

Agenda and General Information

IEEE P802.3cb CU4HDD Task Force

Dan Smith
Seagate

Whistler Interim, May 24/25, 2016

Agenda

- Larry McMillan volunteered as secretary
- Welcome and Introductions
- IEEE
 - Structure, Bylaws and Rules
 - Call for Patents
 - IEEE Standards Process
- Review of Action Items from 19-May-2016 Ad Hoc call
- Presentations
- Comment resolution
- Motions and Closing Business
- Future Meetings

Task Force Decorum



- Photography or recording by permission only (December 2014 IEEE-SA Standards Board Ops Manual 5.3.3.2)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (December 2014 IEEE-SA Standards Board Ops Manual 5.3.3.3)
- 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 the meeting

First Day (May 24)

- Anthony Calbone, [802.3cb SEI Proposed Draft Details](#)
- Peter Wu, Marvell: [802.3cb Proposed Draft Commentary](#) and 128.7/130.7 and 128B/130B
- William Lo, Marvell: [Sequence Ordered Set for 2.5GBASE-X](#)
- Review of PAR, CSD, and Objectives - no vote required – need to resubmit for approval at July Plenary

(afternoon, first day)

- Rich Mellitz, Intel: [how to determine Transmit parameters from measured channel file using features of COM computation](#)
- Comment Resolution/Discussion

Goals for the meeting

Second Day (May 25)

- Yong Kim presents EEE time considerations for pause operation
- Carry-over Comment Resolution/Discussion work
- Comment Resolution Approval Voting (see below)

Comment Resolution Acceptance Voting

- Motion #1:
Adopt Chip-to-chip implementation with content of wu_3cb_02_0516.pdf and wu_3cb_03_0516.pdf
 - Technical (75%)
 - Moved: William Lo
 - Seconded: Yong Kim

 - Yes: 5
 - No: 0
 - Abstain: 2
 - Approved

Comment Resolution Acceptance Voting

- Motion #2:
Adopt interference tolerance test in Annex 128B and Annex 130B as **normative** as per wu_3cb_04_0516.pdf and wu_3cb_05a_0516.pdf
 - Technical (75%)
 - Moved: Yong Kim
 - Seconded: William Lo

 - Yes: 4
 - No: 0
 - Abstain: 3
 - Approved

Comment Resolution Acceptance Voting

- Motion #3:
Adopt interconnect characteristics in Annex 128C and Annex 130C as **informative** per wu_3cb_04_0516.pdf and wu_3cb_05a_0516.pdf
 - Technical (75%)
 - Moved: Anthony Calbone
 - Seconded: Yong Kim

 - Yes: 5
 - No: 0
 - Abstain: 2
 - Approved

Comment Resolution Acceptance Voting

- Motion #4:
Adopt Annex 128A and 130A for Storage Enclosure Interface as **normative** per calbone_3cb_01_0516.pdf, as integrated in draft 0.6a.
 - Technical (75%)
 - Moved: Peter Wu
 - Seconded: William Lo

 - Yes: 5
 - No: 0
 - Abstain: 2
 - Approved

Comment Resolution Acceptance Voting

- Motion #5:
Adopt Annex 132A as 128D and 130D as normative per 802.3cb_ClauseTestFixtures_r0.96.pdf
 - Technical (75%)
 - Moved: William Lo
 - Seconded: Yong Kim

 - Yes: 5
 - No: 0
 - Abstain: 2
 - Approved

Comment Resolution Acceptance Voting

- Motion #6:
Authorize editor to produce P802.3cb/D1.0 as modified by comment resolutions of May 2016 interim as the task force baseline draft, with customary editorial license.
 - Technical (75%)
 - Moved: Anthony Calbone
 - Seconded: Larry McMillan

 - Yes: 5
 - No: 0
 - Abstain: 2
 - Approved

Reflector and Web

- To subscribe to the CU4HDD Task Force reflector, send an email to:
[*daniel.f.smith@seagate.com*](mailto:daniel.f.smith@seagate.com)

