

IEEE P802.3ar
Congestion Management Task Force

Report to 802.3 CSMA/CD WG

San Francisco, California
18 July 2005

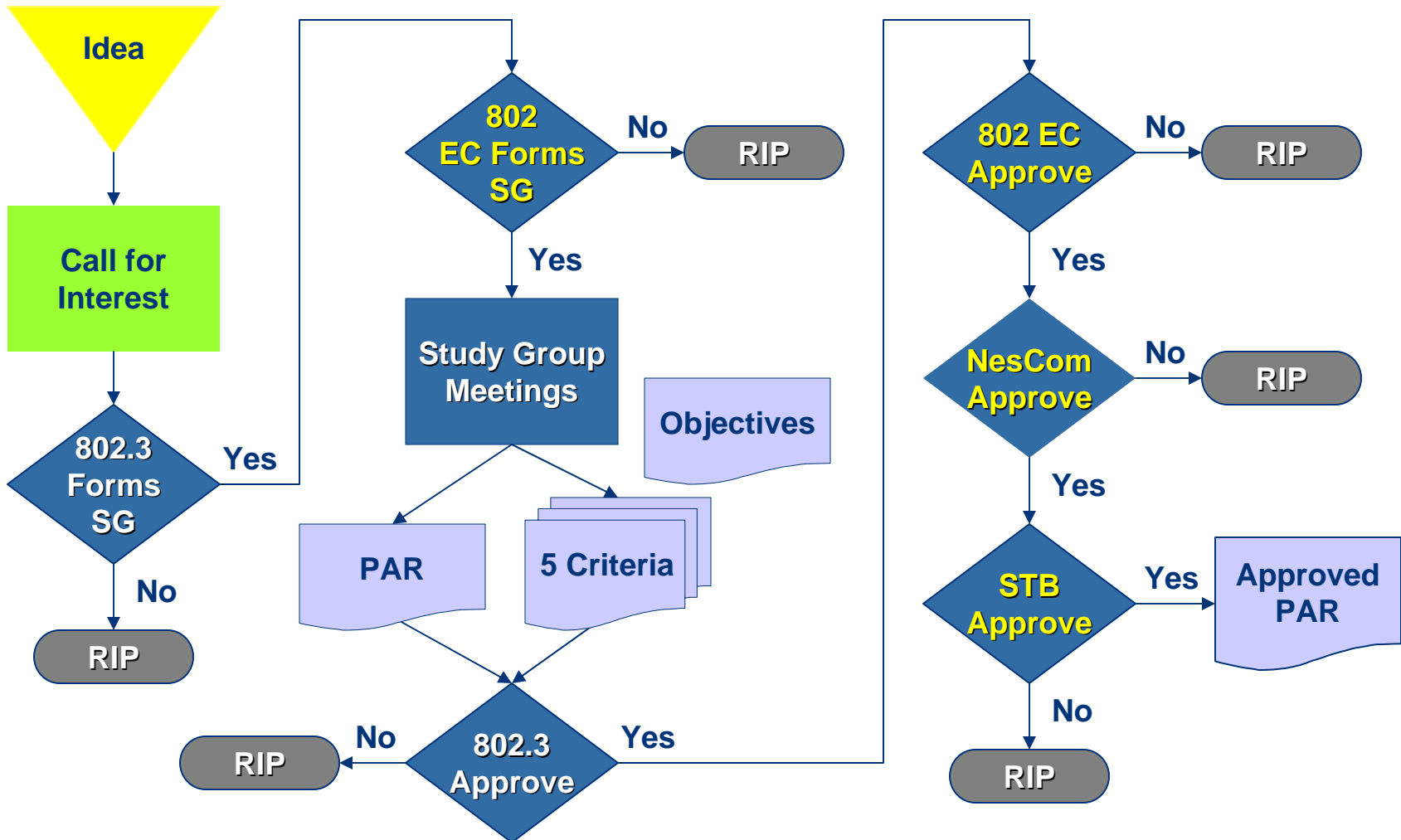
Agenda

- Reflector and web
- IEEE 802.3 standards process
- Objectives
- Report on May interim
- Motions, straw polls
- Projected timeline
- Plan for week

