



IEEE P802.3ap

Backplane Ethernet Task Force

Agenda and General Information

Knoxville, TN
September 18, 2006



Agenda

- Welcome and introductions
- Appoint recording secretary
- Approve agenda
- Approve meeting minutes
 - http://ieee802.org/3/ap/public/jul06/minutes_01_0706_unapproved.pdf
- Approve informal communication to PICMG
- Goals for this meeting
- Task force organization
- Reflector and web
- Ground Rules
- IEEE
 - Bylaws and rules
 - Patent policy
- Review Task Force Status
- Comment Resolution
- Closing Business
- Future Meetings



Call for Recording Secretary

- From the IEEE 802.3 Working Group operating rules, 3.4.3, item c):

The meetings minutes are to include:

- 1) list of participants*
- 2) next meeting schedule*
- 3) agenda as revised at the start of the meeting*
- 4) voting record:*
 - i) resolution*
 - ii) mover and seconder*
 - iii) numeric results*

Sufficient detail shall be presented in the meeting minutes to allow a person knowledgeable of the activity, but not present at the discussion, to understand what was agreed to and why.



Goals for this Meeting

- Respond to comments against IEEE P802.3ap/D3.0 initial sponsor ballot
- Generate Draft 3.1 and initiate first sponsor ballot recirculation



Task Force Organization

- Task Force Chair

- Adam Healey, Agere Systems (ahealey@agere.com)

- Chief Editor

- Ilango Ganga, Intel (ilango.ganga@intel.com)

- Editorial Team:

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



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: XXXXXX
- Password: XXXXXX

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

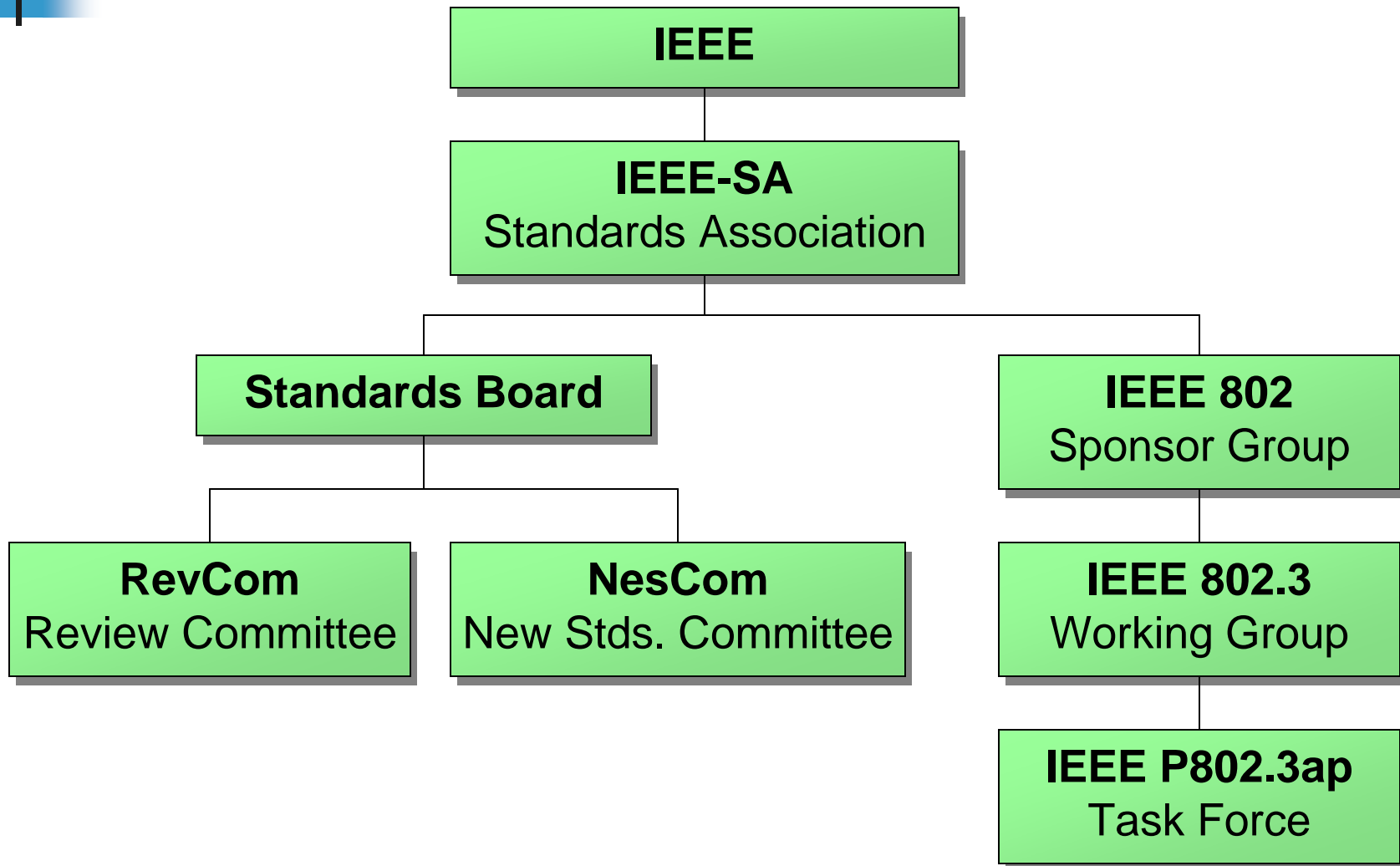


Ground Rules

- 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





Bylaws and Rules

- 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



Instructions for the WG Chair

- At Each Meeting, the Working Group Chair shall:
- Show slides #1 and #2 of this presentation [to follow]
- Advise the WG membership that:
 - The IEEE's patent policy is consistent with the ANSI patent policy and is described in Clause 6 of the IEEE-SA Standards Board Bylaws;
 - Early disclosure of patents which may be essential for the use of standards under development is encouraged;
 - Disclosures made of such patents may not be exhaustive of all patents that may be essential for the use of standards under development, and that neither the IEEE, the WG, nor the WG Chairman ensure the accuracy or completeness of any disclosure or whether any disclosure is of a patent that, in fact, may be essential for the use of standards under development.
- Instruct the WG Secretary to record in the minutes of the relevant WG meeting:
 - That the foregoing advice was provided and the two slides were shown;
 - That an opportunity was provided for WG members to identify or disclose patents that the WG member believes may be essential for the use of that standard;
 - Any responses that were given, specifically the patents and patent applications that were identified (if any) and by whom.