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

subscribe CU4HDD Task Force *<yourfirstname> <yourlastname>*
end

- Send CU4HDD Task Force reflector messages to:
[**stds-802-3-CU4HDD@listserv.ieee.org**](mailto:stds-802-3-CU4HDD@listserv.ieee.org)
- Task Force web page URL:
[**http://www.ieee802.org/3/cb/index.html**](http://www.ieee802.org/3/cb/index.html)

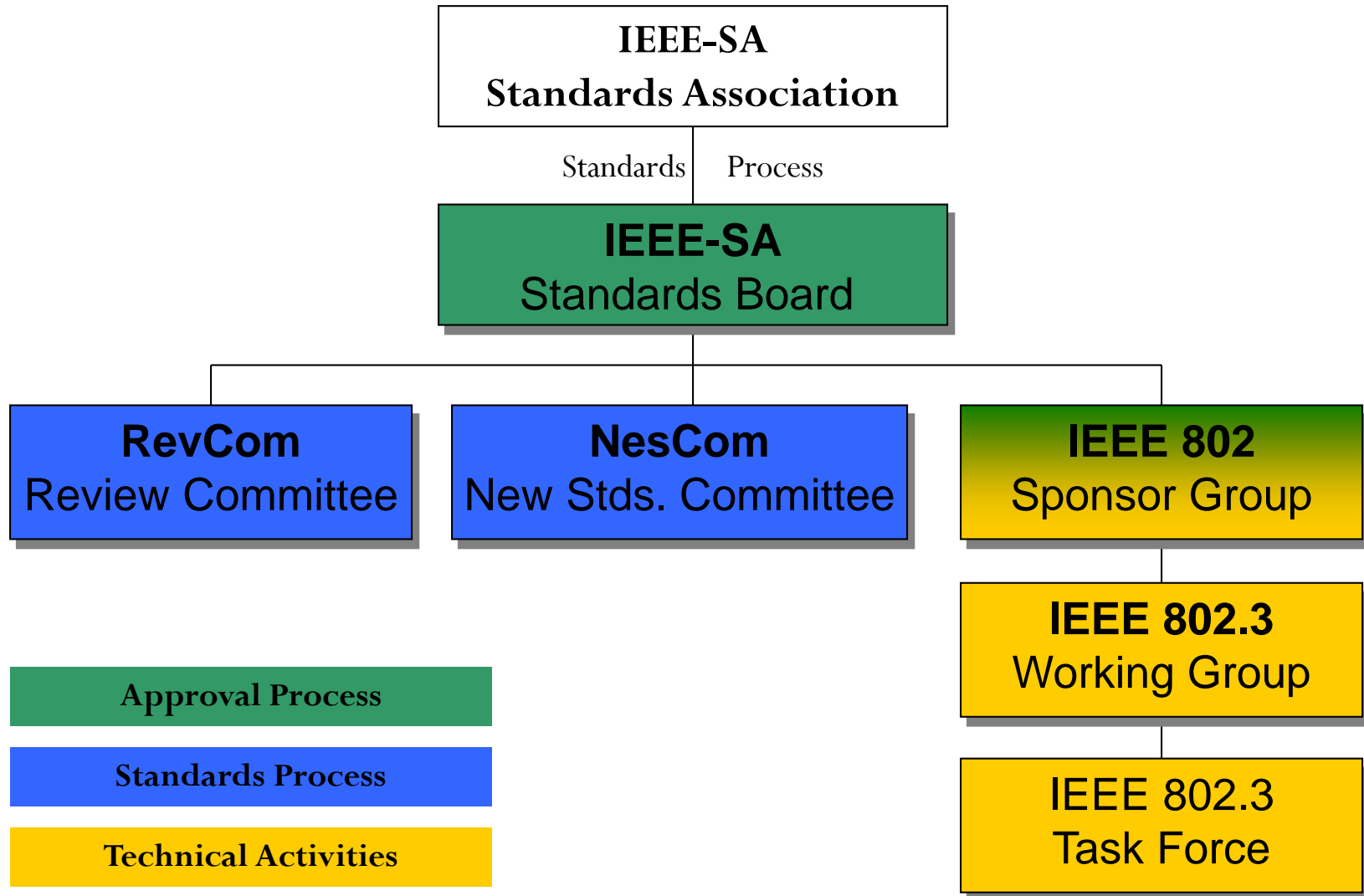
Ground Rules

- 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/attendance_procedures.pdf
- Access details
 - URL: <http://imat.ieee.org/>
 - (For interim) Password will be provided

