



IEEE P802.3ap

Backplane Ethernet Task Force

Agenda and General Information

San Diego, CA
February 2, 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 2.2
- Approve generation and recirculation of Draft 2.3



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, 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
Ilango Ganga	Intel	74

- 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

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: ■ ■ ■ ■ ■

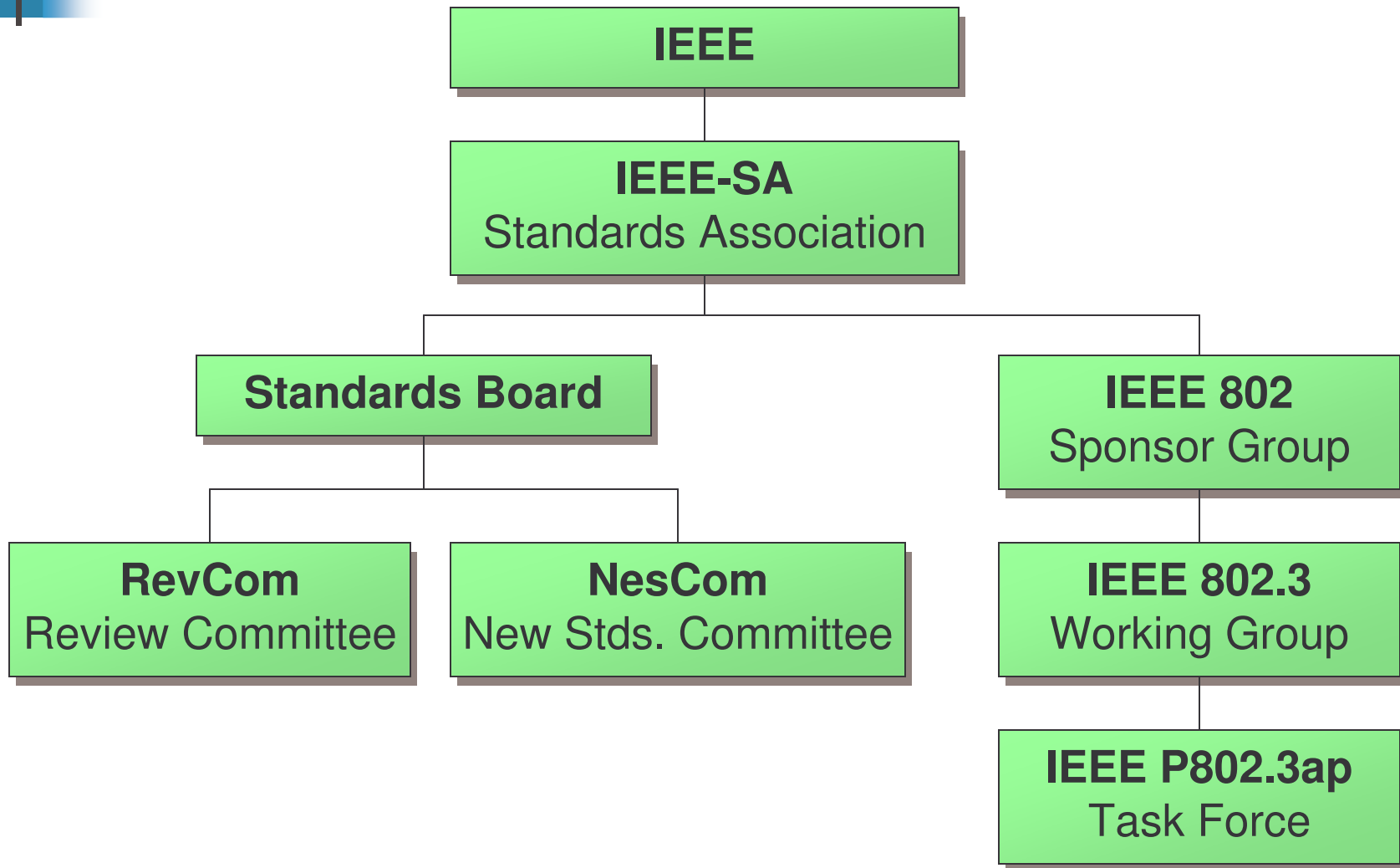
- The username and password are case-sensitive. Write them down...



