P802.3ar Congestion Management Task Force
Agenda

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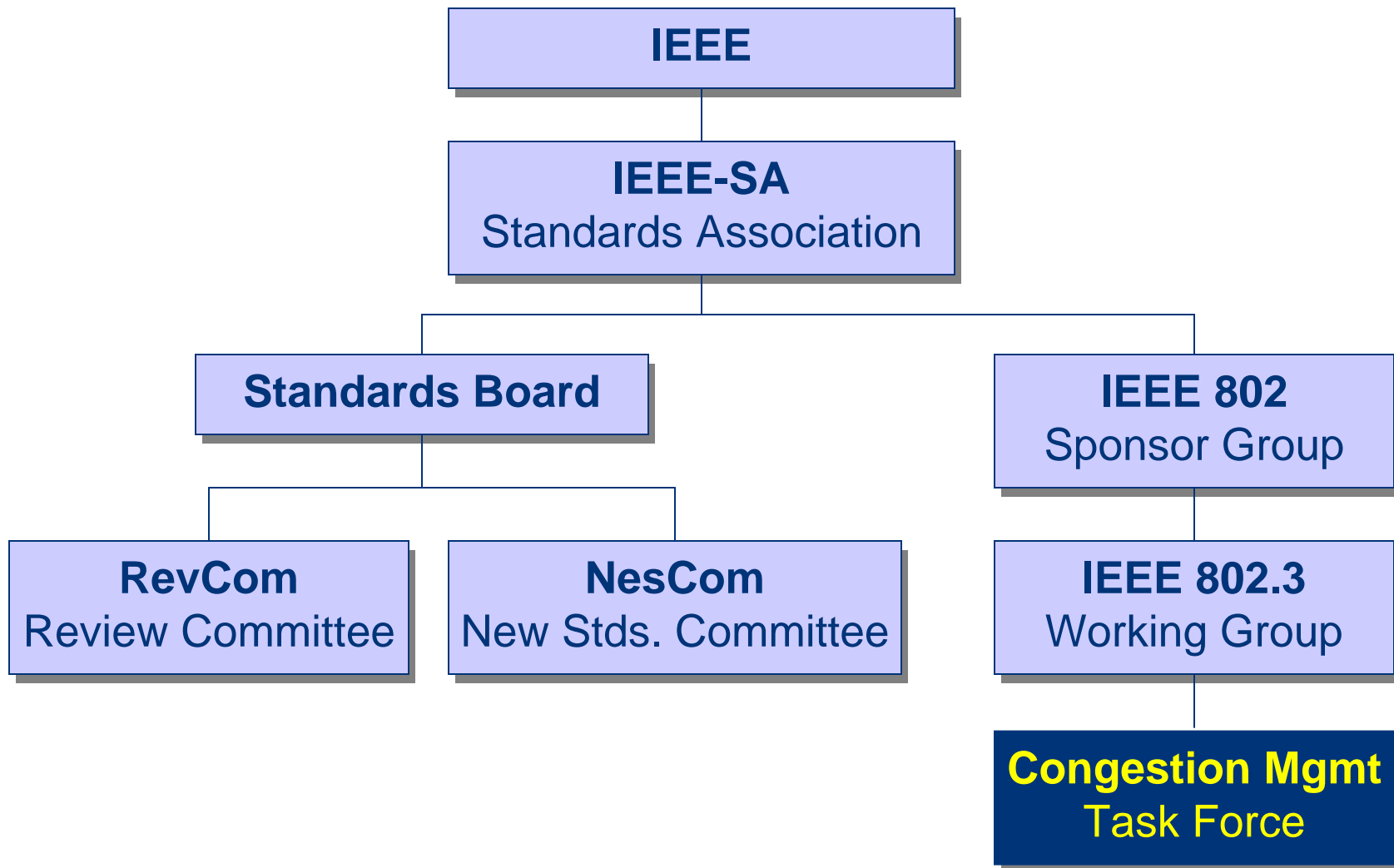- **Motions**
- **Future meetings**

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  │ │   NesCom     │          │    IEEE 802.3    │
│  Review  │ │  New Stds.   │          │  Working Group   │
│Committee │ │  Committee   │          └──────────────────┘
└──────────┘ └──────────────┘                    │
                                       ┌──────────────────┐
                                       │ 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/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)