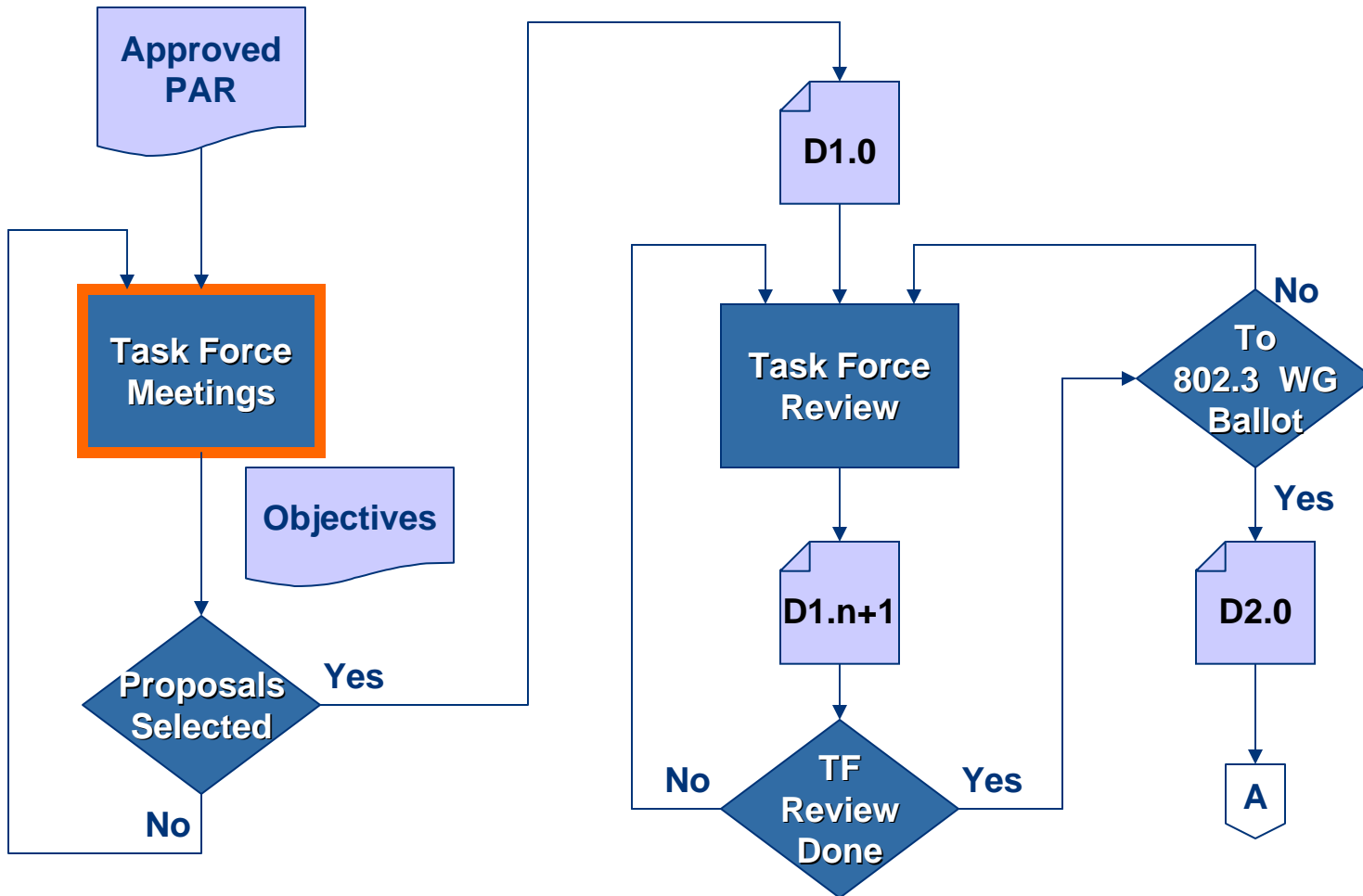
Reflector and Web

- List subscribers: **164** (as of 7/18)
- 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/>

