



IEEE P802.3ap

Backplane Ethernet Task Force

Agenda and General Information

Denver, CO
March 7, 2006



Agenda

- Welcome and Introductions
- Approve Agenda
- Approve Meeting Minutes
- Goals for this Meeting
- Task Force Organization
- Reflector and Web
- Ground Rules
- IEEE
 - Structure
 - Bylaws and Rules
 - Call for Patents
 - IEEE Standards Process
- Review Task Force Status
- Comment Resolution
 - Presentations
- Closing Business
- Future Meetings



Goals for this Meeting

- Respond to comments against IEEE P802.3ap Draft 2.3
- Approve generation and recirculation of Draft 2.4
- Conditional approval for Sponsor Ballot???



Task Force Organization

- Task Force Chair
 - Adam Healey (ahealey@agere.com)

- Task Force Secretary
 - John D'Ambrosia (john.dambrosia@tycoelectronics.com)

- Chief Editor
 - Schelto van Doorn (schelto.vandoorn@intel.com)

- Channel Model Ad Hoc Chair
 - Charles Moore (charles.moore@avagotech.com)



Editorial Team

Editor	Affiliation	Clause(s), Annex(es)
Schelto van Doorn	Intel	1–44, A, 28A, 30B, 70, and 71
Arthur Marris	Cadence	45
Adam Healey Charles Moore	Agere Systems Avago Technologies	69, 69A, 69B
Tom Palkert	Xilinx	72
Pat Thaler	Broadcom	73, 73A
Ilango Ganga	Intel	74, 74A

- Thanks to all volunteers and contributors...



Web and Reflector

- IEEE P802.3ap Task Force web page:

<http://www.ieee802.org/3/ap/>

- To subscribe to the IEEE P802.3ap Backplane Ethernet Task Force reflector send an email to:

[*listserv@ieee.org*](mailto:listserv@ieee.org)

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

subscribe stds-802-3-blade <yourfirstname> <yourlastname>

For complete instructions on reflector usage, subscription, and unsubscription:

<http://ieee802.org/3/ap/reflector.html>



IEEE P802.3ap Draft Repository

- IEEE P802.3ap Private Area:

- <http://ieee802.org/3/ap/private/index.html>

- Username: ■ ■ ■ ■ ■

- Password: ■ ■ ■ ■ ■

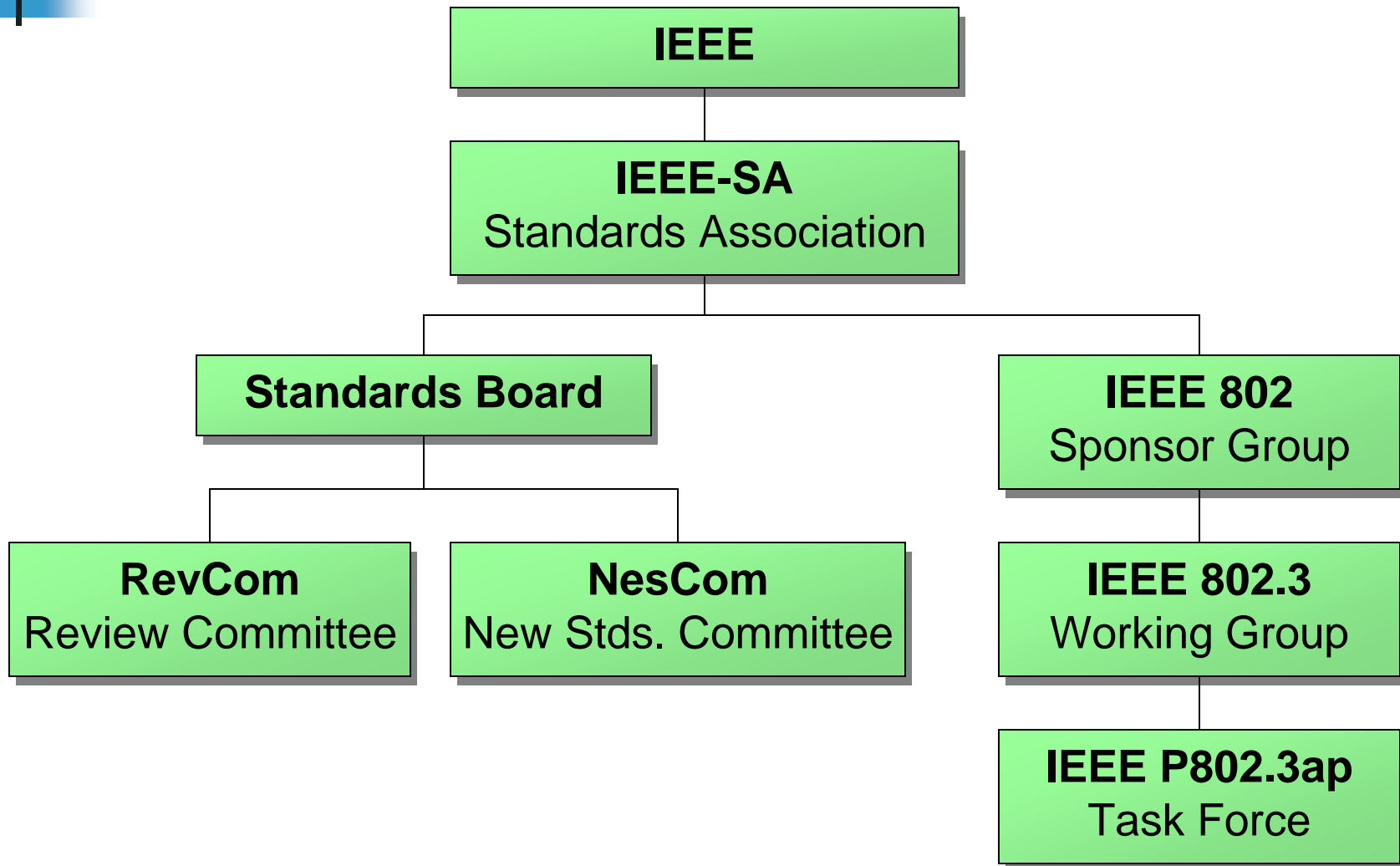
- The username and password are case-sensitive.
Write them down...



