P802.3ar Congestion Management Task Force

Agenda

Kevin Daines

World Wide Packets

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Agenda

- **Welcome and introductions**
- **Appoint recording secretary**
- **Approve minutes**
- **Reflector and web**
- **Ground rules**
- **IEEE**
  - **Structure**
  - **Bylaws and rules**
  - **Call for patents**
  - **IEEE 802.3 standards process**
- **Liaison letters**
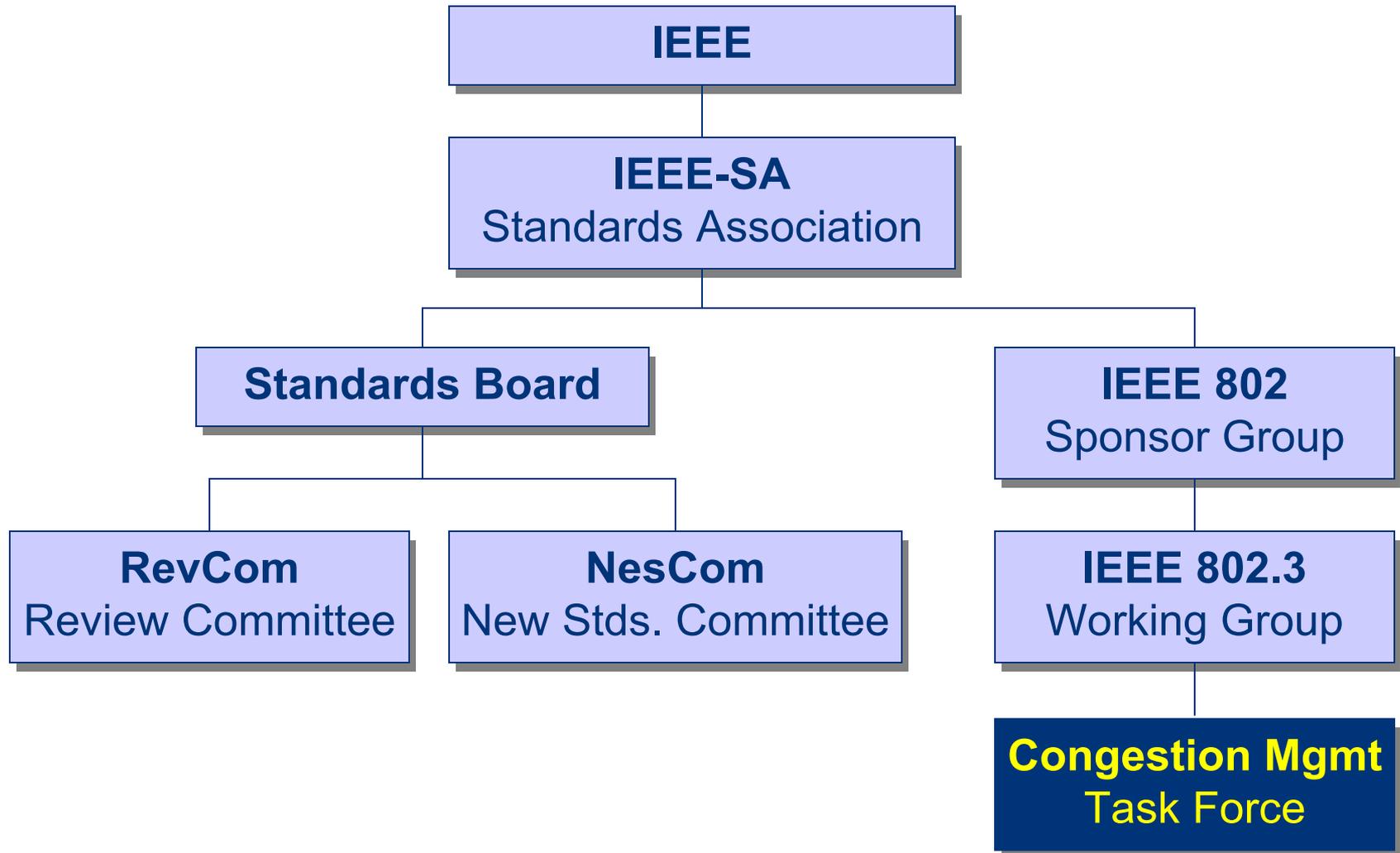- **Presentations/discussion**
- **Motions**
- **Future meetings**

