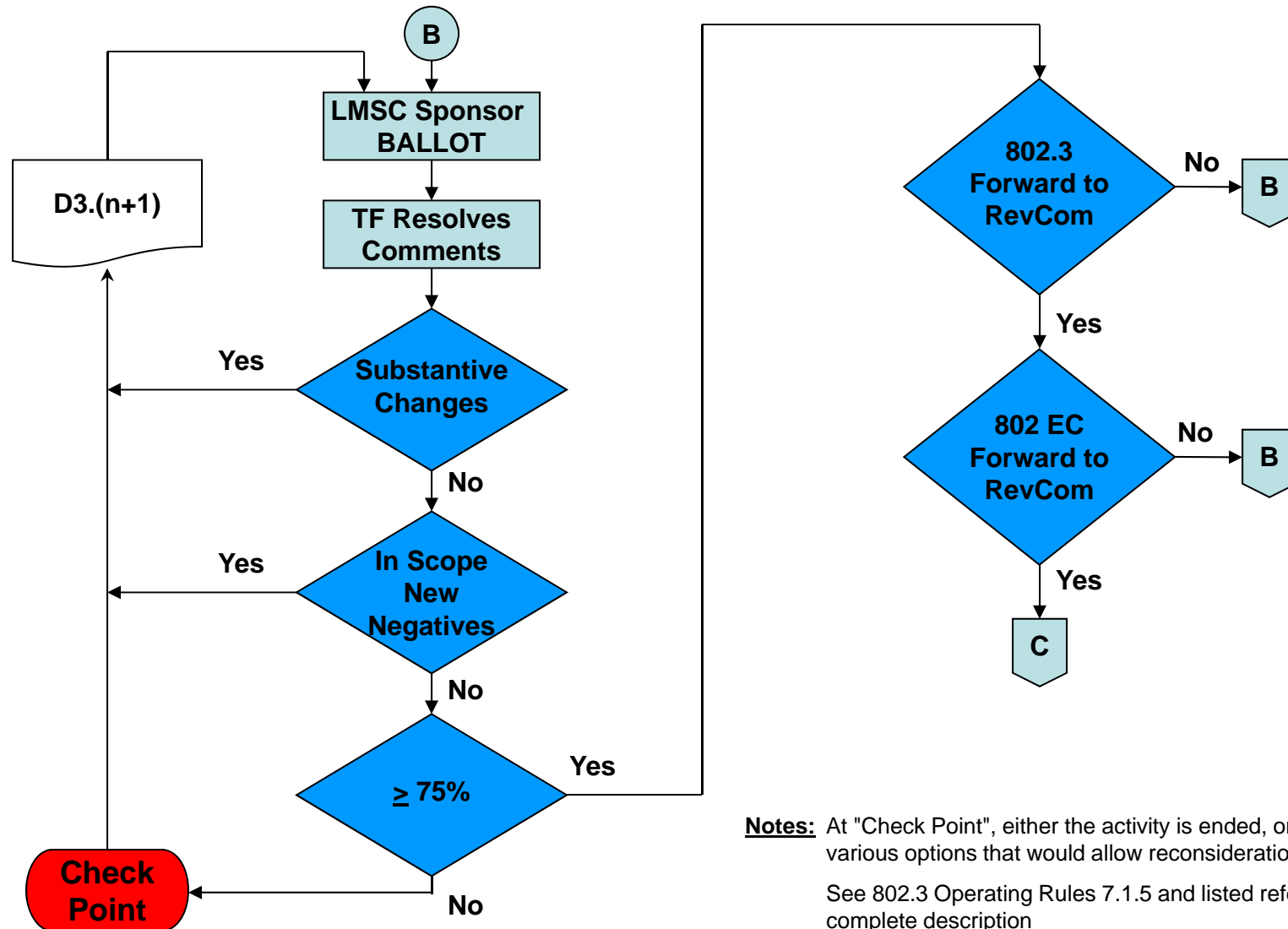
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



