

Extended EPON P802.3bk Task Force

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Agenda

- » Appointment of Recording Secretary
- » Welcome and introductions
- » Approve agenda
- » Approve September TF minutes
- » Goals for this meeting
- » Reflector and Web
- » Ground Rules
- » IEEE
 - > Structure
 - > Bylaws and Rules
 - > Call for Patents
 - > IEEE Standards Process
- » Changes to P802.3bk PAR
- » Presentations
- » Future Meetings
- » Motions and Closing Business

Schedule

» **Tuesday: 8:00 – 9:00**

- > Meeting opening
- > Changes to P802.3bk PAR document
- > Resolution of Draft D1.2 comments
- > Draft D2.0 and associated topics
- > Follow-up discussions
- > Meeting closing

Except for Call To Order times, all times in the agenda are approximate and for guideline purposes only. Please watch the email reflector for changes in the agenda and meeting times.

Motion #1

- » Approve agenda for 2012 November meeting of Extended EPON Task Force, as shown in 8023bk_1209_report_TF.pdf, slide 2
- » Moved by: Alan Brown
- » Seconded by: Susumu Nishihara

(Procedural motion, > 50%)

Motion passed by voice vote without opposition (08:02)

Introductions

- » Please, state
 - > Your name
 - > Your affiliation

IEEE SA Standards Board Operations manual

5.3.3.1 Disclosure of affiliation

Each participant's affiliation shall be disclosed at any working group or project meeting. The chair or the chair's delegate shall inform the meeting of the requirement for disclosure of affiliation (see 5.2.1.5 of the IEEE-SA Standards Board Bylaws). This shall be via a sign-in (e.g., sign-in sheet, electronic sign-in, verbal disclosure, or electronic communication) that provides for disclosure of employer and any other affiliation, a reminder of the definition of affiliation, and possible penalties for non-compliance.

...

The minutes of each working group or project meeting shall record a list of attendees and the disclosed affiliation of each attendee.

Task Force Decorum



- » Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (2008 SASB Op Manual 5.3.3.5)
- » Photography or recording by permission only (5.3.3.4)
- » Cell phone ringers off
- » 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 this meeting

- » Organizational business for this meeting
 - > Approval of minutes from September interim
 - > Present changes to P802.3bk PAR text (see next slides)
- » Resolve two received editorial comments against D1.2
- » Charter editor with creating draft D2.0 and start 802.3 WG review on the new version (whole draft open for commenting).
- » No requests for new technical presentations have been received.
- » No liaison letters or communications have been received.

Attendance

- » Tutorial Material on IEEE attendance tool
 - > http://iee802.org/3/minutes/mar11/0311_imat.pdf

- » To record your attendance for this meeting
 - > Go to URL: <https://imat.ieee.org>
 - > IEEE account login and password required
 - > Sign in to “Attendance Tool”
 - > Select “C/LM/WG802.3 Attendance”
 - > Confirm your attendance for the day

Email reflector and web

- » Currently 118 subscribers on Extended EPON TF reflector
- » To subscribe to Extended EPON TF reflector, send email to: listserv@ieee.org and include this line in the body of the message:
subscribe stds-802-3-EXTND-EPON firstname lastname
- » Detailed information is available at:
http://www.ieee802.org/3/EXTND_EPON/reflector.html
- » Task Force web page URL:
<http://www.ieee802.org/3/bk/>
- » Study Group materials have been archived at:
http://www.ieee802.org/3/EXTND_EPON/index.html