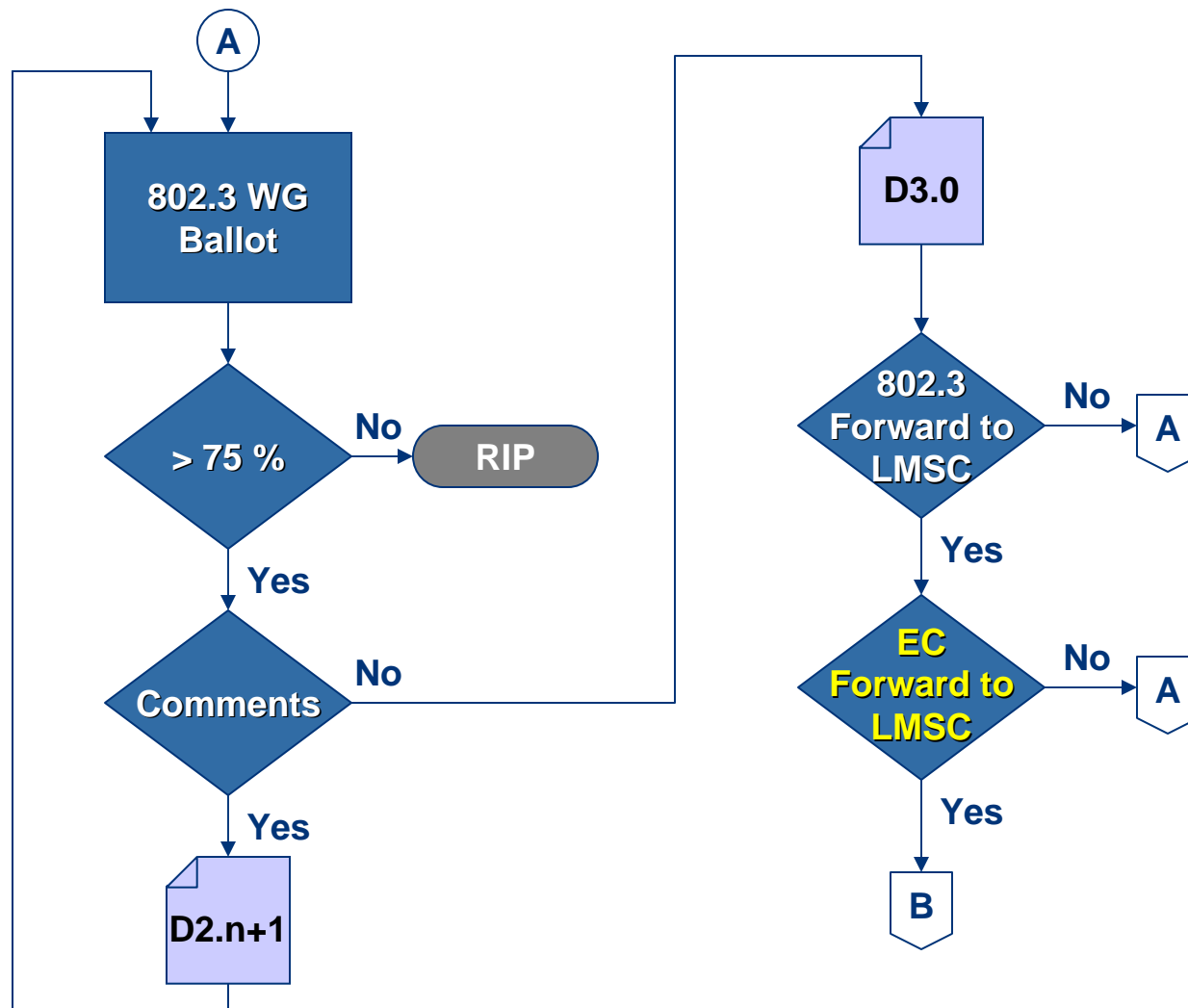
IEEE 802.3 Standards Process (1/4)