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 and prior to approval of the standard (or reaffirmation when a patent or patent application becomes known after initial approval of the standard). This assurance shall be a letter that is in the form of 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 shall apply, at a minimum, from the date of the standard's approval to the date of the standard's withdrawal and is irrevocable during that period.

Approved by IEEE-SA Standards Board – March 2003 (Revised March 2005)



Inappropriate Topics for IEEE WG Meetings

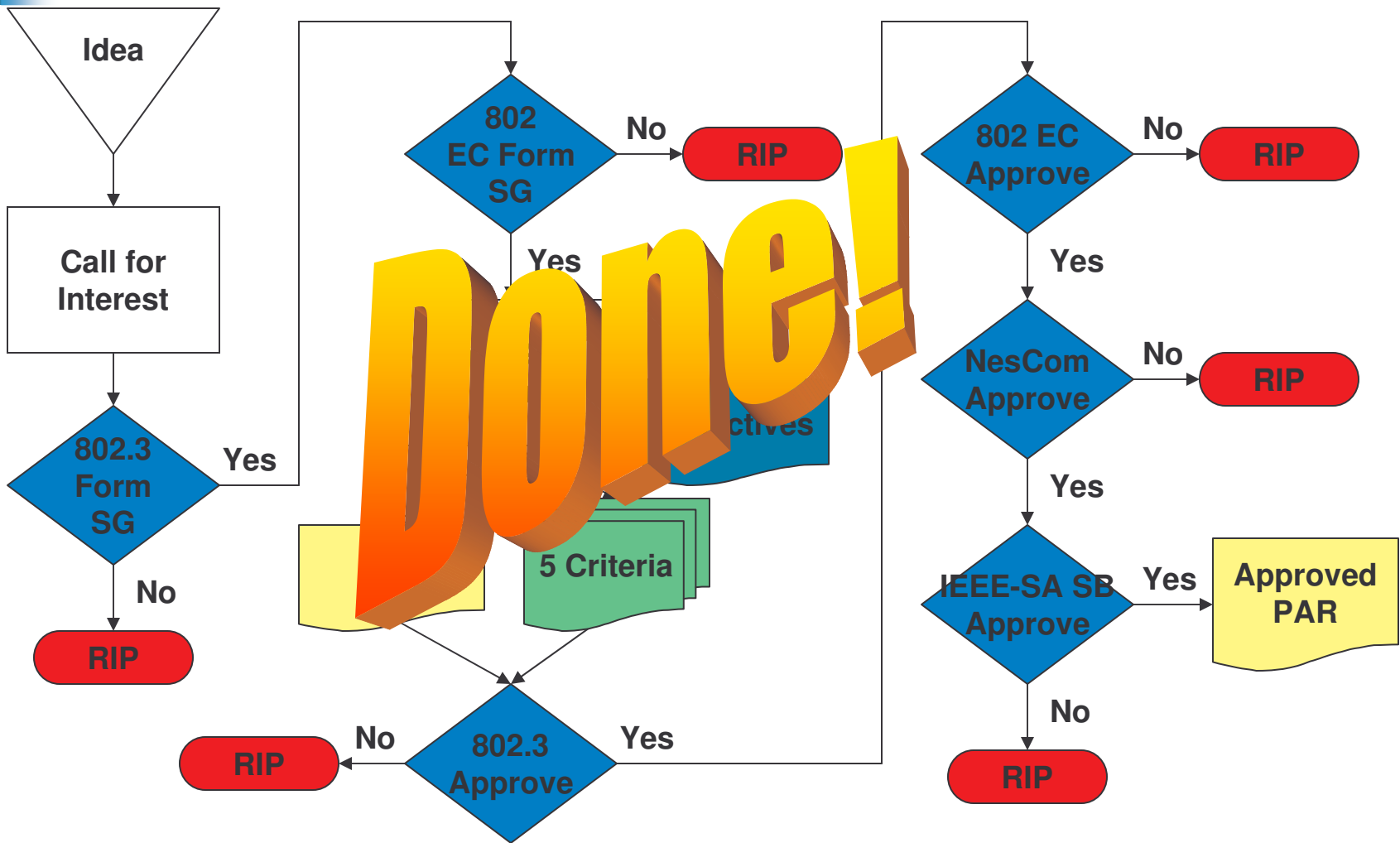
- Don't discuss the validity/essentiality of patents/patent claims
- Don't discuss the cost of specific patent use
- Don't discuss licensing terms or conditions
- Don't discuss product pricing, territorial restrictions, or market share
- Don't discuss ongoing litigation or threatened litigation
- Don't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