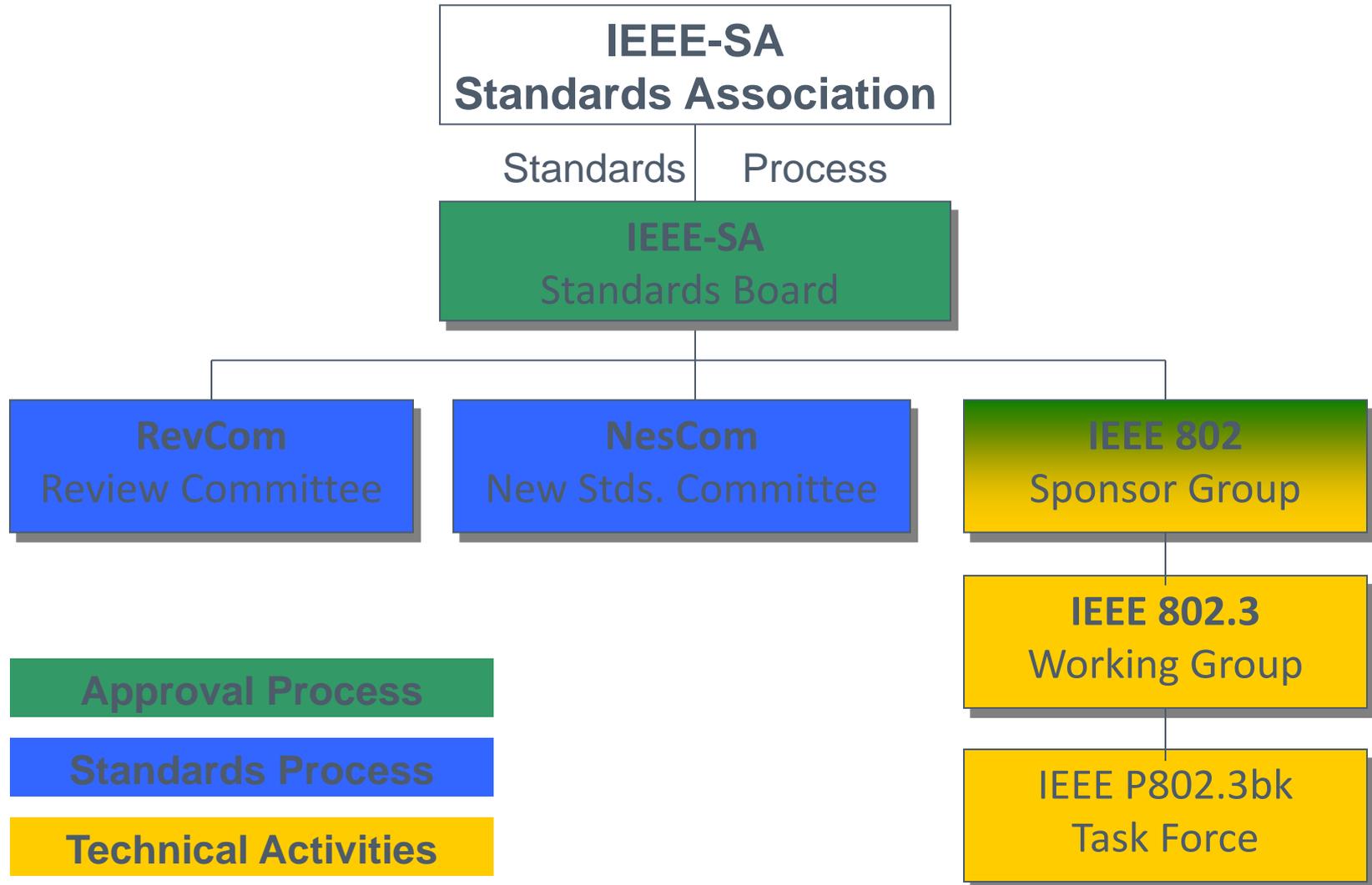
TF Private Area

- » Private area has been created at:
<http://www.ieee802.org/3/bk/private/index.html>
 - > Username: **802.3bk**
 - > Password: *********
- » Write it down ... password information is not posted on the website
- » Note — *The draft, and any other 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/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.

(Optional to be shown)