Reflector and web

- **To subscribe to the Congestion Management TF reflector send an email to:**
  listserv@ieee.org

- **with the following in the body of the message:**
  subscribe stds-802-3-cm <first name> <last name>

- **Congestion Management TF web page URL:**
  http://www.ieee802.org/3/ar/

Ground rules

- **IEEE 802.3 WG Operating Rules apply**
    - **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

IEEE

IEEE-SA
Standards Association

Standards Board

IEEE 802
Sponsor Group

RevCom
Review Committee

NesCom
New Stds. Committee

IEEE 802.3
Working Group

Congestion Mgmt
Task Force

Bylaws and rules

- **Bylaws of the IEEE Standards Association (IEEE-SA):**
  http://standards.ieee.org/sa/sa-bylaws.pdf

- **Bylaws of the IEEE-SA Standards Board:**
  http://standards.ieee.org/guides/bylaws/sb-bylaws.pdf

- **IEEE LAN/MAN Standards Committee (LMSC) Operating Rules:**
  http://www.ieee802.org/policies-and-procedures.pdf

- **IEEE 802.3 Working Group Operating Rules:**
  http://www.ieee802.org/3/rules/

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 December 2004*)**

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**

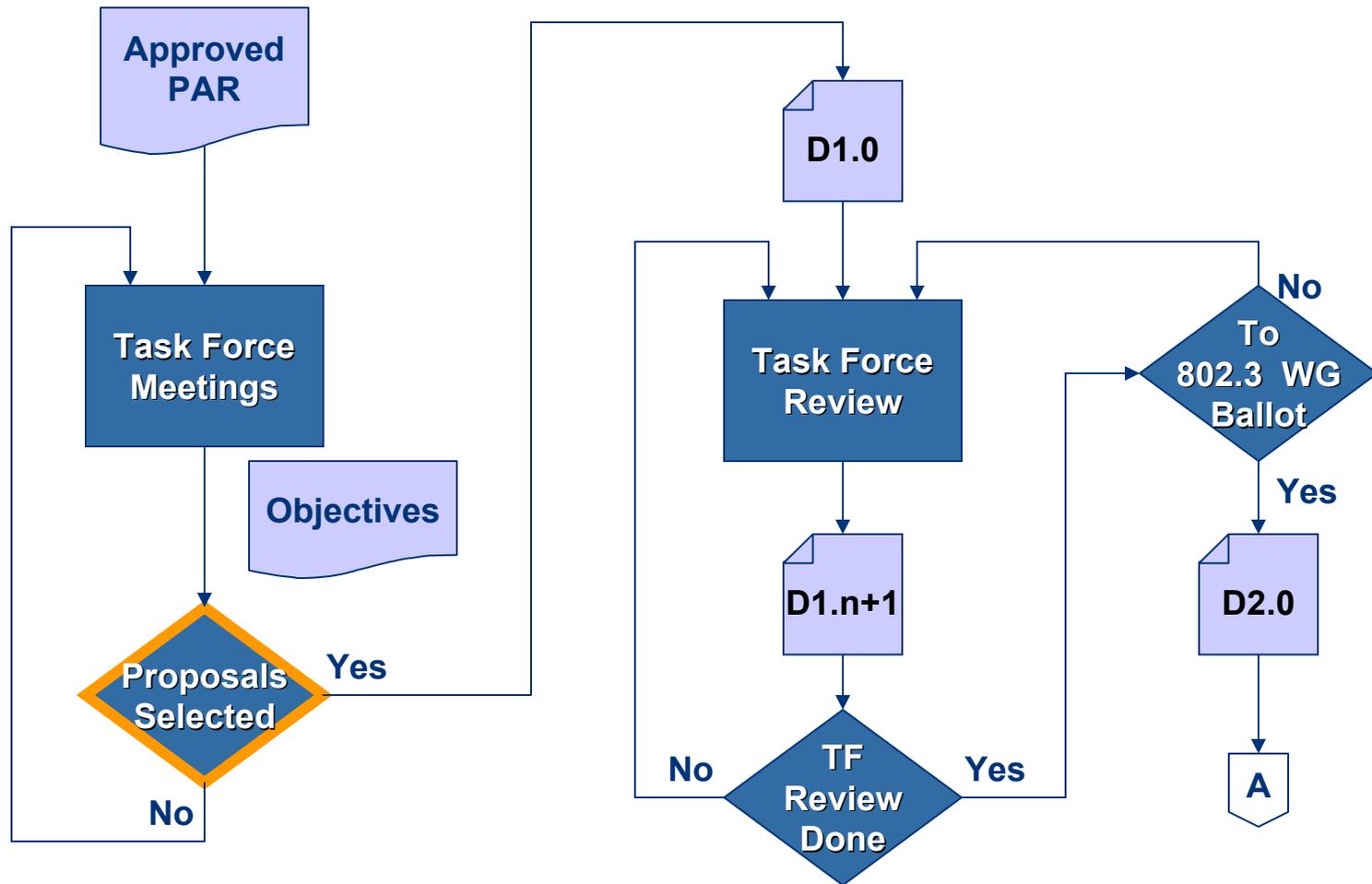**Approved by IEEE-SA Standards Board – March 2003 (*Revised March 2005*)**