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

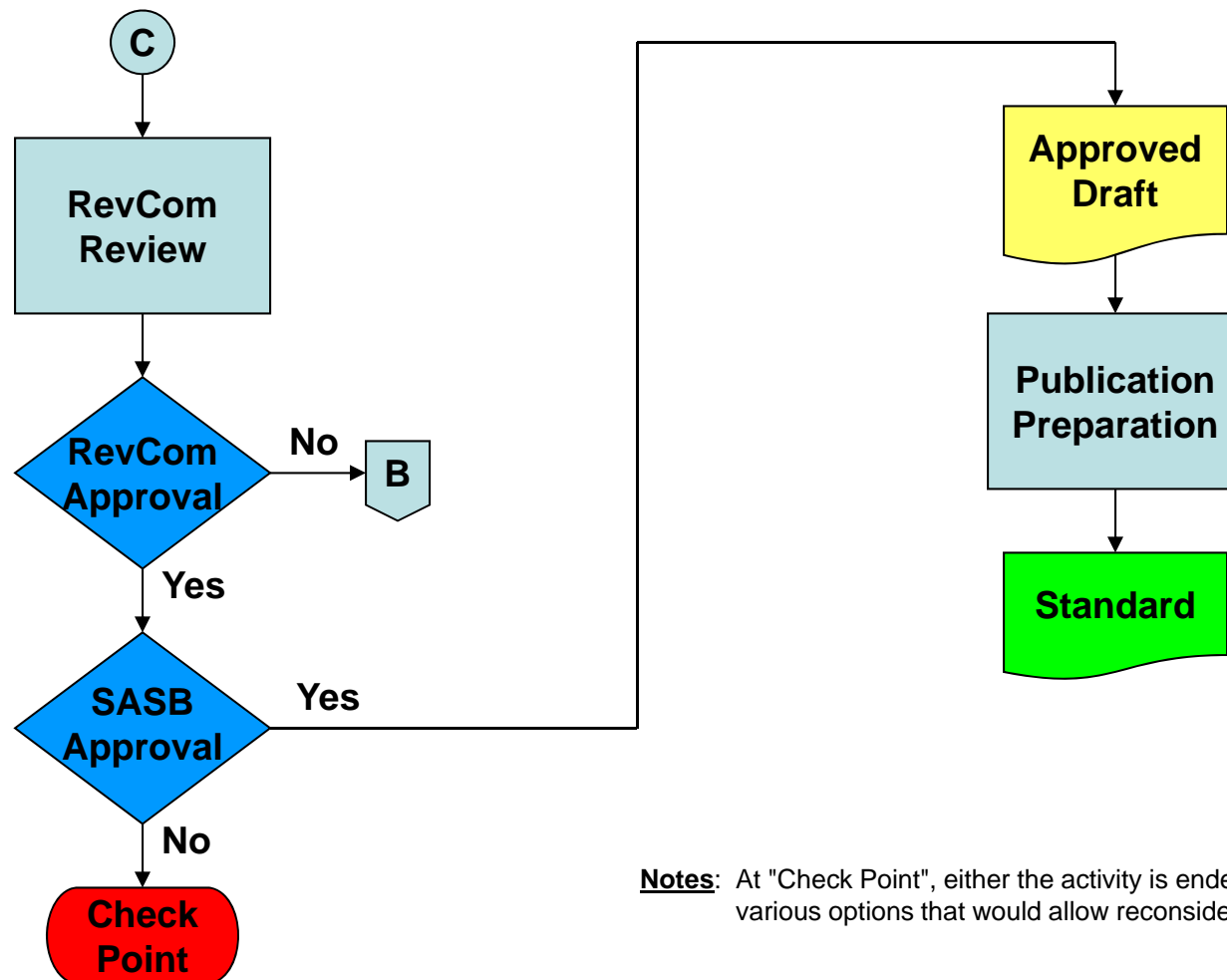
Overview of IEEE 802.3 Standards Process (4/5)- Sponsor Ballot Phase



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.

Liaisons and Communications

- When we have them, they will go here

Task Force Operation

- The Task Force writes the standard
- P802.3bp will be a new clause to the 802.3 Standard
- P802.3bp will modify existing clauses 1, 30, 45 and 78
- Other clauses may also be modified

The path to WG ballot

- **The Path to Working Group Ballot**
- Done by Howard Frazier for the HSSG in 2007
- http://www.ieee802.org/3/hssg/public/nov07/frazier_02_1107.pdf

Action Items

- Continue technical work on automotive link segment performance characteristics and EMC

IEEE P802.3bp Reduced Twisted Pair Gigabit PHY Task Force Project Documents

- PAR
 - <http://www.ieee802.org/3/bp/P802.3bp.pdf>
- 5 Criteria
 - <http://www.ieee802.org/3/bp/5Criteria.pdf>
- Objectives
 - <http://www.ieee802.org/3/bp/Objectives.pdf>

