

# **P802.3ar Congestion Management Task Force**

## ***Agenda***

**Kevin Daines**

**World Wide Packets**

**San Francisco, California**

# *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 -none**
- **Presentations/discussion**
- **Motions**
- **Future meetings**

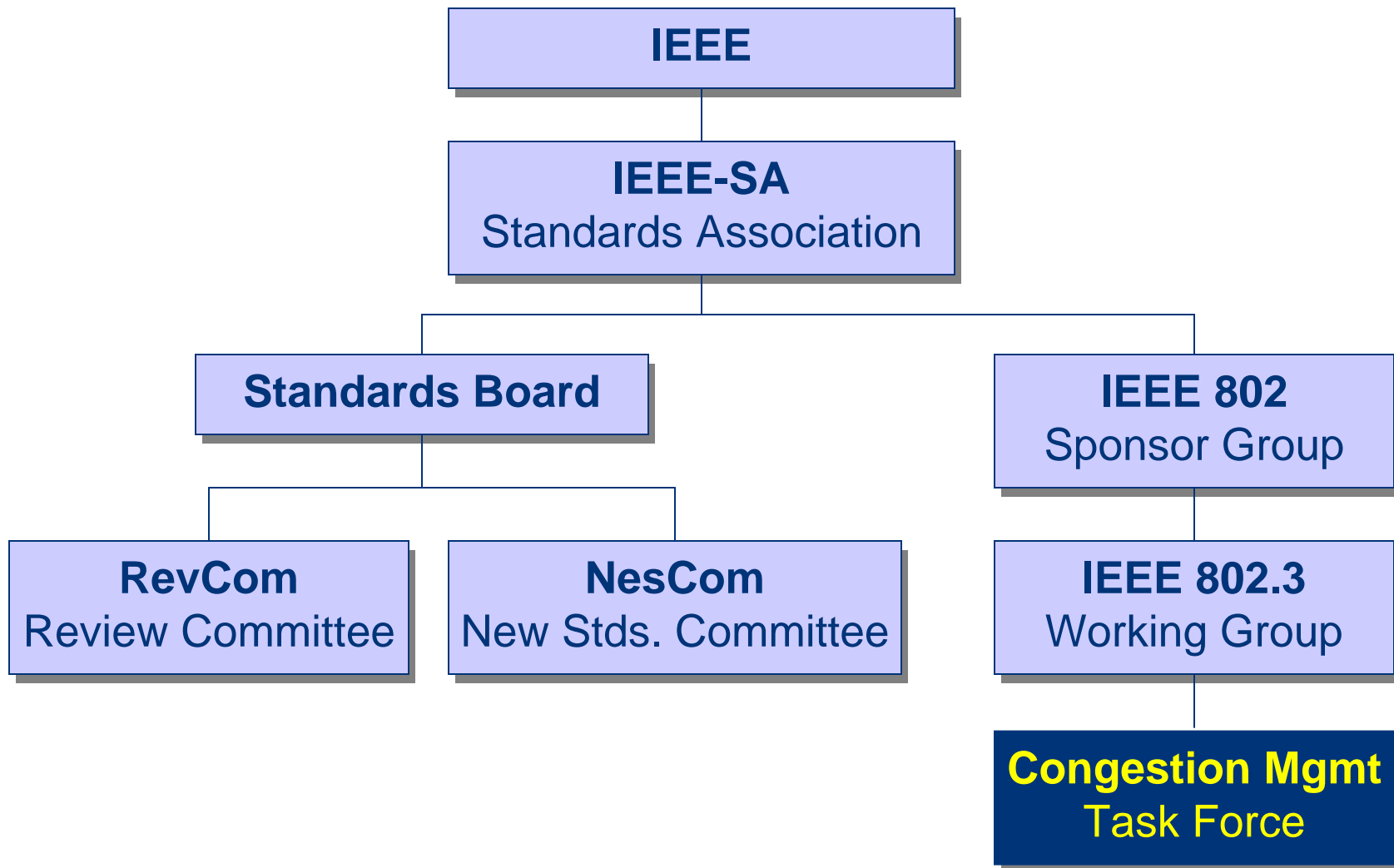
# *Reflector and web*

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



# ***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/rules.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)**