25 March 2008 (updated January 2012)



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

Slide #1

25 March 2008 (updated January 2012)



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>



Slide #2

25 March 2008 (updated January 2012)

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

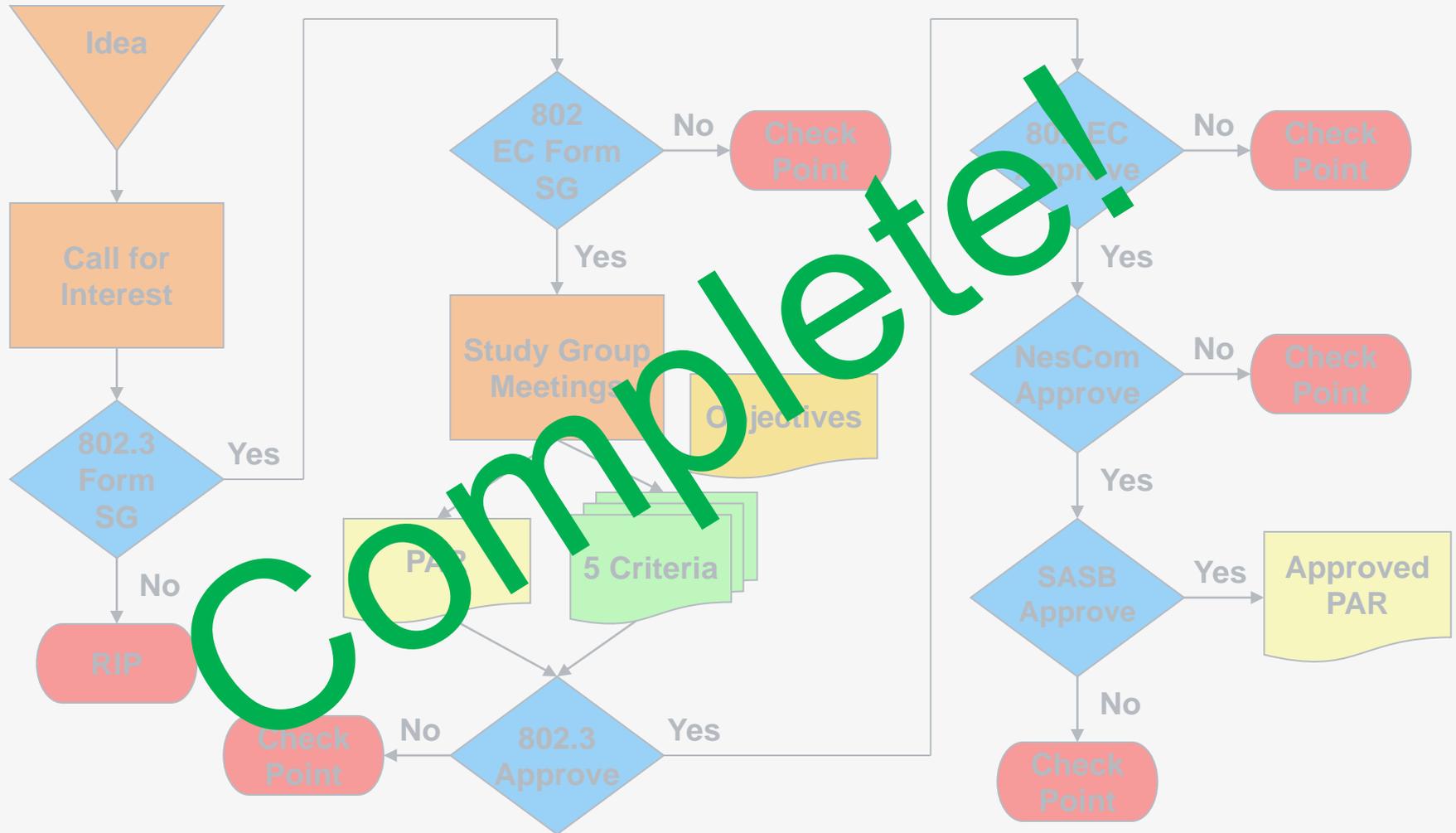
Other Guidelines for IEEE WG Meetings

- **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.

Overview of IEEE 802.3 Standards Process (1/5)

