IEEE P802.3ap Task Force

Closing Plenary Meeting Report

Vancouver, BC

November 17, 2005

Adam Healey, Task Force Chair

(*ahealey@agere.com*)

Task Force Organization

- ## Task Force Chair

  - Adam Healey (*ahealey@agere.com*)

- ## Task Force Secretary

  - John D'Ambrosia (*john.dambrosia@tycoelectronics.com*)

- ## Chief Editor

  - Schelto van Doorn (*schelto.vandoorn@intel.com*)

- ## Channel Model Ad Hoc Chair

  - Charles Moore (*charles_moore@agilent.com*)

Editorial Team

- 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

- 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:

  http://www.ieee802.org/3/ap/

- Channel Model Ad Hoc web page:

  http://www.ieee802.org/3/ap/public/channel_adhoc

- Signaling Ad Hoc web page:

  http://www.ieee802.org/3/ap/public/signal_adhoc

IEEE P802.3ap Draft Repository

- 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

- 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

IEEE P802.3ap Objectives

- **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

- 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

Meeting Snapshot

- Resolved all comments against Draft 2.0

- Generate and re-circulate Draft 2.1

- DFE error propagation analysis
  - Most recent studies indicate MTTFPA is acceptable

- Forward Error Correction added as an option for 10GBASE-KR
  - Capability to be advertised via Auto-Negotiation

- Tuning of informative channel model and interference tolerance test procedure

TF Motions

- Move that:
  - The Task Force grant editorial license to the P802.3ap editors to respond to unresolved editorial comments on D2.0
  - Draft 2.0 and the resolution of comments against Draft 2.0 be used as the basis for the generation of Draft 2.1
  - The Task Force recirculate Draft 2.1

  M: Moore, S: Szczepanek, Y: 22, N: 0, A: 2

  [PASSES]

Draft 2.0 Ballot Update
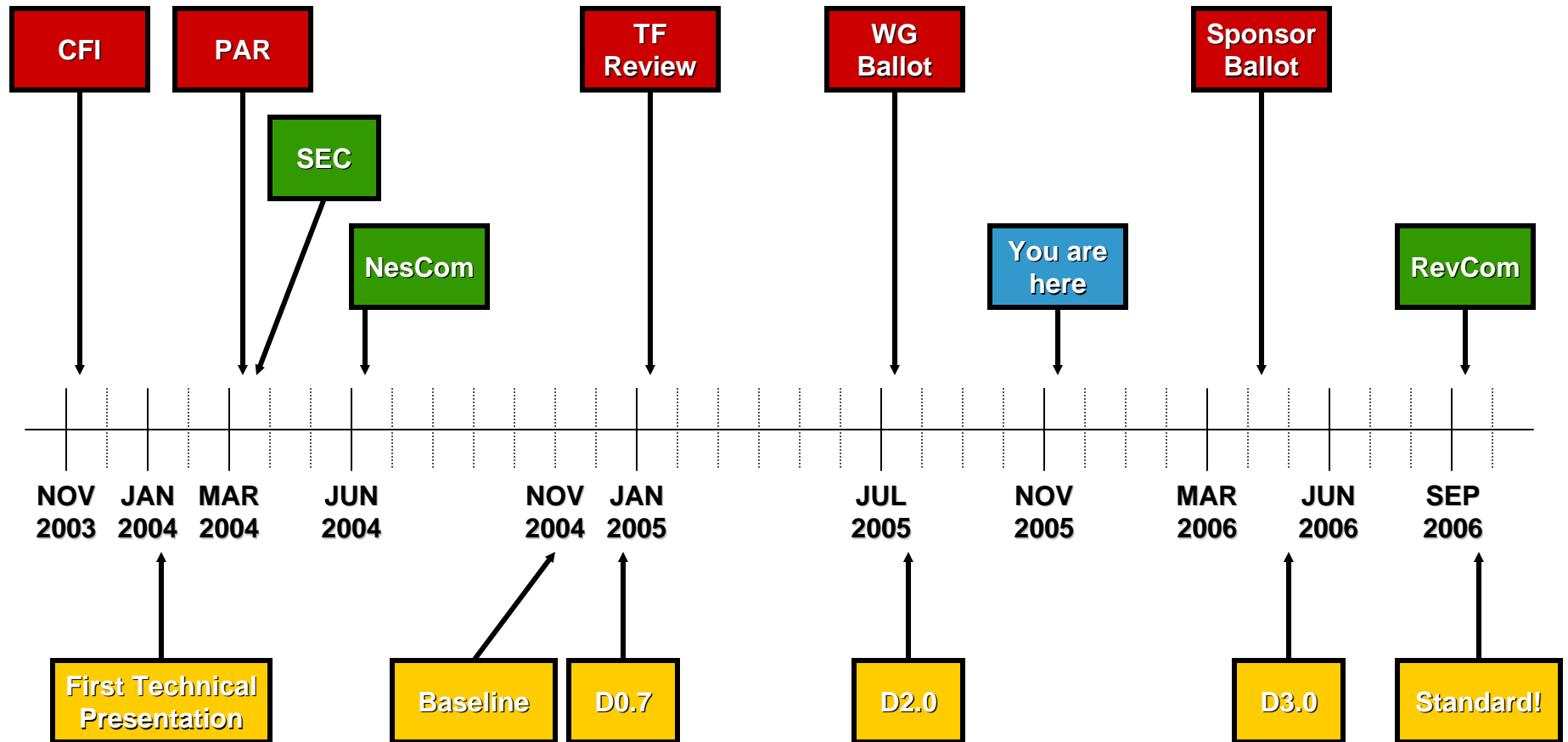
November 14, 2005