Ground Rules

- 802.3 Rules apply...
 - Foundation based upon Robert's Rules of Order
- ...with the following exceptions:
 - 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





References

- IEEE-SA Standards Board Operations Manual:
<http://standards.ieee.org/guides/opman/sb-om.pdf>
- LAN/MAN Standards Committee (LMSC) Policies and Procedures:
<http://ieee802.org/policies-and-procedures.pdf>
- IEEE 802.3 Working Group Operating Rules:
http://ieee802.org/3/rules/P802_3_rules.pdf



Additional References

- IEEE-SA Operations Manual:

<http://standards.ieee.org/sa/sa-om-main.html>

- IEEE Standards Association (IEEE-SA) Standards Board Bylaws:

<http://standards.ieee.org/guides/bylaws/index.html>

- Overview and Guide to LMSC:

<http://ieee802.org/802%20overview.pdf>



IEEE-SA Standards Board Bylaws on Patents in Standards

6. Patents

IEEE standards may include the known use of essential patents and patent applications provided the IEEE receives assurance from the patent holder or applicant with respect to patents whose infringement is, or in the case of patent applications, potential future infringement the applicant asserts will be, unavoidable in a compliant implementation of either mandatory or optional portions of the standard [essential patents]. This assurance shall be provided without coercion. The patent holder or applicant should provide this assurance as soon as reasonably feasible in the standards development process. This assurance shall be provided no later than the approval of the standard (or reaffirmation when a patent or patent application becomes known after initial approval of the standard). This assurance shall be either:

- a) A general disclaimer to the effect that the patentee will not enforce any of its present or future patent(s) whose use would be required to implement either mandatory or optional portions of the proposed IEEE standard against any person or entity complying with the standard; or
- b) A statement that a license for such implementation will be made available without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination.

This assurance is irrevocable once submitted and accepted and shall apply, at a minimum, from the date of the standard's approval to the date of the standard's withdrawal.