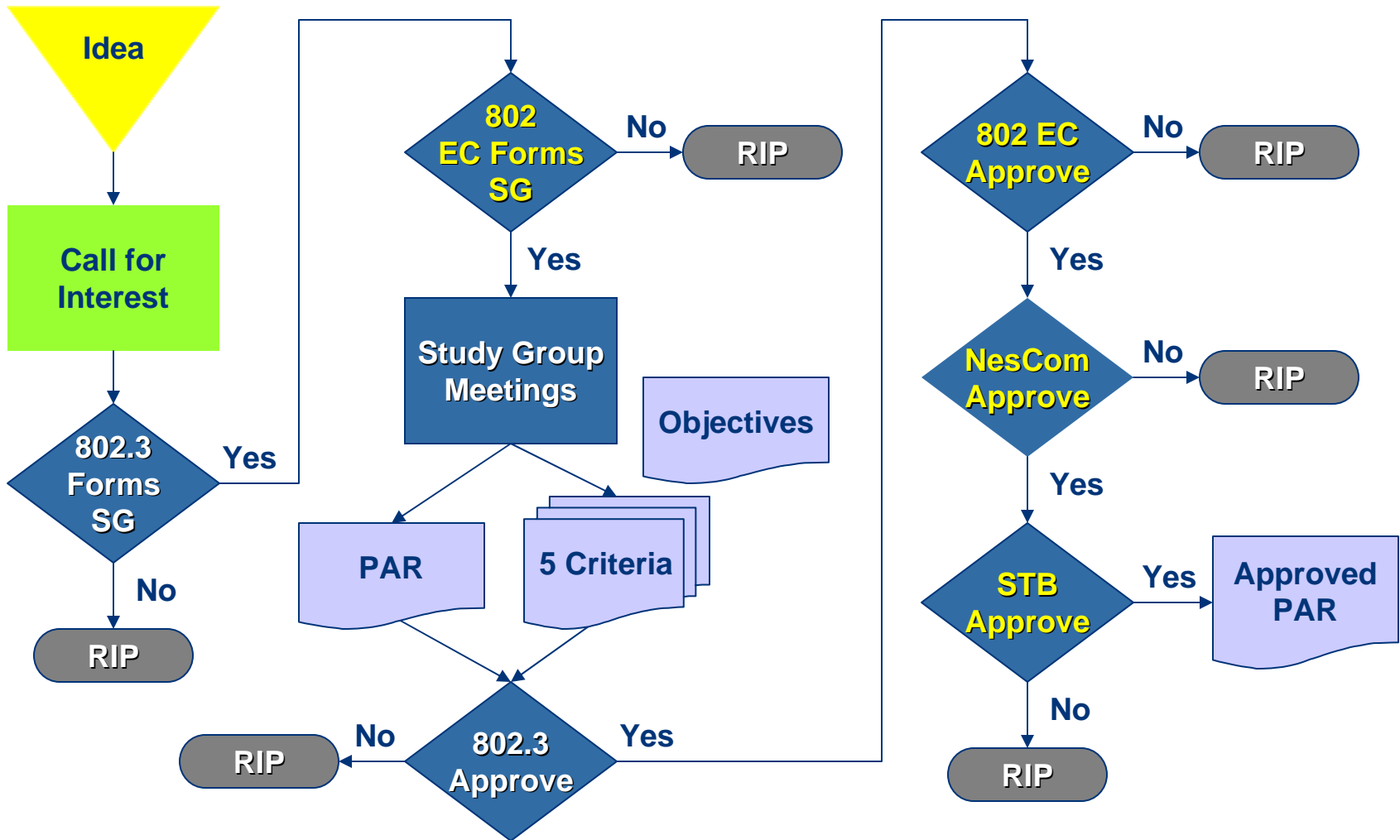
# *Inappropriate Topics for IEEE WG Meetings*

- Don't discuss 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](mailto: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>

