

IEEE P802.3ar
Congestion Management Task Force

Report to 802.3 CSMA/CD WG

Atlanta, Georgia
14 March 2005

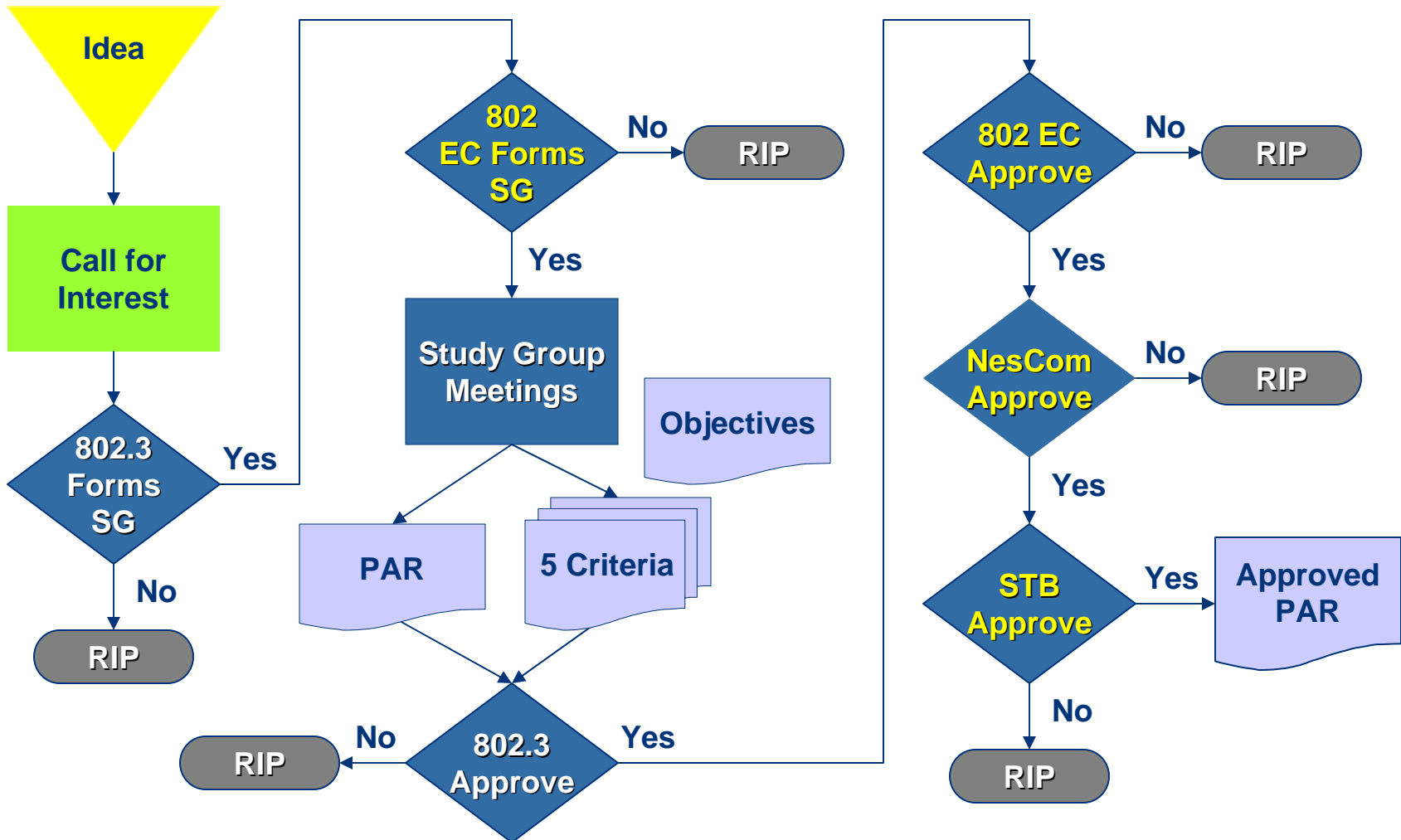
Agenda

- Reflector and web
- IEEE 802.3 standards process
- Objectives
- Report on January interim
- Straw polls
- Project timeline
- Plan for week