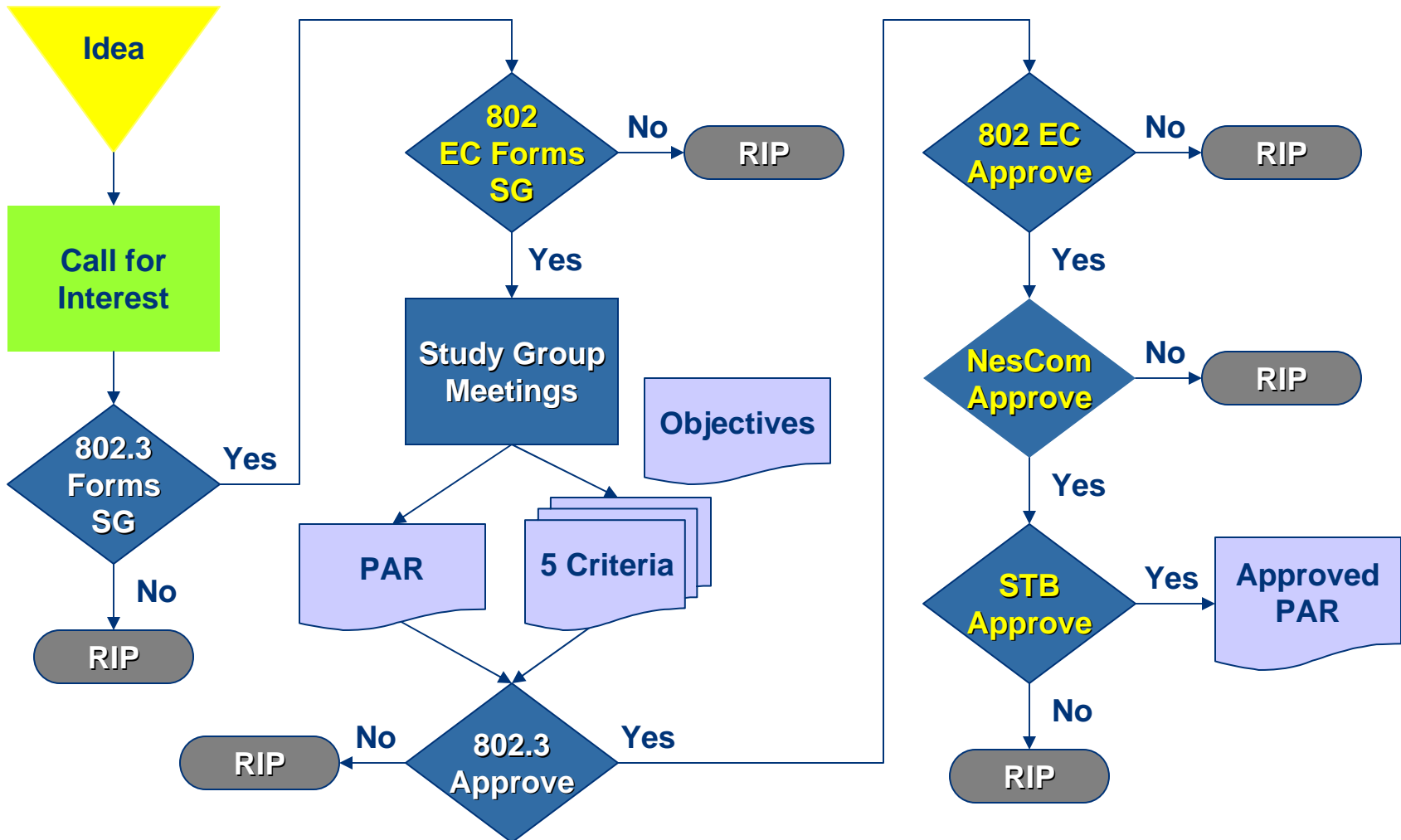# *Inappropriate Topics for IEEE WG Meetings*

- 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.