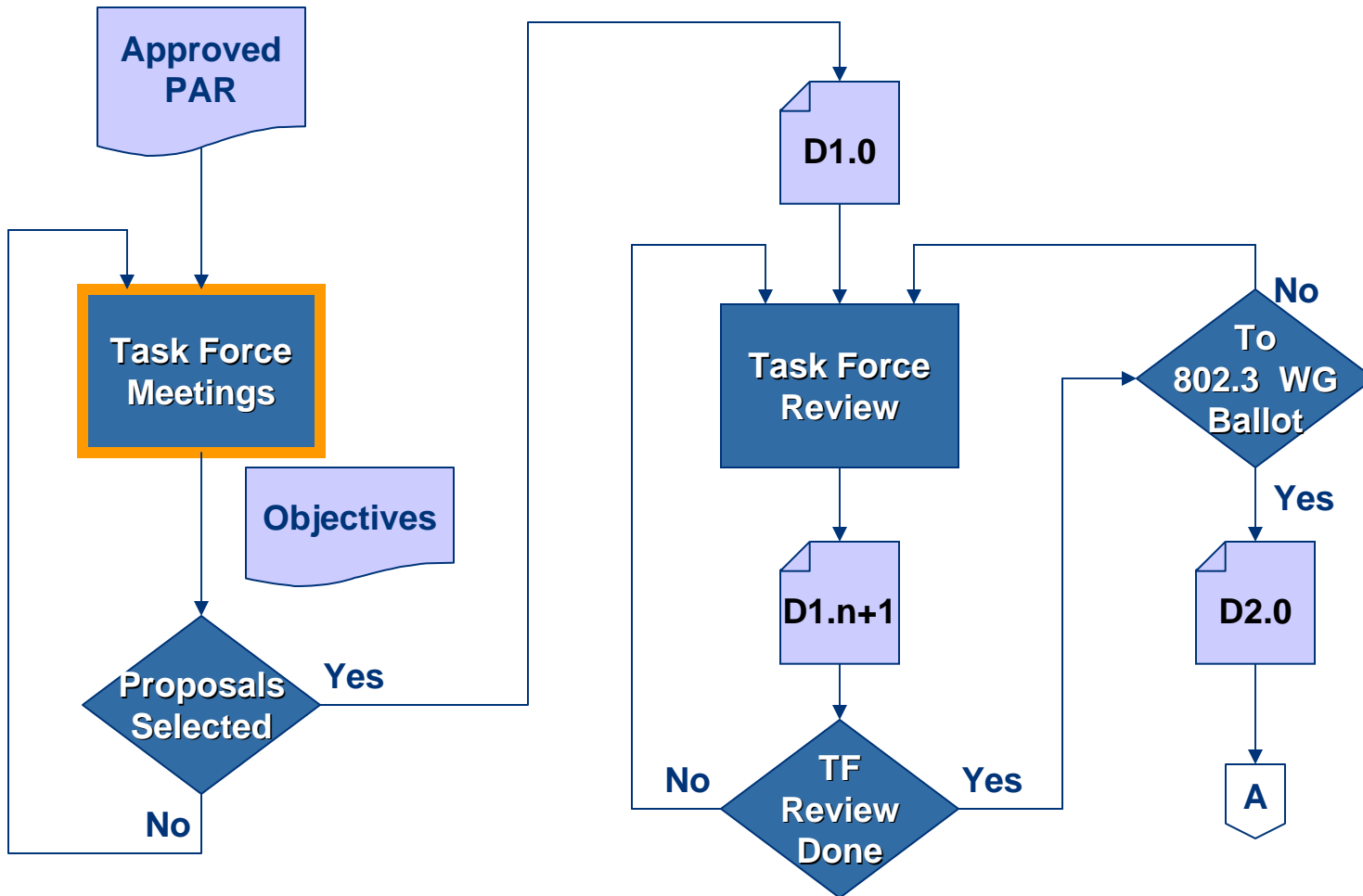
Approved by IEEE-SA Standards Board – March 2003 (Revised December 2004)