Approved by IEEE-SA Standards Board – March 2003 (Revised February 2006)



Inappropriate Topics for IEEE WG Meetings

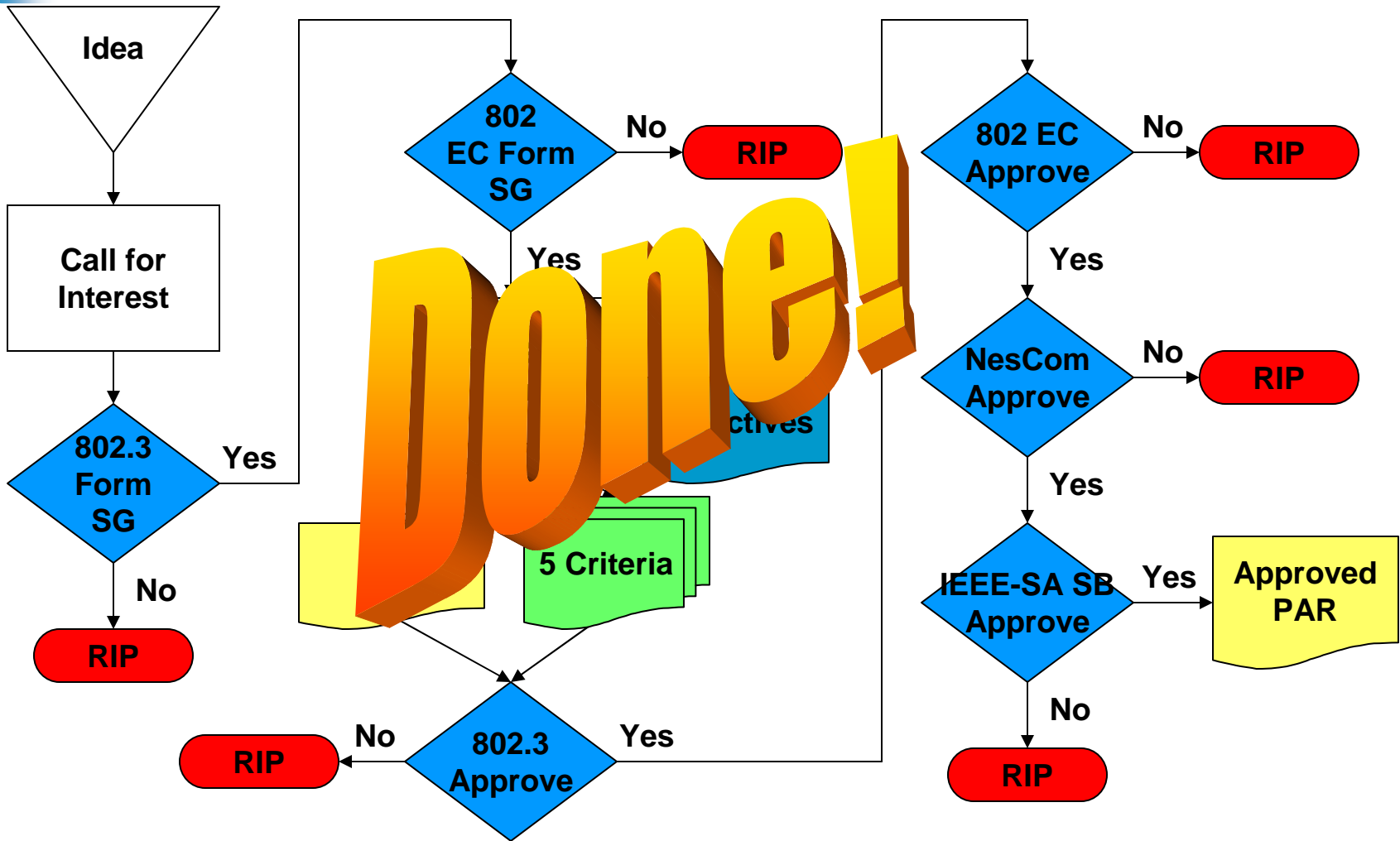
- Don't discuss the validity/essentiality of patents/patent claims
- Don't discuss the cost of specific patent use
- Don't discuss licensing terms or conditions
- Don't discuss product pricing, territorial restrictions, or market share
- Don't discuss ongoing litigation or threatened litigation
- Don't 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/board/pat/index.html>

