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# **IEEE 802.3ah**

# **Ethernet in the First Mile**

# **Task Force**

## **Agenda and General Information**

Fairmont Hotel Vancouver  
Vancouver, BC  
7-July-2002



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**IEEE 802.3ah Task Force**



# Agenda

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- **Welcome and introductions**
- **Objectives for this meeting**
- **Reflector and WWW site**
- **Ground rules**
- **IEEE standards process**
  - Timeline and schedule risk
- **Liaison letter(s)**
- **Review of project objectives**
- **Sub Task Force reports**
- **Presentations**
  - General
  - P2MP issues
  - FEC
  - Cu Objective
  - Split into tracks
    - P2MP
    - Cu
    - P2P
    - OAM
- **Motion madness**
- **Future meetings**

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# 802.3ah Officers

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- Howard Frazier, 802.3ah Chair, *millardo@dominetsystems.com*
- Gerry Pesavento, P2MP Chair, *gerry.pesavento@teknovus.com*
- Hugh Barrass, Copper Chair, *hbarrass@cisco.com*
- Vipul Bhatt, Optics Chair, *vipul\_bhatt@ieee.org*
- Matt Squire, OAM Chair, *mattsquire@acm.org*
- Ariel Maislos, P2MP Editor, *ariel.maislos@passave.com*
- Behrooz Rezvani, Copper Editor, *behrooz@ikanos.com*
- Wael Diab, Optics Editor, *wdiab@cisco.com*
- Kevin Daines, OAM Editor, *kevin.daines@worldwidepackets.com*

# Objectives for this meeting

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- **Review and adopt baseline proposals**
- **Consider an additional objective for copper**
- **Review first draft of P802.3ah**



# Reflector and web

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- To subscribe to our reflector(s), send email to:

**majordomo@ieee.org**

and include one or more of the following  
in the *body of the message*:

**subscribe stds-802-3-efm <your email address>**

**subscribe stds-802-3-efm-copper <your email address>**

**subscribe stds-802-3-efm-p2mp <your email address>**

**subscribe stds-802-3-efm-p2p <your email address>**

**subscribe stds-802-3-efm-oam <your email address>**

- Our email reflector policy is described at:

**<http://www.ieee802.org/3/efm/reflector.html>**



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# Reflector and web

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- Our web site is located at:

**<http://www.ieee802.org/3/efm>**

- Our private web site is located at:

**<http://www.ieee802.org/3/efm/private>**

**username:**

**password:**

**This is where we keep draft documents, and  
where a set of ITU-T recommendations and drafts is stored**

**Do NOT distribute this URL, username and password**

**Do NOT copy or distribute the documents on this site**

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# Ground rules

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- Any one in the room may speak (when recognized by the chair)
- Any one in the room may vote
- R-E-S-P-E-C-T - give it, get it
- No product pitches, no corporate pitches
- No discussion of pricing or prices



# Ground rules

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- The IEEE-SA's patent policy is set forth in clause 6 of the IEEE-SA Standards Board Bylaws:

IEEE standards may include the known use of patent(s), including patent applications, provided the IEEE receives assurance from the patent holder or applicant with respect to patents essential for compliance with both mandatory and optional portions of the standard. This assurance shall be provided without coercion and prior to approval of the standard (or reaffirmation when a patent 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 the proposed IEEE standard against any person or entity using the patent(s) to comply with the standard or
- b) A statement that a license will be made available without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination

# Ground rules

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- **Operating rules of the IEEE 802.3 Working Group:**