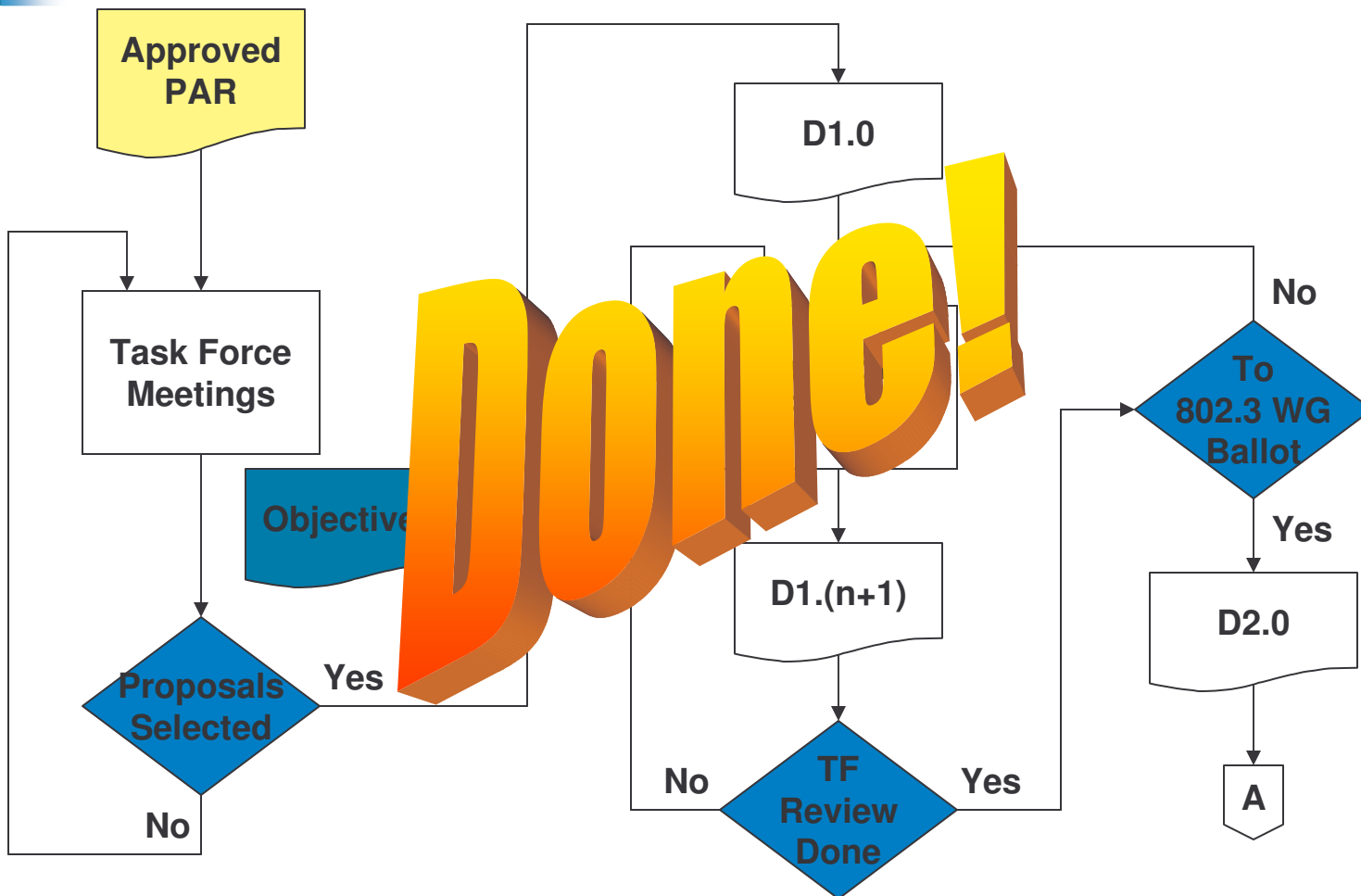
This slide set is available at <http://standards.ieee.org/board/pat/pat-slideset.ppt>