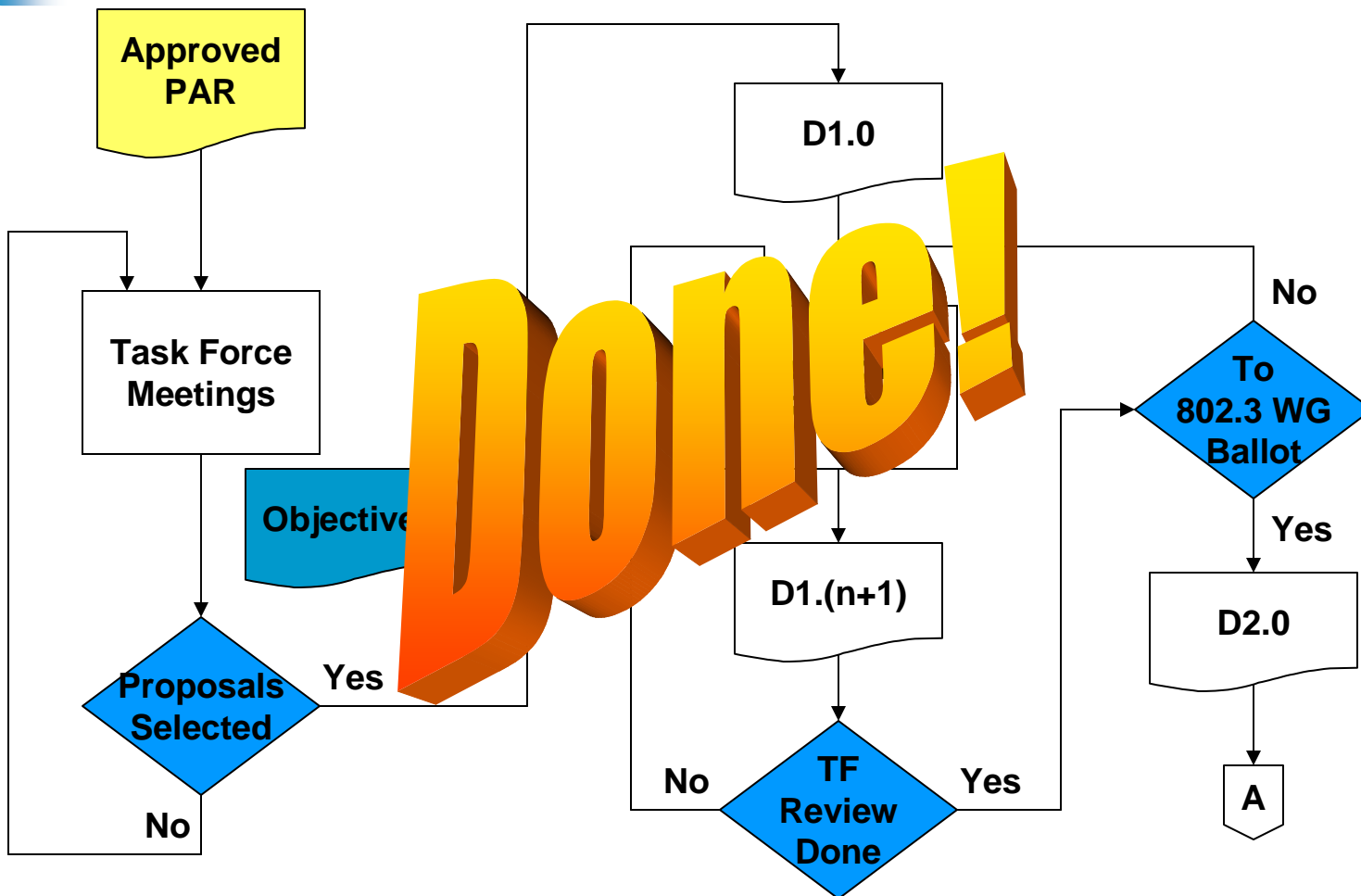
This slide set is available at <http://standards.ieee.org/board/pat/pat-slideset.ppt>

Approved by IEEE-SA Standards Board – March 2003 (Revised February 2006)