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/devdocs.shtml>
- **IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG) Policies and Procedures**
<http://www.ieee802.org/devdocs.shtml>
- **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 14 and 15 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**
 - **“Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of 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

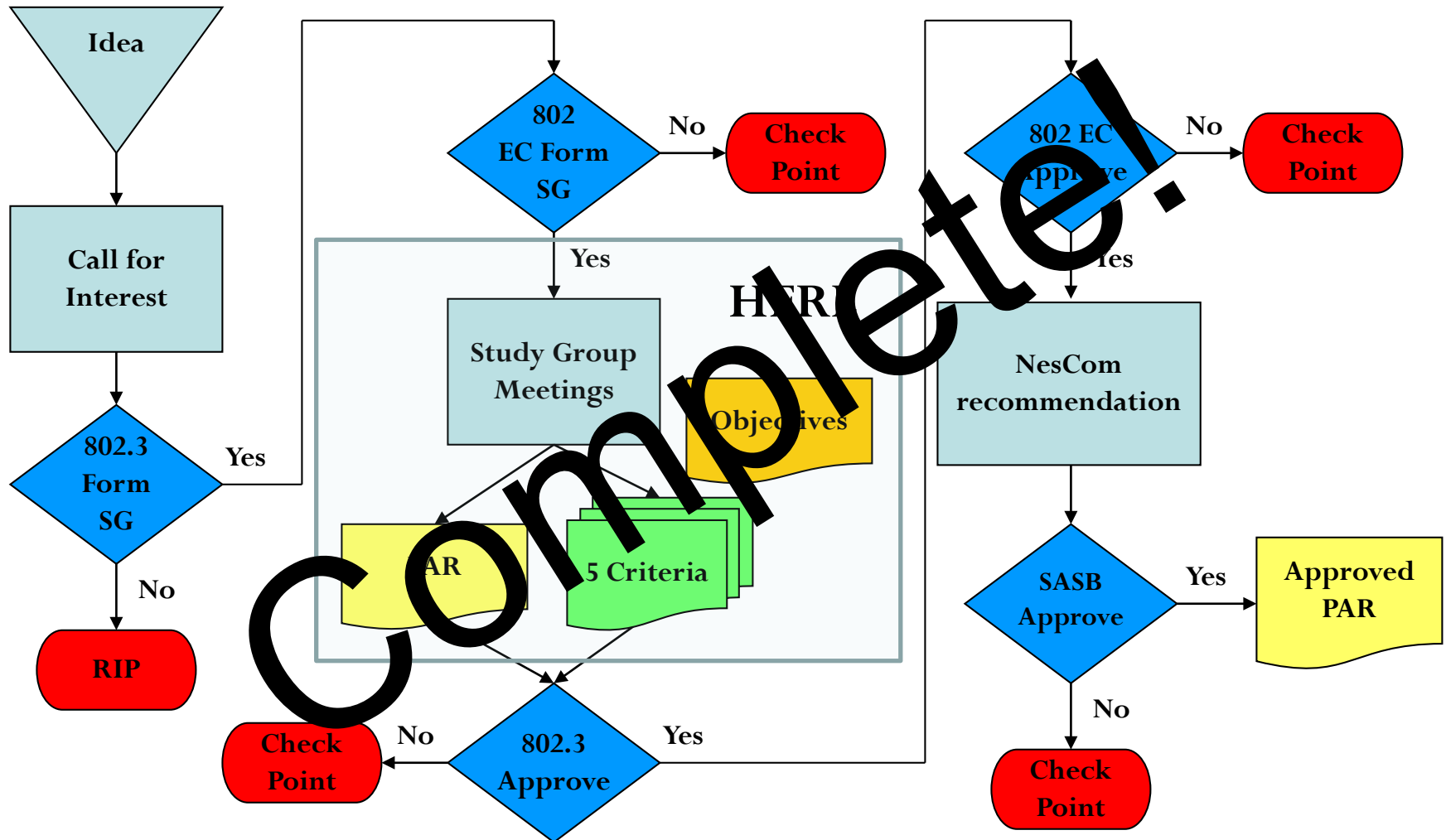
- If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance:
 - Either speak up now or
 - Provide 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.**