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

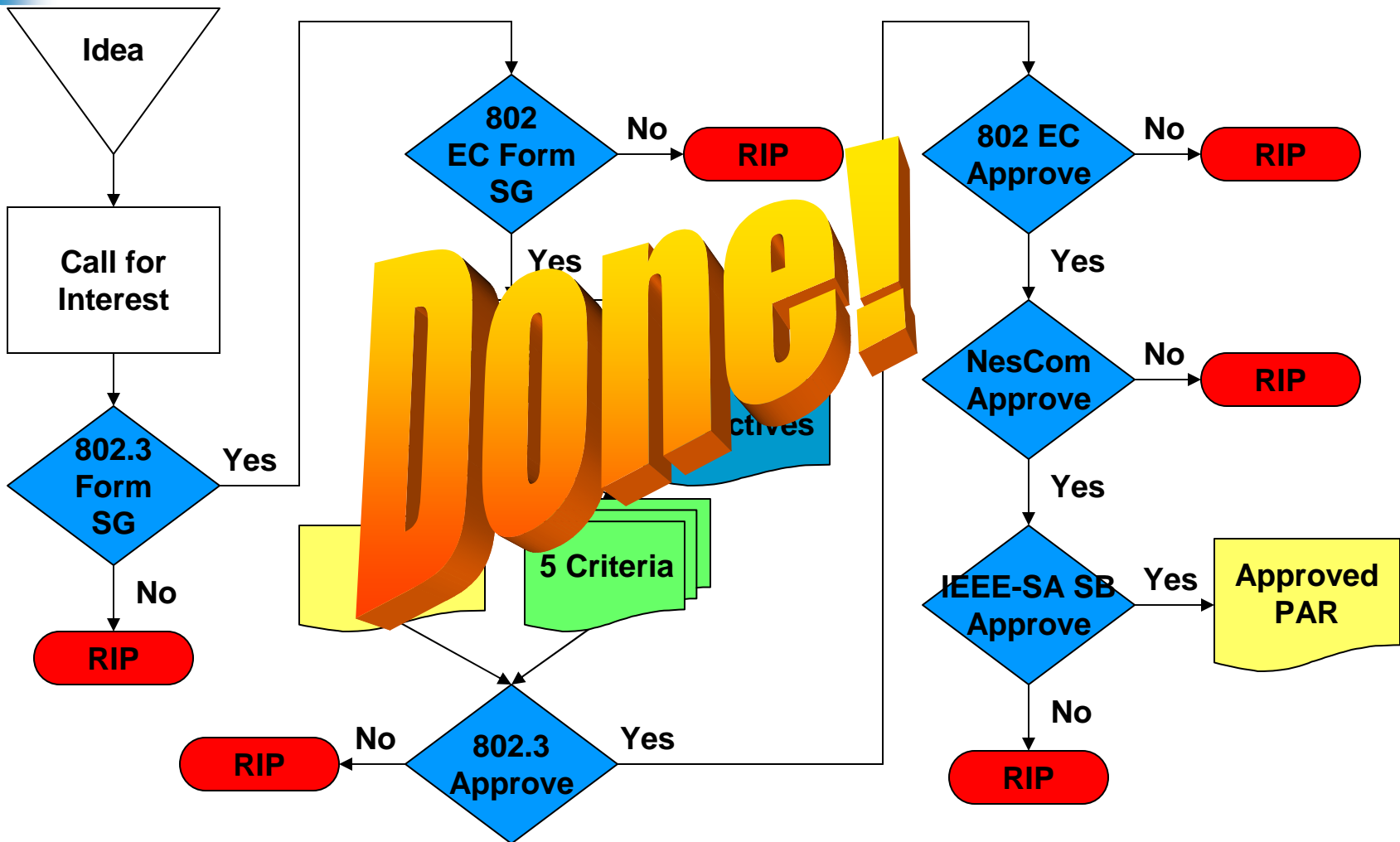
- Don't discuss the validity/essentiality of patents/patent claims
- Don't discuss the cost of specific patent use
- Don't discuss licensing terms or conditions
- Don't discuss product pricing, territorial restrictions, or market share
- Don't discuss ongoing litigation or threatened litigation
- Don't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