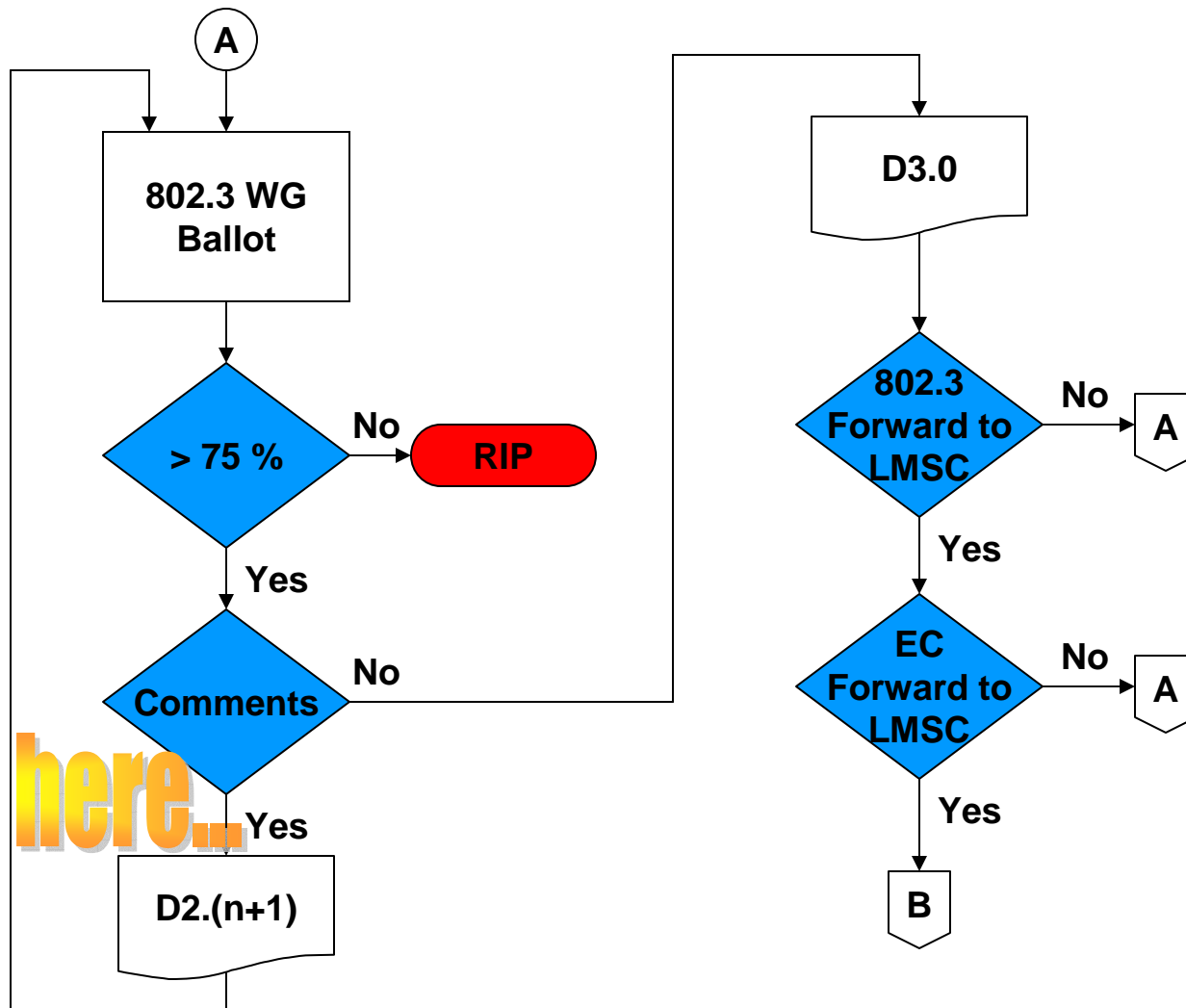
IEEE Standards Process



IEEE Standards Process (cont.)