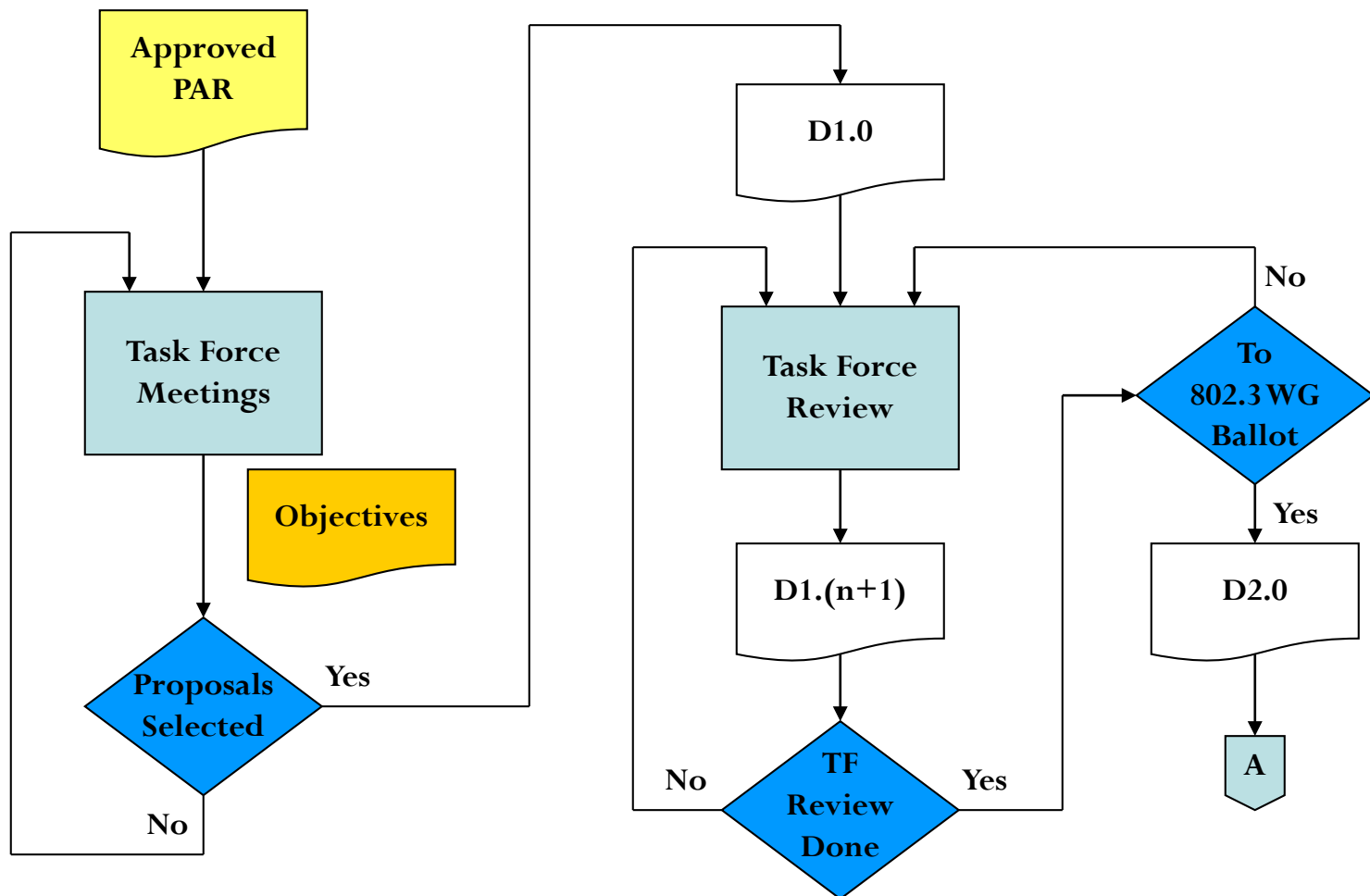
See *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and “Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy” for more details.