<http://www.ieee802.org/3/rules/>

- **Operating rules of the IEEE 802 LAN/MAN Standards Committee:**

<http://www.ieee802.org/rules.pdf>

- **Bylaws of the IEEE Standards Association Standards Board:**

<http://standards.ieee.org/guides/bylaws/sb-bylaws.pdf>

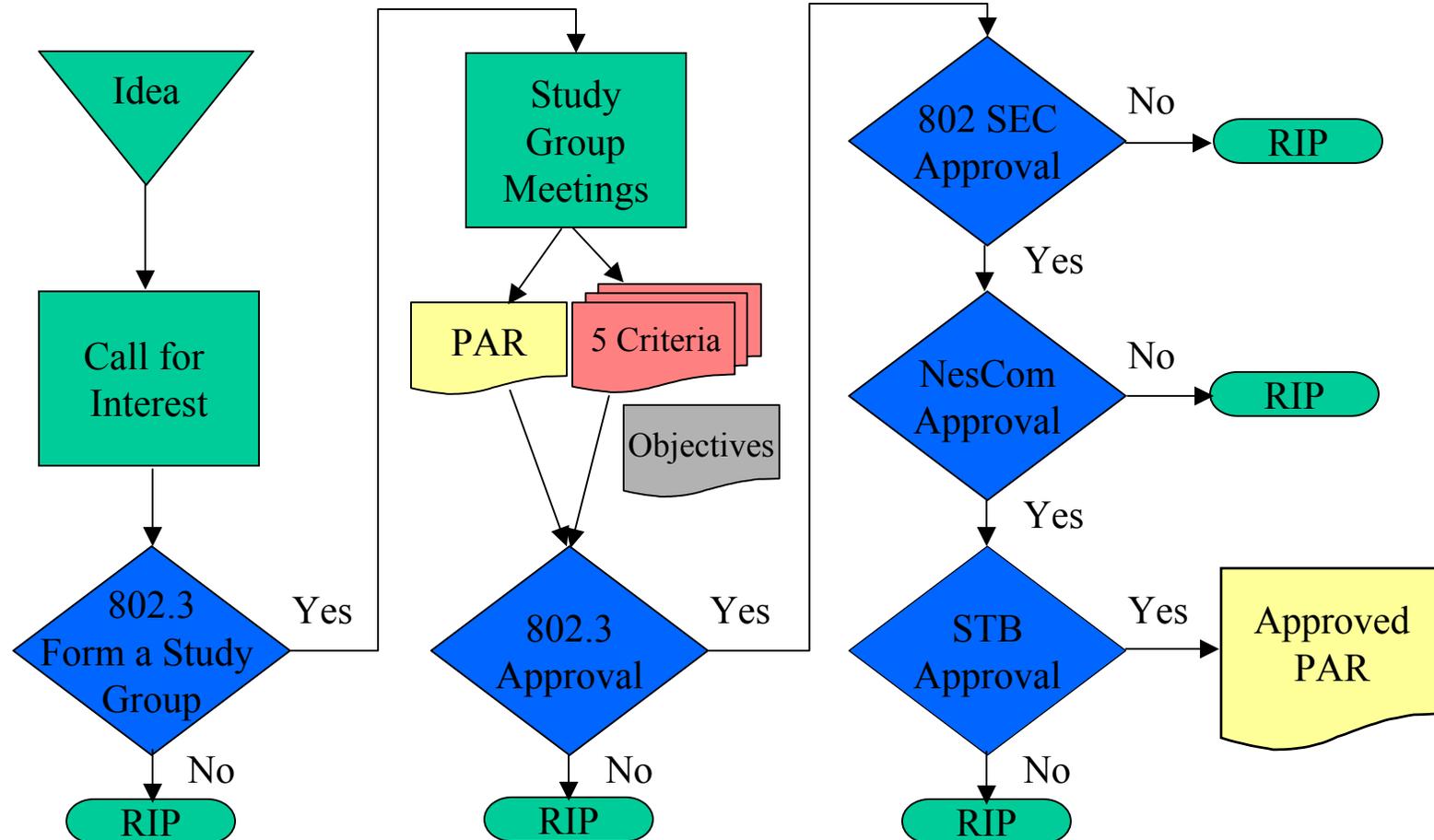
- **Bylaws of the IEEE Standards Association:**

<http://standards.ieee.org/sa/sa-bylaws.pdf>

(there will be a quiz at the end of the meeting)