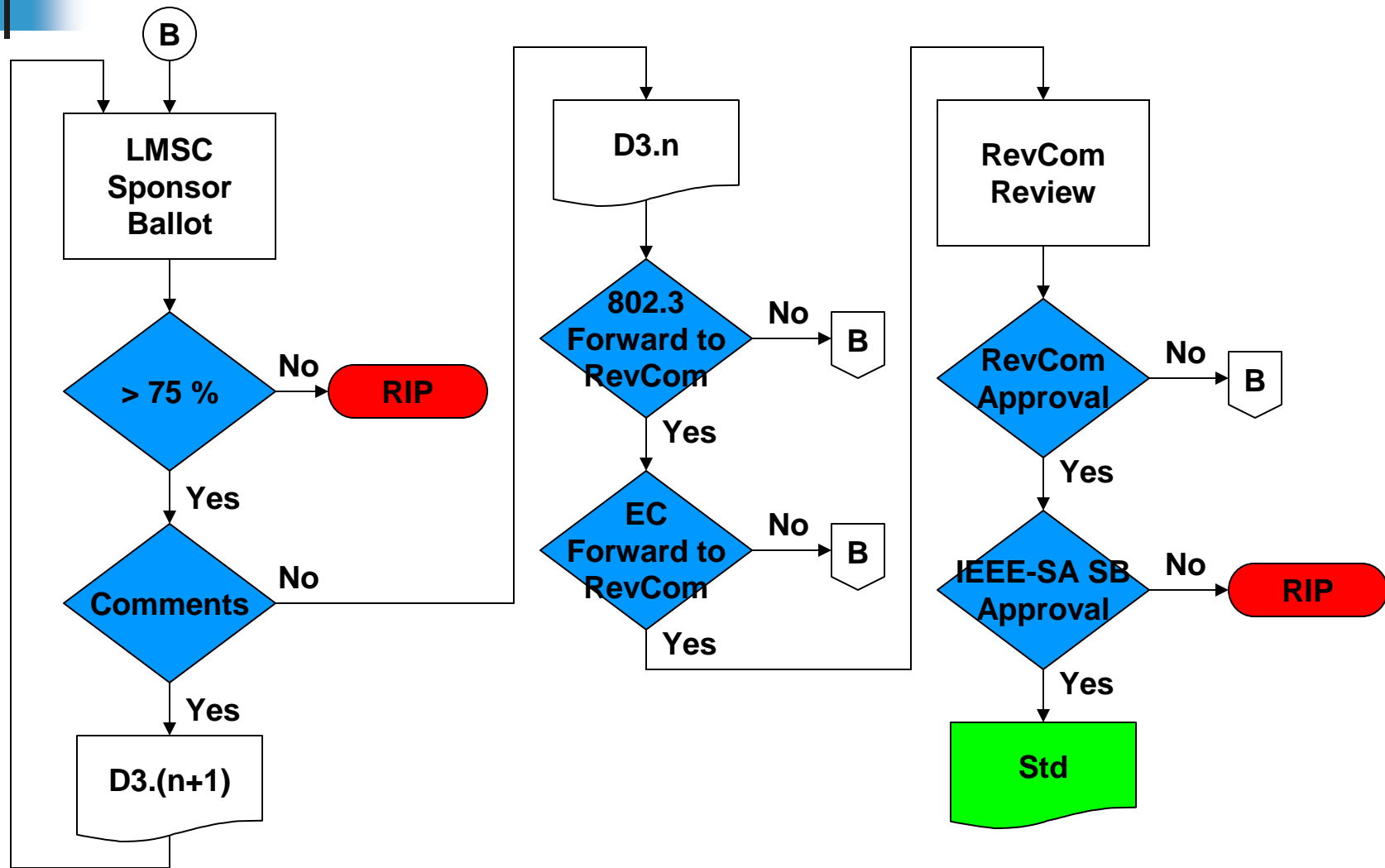


IEEE Standards Process (cont.)



You are here...

IEEE Standards Process (cont.)