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

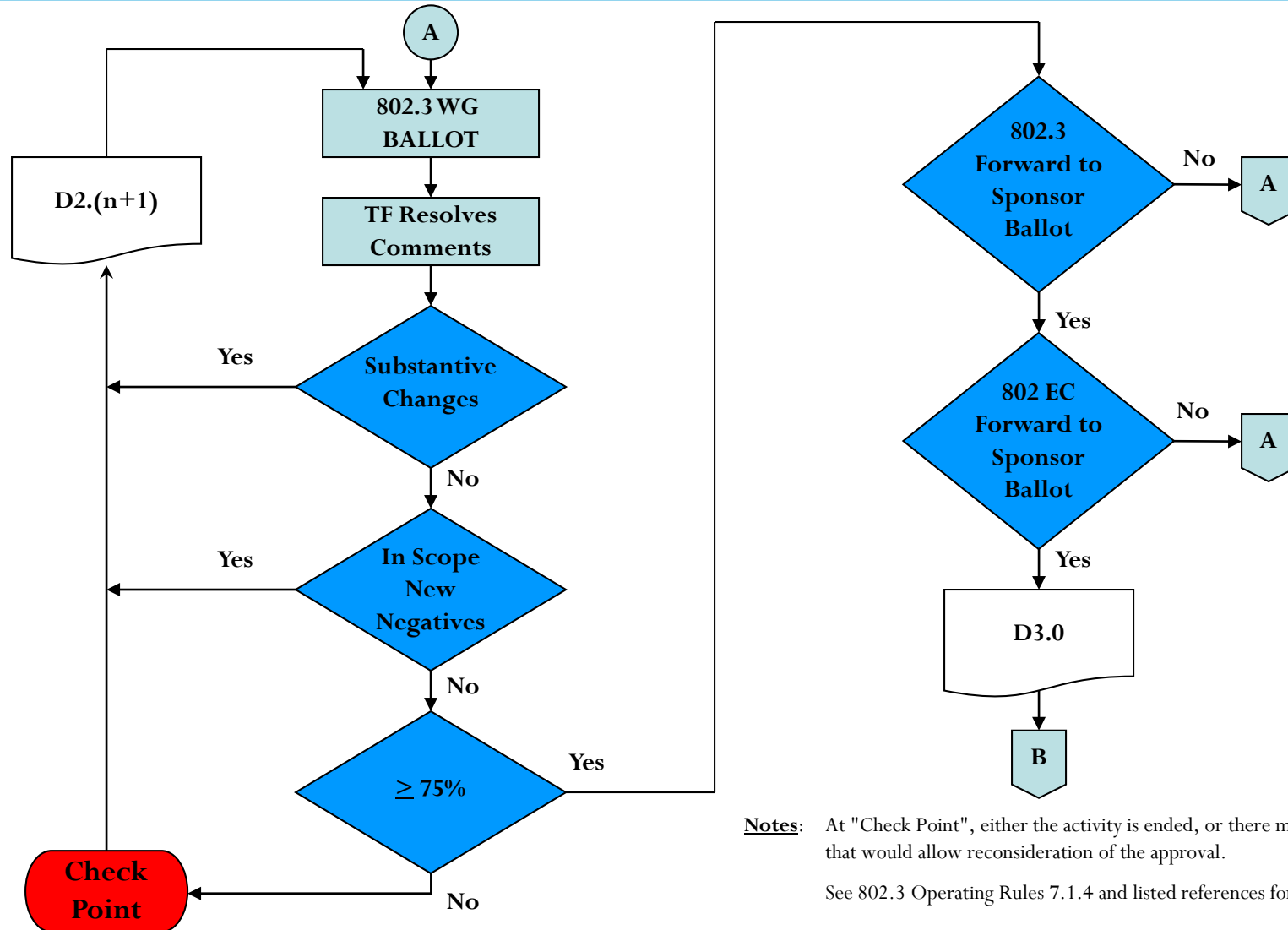


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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