Approved by IEEE-SA Standards Board – March 2003 (Revised March 2005)

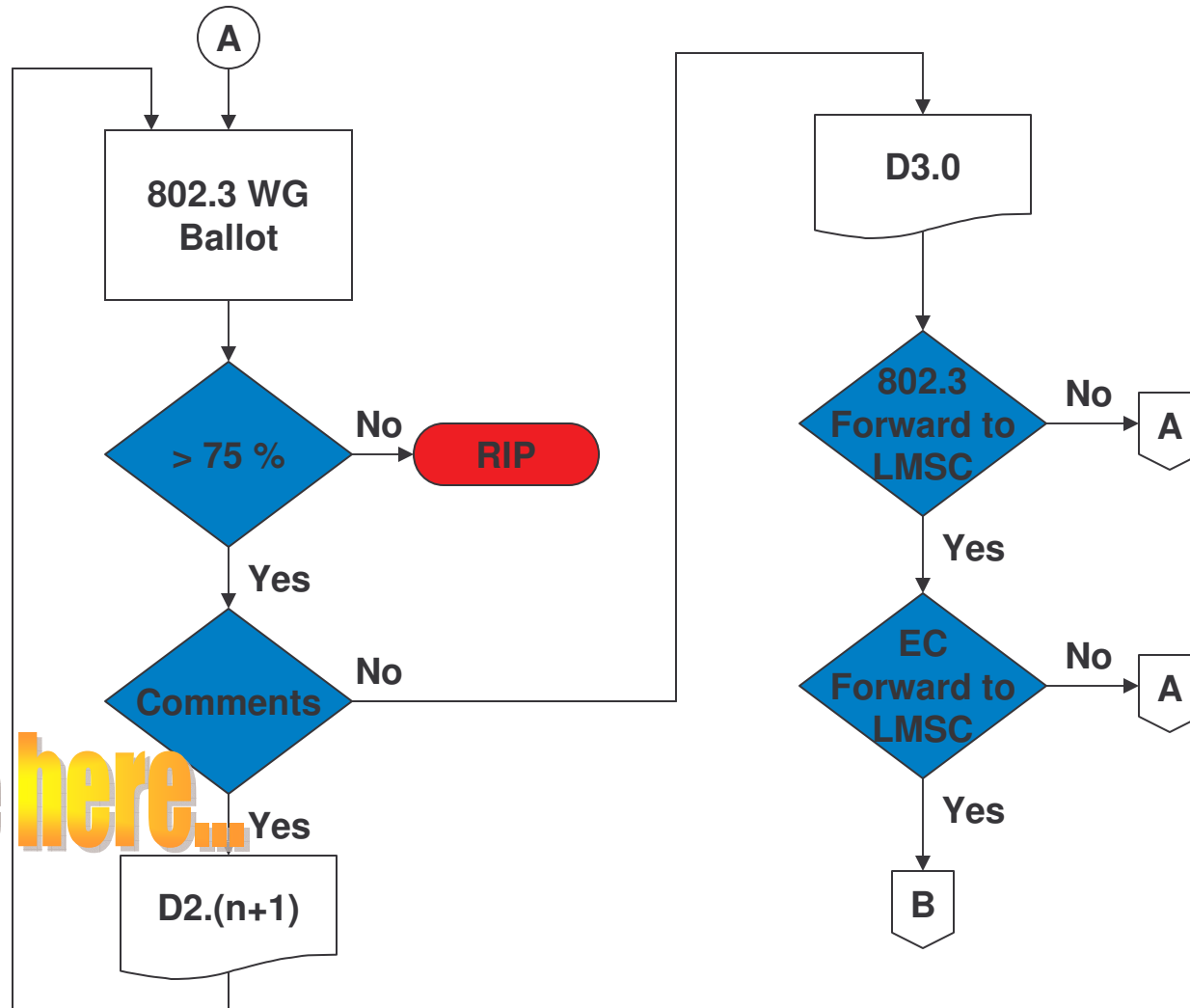
IEEE Standards Process



IEEE Standards Process (cont.)