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

November 17, 2005

VOTERS	200
APPROVE	80
DISAPPROVE	22
ABSTAIN	26
RETURNS	128
RESPONSE RATE	**64.00%**
APPROVAL RATE	**78.43%**
ABSTENTION RATE	**20.31%**

Proposed Timeline

CFI	PAR

SEC

TF Review

WG Ballot

Sponsor Ballot

NesCom

You are here

RevCom

NOV 2003	JAN 2004	MAR 2004	JUN 2004	NOV 2004	JAN 2005	JUL 2005	NOV 2005	MAR 2006	JUN 2006	SEP 2006		

First Technical Presentation

Baseline

D0.7

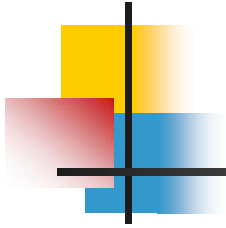D2.0

D3.0

Standard!

Timeline Detail
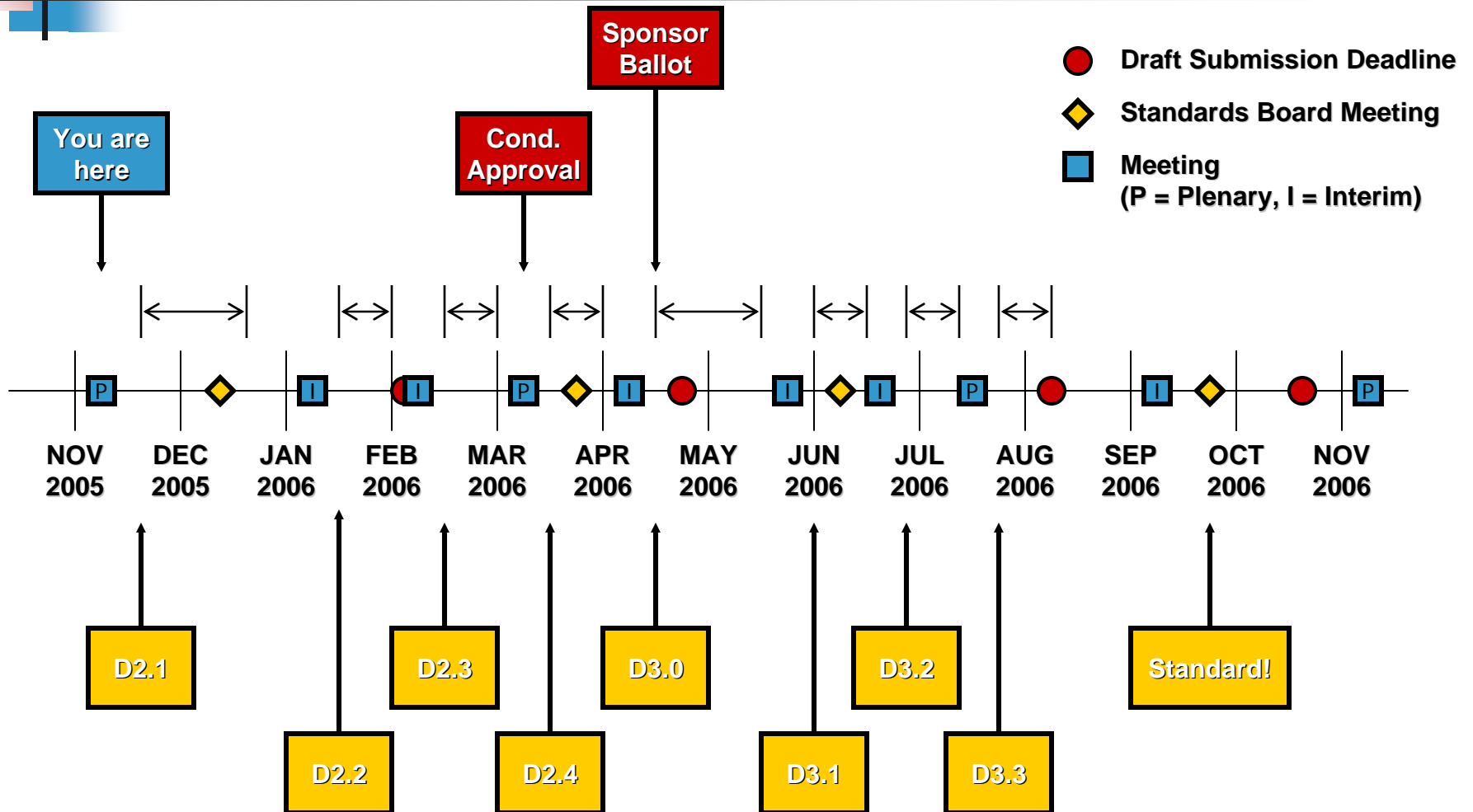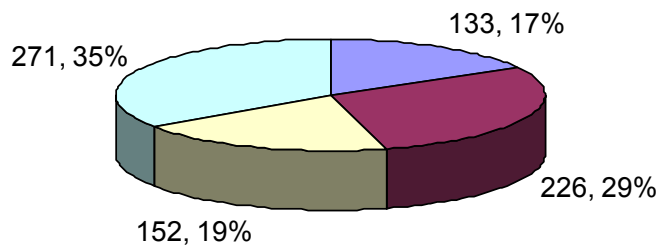
Future Meetings

- ## January 2006 Interim
  - Date: TBD
  - Location: TBD

- ## February 2006 Interim
  - Target Date: February 2 and 3
  - Location: TBD

- ## March 2006 Plenary
  - Date: March 5-10
  - Location: Hyatt Regency Denver, Denver, CO

Thank You!

Draft 2.0 Comment Report

Draft 2.0 Comment Distribution by Type

271, 35%

133, 17%

226, 29%

152, 19%

Legend:
- TR
- ER
- T
- E

782 Total Comments

Draft 2.0 Comment Distribution by Clause

Comments (y-axis: 0, 20, 40, 60, 80, 100, 120, 140)

Clause / Annex (x-axis: 0, 1, 28A, 30, 30B, 34, 44, 45, 69, 69A, 70, 71, 72, 73, 73A, 99)

Legend:
- E
- ER
- T
- TR