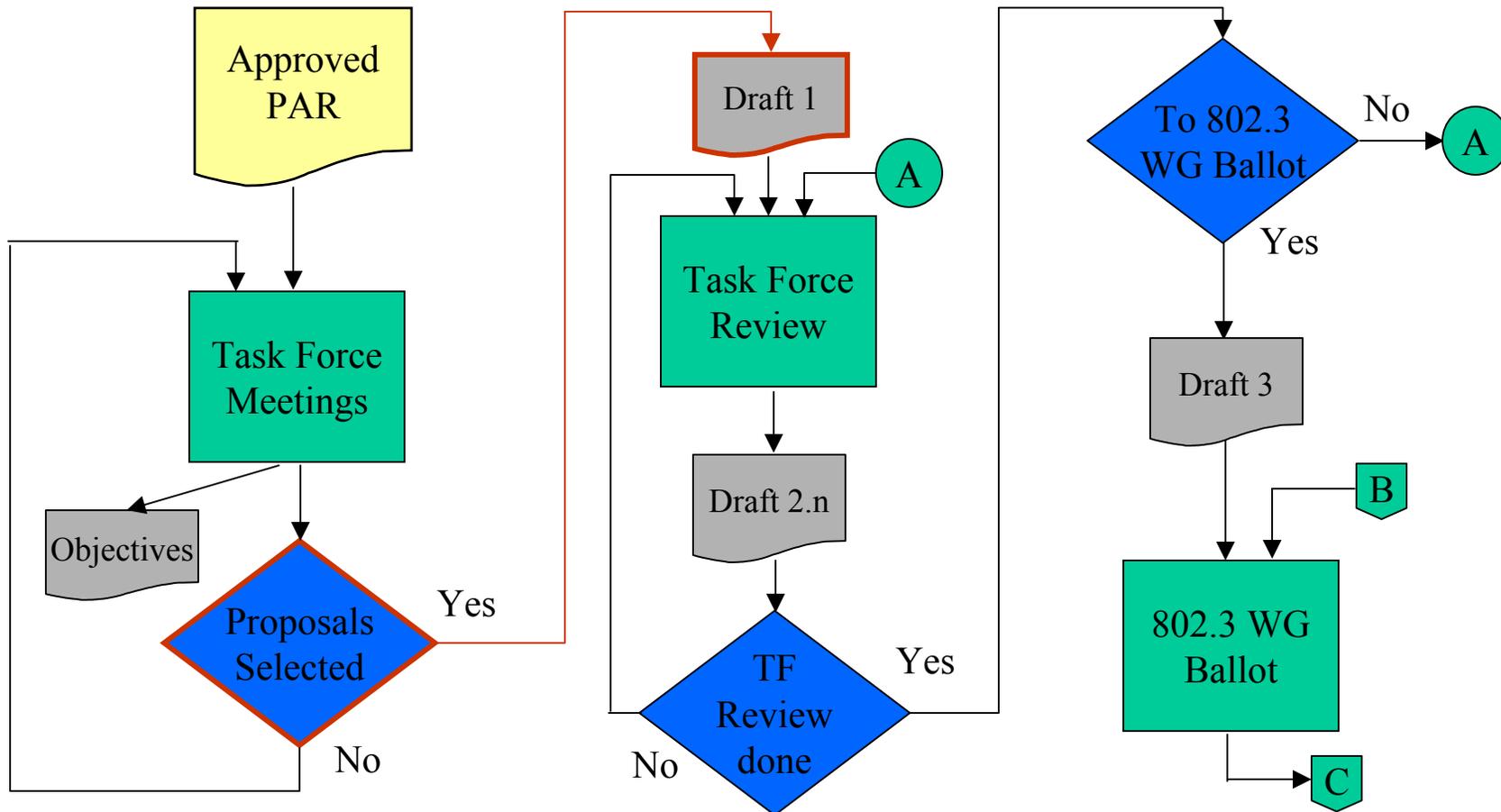


# IEEE standards process