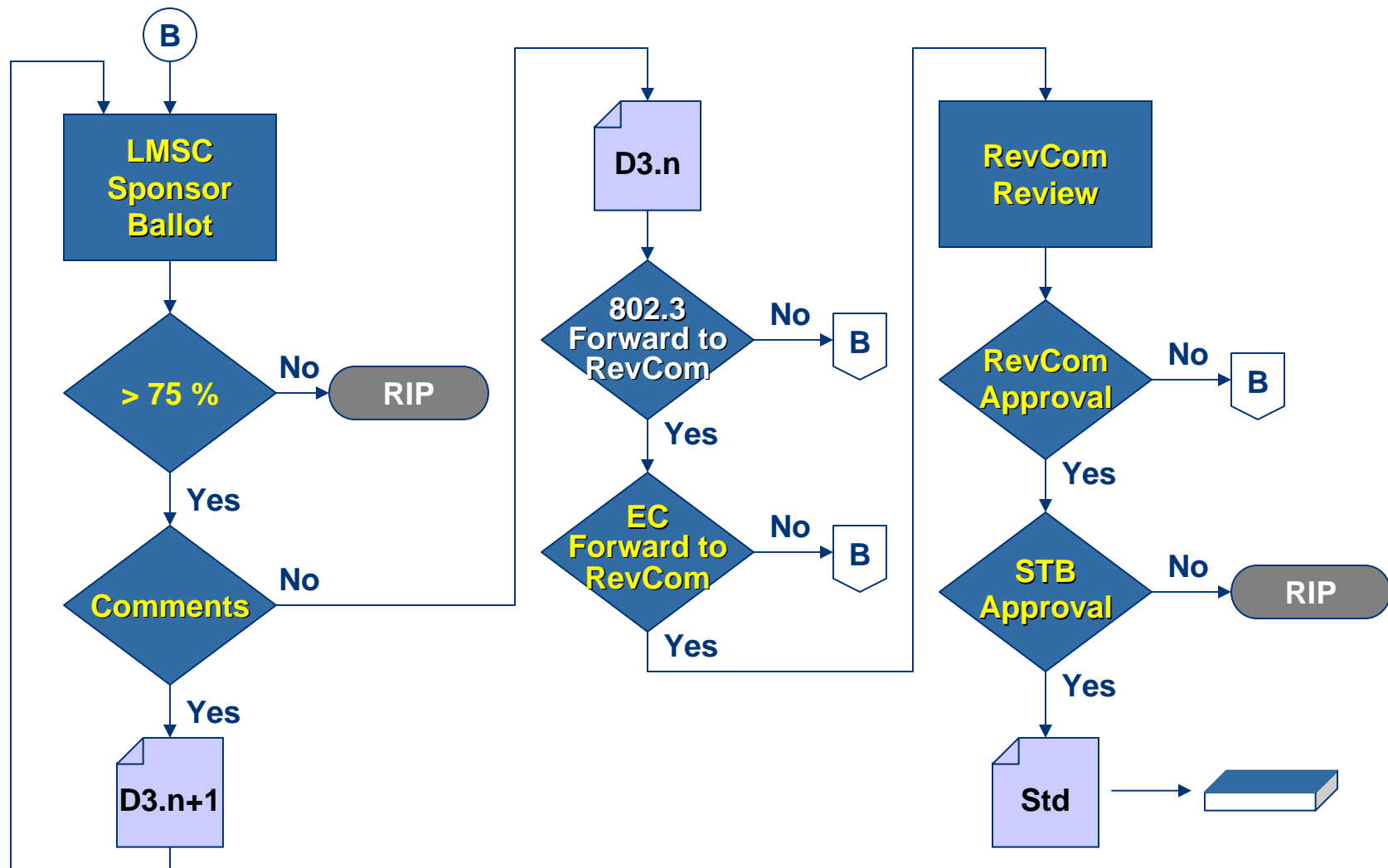
IEEE 802.3 Standards Process (2/4)



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

May presentations

Group	Presenter	Topic
802.3ar	H. Barrass	Rate control for congestion management II
	H. Barrass	MAC service interface: 2 items to consider
802.1	M. Wadekar	Congestion management in data center networks
	P. Congdon	Proposal to improve expedited forwarding
	D. Bergamasco	Data Center Ethernet Congestion Management: Backward Congestion Notification

May 802.3ar: Motion #1

- Adopt changes to Annex 4A & Clause 30 described in barrass_1_0505.pdf as a baseline proposal for 802.3ar/D1.0
- M: H. Barrass S: Ilango Ganga
- Y: 5 N: 6 A: 5
- **Fails**
- $\geq 75\%$
- 16 in room

May 802.3ar: Straw Poll #1

- **Support moving rate control topic to the Architecture advisory group to the 802 EC (meets Sunday's of Plenary meetings)**

- **Y: 2 N: 10**

May 802.3ar: Motion #2

- Reaffirm 802.3ar TF objective #1, which reads: “Specify a mechanism to limit the rate of transmitted data on an Ethernet link”