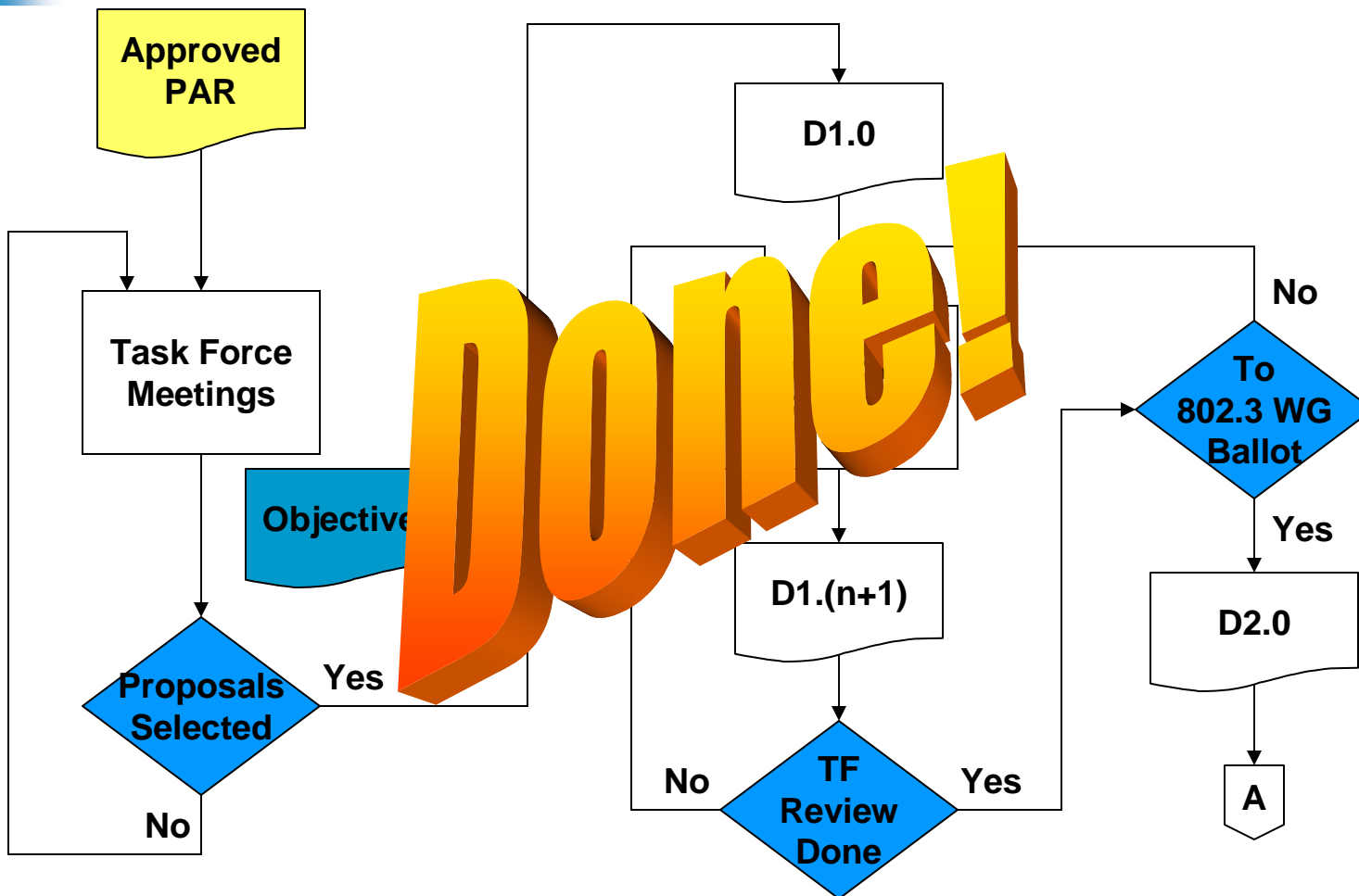
This slide set is available at <http://standards.ieee.org/board/pat/pat-slideset.ppt>