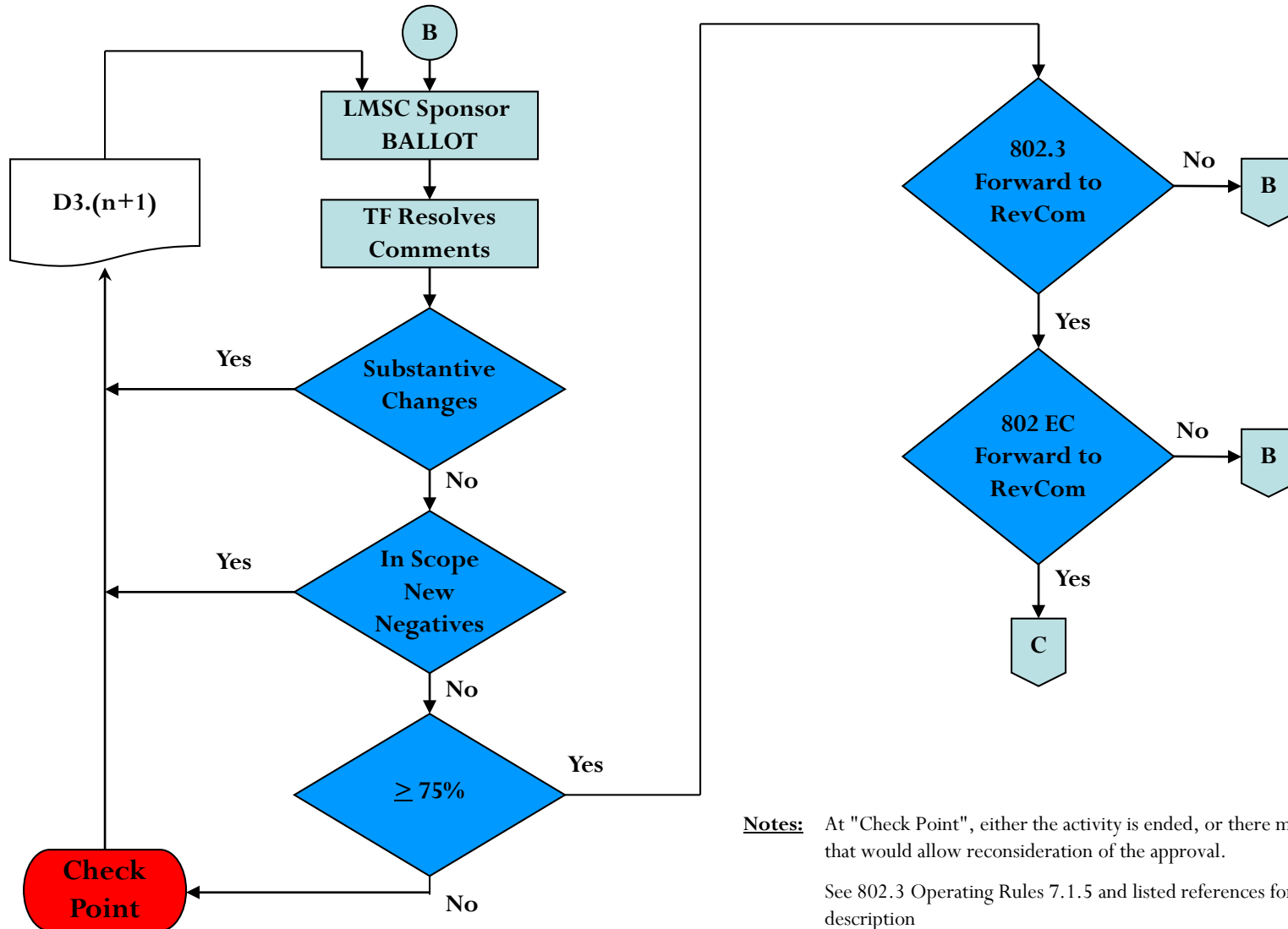
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