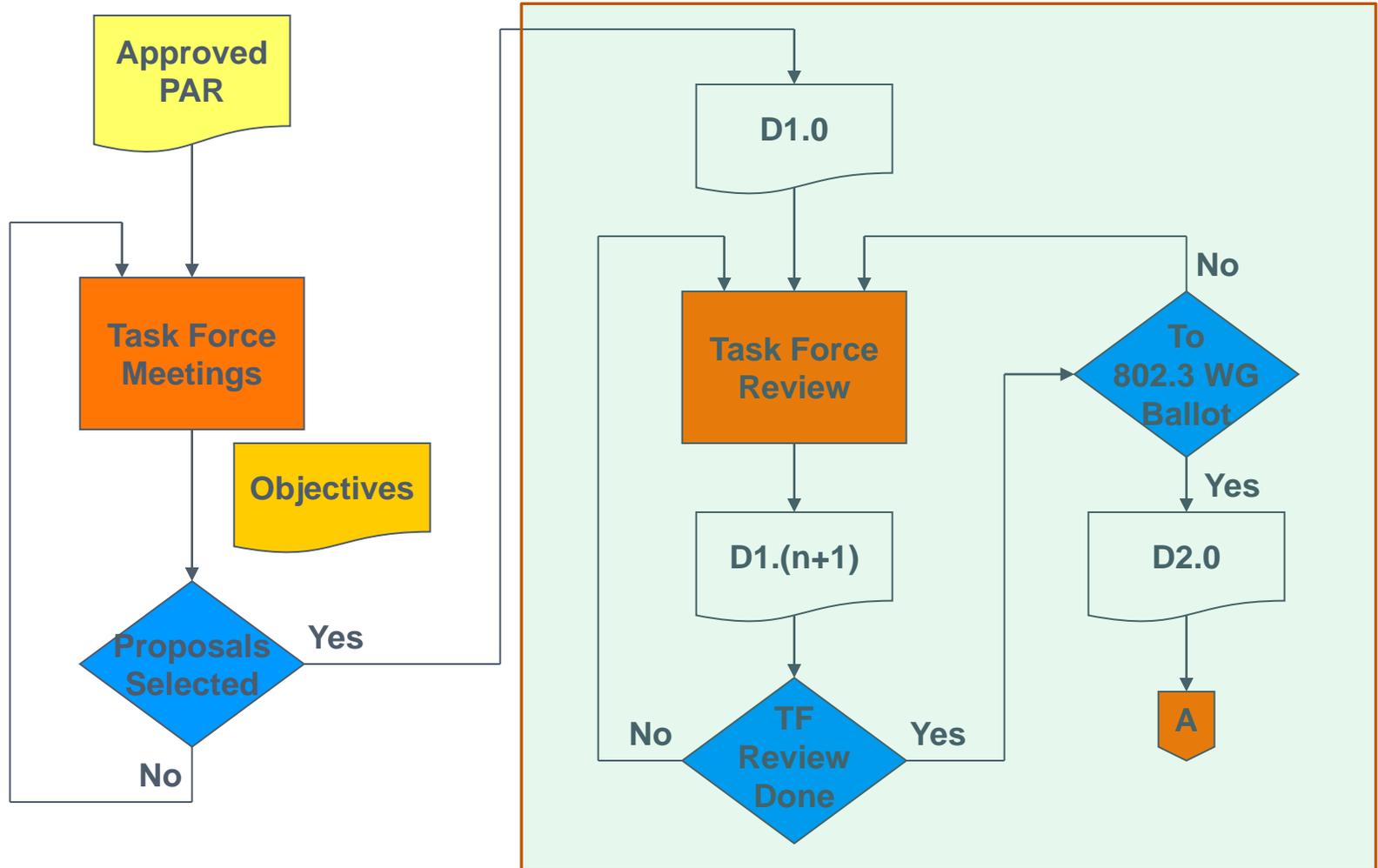
Study Group Phase



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

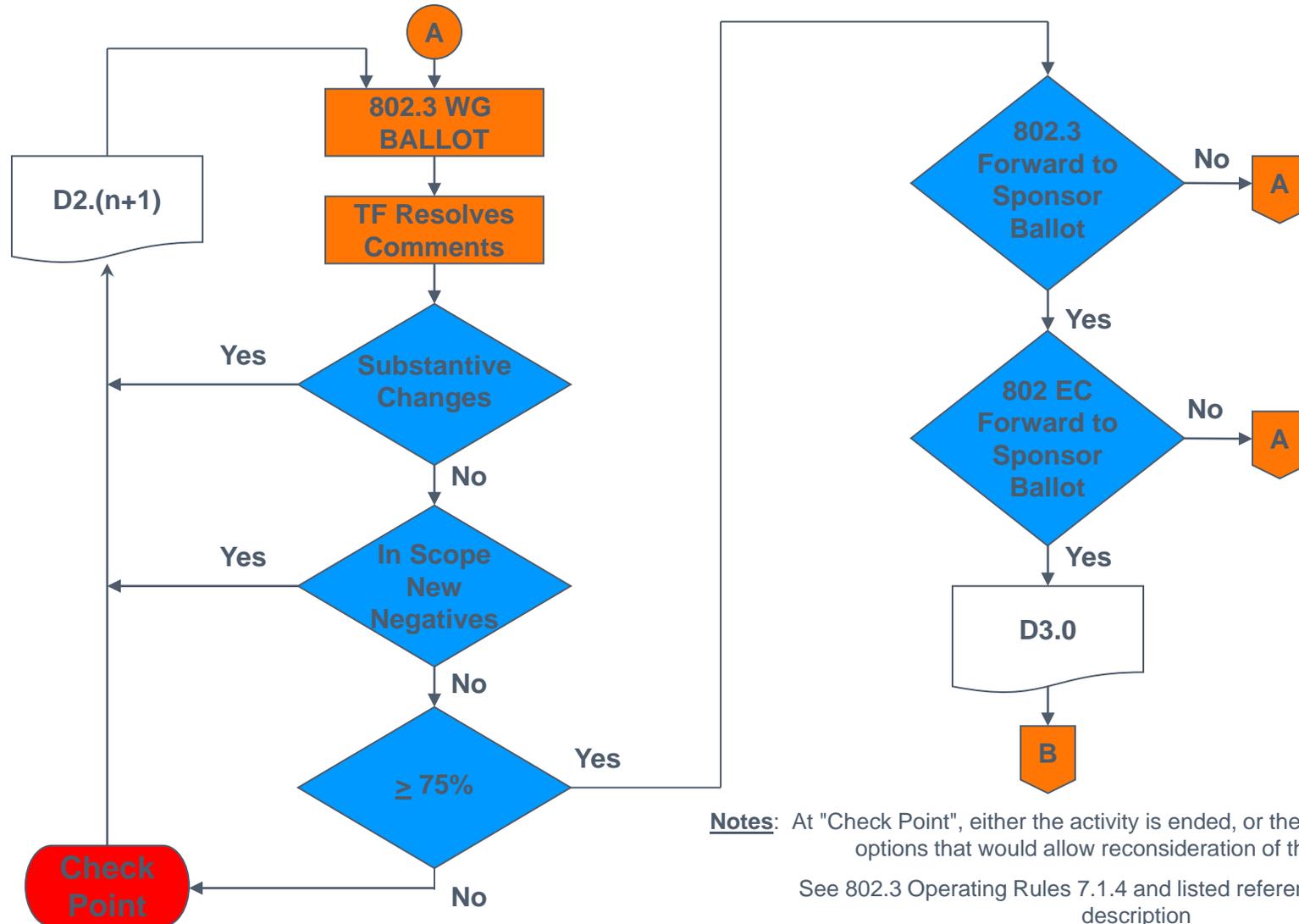
Overview of IEEE 802.3 Standards Process (2/5)