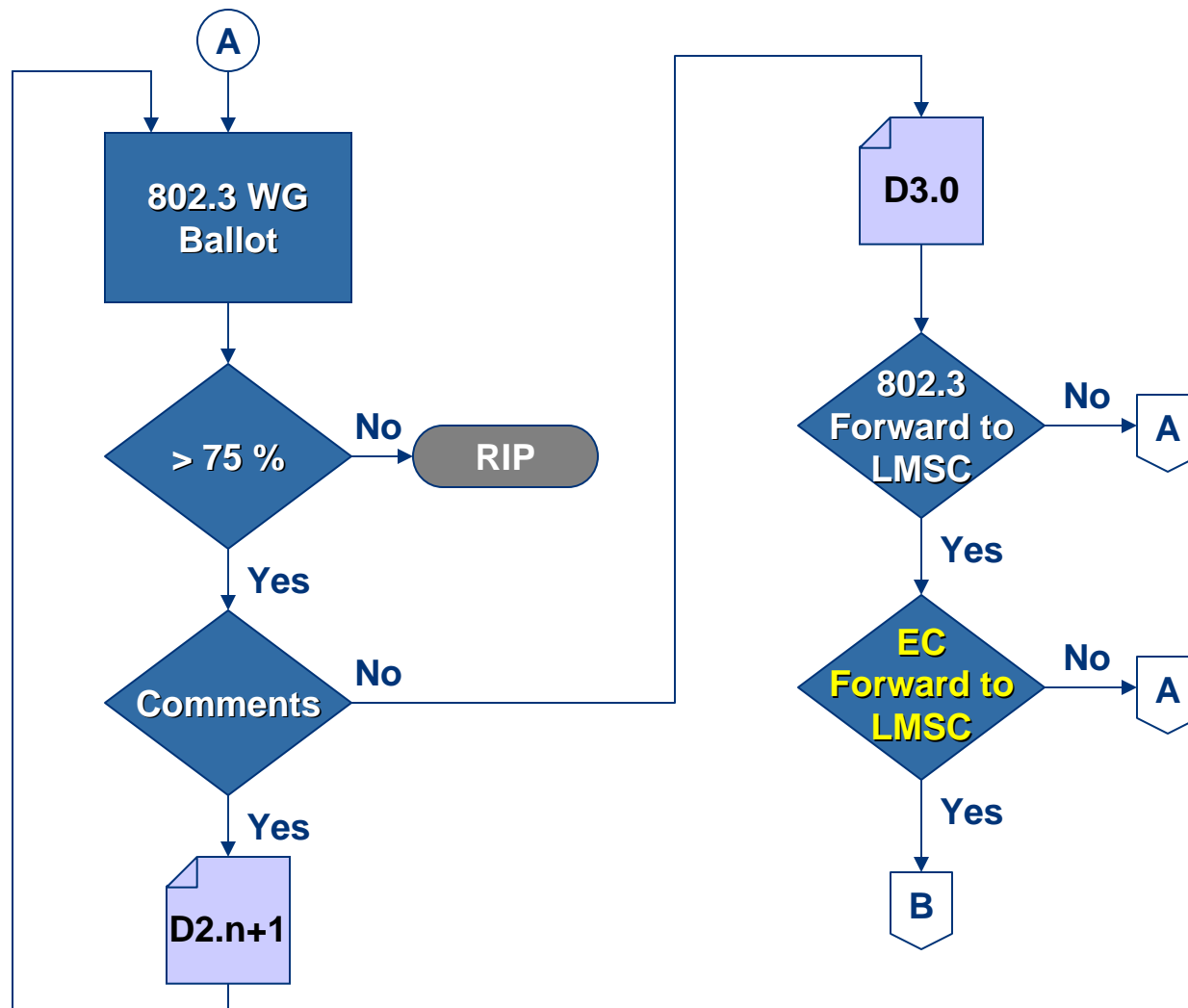
# IEEE 802.3 standards process (1/4)