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

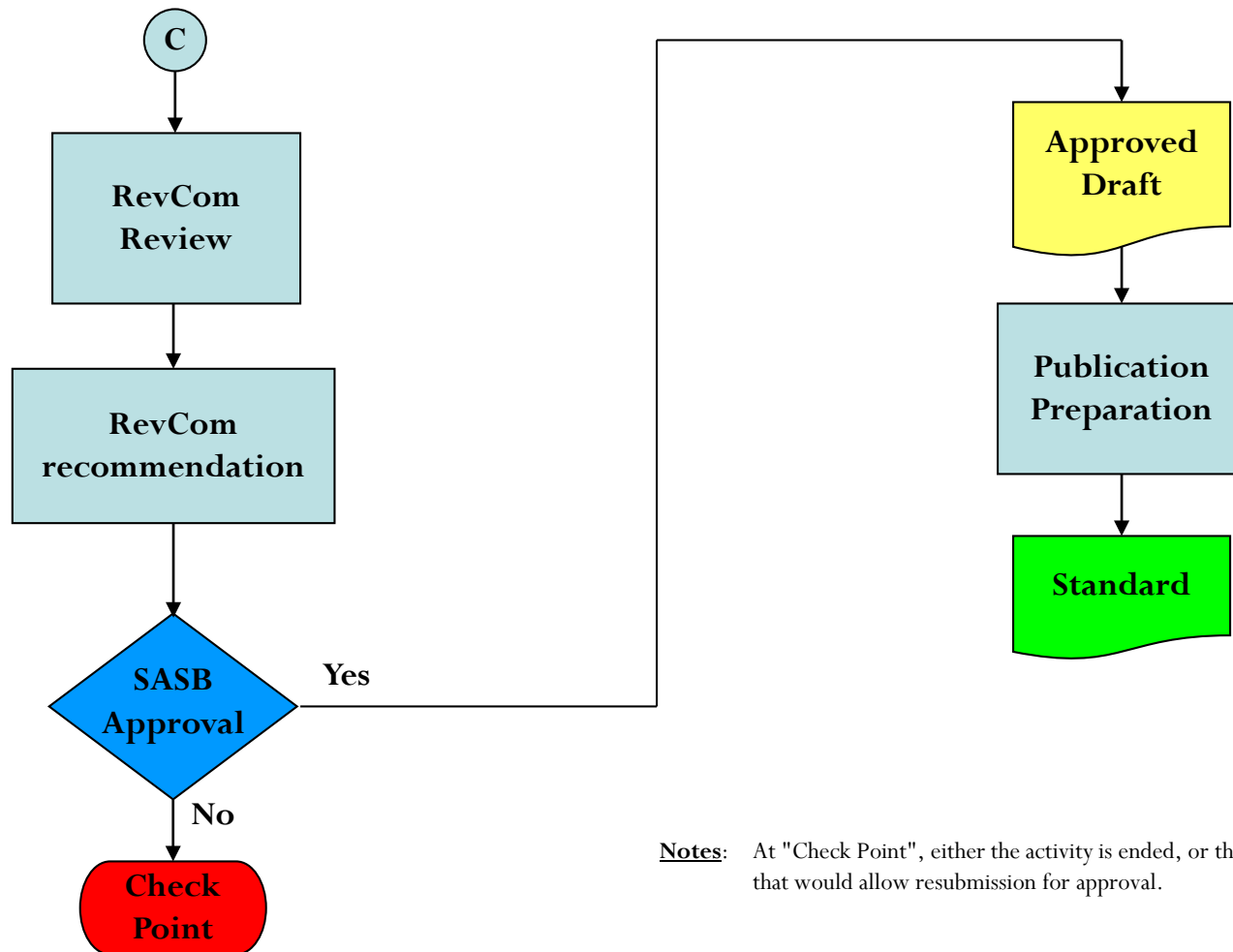
Overview of IEEE 802.3 Standards Process (4/5)- Sponsor Ballot Phase