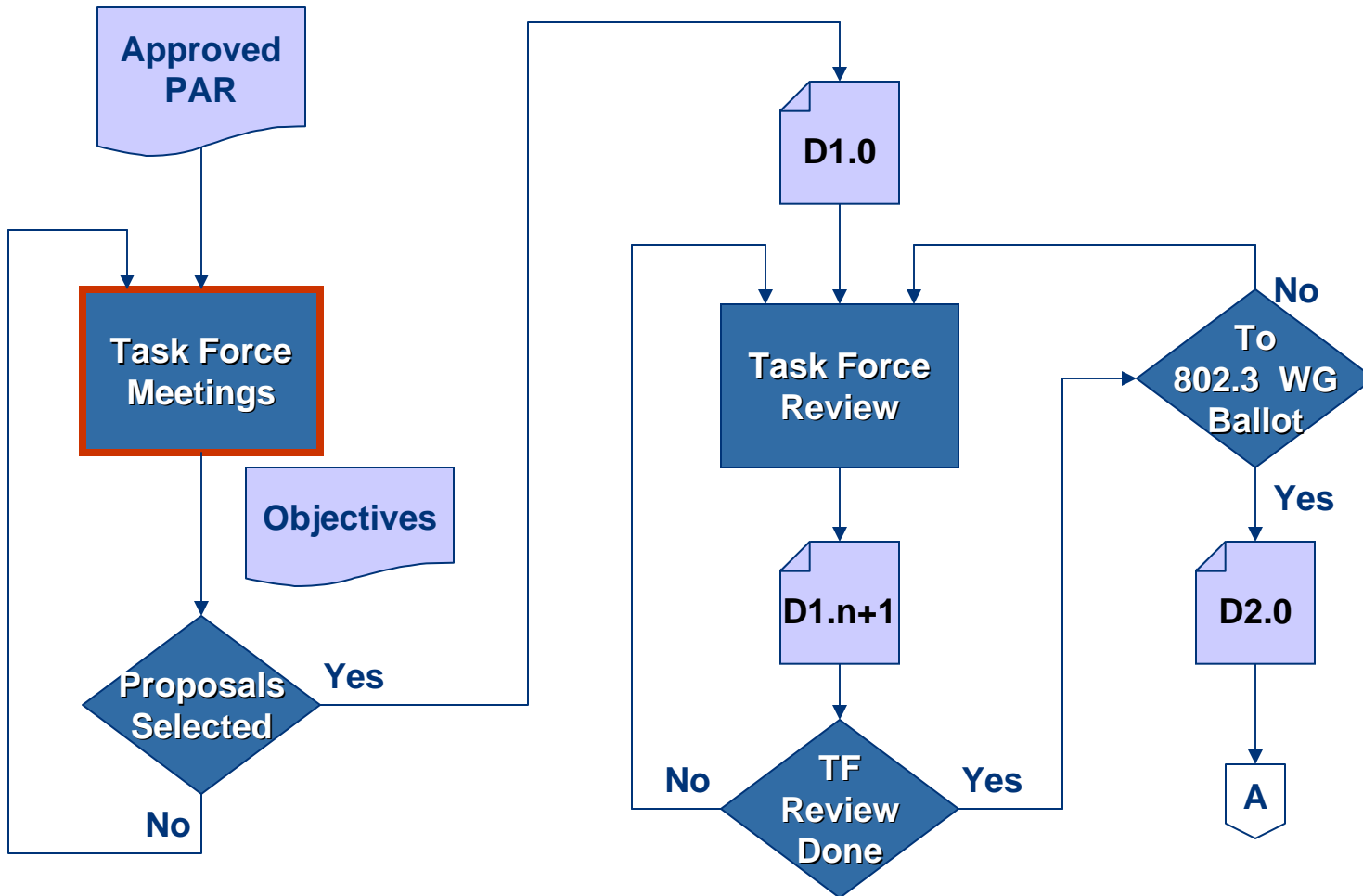
Reflector and Web

- List subscribers: **142** (as of 3/12)
- 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/>