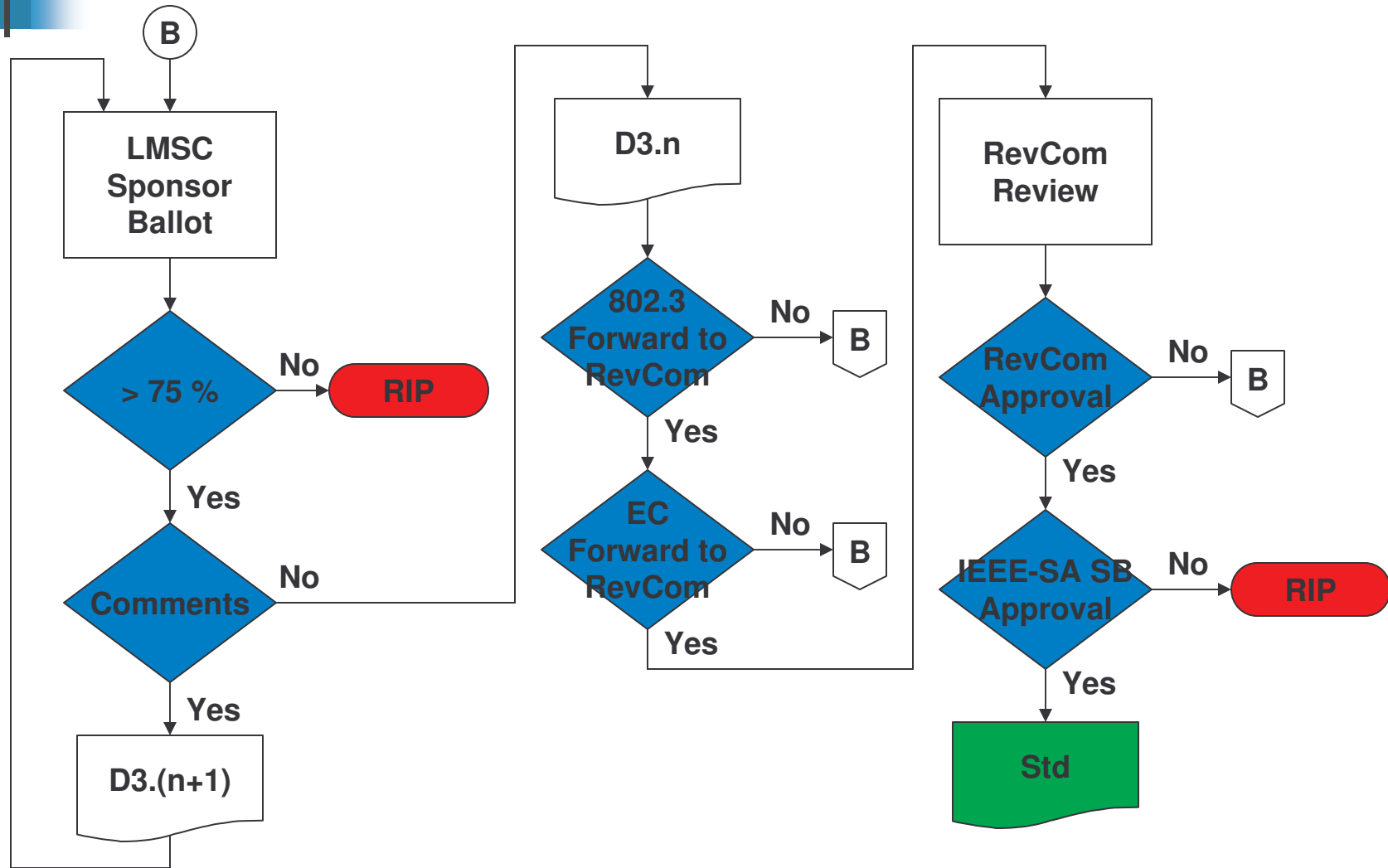


IEEE Standards Process (cont.)