Presentation Issues

- Late requests/submissions
 - All requests received after the two-week deadline will be placed in the best-effort queue
 - Late submissions of PDFs to the Chair will be placed in the best-effort queue
 - Late presentations **WILL NOT** be posted to the Website until (or if) they are presented

Presentation Issues

- Updates to submitted presentations
 - Updates will be accepted AFTER submission only if there is a technical correction
 - A final update (which can include added supporters, typo corrections, etc.) will be accepted at the end of the meeting for presentations and posting
 - Presentations must be read and approved by the Chair prior to presenting

Presentation Issues

- New filename conventions:
 - *presenter_name_3bp_XYr_mmyy*
 - *XY* is presentation number, i.e. 01, 02 ,03
 - Revisions (r) are a,b,c, etc.
 - Example: carlson_3bp_01a_0113

Presentations

[Channel Definitions Ad Hoc Report](#)

Chris DiMinico
Mehmet Tazebay

MC Communications/ LEONI
Broadcom

[EMC Ad Hoc Report](#)

Stefan Buntz
Gavin Parnaby
Mehmet Tazebay

Daimler
Marvell
Broadcom

[A Modeling & Measurement Technique for RTPGE EMC Channel Analysis](#)

Mehmet Tazebay

Broadcom

[RTPGE Alien XTALK Scenarios](#)

Kirsten Matheus
Mehmet Tazebay
Stefan Buntz
Stephane Korzin,

BMW
Broadcom
Daimler
Renault

[Alien Crosstalk and Balance Measurement of RTPGE links](#)

Richard Mei

CommScope

[1 pair or 2 pairs for RTPGE: Impact on System Other than the PHY Part 1: Weight & Space](#)

Kirsten Matheus
Michael Kaindl
Stephane Korzin
Doarte Goncalvez
John Leslie
Yasuhiro Okuno
Nobukatsu Kitajima
Mike Gardner
Richard Orosz
Matthias Jaenecke
Dongok Kim
Richard Mei
Dietrich von Knorre

BMW
BMW
Renault
PSA
JLR
Honda
Renesas
Molex
Yazaki
Yazaki
Hyundai
CommScope
S-Y

Presentations

[Automotive Datalinks over Twisted Quad Cabling](#)

T. Müller
G. Armbrecht
S. Kunz

Rosenberger
Hochfrequenztechnik
GmbH & Co. KG

[Echo Cancelling Power For 1Gbps 1TP RTPGE with 15m Category cabling](#)

Will Bliss

Broadcom

[Power Capability vs Wire Size and Cable Length](#)

Yair Darshan

Microsemi

Future Meetings

- See: <http://www.ieee802.org/3/interims/index.html>
- March 2013 Plenary
 - Orlando, FL
 - March 18 – 21
- May 2013 Joint Interim
 - Victoria, BC, Canada
 - May 13 – 17 (P802.3bp meets Tuesday-Wednesday, May 14-15)
- Anyone interested in hosting a meeting contact me.

Meetings Demystified

- 802.3 is growing!
 - 265 attendees---we're now the largest 802 WG
- 802 has two types of meetings
- **Plenary Meeting**
 - All of 802 meets (e.g. 802.1, 802.3, 802.11, etc.)
 - Three Plenaries a year: March, July and November
 - 802.3 Working Group meets Monday and Thursday afternoon
 - All SG and TF meet Tuesday, Wednesday and Thursday AM
 - Some TF may meet fewer than 2.5 days, e.g. Maintenance and MIB
 - Sometimes have joint sessions, e.g. 802.1 and 802.3
 - 802 is the meeting host
 - Wednesday evening social event (part of your Plenary fee)
 - Face-to-Face Events is the contracted 802 meeting planner
 - VeriLAN is the contracted 802 network and A/V services provider

Meetings Demystified

- **Interim Meeting**

- Only 802.3 meets unless we are co-locating with another 802 WG
 - If we do, it's usually 802.1
- Three Interims a year: January, May, and September
 - TF may schedule extra Interims to keep on timeline
- **NO** 802.3 Working Group meetings
- SG and TF meet during the week
 - Possible to schedule to reduce overlap, e.g. some TF Mon-Tue, others Wed-Thu
- May take five days---we're getting busy and big!
- The meeting host is a participating company or other non-802 entity
- Typically no social event---if there is, the host must pay for it
- May have no meeting planner, in-house meeting planner or contract with outside meeting planner
- Host is responsible for meeting network and A/V



Thank You!