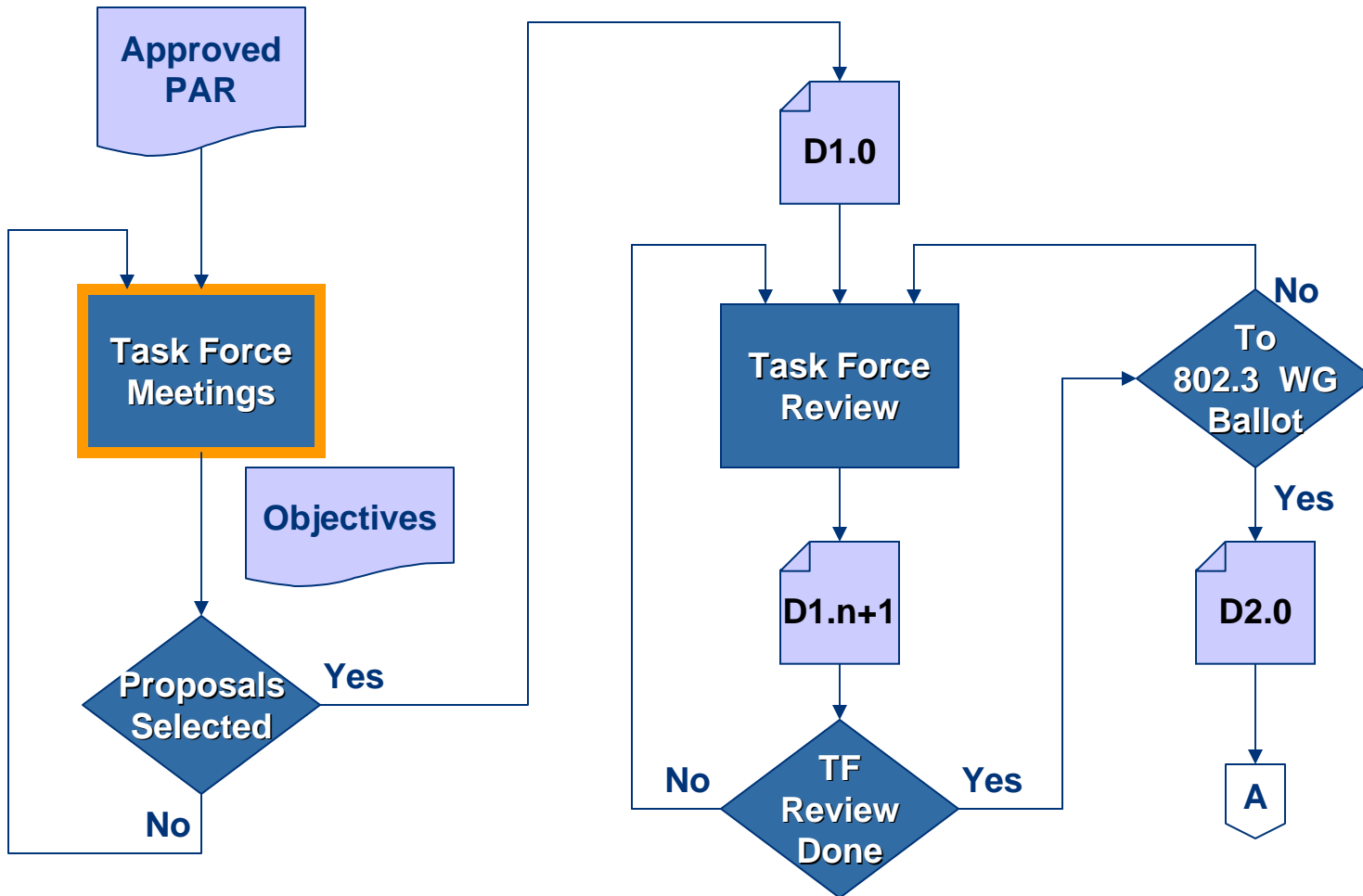- If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org or visit http://standards.ieee.org/board/pat/index.html