You are here...

IEEE Standards Process (cont.)





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

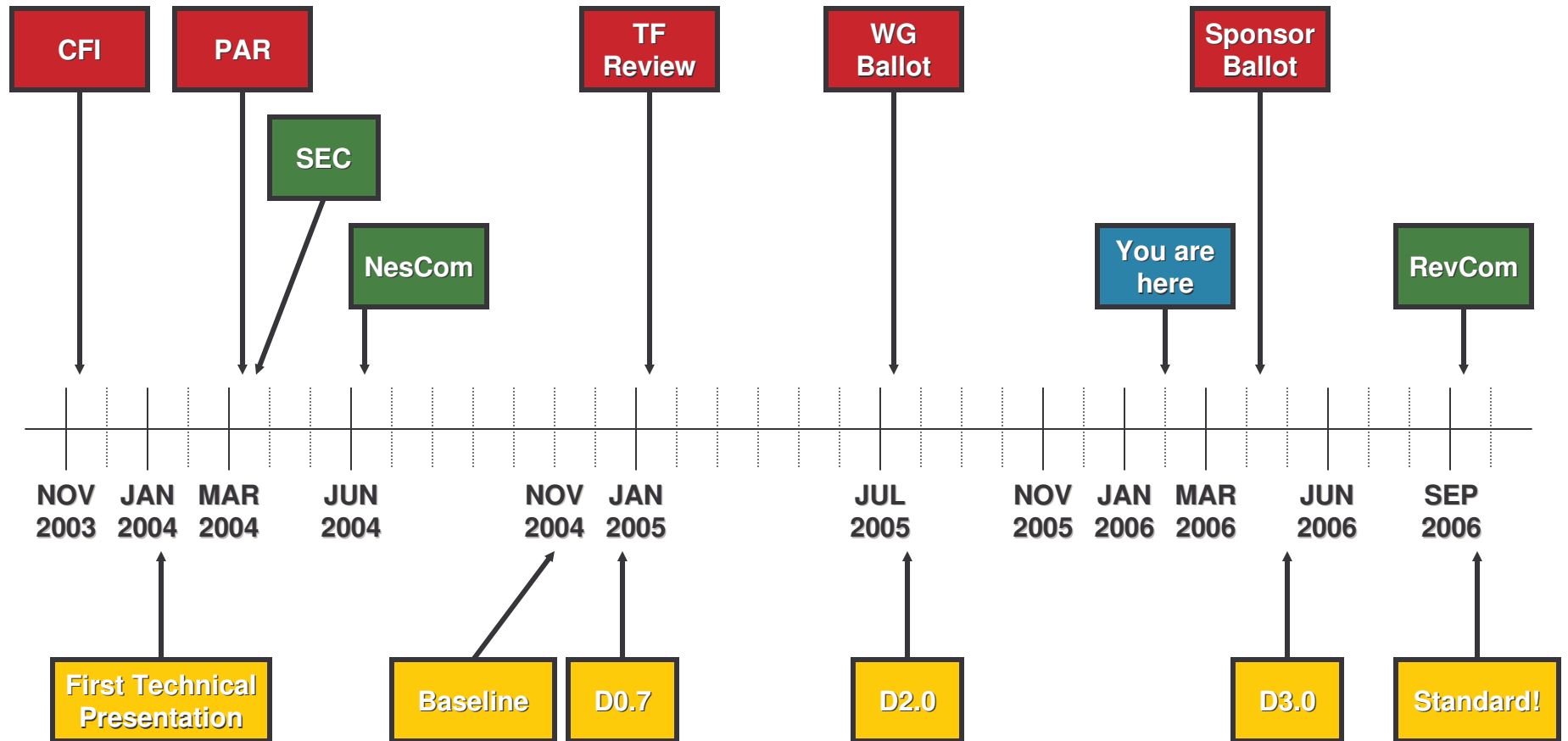
http://ieee802.org/3/ap/802_3_ap_objectives.pdf



