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# **IEEE 802.3ah**

# **Ethernet in the First Mile**

# **Task Force**

## **Agenda and General Information**

J. W. Marriott Seoul  
12-May-2003



**Ethernet in the First Mile**  
**IEEE 802.3ah Task Force**



# Agenda

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- **Welcome and introductions**
- **Objectives for this meeting**
- **Reflector and WWW site**
- **Call for Patents**
- **IEEE standards process**
- **Development schedule**
- **Reviewing draft IEEE P802.3ah™/D1.414**
- **Liaison letter(s)**
- **Sub Task Force reports with preview of Big Ticket Items**
- **Split into Sub Task Force meetings**
  - **P2MP**
  - **Optics**
  - **Copper**
  - **OAM**
- **Motion madness**
- **Future meetings**

# IEEE 802.3ah Officers

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- Howard Frazier, Chair, *millardo@dominetsystems.com*
- Hugh Barrass, Vice Chair, *hbarrass@cisco.com*
- Wael Diab, Editor in Chief, *wdiab@cisco.com*
- Behrooz Rezvani, Executive Secretary, *behrooz@ikanos.com*
- Scott Simon, Recording Secretary, *ssimon@cisco.com*
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- Vipul Bhatt, Optics Chair, *vipul\_bhatt@ieee.org*
- Matt Squire, OAM Chair, *mattsquire@acm.org*
- Barry O'Mahony, Copper Chair, *barry.omahony@intel.com*
- Ariel Maislos, P2MP Editor, *ariel.maislos@passave.com*
- Thomas Murphy, Optics Editor, *thomas.murphy@infineon.com*
- Kevin Daines, OAM Editor, *kevin.daines@worldwidepackets.com*
- Michael Beck, Copper Editor, *michael.beck@alcatel.be*

Affirmed by IEEE 802.3ah 6-January-2003

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# Objectives for this meeting

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- ❑ 60: Optics - BER for 100mbps, how to extrapolate
- ❑ 60: Jitter
- ❑ 66A: Temperature - fill in the #s
- ❑ 58, 59, 60: Test points for BiDi
- ❑ 58: Closed vs open loop timing
- ❑ 58: Jitter xfer

# Objectives for this meeting

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- ❑ 64: Theory of operation: discrepancies w/ state diagrams
- ❑ 65: Closed vs open loop timing
- ❑ 64: P2MP PMD timing parameter discovery
- ❑ 64, 65: PICS
- ❑ 65: Descriptive block diagrams inconsistent with state diagrams
- ❑ 30: Table of packages/capabilities
- ❑ 30A: Produce 30A

# Objectives for this meeting

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- ❑ 62B: Fill in performance annex
- ❑ 62B: Relationship of objective to performance guidelines annex
- ❑ 62: MCM, # tones, bits/tone, tone spacing
- ❑ 62: SCM, filter & equalizer characteristics
- ❑ 63: Extended bandwidth
- ❑ 61, 62, 63: PICS

# 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 our 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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# Reflector and web

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- We recently moved over to a new email server
  - Shorter delays
  - MUCH better UCE filters
  - Otherwise transparent to users
- We are doing everything we can to fight UCE
  - Volunteer efforts
  - Obscuring addresses in archives
  - Better filtering tools
  - Initial results are encouraging, but it's an uphill battle

# IEEE-SA Standards Board Bylaws on Patents in Standards

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## 6. Patents

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

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.



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# Inappropriate Topics for IEEE WG Meetings

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- 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 Patent Committee Administrator  
at [patcom@ieee.org](mailto:patcom@ieee.org)**