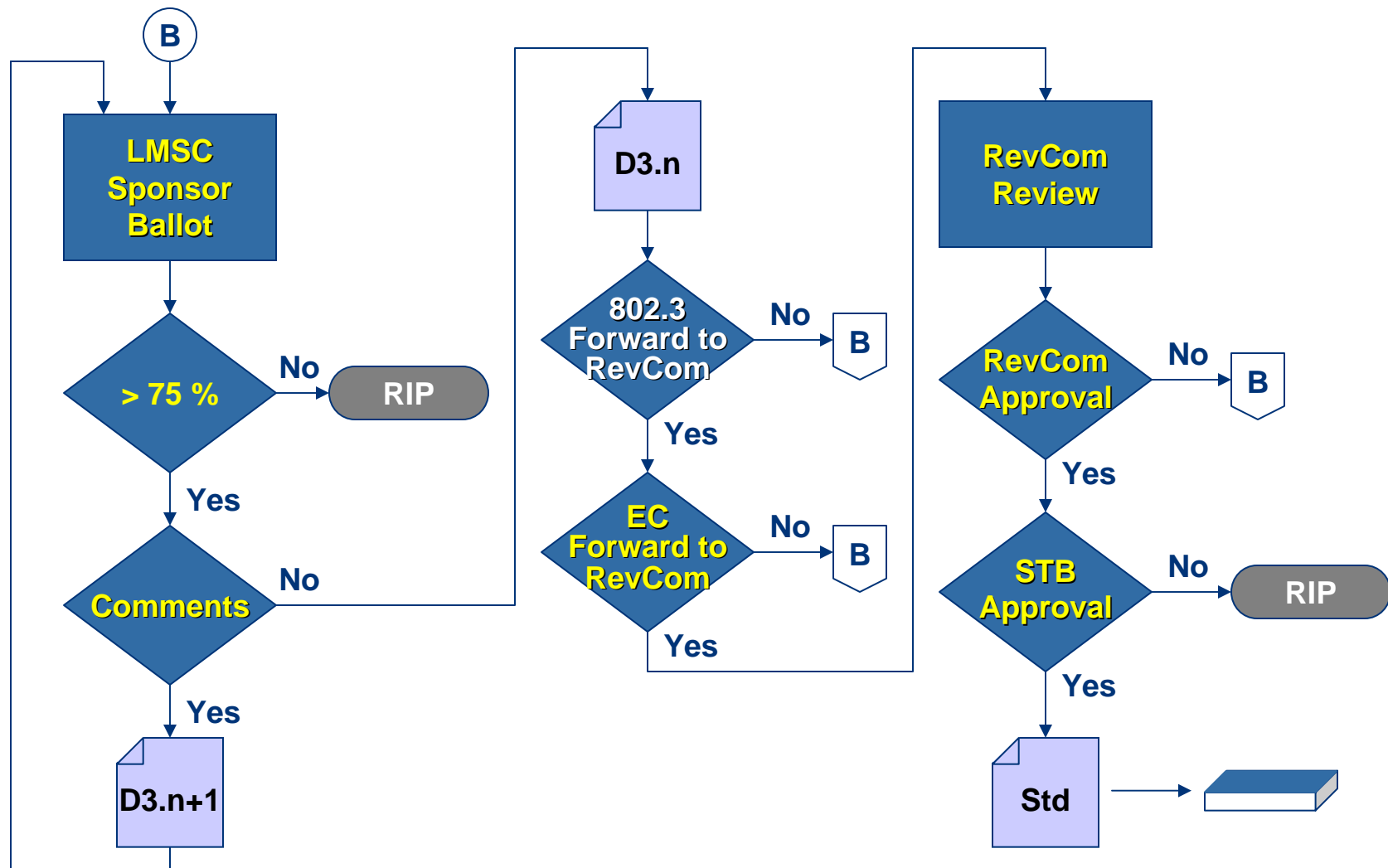
# IEEE 802.3 standards process (2/4)



