

# IEEE P802.3ap Task Force

## Opening Plenary Meeting Report

Vancouver, BC

November 14, 2005



# Task Force Organization

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- Task Force Chair
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- Task Force Secretary
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- Channel Model Ad Hoc Chair
  - Charles Moore ([charles\\_moore@agilent.com](mailto:charles_moore@agilent.com))



# Editorial Team

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- Front matter, clauses 1–44, 70, and 71
  - Schelto van Doorn, Intel
- Clause 45
  - Arthur Marris, Cadence
- Clause 69 and Annex 69A
  - Adam Healey, Agere Systems
  - Charles Moore, Agilent
- Clause 72
  - Tom Palkert, Xilinx
- Clause 73 and Annex 73A
  - Pat Thaler, Agilent
- Thanks to all volunteers and contributors...



# Reflector and Web

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- To subscribe to the IEEE P802.3ap Backplane Ethernet Task Force reflector send an email to:  
[listserv@ieee.org](mailto:listserv@ieee.org)

with the following in the body of the message (do not include “<>”):  
*[subscribe stds-802-3-blade <yourfirstname> <yourlastname>](#)*

For complete instructions on reflector usage, subscription, and unsubscription:

<http://ieee802.org/3/ap/reflector.html>

- IEEE P802.3ap Task Force web page:  
<http://www.ieee802.org/3/ap/>
- Channel Model Ad Hoc web page:  
[http://www.ieee802.org/3/ap/public/channel\\_adhoc](http://www.ieee802.org/3/ap/public/channel_adhoc)
- Signaling Ad Hoc web page:  
[http://www.ieee802.org/3/ap/public/signal\\_adhoc](http://www.ieee802.org/3/ap/public/signal_adhoc)



# IEEE P802.3ap Draft Repository

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- IEEE P802.3ap Private Area:

- <http://ieee802.org/3/ap/private/index.html>

- Username: ■ ■ ■ ■ ■ ■

- Password: ■ ■ ■ ■ ■ ■

- The username and password are case-sensitive.  
Write them down...



# IEEE P802.3ap Task Force Documents

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- Approved PAR

<http://standards.ieee.org/board/nes/projects/802-3ap.pdf>

- 5 Criteria

[http://ieee802.org/3/ap/802\\_3\\_ap\\_5criteria.pdf](http://ieee802.org/3/ap/802_3_ap_5criteria.pdf)

- Objectives

[http://ieee802.org/3/ap/802\\_3\\_ap\\_objectives.pdf](http://ieee802.org/3/ap/802_3_ap_objectives.pdf)



# IEEE P802.3ap Objectives

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- **Preserve the 802.3/Ethernet frame format at the MAC Client service interface.**
- **Preserve min. and max. frame size of current 802.3 Std.**
- **Support existing media independent interfaces.**
- **Support operation over a single lane across 2 connectors over copper traces on improved FR-4 for links consistent with lengths up to at least 1m.**
  - **Define a 1 Gb/s PHY**
  - **Define a 10 Gb/s PHY**
- **Define a 4-lane 10Gb/s PHY for operation over the 802.3ap channel model.**
- **Consider auto-negotiation.**
- **Support BER of  $10^{-12}$  or better.**
- **Meet CISPR/FCC Class A.**



# Interim Meetings

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- September 16-18, Nashua, NH
  - Hosted by Texas Instruments
- November 13 and 14, Vancouver, BC
  - Co-located with and adjacent to this week's plenary
- Resolution of comments against Draft 2.0
  - Work on-going...





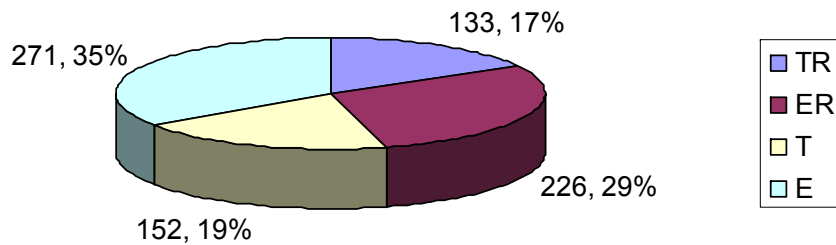
# Draft 2.0 Ballot Results

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VOTERS	200
APPROVE	72
DISAPPROVE	30
ABSTAIN	26
RETURNS	128
RESPONSE RATE	64.00%
APPROVAL RATE	70.59%
ABSTENTION RATE	20.31%