Gateway to Sponsor Ballot

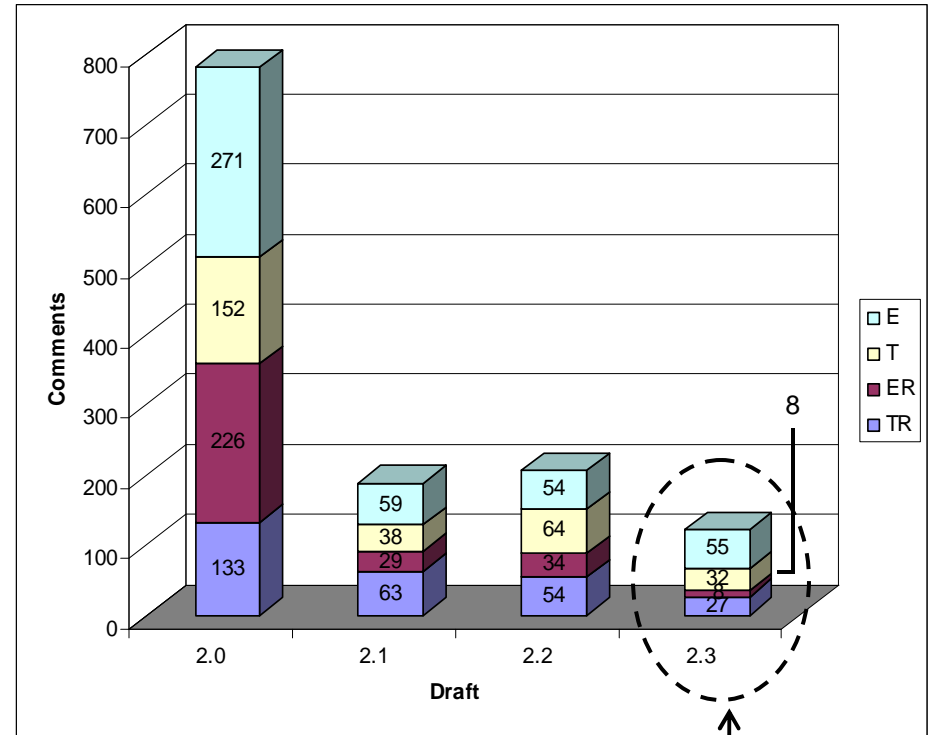
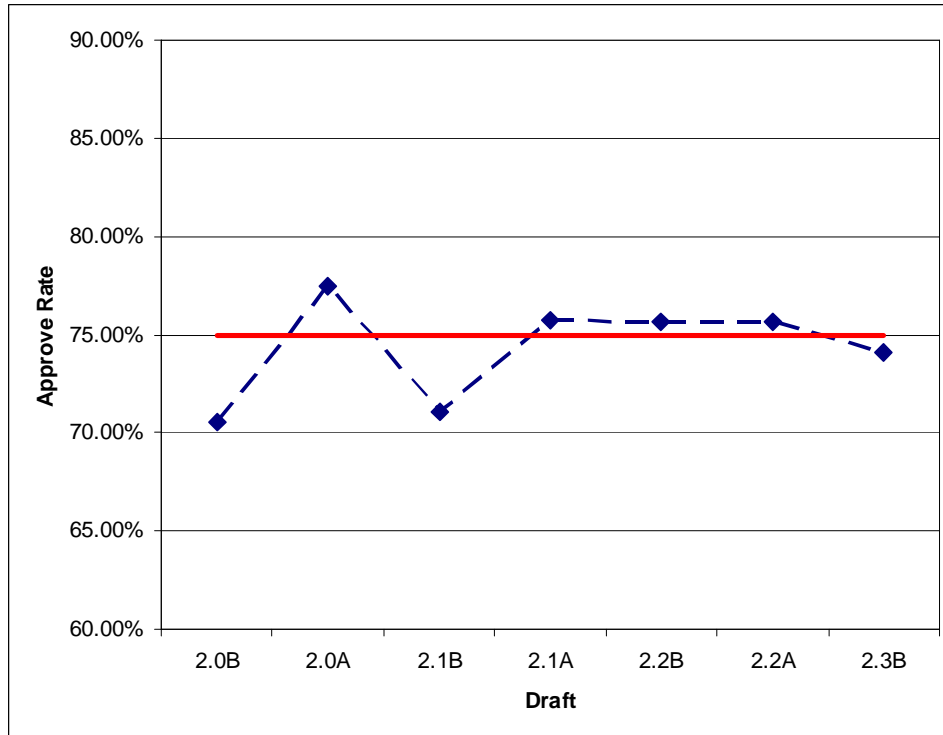
- Approval Rate ($\geq 75\%$)
- Return Rate ($\geq 50\%$)
- Abstention Rate ($< 30\%$)
- No new disapprove votes
- No technical changes (WG chair determination)

- No technical flaws

- Approval to proceed to Sponsor Ballot must be granted by 802.3 and the EC



Ballot Summary (2 of 2)