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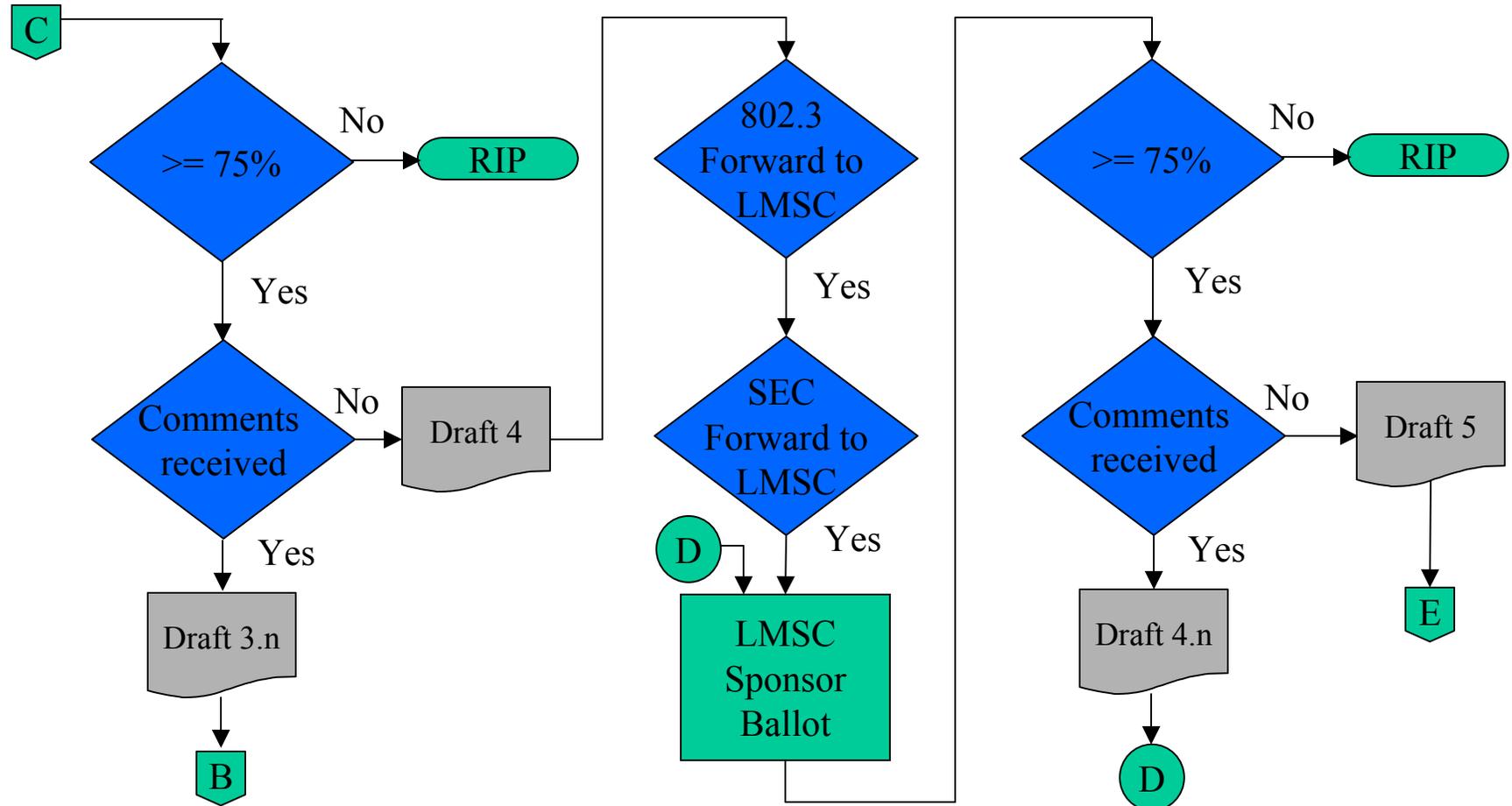
# IEEE standards process