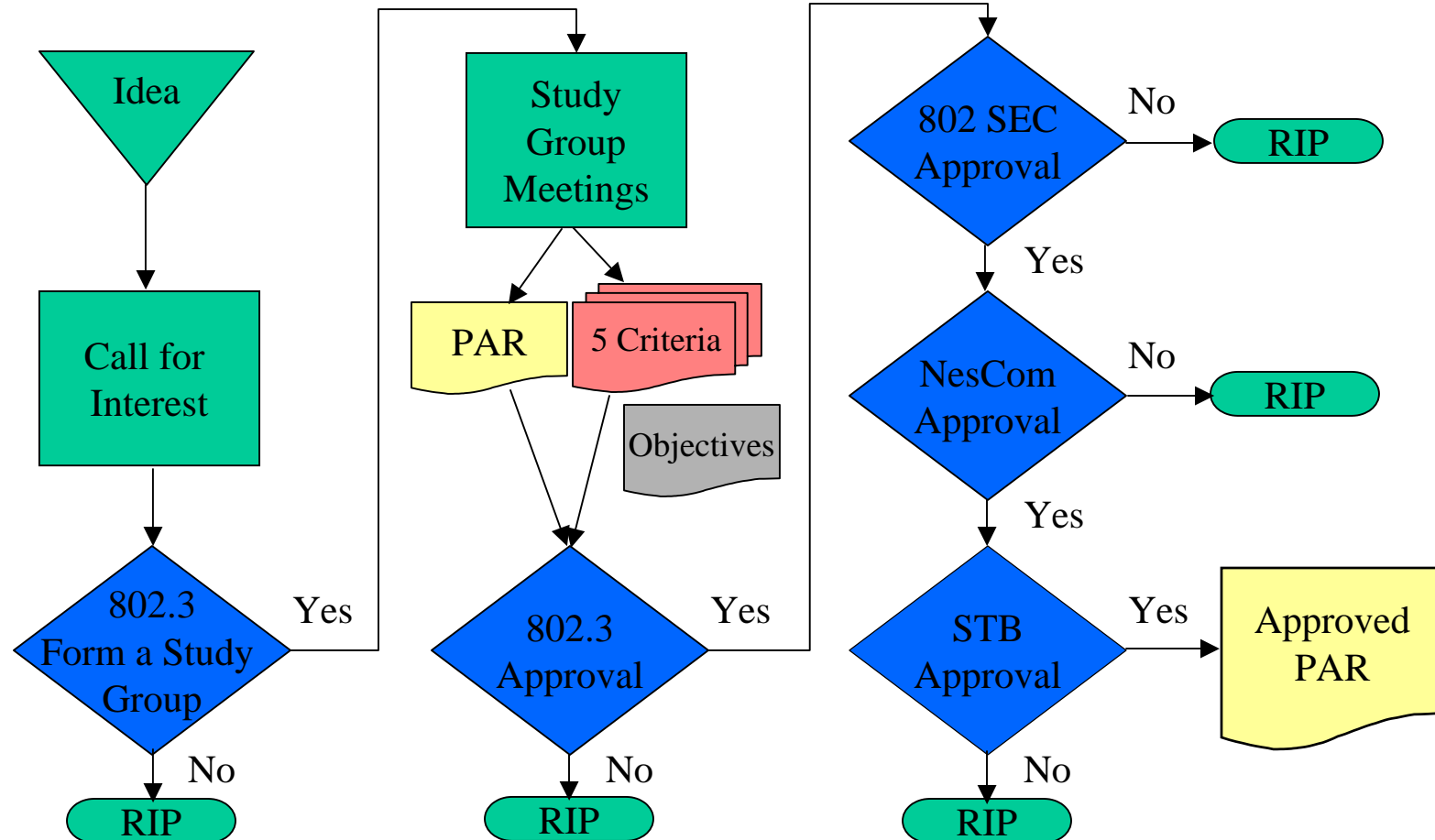


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