802.3 Opening Report

IEEE 802.3
Next Generation
100Gb/s Optical Ethernet Study Group

Dan Dove

Applied Micro

Waikoloa, Hawaii – 12, March 2012

Overview (pg 1)

- ## January Interim Meeting highlights
  - 116 People signed the attendance sheet
  - 28 Presentations from various contributors
  - 2 days of meetings
  - Received Liaison from OIF re: OIF-28G-VSR
- ## Straw Polls
  - 10 straw polls for attendance were performed
    - Available on our website (Sept Mtg Minutes)
- ## Motions

Define re-timed 4-lane 100G PMA to PMA Electrical Interfaces For Chip To Chip and Chip To Module applications

Moved: Tom Palkert

Second:Andre Szczepanek

Y:90

N:1

A:7

Overview (pg 2)

- March Co-Located Interim with P802.3bj Meeting highlights
  - 99 People signed the attendance sheet
  - 6 Presentations from various contributors
  - 1/2 day meeting
- Straw Polls
  - 1 straw poll was performed

    "I would support the adoption of an MDI for copper cables as per tracy_01_0312.pdf"

    Yes: 36

    No: 4

    Room count: 90
- Motions
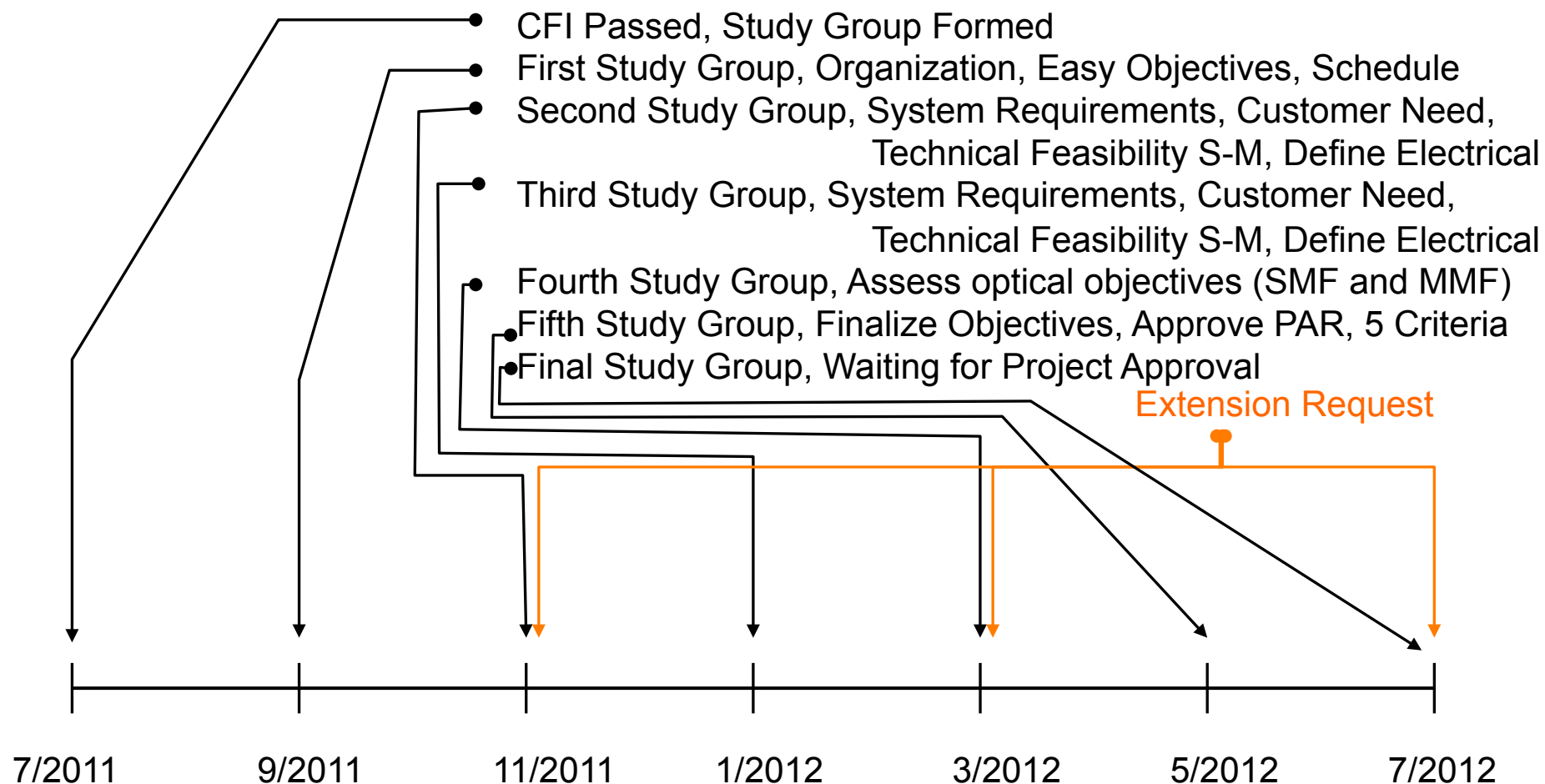 - No motions related to objectives were made

Overview (pg 3)

- MMF adhoc met (teleconferences) and minutes posted
- SMF adhoc met (teleconferences) and minutes posted

Review Goals for this week's meeting

- Continue Study to establish optical objectives
  - MMF interface?
  - SMF interface?

Timeframes (strawman)

CFI Passed, Study Group Formed

First Study Group, Organization, Easy Objectives, Schedule

Second Study Group, System Requirements, Customer Need,
Technical Feasibility S-M, Define Electrical

Third Study Group, System Requirements, Customer Need,
Technical Feasibility S-M, Define Electrical

Fourth Study Group, Assess optical objectives (SMF and MMF)

Fifth Study Group, Finalize Objectives, Approve PAR, 5 Criteria

Final Study Group, Waiting for Project Approval

Extension Request

7/2011   9/2011   11/2011   1/2012   3/2012   5/2012   7/2012

Areas To Be Addressed

- System PCA Reach Requirements

- Connector/MSA implications on link budget

- Un-retimed, Retimed, Both

- Multi-Mode Solution (customer requirements vs technical cost/ complexity)

- Alternative Single-Mode technology (performance/cost /power/density)

- Liaisons (IC for OIF)(ITU)

- FEC
    - Optional or Required?
    - Compatibility with 802.3bj

- Equalization

- Compatible Interface with p802.3bj

Meeting Info

We are meeting the following days/times/location

8:30am – 5:30pm Tuesday, Queens 5

8:30am – 5:30pm Wednesday, Queens 5

8:30am – 12pm Thursday, Queens 5

See the website for presentations and minutes

http://www.ieee802.org/3/100GNGOPTX/public/index.html

Thank You!