IEEE 802.3 standards process
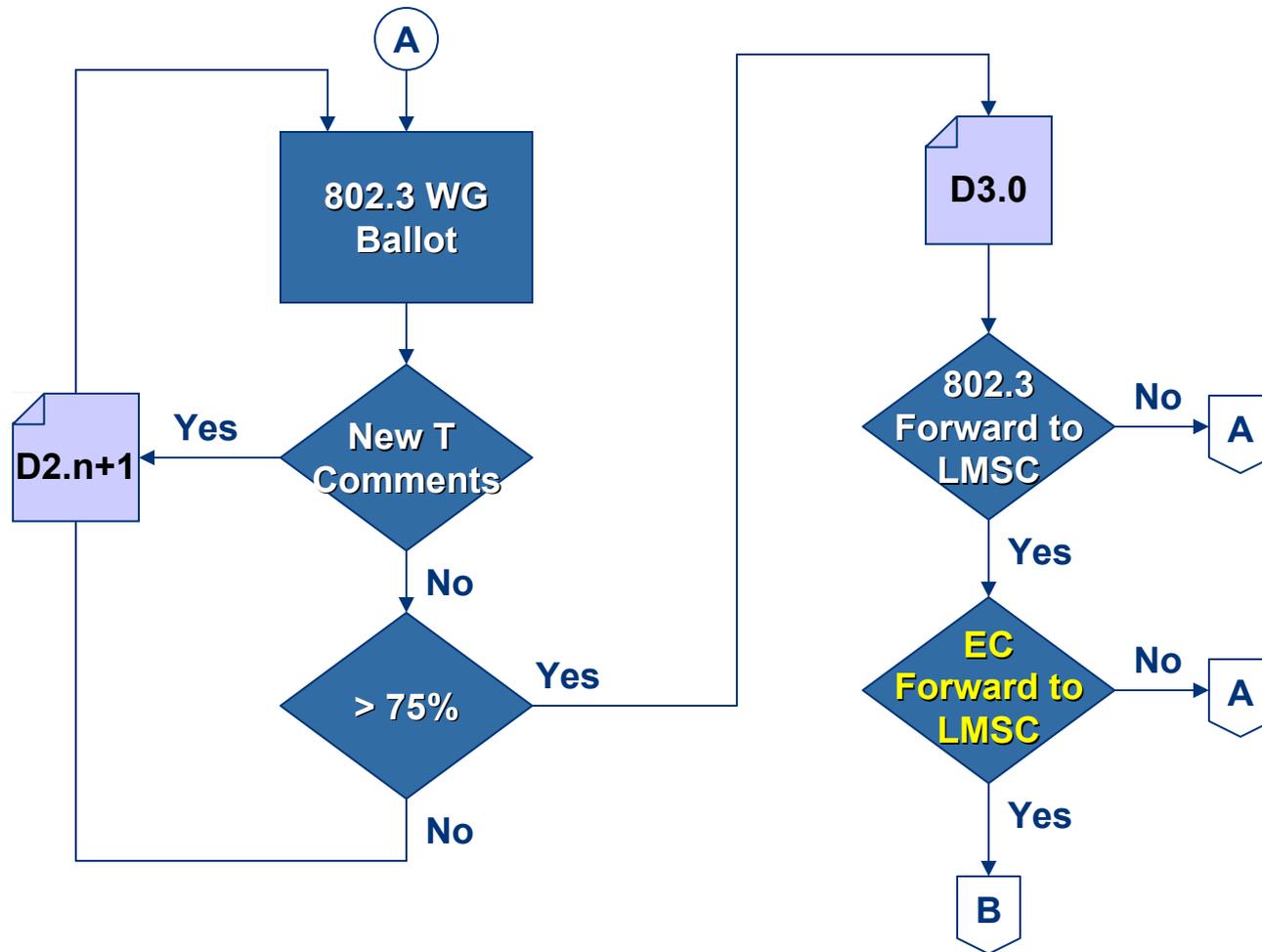## Study Group formation