- 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)
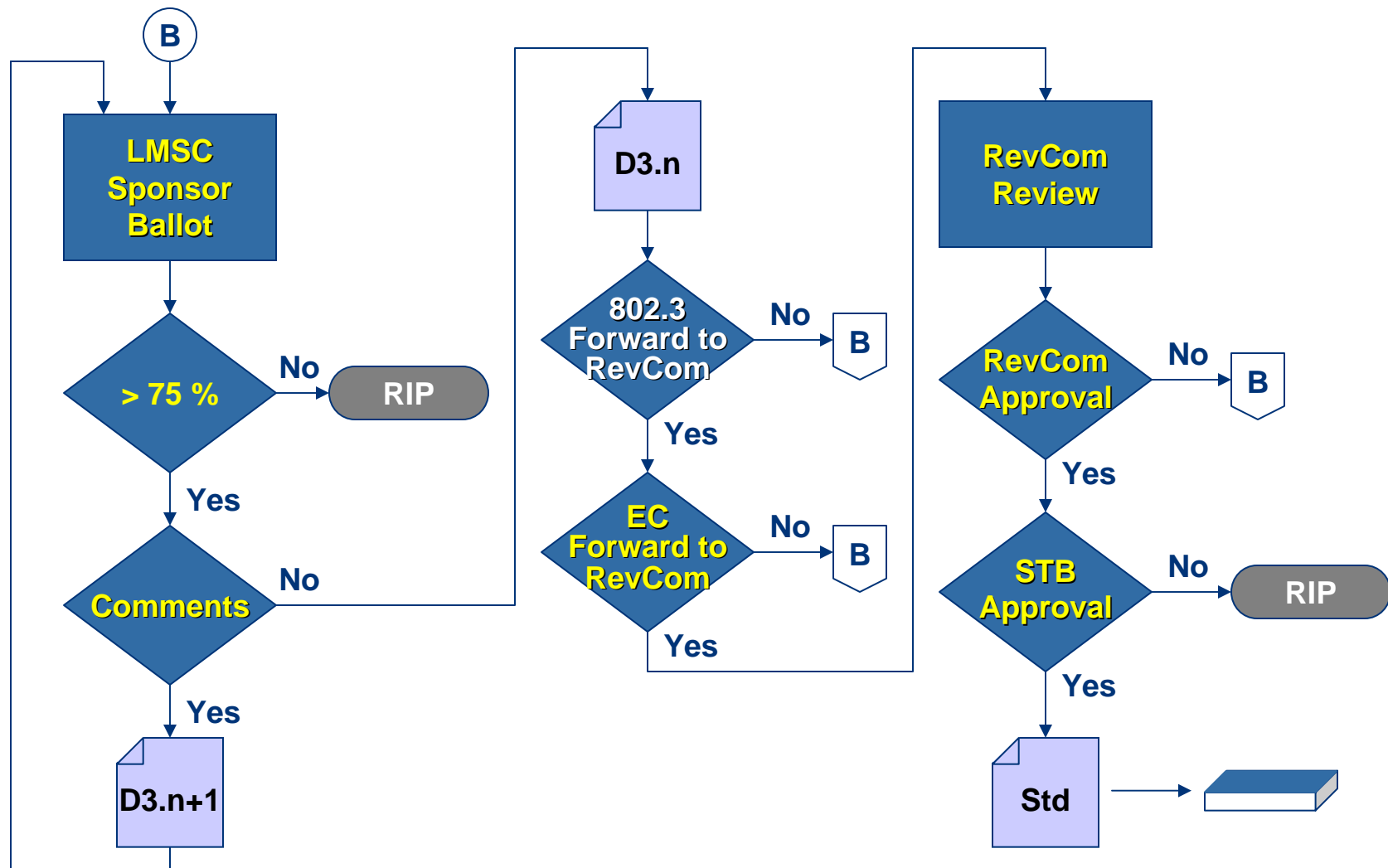
P802.3ar Congestion Management - May 2005

IEEE 802.3 standards process (2/4)

Approved PAR

Task Force Meetings

Objectives

Proposals Selected

Yes

No

D1.0

Task Force Review

D1.n+1

TF Review Done

No

Yes

To 802.3 WG Ballot

No

Yes

D2.0

A

IEEE 802.3 standards process (3/4)

IEEE 802.3 standards process (4/4)

P802.3ar Congestion Management - May 2005

Possible timeline

Study Group formed

PAR approved

TF ballot

WG ballot

Sponsor ballot

Created Task Force

Standard!