Task Force Comment Phase



Overview of IEEE 802.3 Standards Process (3/5)

Working Group Ballot Phase

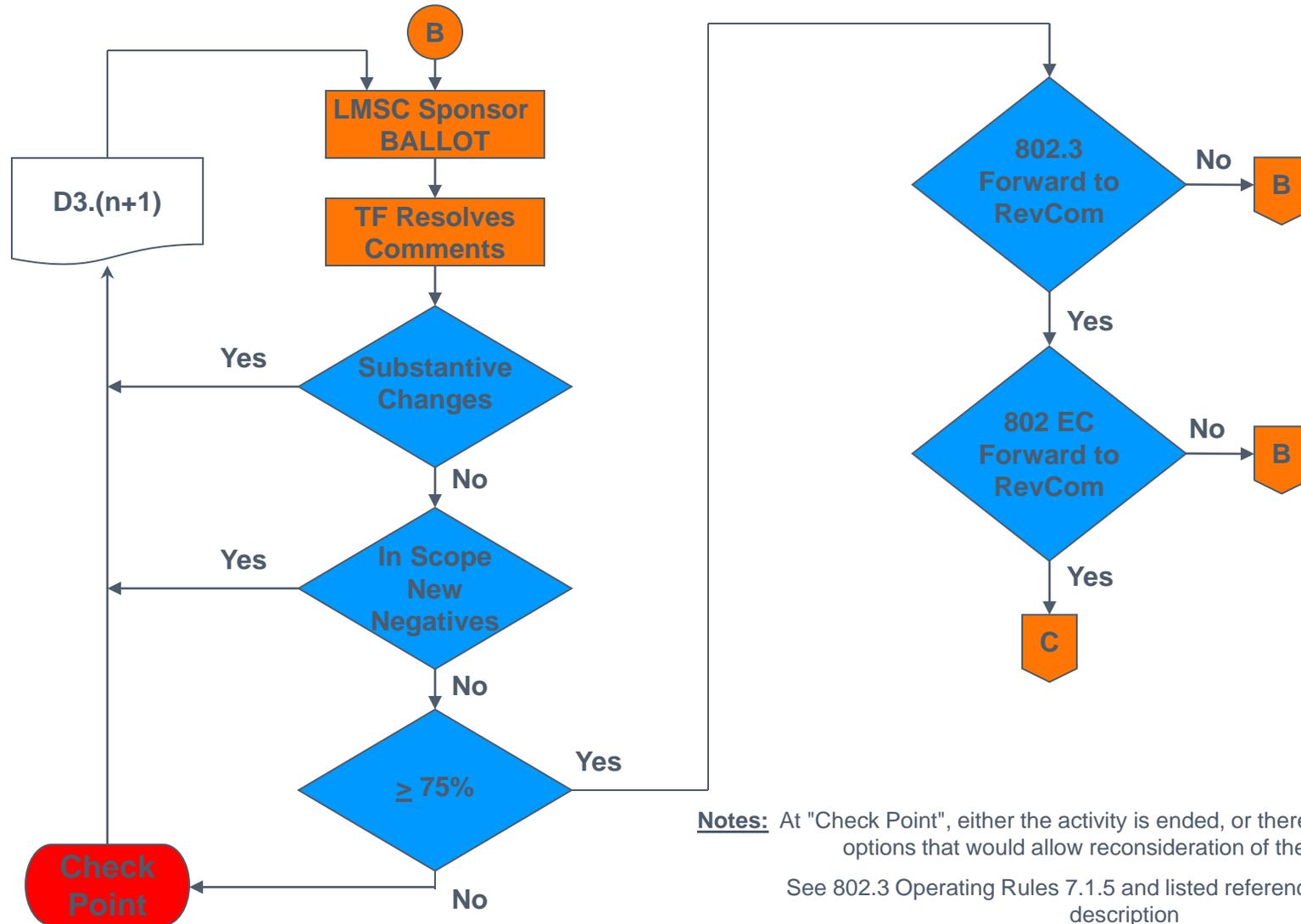


Notes: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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