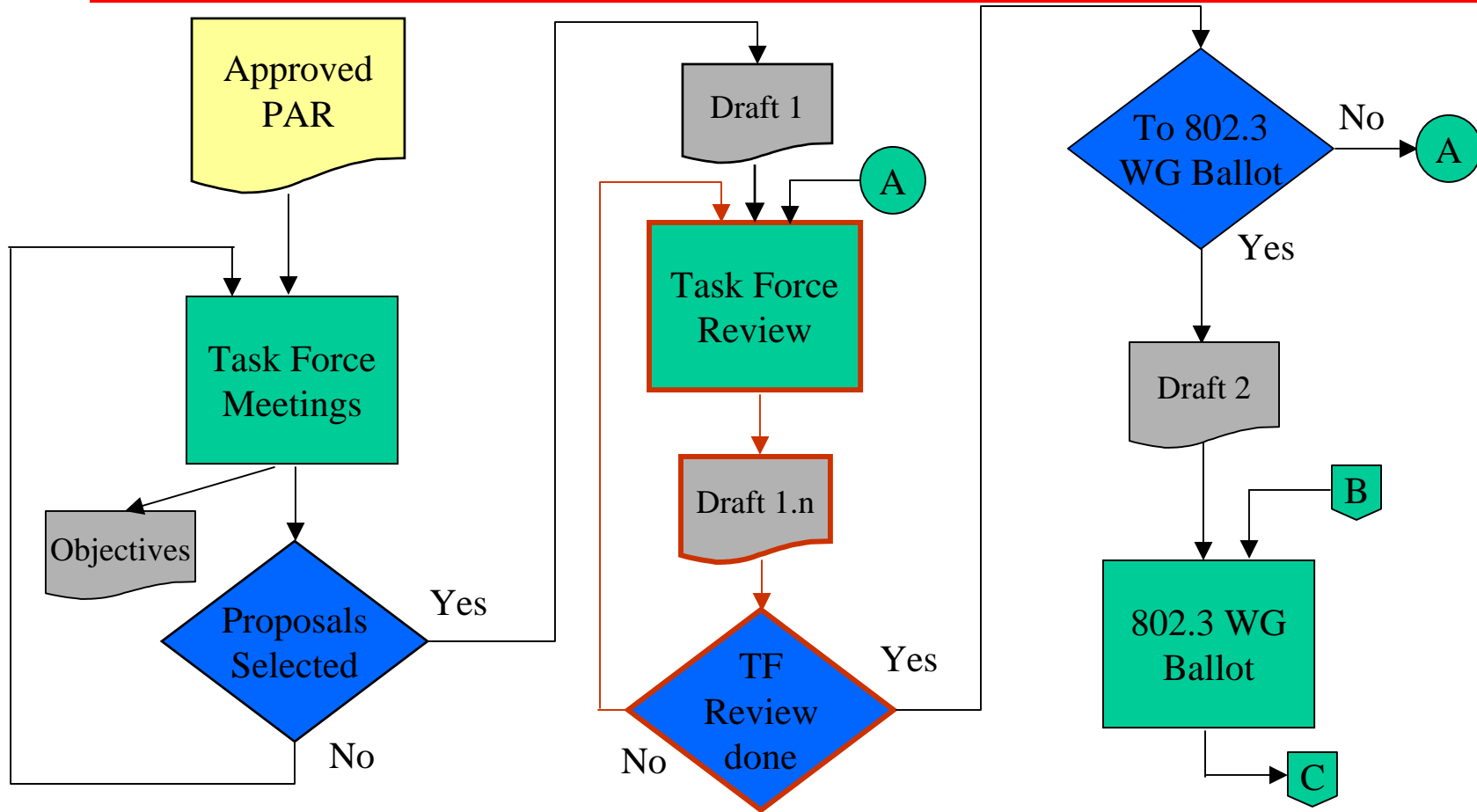
Approved by IEEE-SA Standards Board – December 2002