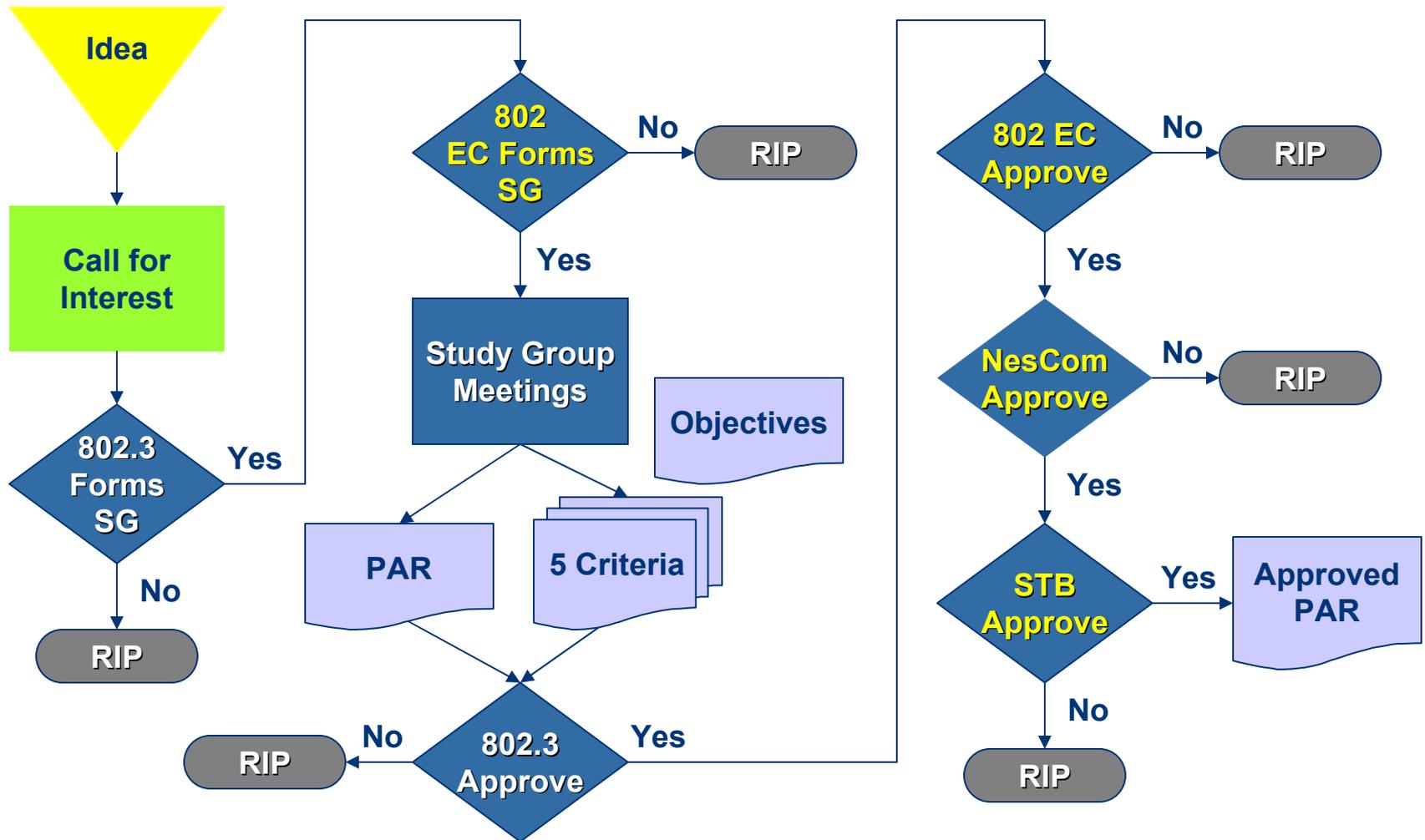
IEEE 802.3 standards process
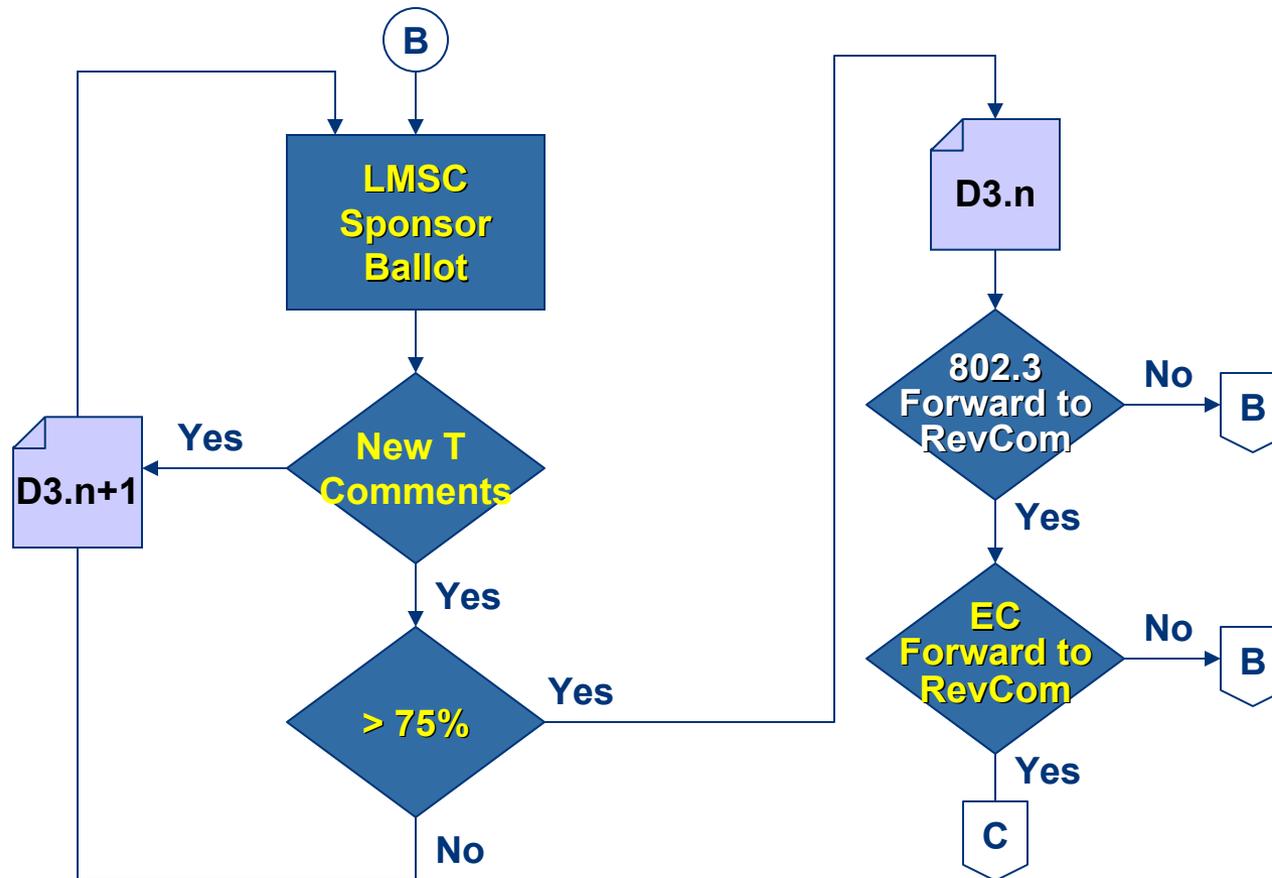## Task Force review