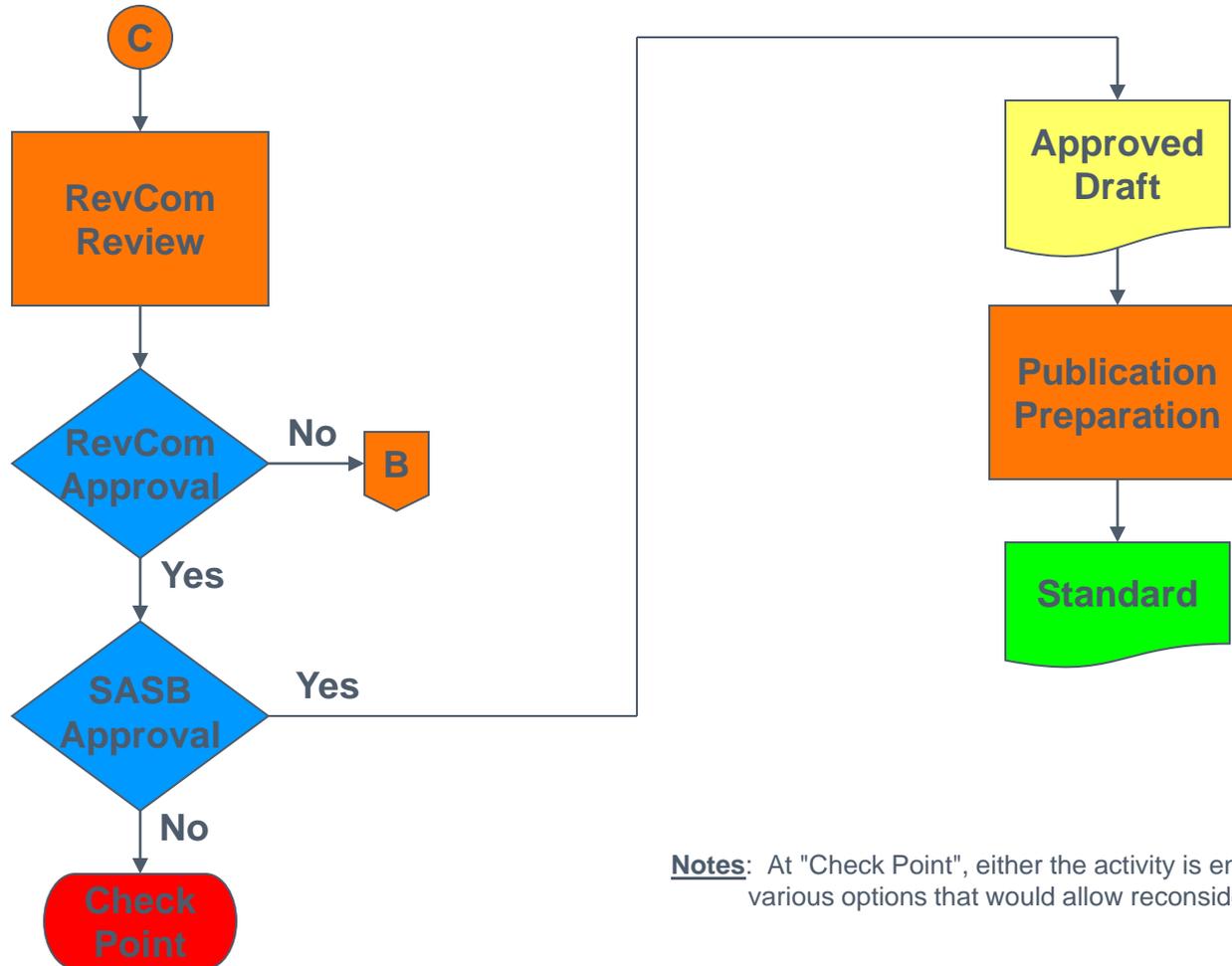


Notes: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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.