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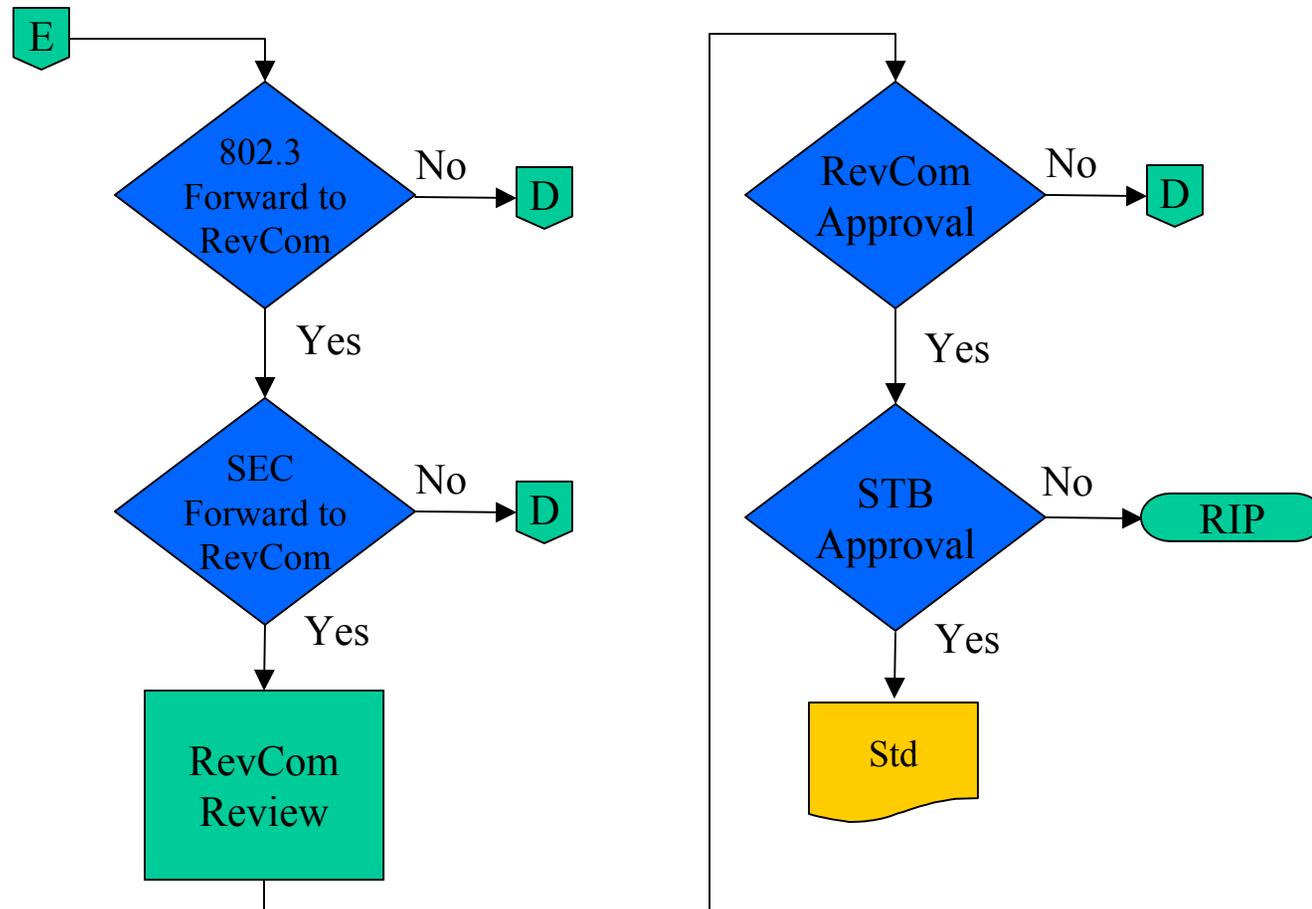
# IEEE standards process



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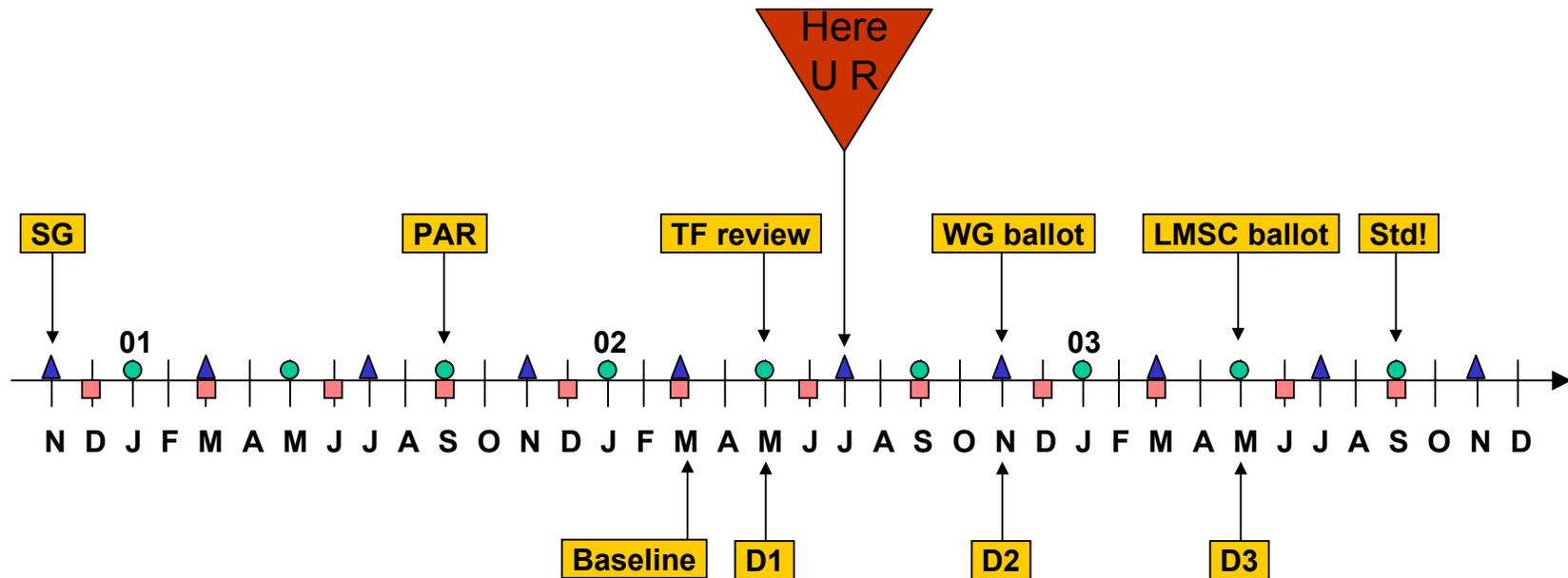
# IEEE standards process