Includes 27 late comments



IEEE P802.3ap Task Force Documents

- Approved PAR

<http://standards.ieee.org/board/nes/projects/802-3ap.pdf>

- 5 Criteria

http://ieee802.org/3/ap/802_3_ap_5criteria.pdf

- Objectives

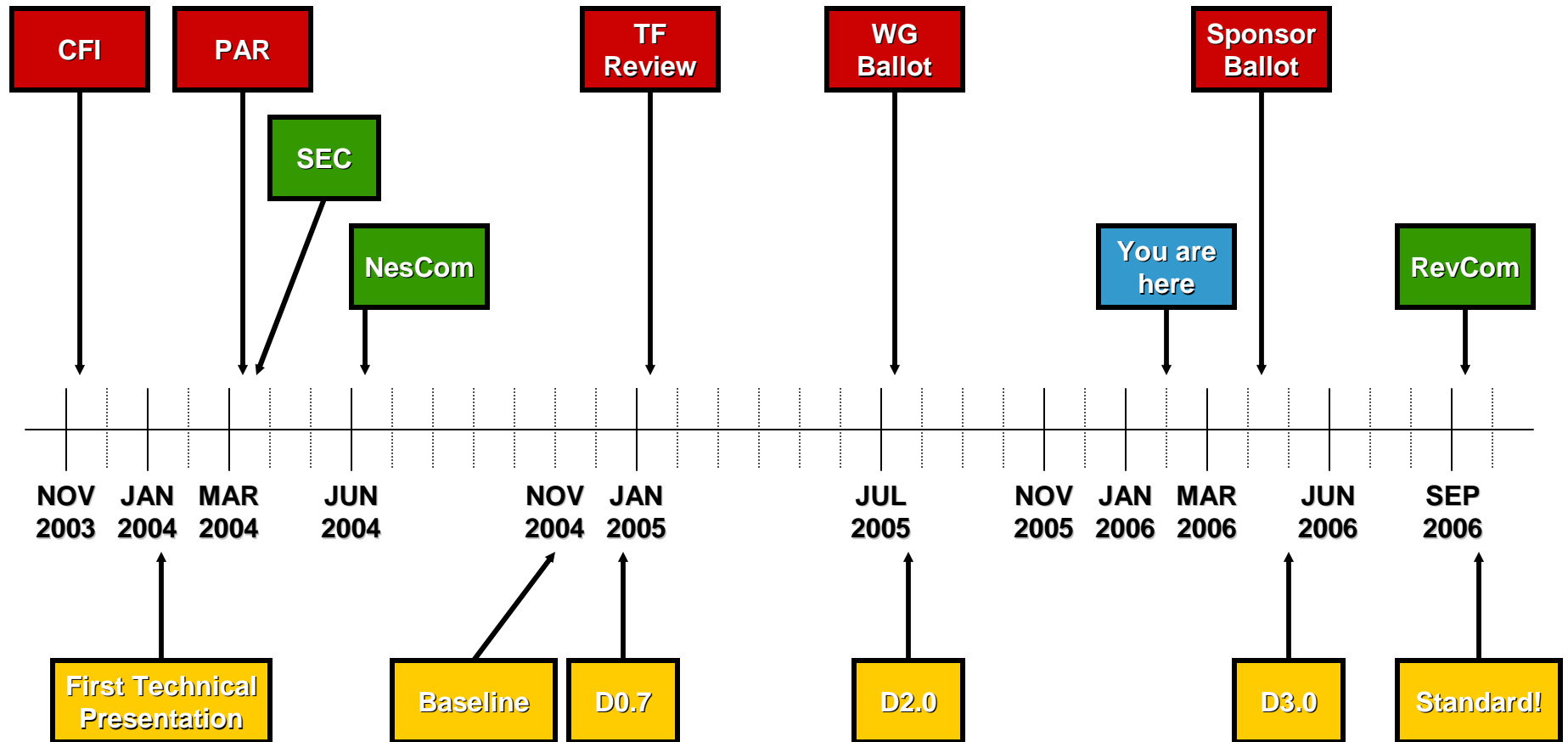
http://ieee802.org/3/ap/802_3_ap_objectives.pdf



IEEE P802.3ap Objectives

- **Preserve the 802.3/Ethernet frame format at the MAC Client service interface.**
- **Preserve min. and max. frame size of current 802.3 Std.**
- **Support existing media independent interfaces.**
- **Support operation over a single lane across 2 connectors over copper traces on improved FR-4 for links consistent with lengths up to at least 1m.**
 - **Define a 1 Gb/s PHY**
 - **Define a 10 Gb/s PHY**
- **Define a 4-lane 10Gb/s PHY for operation over the 802.3ap channel model.**
- **Consider auto-negotiation.**
- **Support BER of 10^{-12} or better.**
- **Meet CISPR/FCC Class A.**

Proposed Timeline



Proposed Timeline Detail