TF project documents

- » Project Authorization Request (PAR), with changes from October 29, 2012 (see next slide for details)

[P802_3bk_PAR_291012.pdf](#)

- » Project Objectives

[ExEPON_Objectives_approved.pdf](#)

- » 5 Criteria

[ExEPON_5Criteria_approved.pdf](#)

- » Public website

[http://www.ieee802.org/3/bk/](#)

Changes to P802.3bk PAR (I)

- » P802.3bh project is now complete, with IEEE Std 802.3-2012 on the way towards publication
 - > One important change for any existing 802.3 project PARs – title of IEEE Std 802.3-2012 will be now “Standard for Ethernet”
 - > Furthermore, IEEE Std 802.3-2008 and IEEE Std 802.3av-2009 were merged into IEEE Std 802.3-2012
 - > These changes were made automatically by the myProject system on approval of the revision project and do not require approval from TF or WG. Updated PAR text is posted online now (dated 29-October-2012)

Changes to P802.3bk PAR (III)

» Changes to PAR text

- > 2.1 Title: “~~IEEE Standard for Ethernet Information technology—Telecommunications and information exchange between systems—Local and metropolitan area networks—Specific requirements Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications~~ Amendment: Physical Layer Specifications and Management Parameters for Extended Ethernet Passive Optical Networks”

Changes to P802.3bk PAR (III)

» Changes to PAR text

- > 5.2.b. Scope of the project: *“The scope of this project is to amend IEEE Std 802.3 to add at least one physical layer specification, possibly optical power budget extenders, and management parameters necessary for Ethernet Passive Optical Networks (EPON) to support optical loss budgets in excess of those specified in IEEE Std 802.3-2012~~2008~~ (Standard for ~~Ethernet~~Information technology—Telecommunications and information exchange between systems—Local and metropolitan area networks—Specific requirements Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications) and IEEE Std 802.3av-2009 (Standard for Information technology—Telecommunications and information exchange between systems—Local and metropolitan area networks—Specific requirements Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications, Amendment 1: Physical Layer Specifications and Management Parameters for 10 Gb/s Passive Optical Networks).”*

IEEE P802.3bk project objectives

- » Support subscriber access networks using point-to-multipoint topologies on SM optical fiber
- » EPON PHY(s) to have a BER better than or equal to 10^{-12} at the MAC/PLS service interface
- » Provide physical layer specifications:
 - > for 1G-EPON supporting a downstream channel insertion loss of 29dB, compatible with PR(X)30 upstream channel insertion loss;
 - > for 1G-EPON supporting a split ratio of at least 1:64 at a distance of at least 20 km;
 - > for 10G-EPON, supporting a split ratio of at least 1:64 at a distance of at least 20 km;

IEEE P802.3bk project timeline

» D1.0

> Publish out of May 2012 meeting, start TF review cycle

» D2.0

> Publish out of November 2012 meeting, start WG ballot cycle

» D3.0

> Publish out of March 2013 meeting, start Sponsor ballot cycle

» Standard done: August 2013

Minutes from 2012 September meeting

- » Minutes (unapproved) from September 2012 meeting have been posted on website for almost 2 months:
http://www.ieee802.org/3/bk/public/1209/8023bk_1209_minutes_unapproved.pdf
- » No requests for corrections have been received so far