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# Adopted timeline



**The schedule is at risk!**

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



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# Schedule risk

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- Our schedule is at risk of a substantial slip
- The causes for the slip are:
  - Proposed addition of security/encryption in P2MP
  - Proposed addition of FEC
  - Lack of concensus on copper baseline
  - Proposed additional functions in OAM
- We will attempt to resolve the first three causes in today's session
- We may need to revise the schedule, depending on the outcome of this week's meeting

# Reviewing the first draft

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- Our editors have produced P802.3ah/D0.9, using the baseline proposal motions we adopted in St. Louis and Edinburgh
- We will review these drafts line by line in the Sub Task Force breakout sessions on Tuesday
- Each STF needs to adopt, with a 75% majority vote, the D0.9 text as the basis for the next draft, *with changes as necessary*
- 802.3ah must ratify the STF motions on Thursday
- Our editors will produce P802.3ah/D1.0 after this meeting, and we will start the Task Force review process

# Liaison letters

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- Liaison letter received from ITU-T SG15 Q4
- Liaison letter received from TTC
- We should draft letters to T1E1.4 and ITU-T SG15 Q4 at this meeting



# Review of project objectives

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- Clarification of current copper rate/reach objective:
  - The 802.3ah task force has chosen an objective that specifies a symmetric MINIMUM bit rate at a particular link distance.
  - It would be perfectly valid to build and deploy equipment that provides an asymmetric service at that distance, provided that the minimum is met in each direction.
  - Similarly, it would be perfectly valid to build and deploy equipment that offers a different bit rate at a different link distance, provided that for all link distances less than the distance specified in the objective, the minimum bit rate is met in each direction.
  - The objective does not have to be met on all possible copper loops of the specified length, nor does it have to be met in the face of all possible impairments.



# Plan for the week

	SUN	MON	TUE				WED				THU
8:30											
9:00											
9:30			P2MP	Optics	OAM	Copper	P2MP	Optics	OAM	Copper	802.3ah
10:00			STF	STF	STF	STF	STF	STF	STF	EFM	
10:30			British	Columbia	Waddington	Vancouver Island	British	Columbia	Waddington	Vancouver Island	Task
11:00											Force
11:30											Closing
12:00			Lunch				Lunch				Lunch
12:30											Session
1:00											BC Ballroom
1:30	802.3ah	802.3									802.3
2:00	EFM	CSMA/CD									CSMA/CD
2:30	Task	Working Group	P2MP	Optics	OAM	Copper	P2MP	Optics	OAM	Copper	Working Group
3:00	Force	Opening Plenary	STF	STF	STF	STF	STF	STF	STF	STF	Closing Plenary
3:30	Interim	Meeting	British	Columbia	Waddington	Vancouver Island	British	Columbia	Waddington	Vancouver Island	Meeting
4:00	Meeting	Meeting									BC Ballroom
4:30	Vancouver Island	BC Ballroom									
5:00											
5:30											
6:00							Social				
6:30											
7:00											



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# Future meetings

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- **30 Sep - 3 Oct, New Orleans, LA - co-located with .1 and .17**  
*Hosted by the Ethernet in the First Mile Alliance*
- **10-15 Nov, 2002, Kauai, HI - IEEE 802 Plenary meeting**
- *Need host for January, 2003 meeting*



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