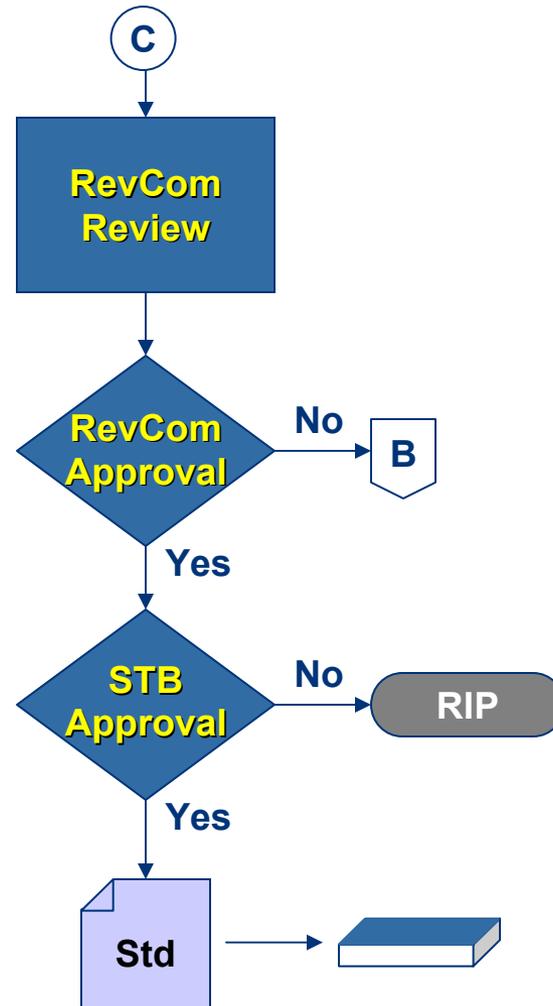# IEEE 802.3 standards process
Working Group ballot