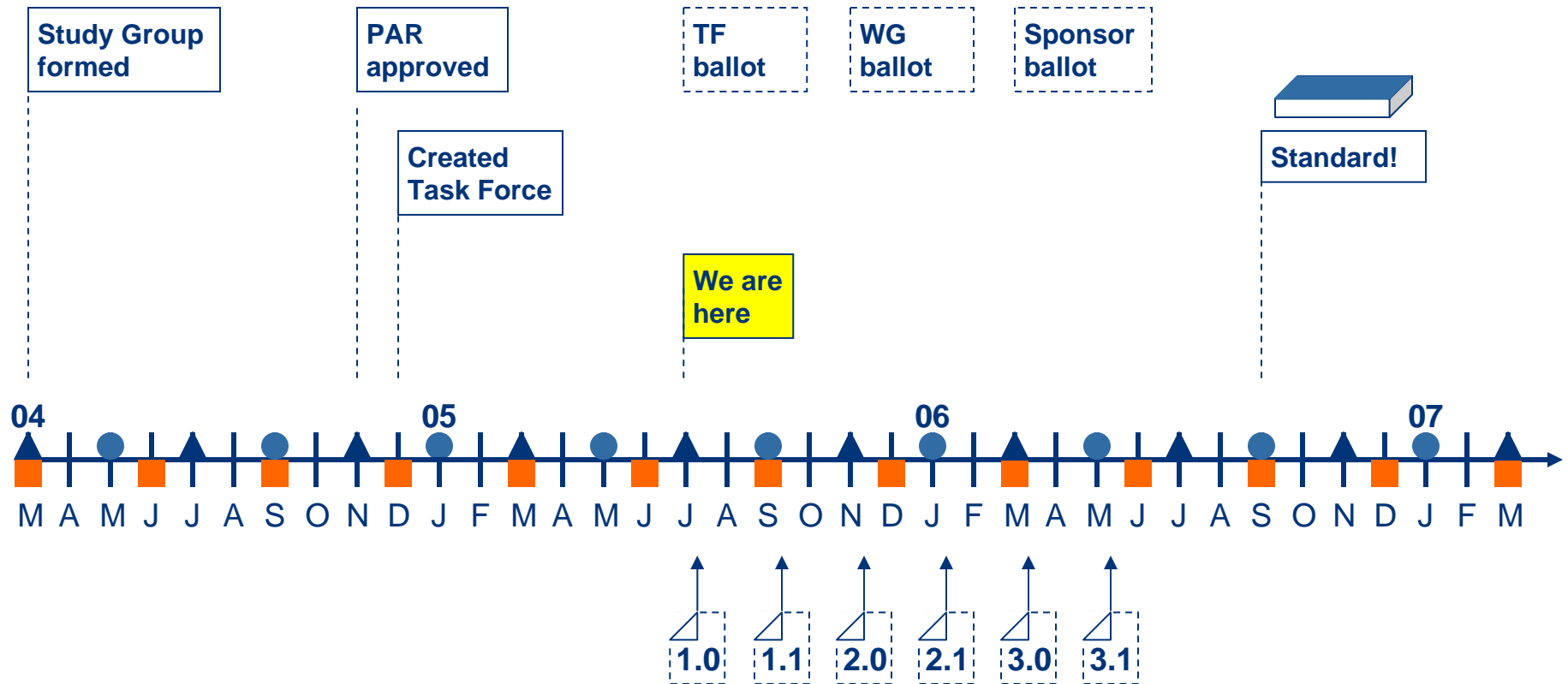
- M: H. Barrass S: Uri Cummings
- Y: 6 N: 3 A: 9
- $\geq 75\%$, **Fails**
- 17 in room

- 802.3 voters
- Y: 4 N: 2 A: 2
- $\geq 75\%$, **Fails**

May 802.3ar: Motion #4

- **Move that the 802.3ar TF recognizes the primary work to meet 802.3ar TF objective #2 is the responsibility of 802.1**
- **M: H. Barrass S: T. Dineen**
- **$\geq 75\%$, Passes**
- **Y: 9 N: 1 A: 7**
- **17 in room**

Possible timeline



Legend

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

July presentations

Presenter	Topic	Filename
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

Plans for the week

Day	Time	Room	Activity
Tue 7/19	0830-1200	Pacific J	Opening, presentations, preparation for joint tech plenary
	1330-1700	<i>Pacific J</i>	<i>If needed</i>
Wed 7/20	0900-1100	Hospitality	802.1/802.3 joint tech plenary <ul style="list-style-type: none">• Give status update• Solicit input, support

Thank You