

## IEEE P802.3ap Task Force

**Closing Plenary Meeting Report** 

San Francisco, CA July 21, 2005



### Task Force Organization

- Task Force Chair
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- Task Force Secretary
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- Chief Editor
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- Channel Model Ad Hoc Chair
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#### Reflector and Web

To subscribe to the IEEE P802.3ap Backplane Ethernet Task Force reflector send an email to:

listserv@ieee.org

with the following in the <u>body of the message</u> (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: <a href="http://www.ieee802.org/3/ap/">http://www.ieee802.org/3/ap/</a>
- Channel Model Ad Hoc web page:
  http://www.ieee802.org/3/ap/public/channel adhoc
- Signaling Ad Hoc web page: <a href="http://www.ieee802.org/3/ap/public/signal\_adhoc">http://www.ieee802.org/3/ap/public/signal\_adhoc</a>



# IEEE P802.3ap Draft Repository

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

Approved PAR

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

5 Criteria

http://ieee802.org/3/ap/802\_3\_ap\_5criteria.pdf

Objectives

http://ieee802.org/3/ap/802\_3\_ap\_objectives.pdf



- 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.



Resolve comments against IEEE P802.3ap Draft 1.0.

Prepare draft for Working Group ballot.

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### Meeting Snapshot

- 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



- 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)

- 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)

- 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



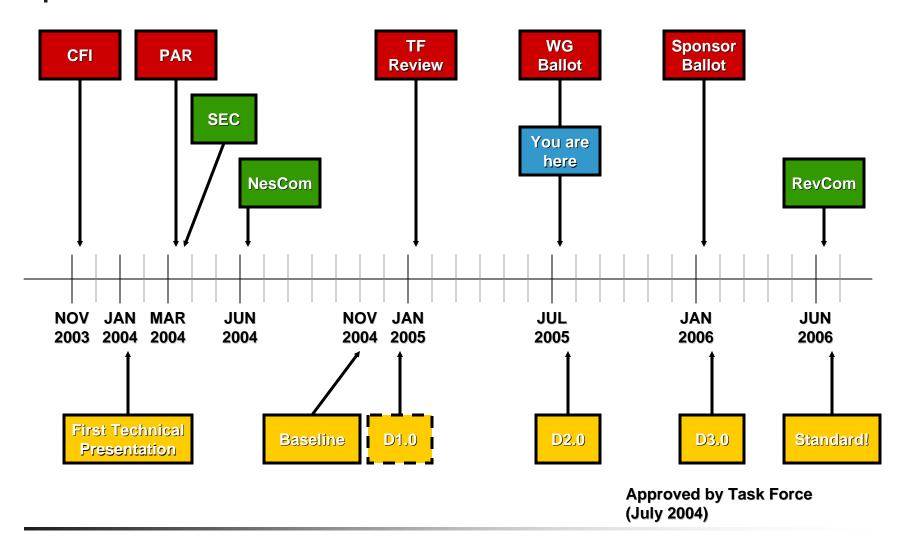
## Draft 1.0 to Draft 2.0 (3/3)

- 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



- 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





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!