We are here

04 · M A **M** J J A **S** O N D | 05 · J F **M** A **M** J J A **S** O N D | 06 · J F **M** A **M** J J A **S** O N D | 07 · J F M

1.0   1.1   2.0   2.1   3.0   3.1
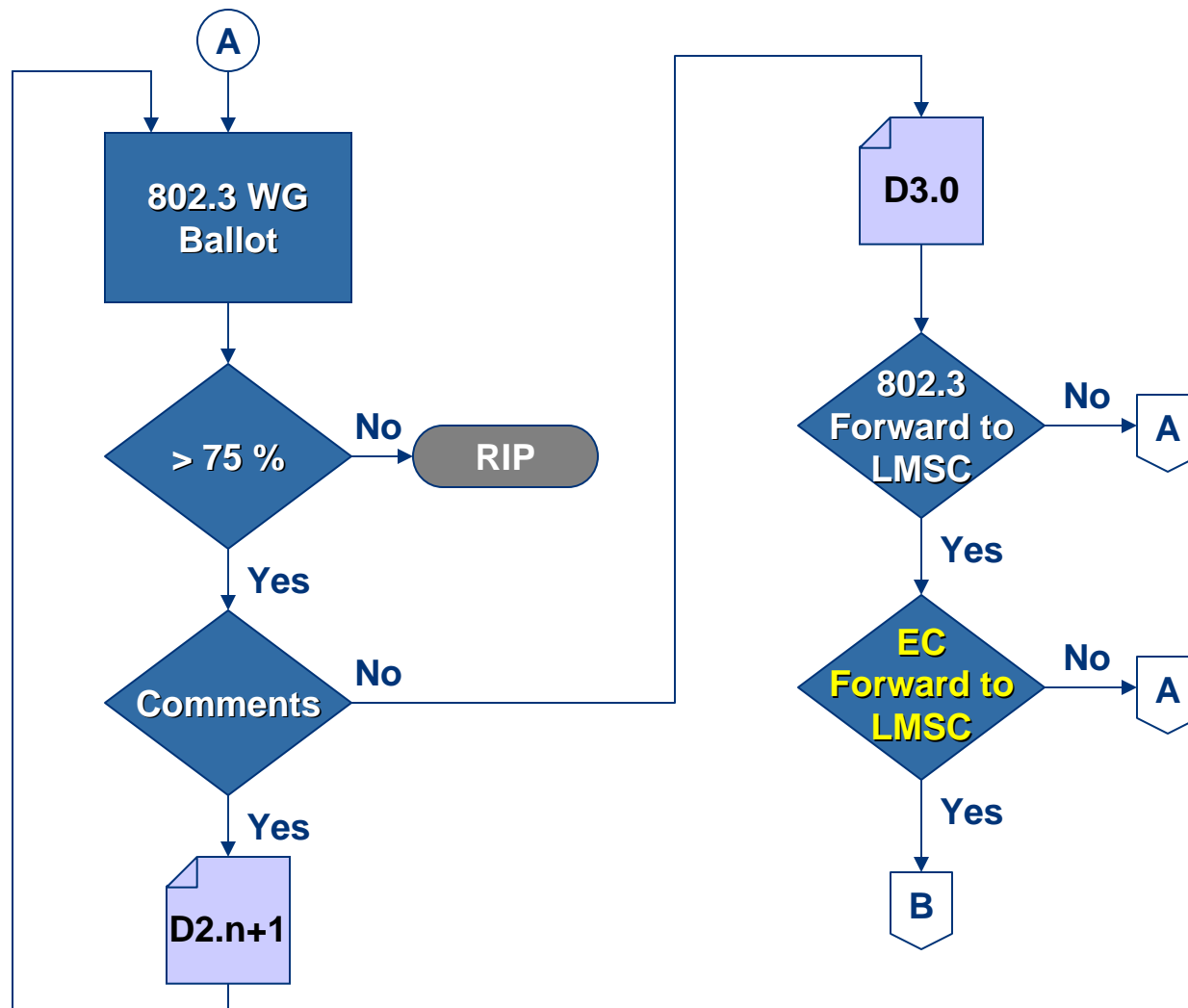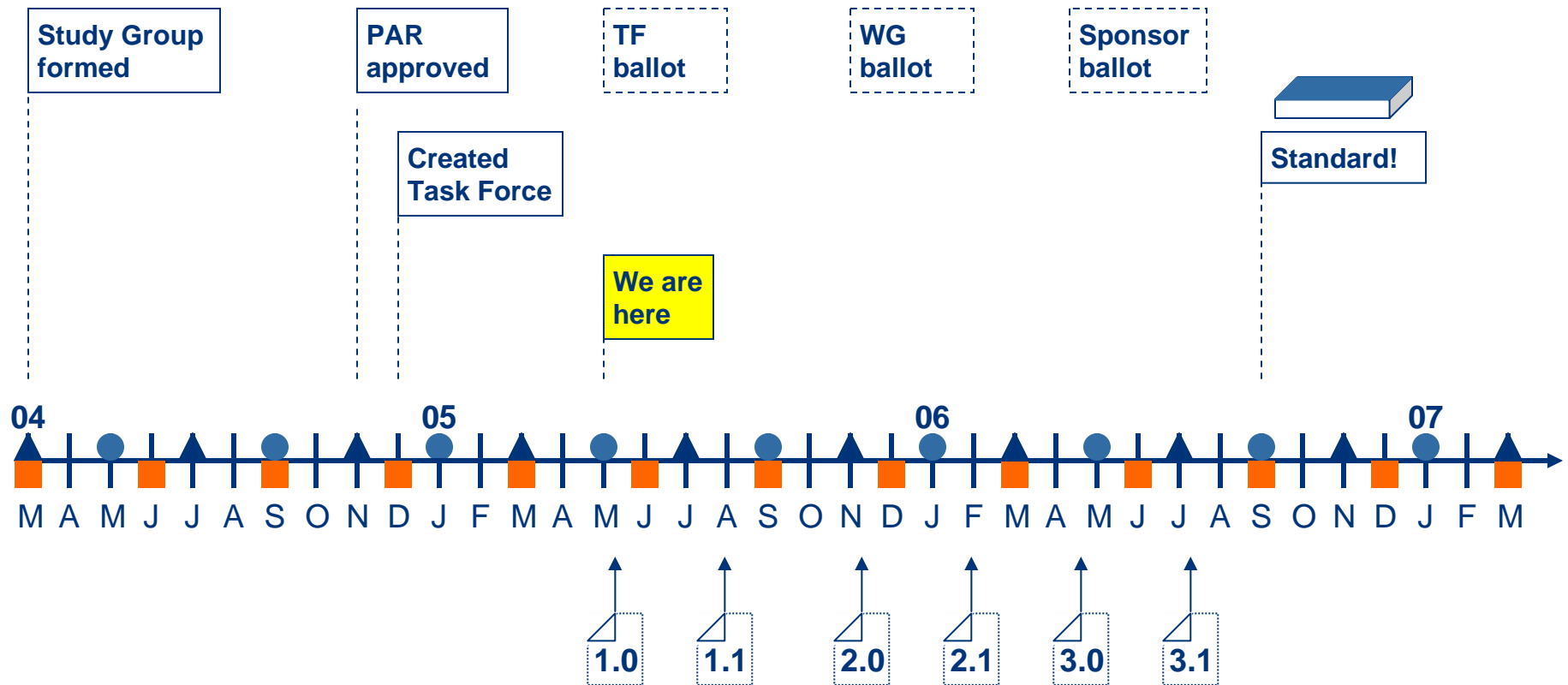
Legend