# IEEE standards process



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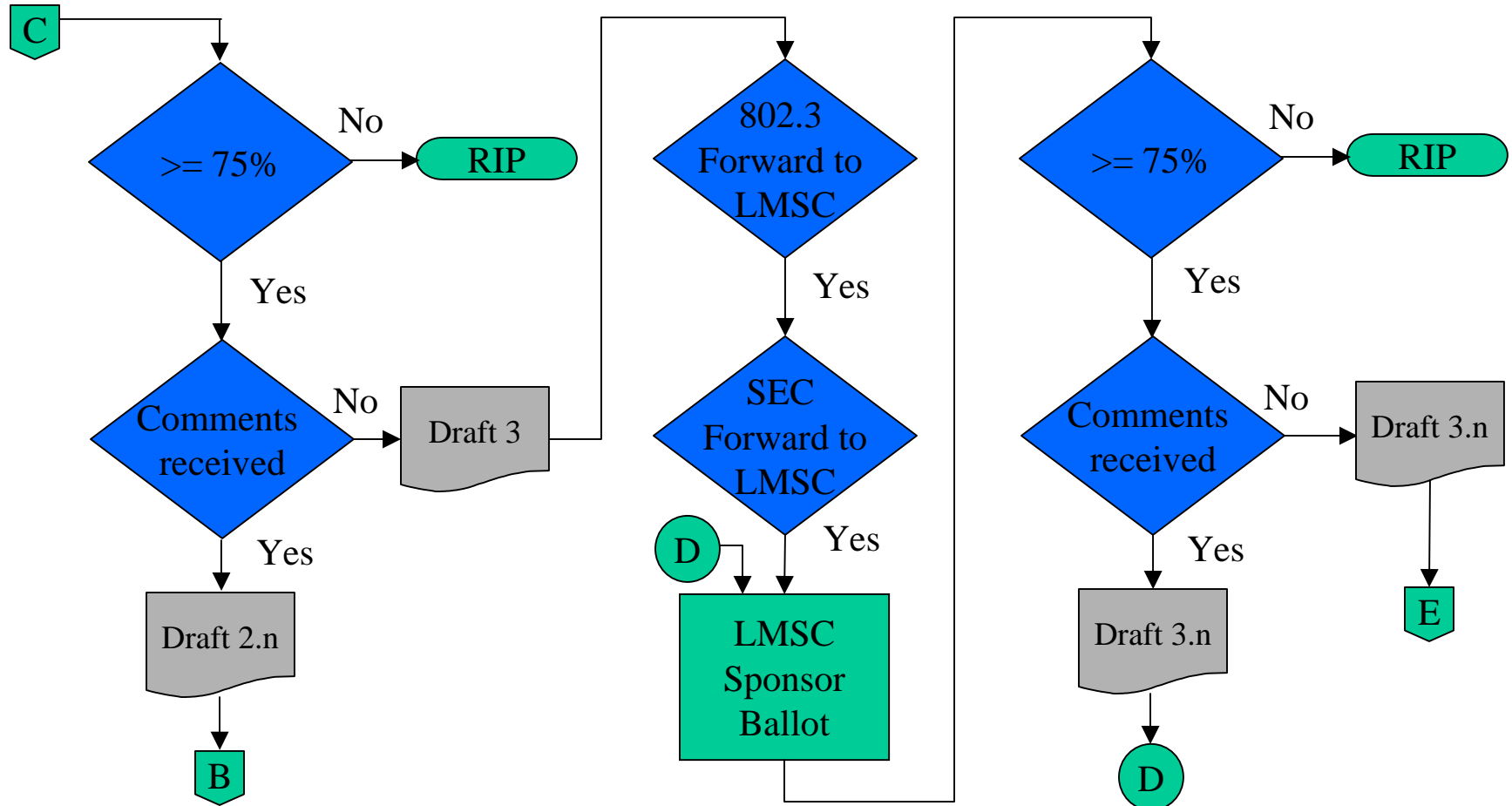
# IEEE standards process