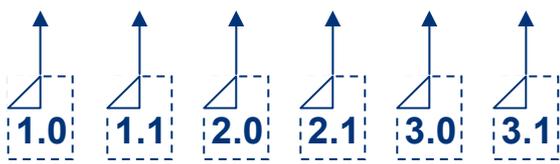# IEEE 802.3 standards process
Sponsor Ballot

IEEE 802.3 standards process
Standard approval

Current timeline

Study Group formed

PAR approved

Created Task Force

TF ballot

WG ballot

Sponsor ballot

Standard!

We are here

04   05   06   07

M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M

1.0 1.1 2.0 2.1 3.0 3.1
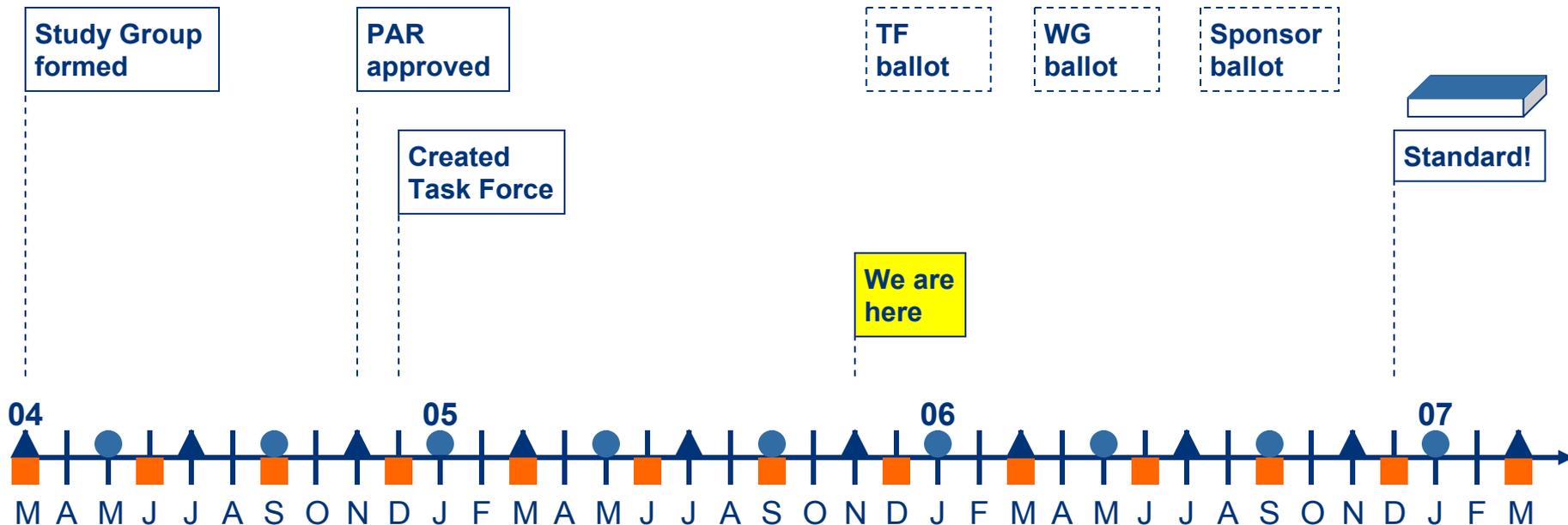
Adopted baseline proposal