Motion #2

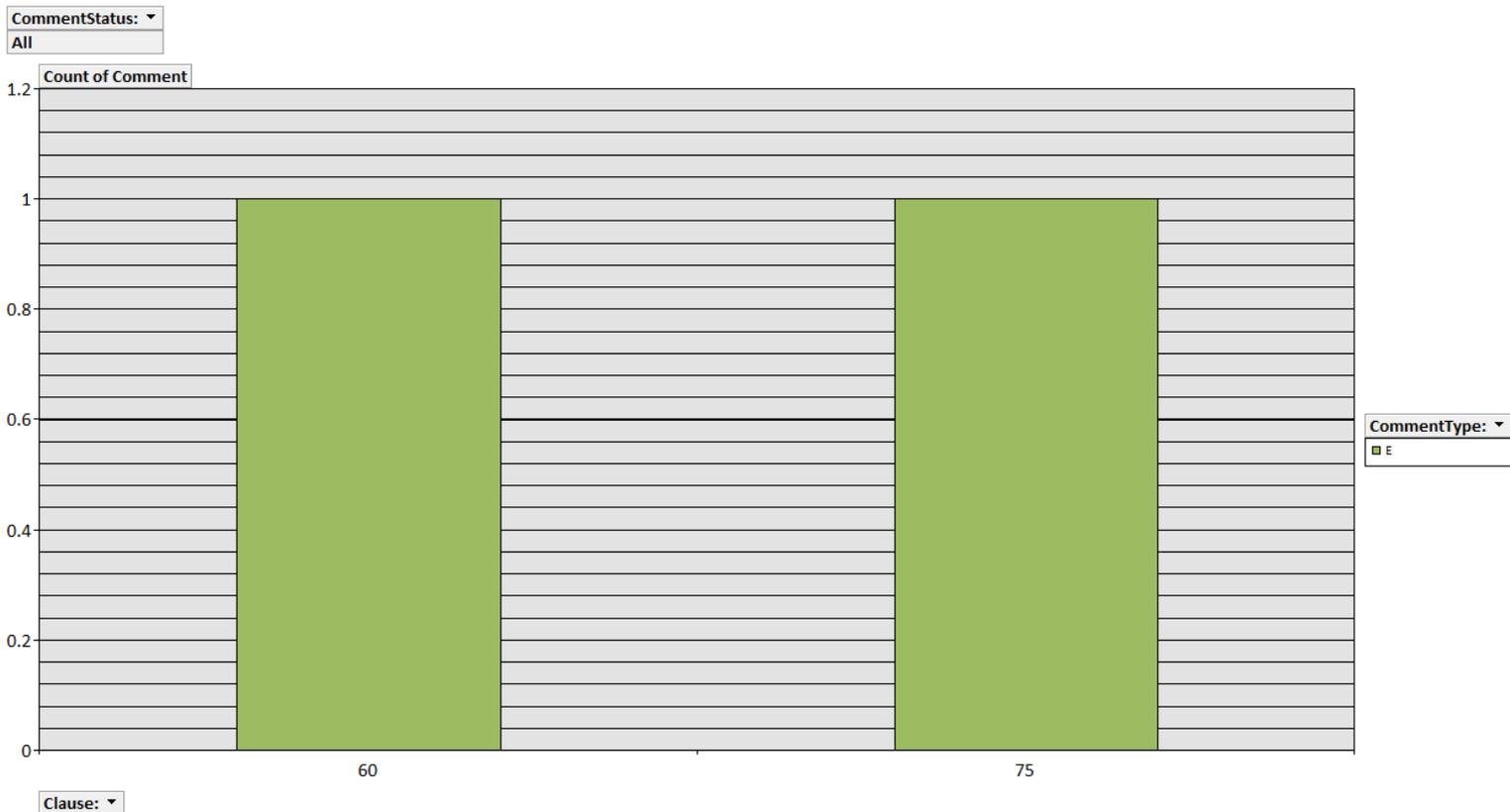
- » Approve minutes of September 2012 meeting as recorded in 8023bk_1209_minutes_unapproved.pdf and post them online as 8023bk_1209_minutes_approved.pdf
- » Moved by: Duane Remein
- » Seconded by: Wen Li

(Procedural motion, > 50%)

Motion passed by voice vote without opposition (08:22)

D1.2 review status

- » The 3rd TF Review on D1.2 closed on November the 1st, 2012 11:59PM AOE
- » 2 Editorial (E) comments were received



Motion #3

- » Charter the Editor with creating draft D2.0 by incorporating approved responses to all received comments into draft D1.2.
- » The Editor has a license to resolve conflicts and apply editorial changes as needed.

- » Moved by: Susumu Nishihara
- » Seconded by: Alan Brown

(Technical motion, requires $\geq 75\%$)

Yes: 10 / No: 0 / Abstain: / 0

Motion passed (08:31)

Motion #4

- » Request 802.3 WG Chair to conduct 802.3 Working Group ballot on P802.3bk draft D2.0.
- » Moved by: Ed Mallette
- » Seconded by: Susumu Nishihara

(Technical motion, requires $\geq 75\%$)

Yes: 10 / No: 0 / Abstain: 0 /

Motion passed (08:35)

Future Meetings

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

- » 2013.01 802 interim Meeting
 - > Hyatt Regency Phoenix, Phoenix, AZ, USA
 - > Week of January 21, 2013

- » 2013.03 802 Plenary Meeting
 - > Caribe Royale, Orlando, FL, USA
 - > Monday, March 18th through Thursday, March 21st, 2013

- » Anyone interested in hosting a meeting contact me for more information.

Straw Poll #1

- » I will attend the IEEE 802.3 interim meeting in Phoenix, AZ, USA, week of January 21, 2013
 - > Yes: 5
 - > Maybe Yes: 2
 - > Maybe No: 2
 - > No: 1

- » I will attend the meeting of the Extended EPON P802.3bk Task Force, taking place during the IEEE 802.3 interim meeting in Phoenix, AZ, USA, week of January 21 (specific dates are TBD this time):
 - > Yes: 6
 - > Maybe Yes: 2
 - > Maybe No: 1
 - > No: 1

Thank You!