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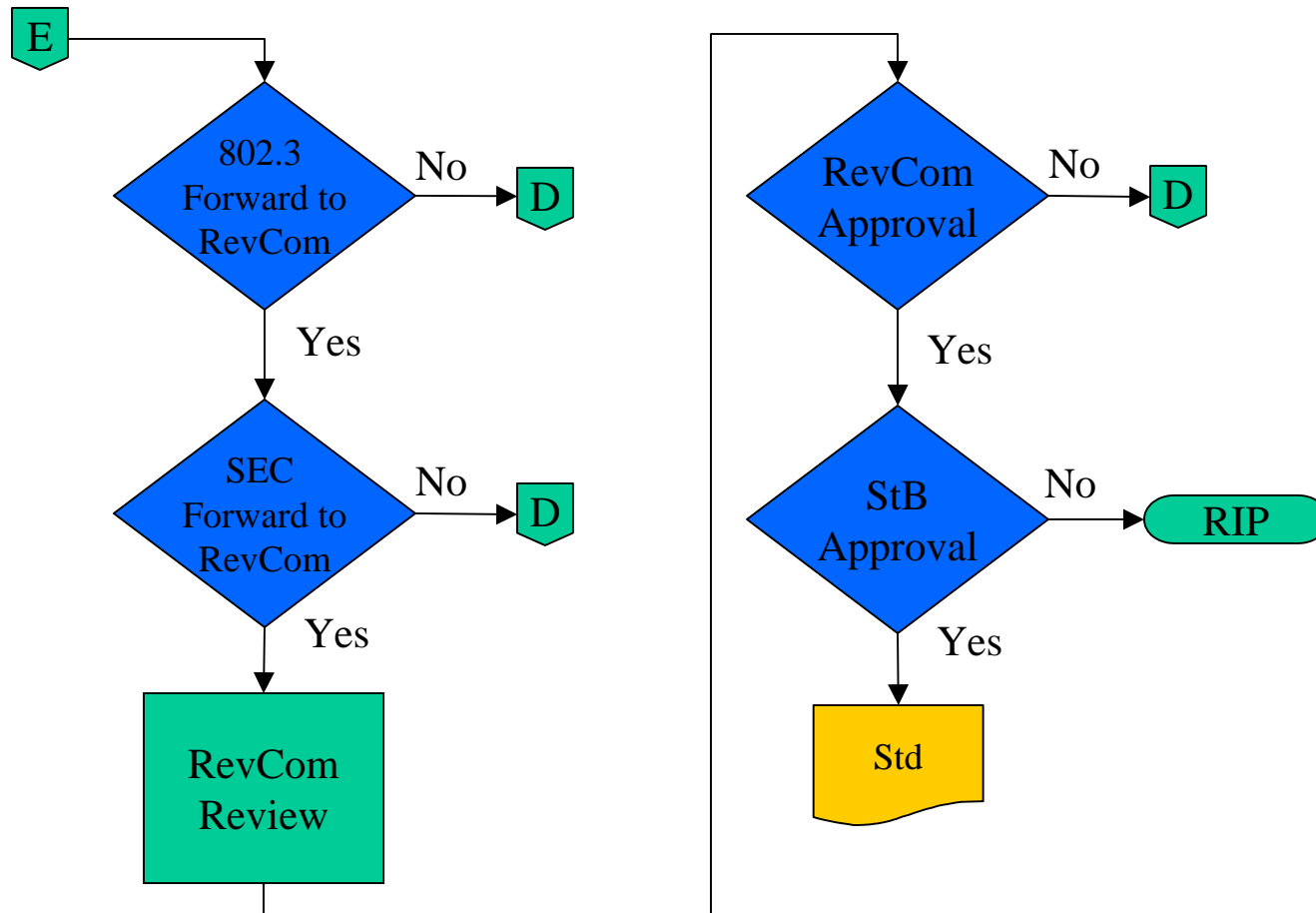
# IEEE standards process



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# IEEE standards process

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# Development schedule

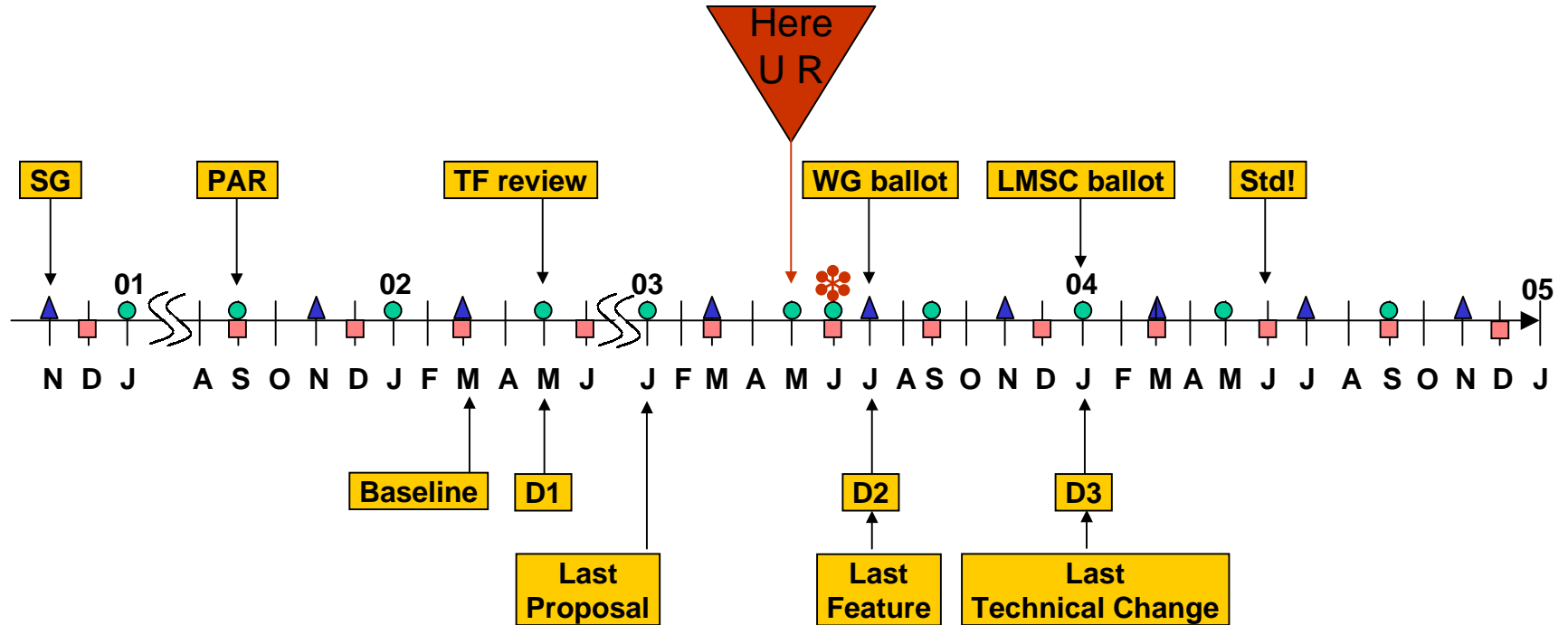
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- **We will stay on track IFF:**
  - **We resolve all of our TBDs and open issues at this meeting**
  - **We resolve all of our comments at this meeting**
  - **We make a 10PASS-T line code decision prior to seeking a WG ballot**