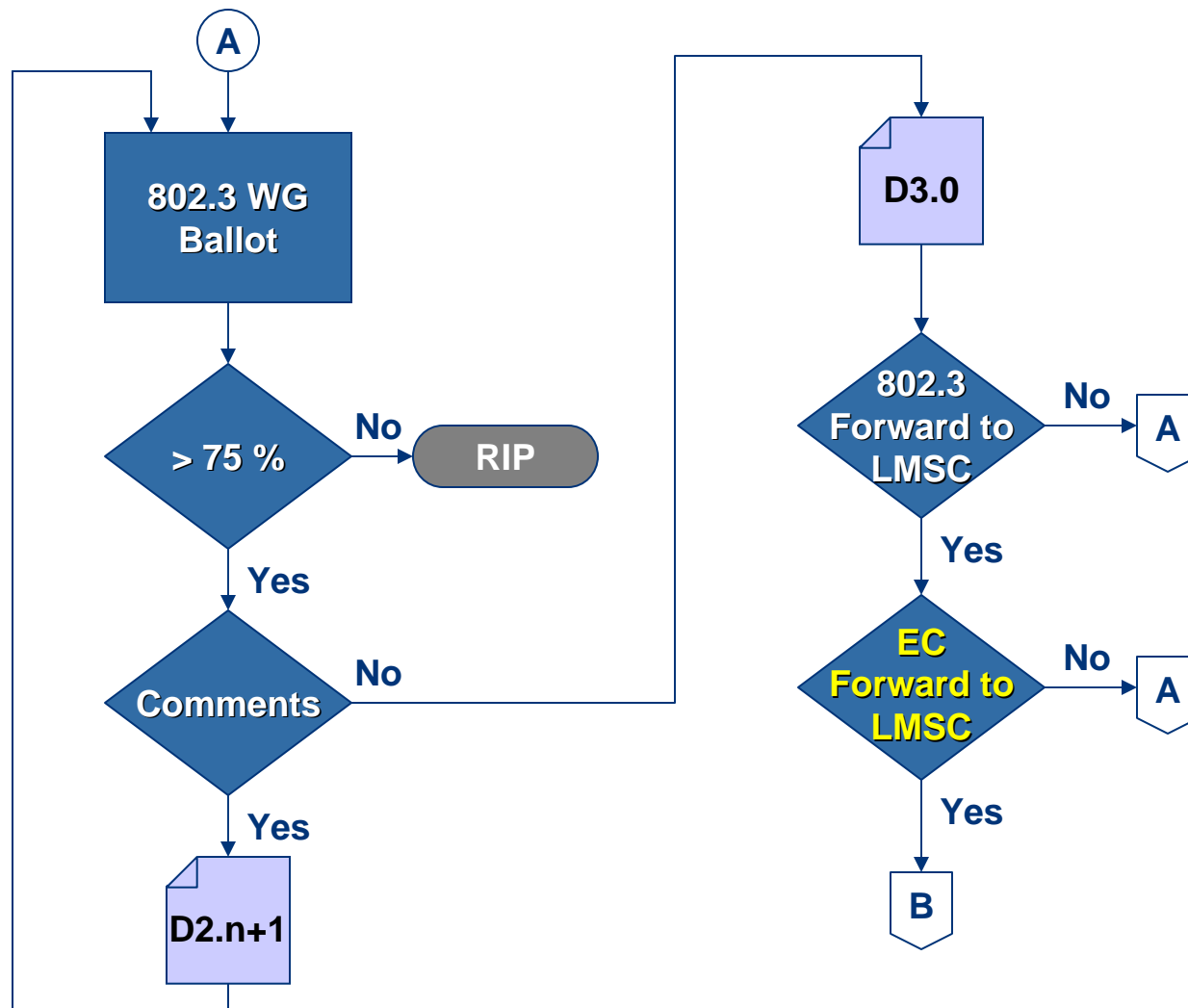
IEEE 802.3 Standards Process (1/4)