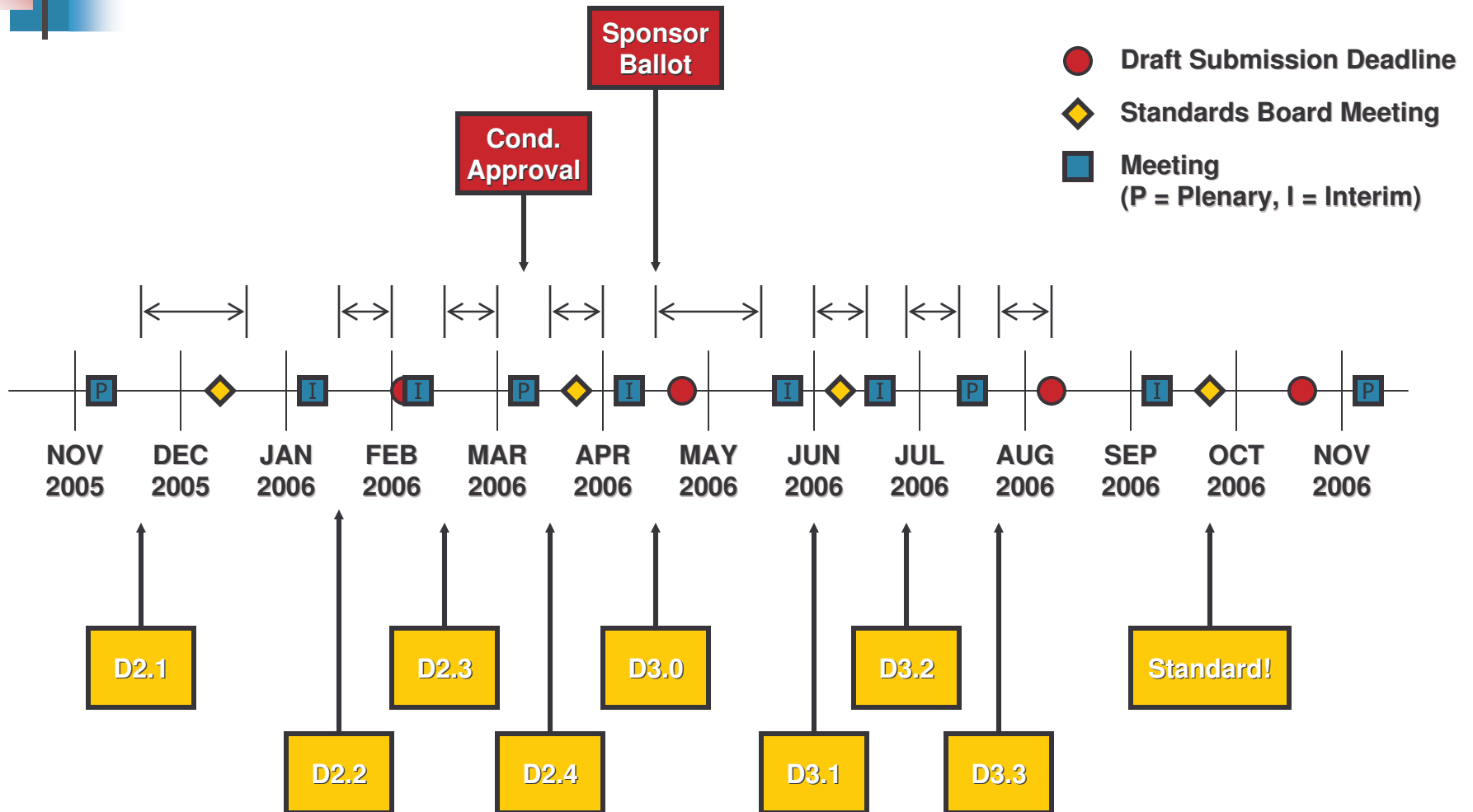
IEEE P802.3ap Objectives

- **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



Timeline Detail





Presentations (in no particular order)

- Abler, “EIT Simulation Results”
- Anderson, “Transmitter DCD Limits”
- D’Ambrosia, “EIT Test Channel Return Loss”
- Moore, “Channel Model Ad Hoc Report”
- Moore, “Parameters for a lower loss channel”
- Moore, “EIT values”