# Adopted timeline



-  T1E1 Decision
-  802 Plenary
-  802.3 Interim
-  IEEE-SA Standards Board

**Adopted by IEEE 802.3ah 9-January-2003**



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# Reviewing draft D1.414

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- Our editors have produced IEEE P802.3ah/D1.414 using D1.3 plus the comments that we resolved in Dallas
- The number of comments increased substantially between D1.3 and D1.414 (a good thing)
- We must craft and adopt a response to each comment
- Our editors will produce IEEE P802.3ah/D1.732 after this meeting, based on the comment responses
- We will continue the Task Force review process
- We must be ready for WG ballot in July



# Liaison letters

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- Letter received from T1M1



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# Plan for the week

	MON	TUE				WED				THU			
8:00	<b>802.3ah EFM Task Force Opening Session Grand Ballroom A</b>	P2MP (EPON) 1-A	Optics 1-C	OAM 3-B	Copper 1-B	P2MP (EPON) 1-A	Optics 1-C	OAM 3-B	Copper 1-B	<b>802.3ah EFM Task Force Closing Session Meeting Room 1-2-3</b>			
8:30													
9:00													
9:30													
10:00													
10:30	Lunch (provided)												
11:00	P2MP (EPON) 1-A	Optics 1-C	OAM 3-B	Copper 1-B	P2MP (EPON) 1-A	Optics 1-C	OAM 3-B	Copper 1-B	P2MP (EPON) 1-A	Optics 1-C	OAM 3-B	Copper 1-B	<b>802.3ah EFM Task Force Closing Session Meeting Room 1-2-3</b>
11:30													
12:00													
12:30													
1:00													
1:30	Lunch (provided)												
2:00	P2MP (EPON) 1-A	Optics 1-C	OAM 3-B	Copper 1-B	P2MP (EPON) 1-A	Optics 1-C	OAM 3-B	Copper 1-B	P2MP (EPON) 1-A	Optics 1-C	OAM 3-B	Copper 1-B	<b>802.3ah EFM Task Force Closing Session Meeting Room 1-2-3</b>
2:30													
3:00													
3:30													
4:00													
4:30	Lunch (provided)												
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# Future meetings

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- **24-25 June, 2003, Ottawa, hosted by Nortel**
- **21-24 July, 2003, San Francisco, CA - IEEE 802 Plenary**
- **15-18 Sep, 2003, Ancona, Italy, hosted by Aethra**
- **10-13 Nov, 2003, Albuquerque, NM - IEEE 802 Plenary**
- ***need host for January, 2004 interim meeting***