



# IEEE P802.3ap Task Force

## Closing Plenary Meeting Report

San Francisco, CA

July 21, 2005



# Task Force Organization

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- Channel Model Ad Hoc Chair
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# 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: 802.3ap
    - Password: XXXXXX

- Write it 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.**



# Goals for this Meeting

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- Resolve comments against IEEE P802.3ap Draft 1.0.
- Prepare draft for Working Group ballot.



# Meeting Snapshot

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- Resolved 60 comments against Draft 1.0
  - 27 Technical and Technical Required
  - 1 additional technical comment received during the meeting
- Generated Draft 2.0
- Request circulation of Draft 2.0 for Working Group Ballot





# TF Motions

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- Use Draft 1.0 and the resolution of comments against Draft 1.0 to generate Draft 2.0.
  - M: Spagna, S: Lerer, Y: 33, N: 0, A: 0 [PASSES]
- Move that the Task Force request that 802.3 circulate IEEE P802.3ap Draft 2.0 for 802.3 Working Group Ballot and comment, and conduct recirculations as necessary.
  - M: D'Ambrosia, S: Palkert, Y: 37, N: 0, A: 0 [PASSES]



## Draft 1.0 to Draft 2.0 (1/3)

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- Editorial clean-up, several figures re-drawn
- Synchronized PICS (Clauses 70 to 73)
- Clause 45 (Management)
  - Removed management support 10GBASE-KR transmit equalizer coefficients +2 through +5 (only -1 through +1 defined); allocated vendor-specific bits
  - Added PICS
- Clause 69 (Overview)
  - Editorial re-work of 69.3 (sub-clauses re-organized for improved flow)
  - Corrected equations in 69.3
- Annex 69A (Interference tolerance test procedure)
  - Corrected frequency dependent attenuator limit equation



## Draft 1.0 to Draft 2.0 (2/3)

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- Clause 70 (1000BASE-KX)
  - Changed upper limit for common-mode voltage to 1.9 V
  - Removed differential sensitivity specification (redundant with interference tolerance specification)
- Clause 71 (10GBASE-KX4)
  - No technical changes
- Clause 72 (10GBASE-KR)
  - Removed start-up protocol support 10GBASE-KR transmit equalizer coefficients +2 through +5 (only -1 through +1 defined); allocated vendor-specific bits



# Draft 1.0 to Draft 2.0 (3/3)

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- Clause 73 (Auto-Negotiation)
  - Modified electrical specifications
  - Updated Table 73-7 with clock\_detect\_min/max and data\_detect\_min/max timers
  - Modified Arbitration State Diagram to limit nonce transmission to base pages

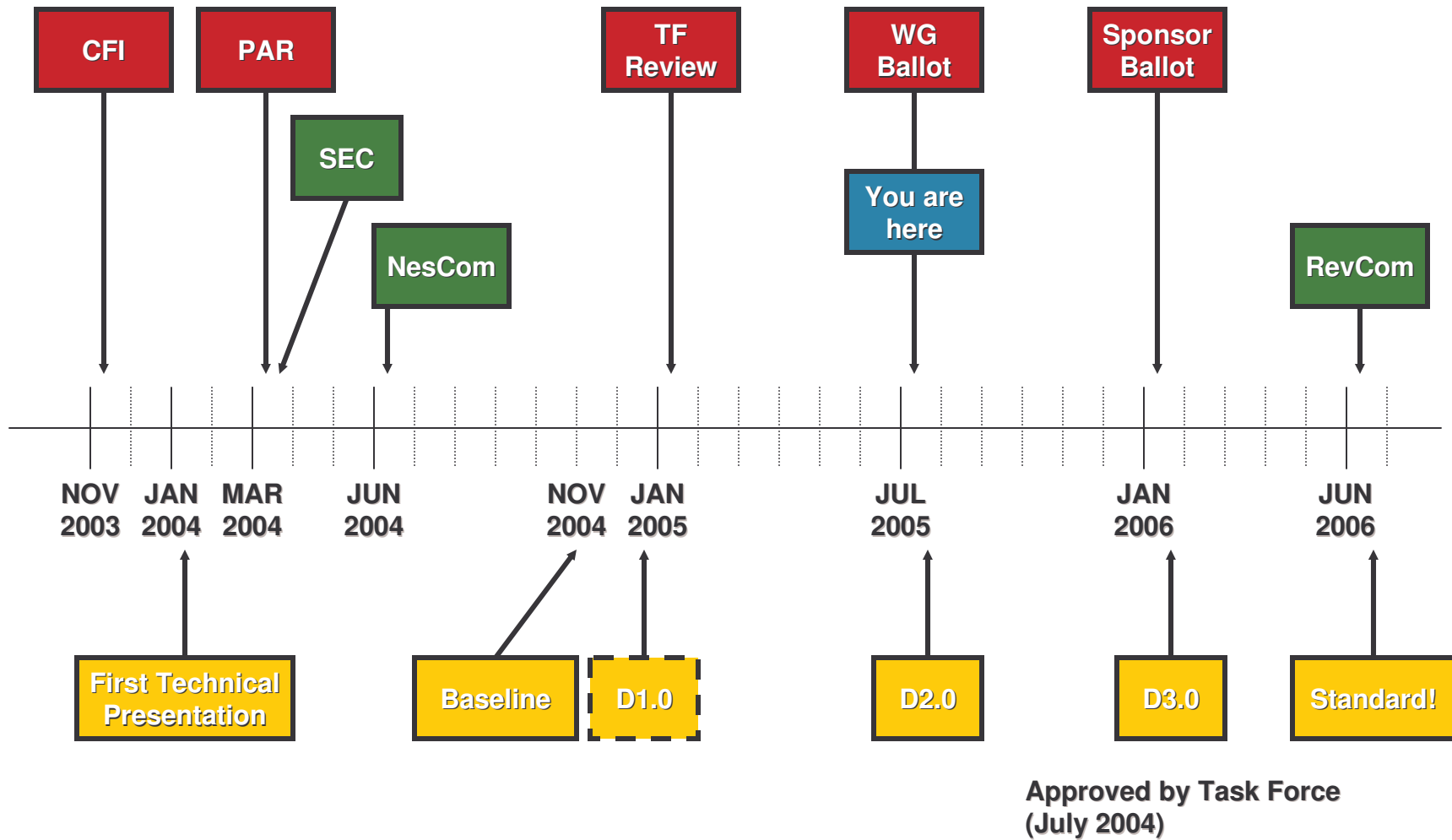


# Motion

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- Move that 802.3 circulate IEEE P802.3ap Draft 2.0 for 802.3 Working Group ballot, and authorize the IEEE P802.3ap Task Force to respond to ballot comments and conduct recirculations as necessary.
  - Moved: Adam Healey on behalf of the Task Force
  - Y: 84, N: 0, A: 6
  - Motion Passes

# IEEE P802.3ap Timeline





# Future Meetings

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- September 2005 Interim
  - Date: Week of September 12
  - Location: Nashua, NH
  
- November 2005 Plenary
  - Date: November 13-18
  - Location: Hyatt Regency Vancouver, BC, Canada



Thank You!