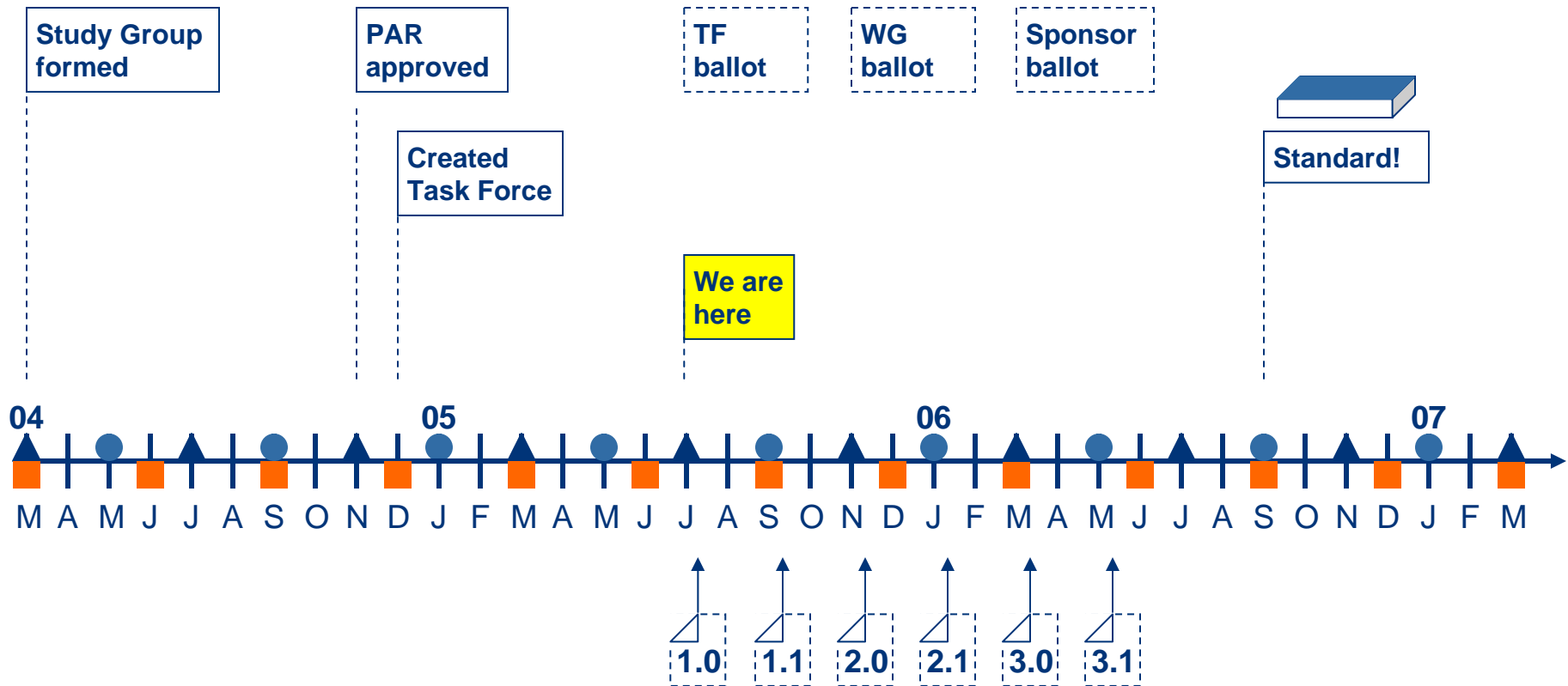
# IEEE 802.3 standards process (3/4)