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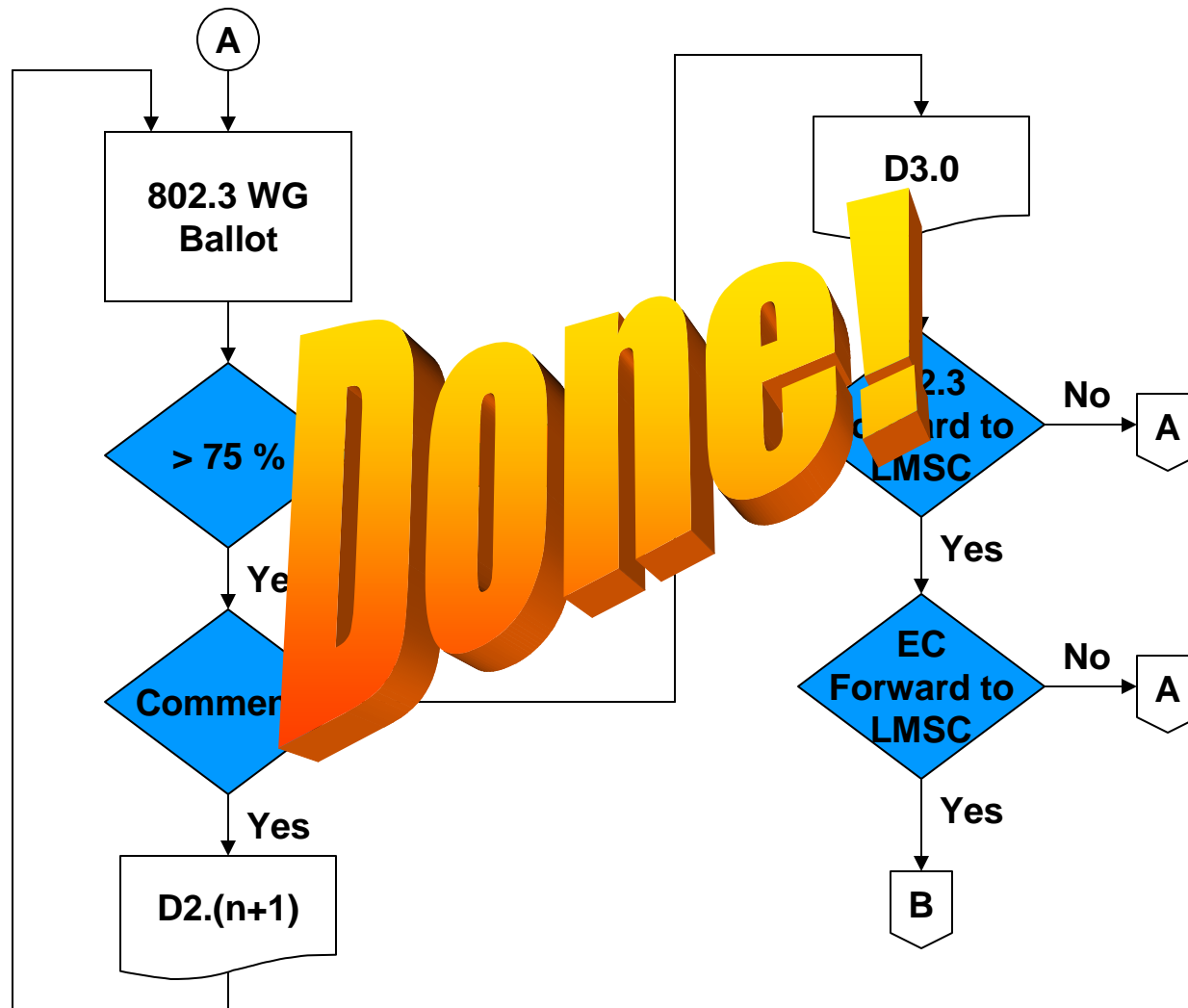
IEEE Standards Process