Legend
▲ IEEE 802 Plenary
● IEEE 802.3 Interim
■ IEEE-SA Standards Board

Objectives

1) Specify a mechanism to limit the rate of transmitted data on an Ethernet link

2) Specify a mechanism to support the communication of congestion information

3) Minimize throughput reduction in non-congested flows

4) Preserve the MAC/PLS service interfaces

Approved by IEEE 802.3 WG on 18-Nov-2004

TF priorities for November

- **Presentations:**
  - **Kevin Daines – CMTF D0.9 proposal**
  - **Shreyas Shaw – Enhanced flow control in Ethernet networks**

- **Create 802.3ar/D1.0 and conduct 30-day TF ballot prior to January 2006 interim**

Presentations/discussion

Presenter	Topic	Filename
K. Daines	CMTF proposal D0.9	cmtf_proposal_d0_9.pdf
S. Shaw	*Enhanced flow control in Ethernet networks*	shaw_1_0511.pdf

Meeting room/days

Day	Time	Room	Activity
Tue 11/15	0830-1200	Gabriola (Fairmont)	Opening, presentations
	1330-1200	*Gabriola (Fairmont)*	*If necessary*

July 802.3ar: Motion #1

- **Adopt changes to Clause 4, Annex 4A & Clause 30 described in barrass_1_0505.pdf as a baseline proposal for 802.3ar/D1.0. The changes to Clause 4 will be made after the changes to Annex 4A have been solidified in 802.3ar TF review.**

- *M: P. Thaler   S: M. Squire*
- *Y: 16 N: 1 A: 9 (31 room count)*
- *$\geq$ 75%*
- *Passes*
- *802.3: Y: 14 N: 1 A: 2*
- *Passes*

November 802.3ar: Motion #2

- **Create 802.3ar/D1.0 based on Kevin Daines' D0.9 proposal with comments and edits from the November 2005 meeting and conduct 30-day TF ballot prior to the January 2006 interim**

- *M: M. Wadekar   S: S. Barrick*
- *Y: 17 N: 4 A: 5*
- *$\geq$ 75%*
- *Motion passes*

November 802.3ar: Motion #3

- **Propose to remove the frame rate control mechanism and associated attributes**

- *M: P. Agarwal S: T. Dineen*
- *Y: 4 N: 10 A: 11*
- *$\geq$ 75%*
- *Motion fails*

Related discussions in 802.1

- *What: Congestion Management topic*
- *When: Thursday 9a-11a*
- *Where: Saturna room*

Future meetings

- **IEEE 802.3 Interim**
  - *January 2006, TBD*

- **IEEE 802 Plenary meeting**
  - **March 5-10, 2006, Denver, Colorado**

- **IEEE 802.3 Interim**
  - *May 2006, TBD*

- **IEEE 802 Plenary meeting**
  - **July 16-21, 2006, San Diego, California**