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



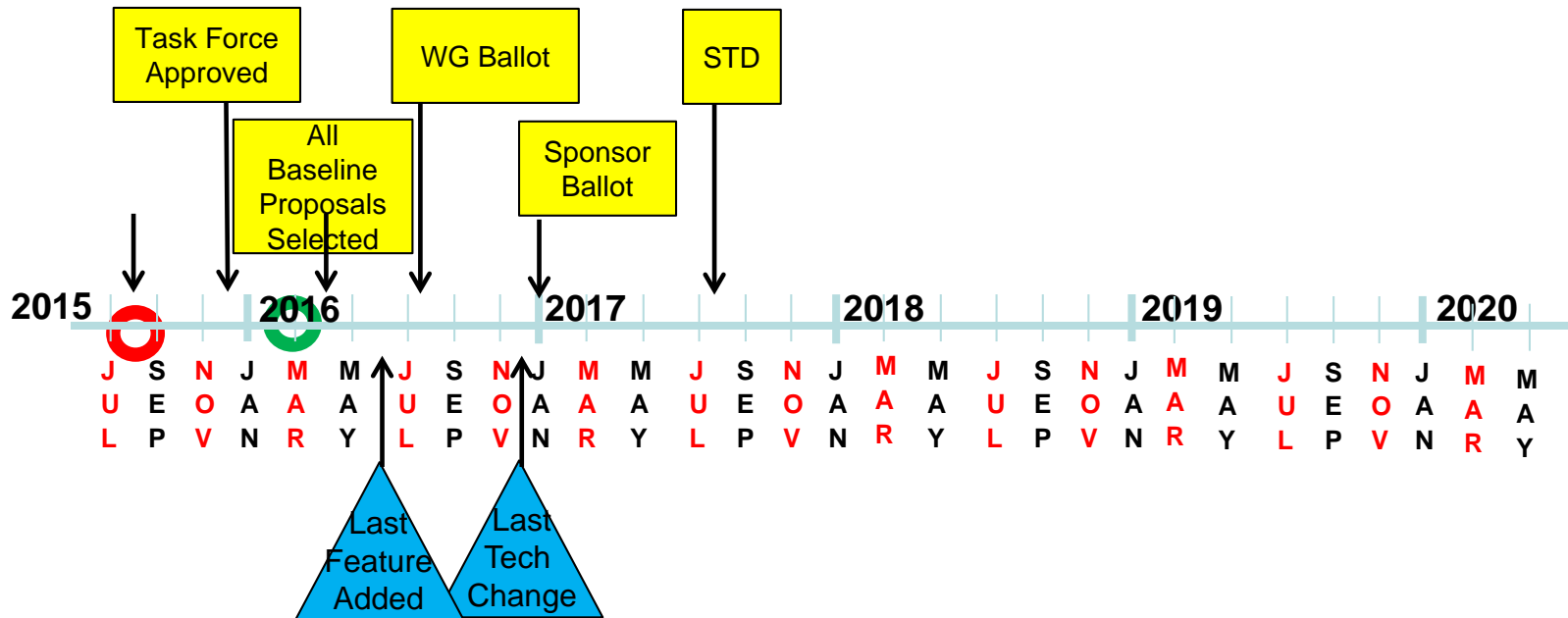
Notes: At "Check Point", either the activity is ended, or there may be various options that would allow resubmission for approval.

IEEE P802.3cb CU4HDD TF Approved Project Documents

- PAR, CSD, Objectives
 - [PAR *revision* link](#)
 - [Criteria link](#)
 - [Objectives link](#)

IEEE P802.3cb CU4HDD TF Timeline

FASTEST Possible Timeline – and achievable –meaningful and timely contributions



Assumptions (minimum duration) -- Stretch goals

- TF D0.1 Generated – April 18, 2016
- TF Ballot (1st) – April 25 ~ May 9nd 2016
- Comment Resolution – May 23rd week Interim.
- TF D1.0 Generated – May 25, 2016
- Comment Resolution at June Interim – 1 day out of [June 23rd ~ June 28]
- TF D1.1 Generated – pre-circulate to WG. July 11th.

Thank You!