▲ 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

Plans for the week

Day	Time	Room	Activity
Wed 5/18	8:30a-12p	Shoal Creek	Opening, presentations
	1:30p-5:00p	Shoal Creek	Discussion of proposals
Thu 5/19	8:30a-12:00n	Shoal Creek	Discussion of proposals

Presentations/discussion

Presenter	Topic	Filename
H. Barrass	*Rate control for congestion management II*	barrass_1_0505.pdf
H. Barrass	*MAC service interface: 2 items to consider*	barrass_2_0505.pdf
H. Barrass	*Manoj Wadekar's presentation to IEEE 802.1* *Congestion management in data center networks*	wadekar_1_0505.pdf
H. Barrass	*Paul Congdon's presentation to IEEE 802.1* *Proposal to improve expedited forwarding*	congdon_1_0505.pdf
H. Barrass	*Davide Bergamasco's presentation to IEEE 802.1* *Data Center Ethernet Congestion Management:* *Backward Congestion Notification*	bergamasco_1_0505.pdf

Future meetings

- **IEEE 802 Plenary**

  - **July 17-22, San Francisco, California**

- **IEEE 802.3 Interim**

  - *September, Europe?*

- **IEEE 802 Plenary**

  - **November 13-18, Vancouver, British Columbia**

- **IEEE 802.3 Interim**

  - *January 2006,*
  - *Need host?*