# IEEE 802.3 standards process (4/4)



# Possible timeline



## 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 pickle*

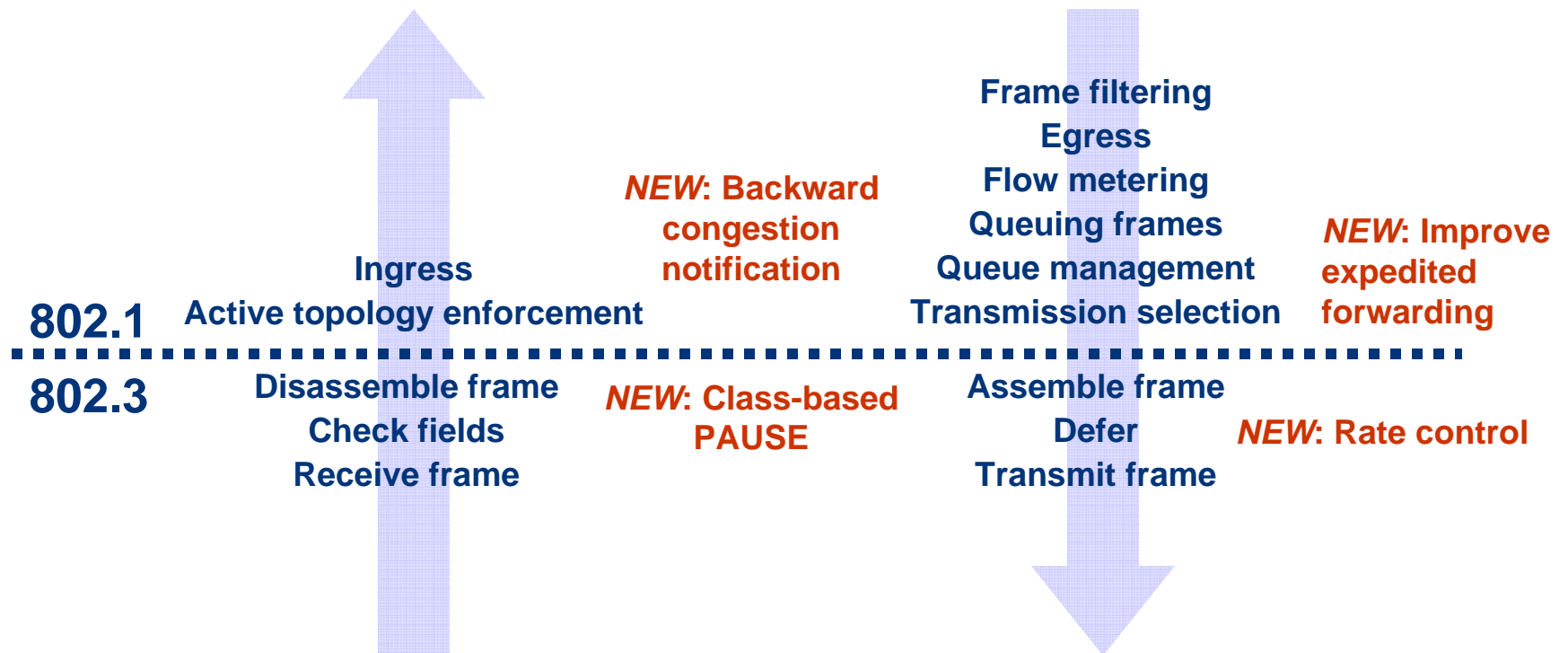
- *Objectives adopted by TF 9/04*
- *Approved by WG 11/04*
- *Objective #1*
  - *Technical proposal presented 1/05, 3/05, 5/05: not adopted*
  - *Questioned 5/05; failed a vote for reaffirmation*
- *Objective #2*
  - *Questions raised regarding 802.3 / 802.1 overlap*
  - *Passed motion 5/05 acknowledging “primary work ... is responsibility of 802.1”*
- *Some objection to the project as part of 802.3*
  
- *Meanwhile in 802.1...*

# 802.1 May presentations

- Paul Congdon proposed improving expedited forwarding to address, at least in part, requests from 802.3ar, RESG, 802.1ad, and Industrial Ethernet
  - Consider the following three modifications to clause 8.6.7 and 8.6.8:
    - Minimum bandwidth guarantees for Egress classes
    - Maximum bandwidth limits for Egress classes
    - Configuration of Ingress meters
- Davide Bergamasco proposed considering L2 BCN for core-to-edge congestion in IEEE 802 short range networks
- Manoj Wadekar proposed granular link level flow control as insurance against packet loss
- For details, see individual presentations here:
  - <http://www.ieee802.org/3/ar/public/0505/>



# .1/.3ar potential delineation



# ***TF priorities for July***

- ***Hear proposals to meet current objectives***
- ***Hear proposals to change/modify set of objectives***
- ***Present status to 802.1 on Wed***
  - ***Solicit input, support for 802.3ar TF's objectives***
  - ***Determine support for 802.1-centric CM-related proposals***
- ***Present status to 802.3 on Thu***
  - ***Reaffirm 802.3ar TF objectives***

# *Plans for the week*

<b>Day</b>	<b>Time</b>	<b>Room</b>	<b>Activity</b>
<b>Tue 7/19</b>	<b>0830-1200</b>	<b>Pacific J</b>	<b>Opening, presentations, discussion of proposals</b>
	<b>1330-1700</b>	<b><i>Pacific J</i></b>	<b><i>If needed</i></b>
<b>Wed 7/20</b>	<b>0900-1100</b>	<b>Hospitality</b>	<b>802.1/802.3 Joint tech plenary</b>

# ***Presentations/discussion***

<b>Presenter</b>	<b>Topic</b>	<b>Filename</b>
R. Brunner A. Hazarika	<i>Why Priority/Class Based PAUSE is Required?</i>	brunner_1_0507.pdf
S. Merchant	<i>Class Based Flow Control</i>	merchant_1_0507.pdf

# *Future meetings*

- **IEEE 802.3 Interim**
  - September 12-16, Nashua, New Hampshire
- **IEEE 802 Plenary**
  - November 13-18, Vancouver, British Columbia
- **IEEE 802.3 Interim**
  - January 2006, TBD