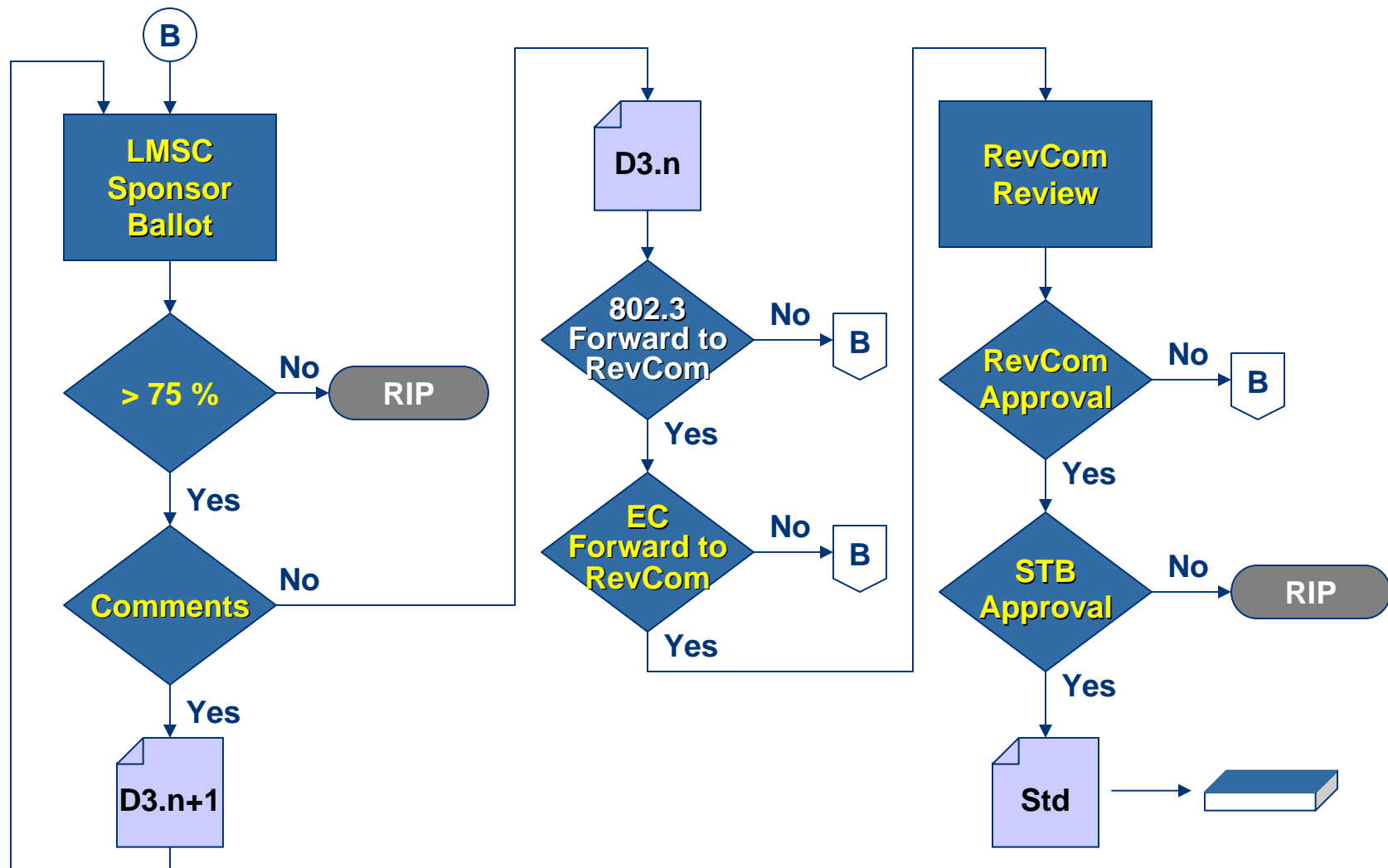
IEEE 802.3 Standards Process (2/4)



IEEE 802.3 Standards Process (3/4)



IEEE 802.3 Standards Process (4/4)



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

January Interim

- **1-day interim, Sacramento**
 - Co-located with 802.1, P802.3as
- **Reviewed presentation on three rate limiters**
 - *objective #1*
- **Reviewed presentation on congestion notification**
 - *objective #2*
- **Held joint meeting with 802.1**
 - Reviewed congestion notification presentation
 - Members of 802.1 requested formal proposal for consideration at March meeting
- **Took several straw polls to gauge interest in rate limiters**

Straw polls re: rate limiters

- Do you agree in principle with defining:
 - Defining fixed, per-packet overhead rate-limiter (7-0)
 - Defining maximum payload rate limiter (7-2)
 - Defining maximum packet rate limiter (6-1)
 - Defining Clause 30 attributes for each rate limiter (9-0)
 - Defining remote rate control request (3-3)
 - Cleaning up MAC service interfaces (10-1)