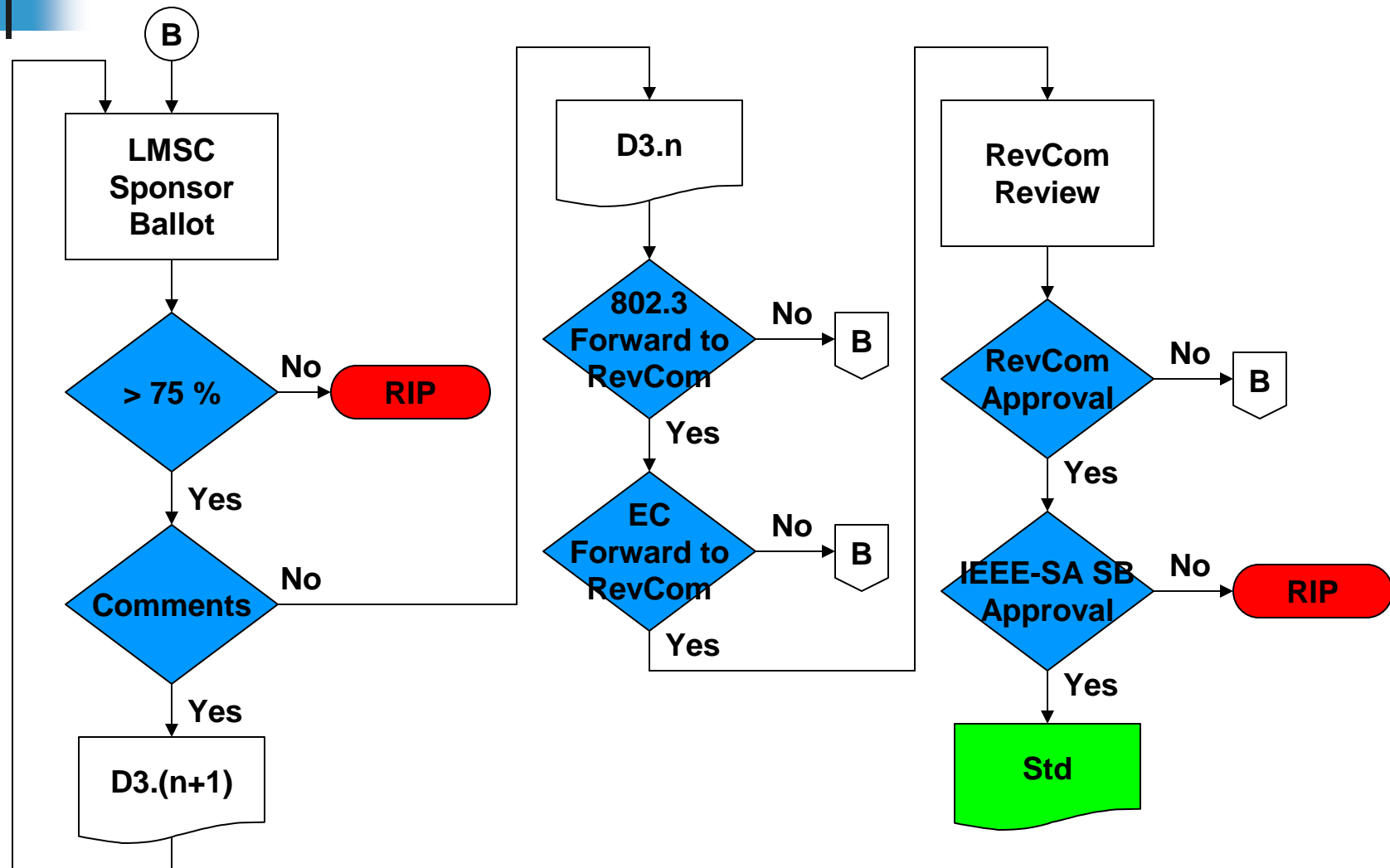
IEEE Standards Process (cont.)



IEEE Standards Process (cont.)



IEEE Standards Process (cont.)





IEEE P802.3ap Task Force Documents

- Approved PAR

<http://standards.ieee.org/board/nas/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.**



Draft 3.0 Initial Sponsor Ballot Results

Voters	124
Approve	71
Disapprove	16
Disapprove w/o Comment	1
Abstain	7
Returns	95
Response Rate ($\geq 75\%$)	77%
Approval Rate ($\geq 75\%$)	82%
Abstention Rate ($< 30\%$)	7%
Comments	263*

* 127 comments are T or TR

Project Timeline Detail

- Draft Submission Deadline
- ◆ Standards Board Meeting
- Meeting (P = Plenary, I = Interim)