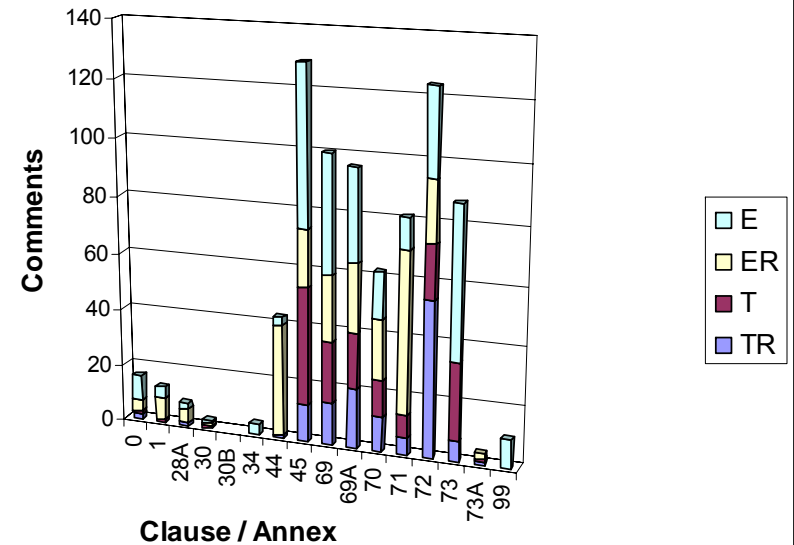
# Draft 2.0 Comment Report

Draft 2.0 Comment Distribution by Type



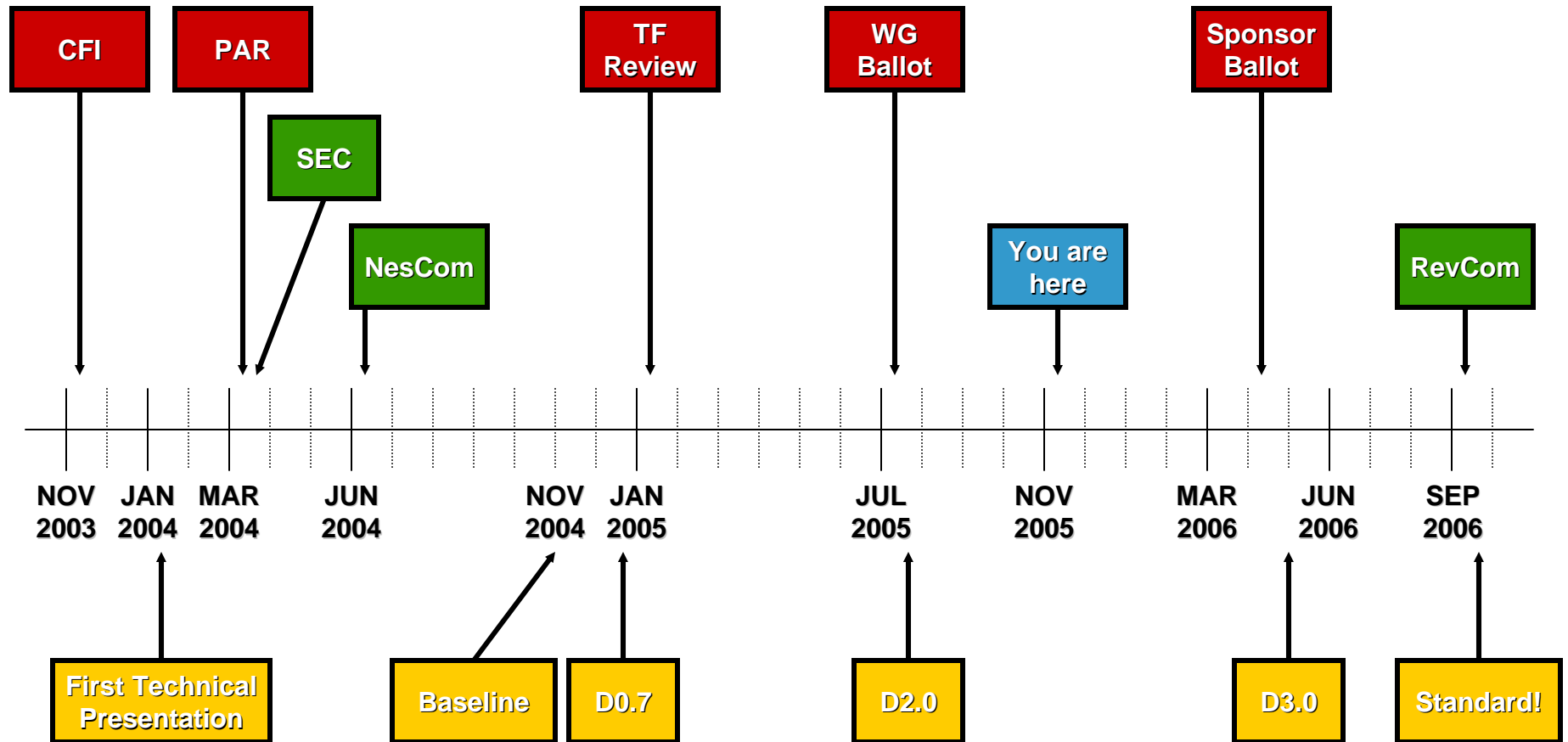
782 Total Comments

Draft 2.0 Comment Distribution by Clause

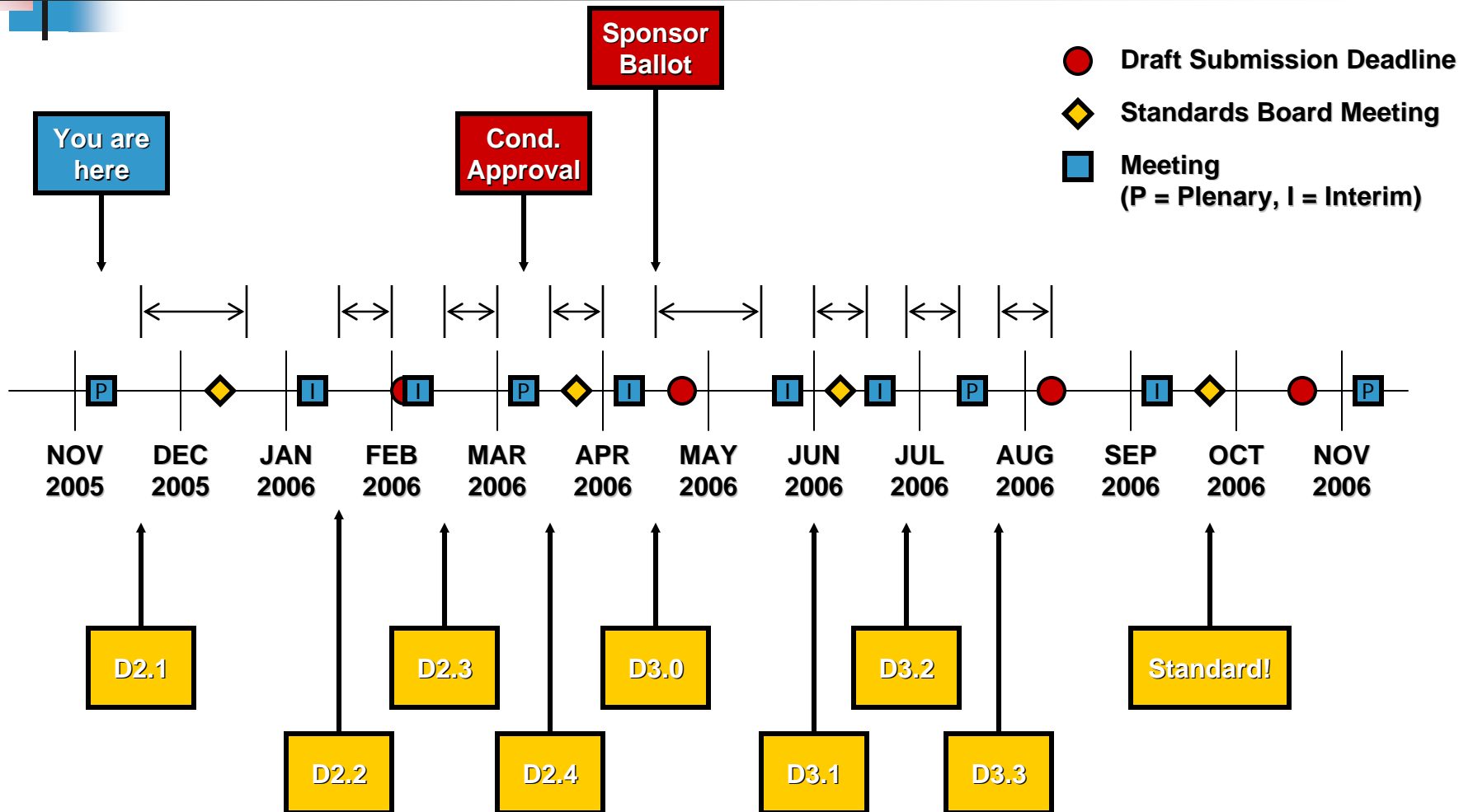


58  
~~128~~ T and TR comments to be resolved

# Proposed Timeline



# Timeline Detail





# Goals for this Meeting

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- Resolve all remaining comments against IEEE P802.3ap Draft 2.0.
- Approve generation and recirculation of Draft 2.1
- “Big Ticket Items”
  - Forward error correction for 10GBASE-KR
  - DFE Error Propagation (supplemental CRC-8 protection) for 10GBASE-KR
  - Interference tolerance test procedure



Thank you!