- 14-16 in room

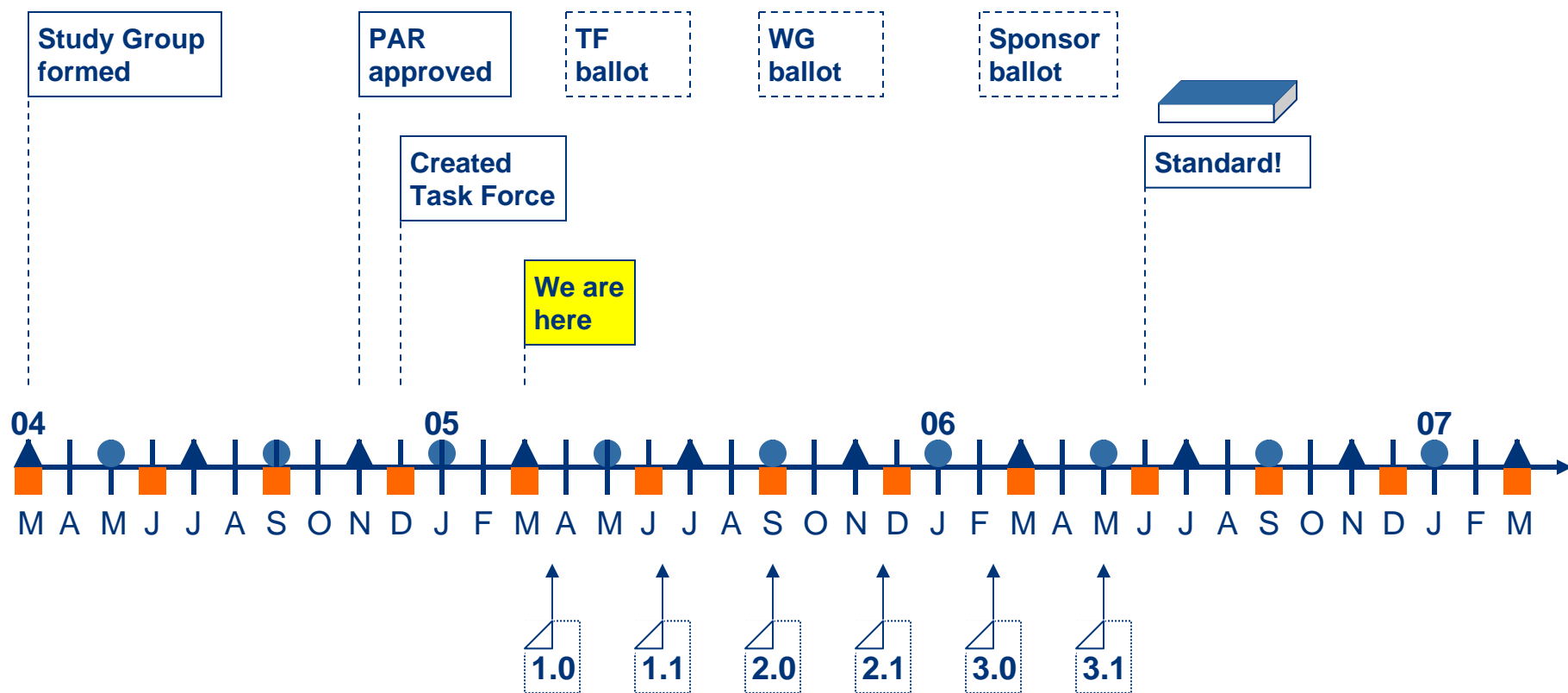
Straw polls re: CN

- Do you agree in principle with this statement? **9-0-2,14**
 - In order to enable accelerated deployment of Ethernet into emerging limited-topology applications (clustering, backplanes, storage, data centers, etc.), IEEE 802.1 should specify a standard mechanism for MAC Clients to provide congestion information to L2 edge devices, using wadekar_1_0501.pdf as a basis

- Do you support packet marking as the means for forward congestion notification? **(8-0, 14)**

- Which method of packet marking do you prefer? (choose one)
 - Existing 81-00 EType VLAN tag's CFI bit - **3**
 - Separate L2 tag - **2**
 - Insert new L2 tag
 - Change VLAN tag to new EType

Possible timeline



Legend

- ▲ IEEE 802 Plenary
- IEEE 802.3 Interim
- IEEE-SA Standards Board

Plans for the week

Day	Time	Room	Activity
Tue 3/15	8:30a-12p	Montreal	Opening, presentations
	1:30p-5:00p	Montreal	Preparation for 802.1 proposal
Wed 3/16	1:30p-2:30p	Hanover	Proposal to 802.1
Thu 3/17	8:30a-10:00a	Montreal	Closing P802.3ar session