IEEE P802.3av
«10GEPON»
Task Force

Opening Report to IEEE 802.3 WG

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September TF Meeting Report

• 10G EPON TF had a 2-day meeting in Knoxville, TN
• 42 people attended
• Reviewed 15 presentations
• Didn’t make any technical motions
• Formed 2 ah hoc committees
  – Wavelength Plan and Power Budget
  – High-Split Ratio 10GEAPON
Ad Hoc on Wavelength Plan / Power Budgets

- Chair: Shane Eleniak from Alloptic
- Current task is to produce a survey document for carriers
- Identified 42 operators (Telco and MSO) to contact
- Survey draft is semi-stable. Expecting to finalize this week
- Must have responses by January meeting
Ad Hoc on High-Split Ratio 10GEPON

• Chair: Marek Hajduczenia from Siemens
• 4 Tasks:
  1. Insertion loss introduced by ODN with 1x64 split and 1x128 split
  2. Operator’s required margins (component aging, repair, penalties)
  3. Non-linear effects limiting the launch power
  4. Available Tx/Rx technologies to meet required power budget
• Contributions from Siemens, NTT, KDDI, ETRI, Corning
Plan for November Meeting

• Review 19 presentations
• Finalize Survey Draft
  – Also approve timeline for contacting carriers and processing the responses
• Discuss feasibility of high-split configuration
• Discuss options for asymmetric rates

• Big thanks to experts who offered to give tutorials:
  – Piers Dawe – Electronic Dispersion Compensation
  – Paul Kolesar - Laser Safety Standards
  – Leo Spiekman - Semiconductor Optical Amplifiers
Schedule

• Agreed with HSSG to serialize optics discussions

• **Tue AM:**
  - Optics presentations, Tutorials

• **Tue PM:**
  - High-Split Ad Hoc Report
  - Power budget discussion

• **Wed AM:**
  - FEC discussions

• **Wed PM:**
  - Wavelength/Power Survey Ad Hoc Report

• **Thu AM:**
  - Other Topics: Asymmetric Rates, 10G CDR
November 13, 2006

Task Force Timeline

Timeline

- Idea
- Call for Interest
- 802.3 forms a Study Group
  - 802.3 approval
    - Yes
  - No RIP

- Study Group meetings
  - Objectives
  - PAR
  - 5 Criteria

- 802.3 approval
  - Yes
  - No RIP

- 802 EC, approval
  - Yes
  - No RIP

- NesCom approval
  - Yes
  - No RIP

- SIB approval
  - Yes
  - No RIP

- Approved PAR
  - Yes

- Task Force meetings
  - Objectives
  - Proposals selected
    - No
  - Yes

- Draft 1

- Task Force review

- Draft 1.n++
  - TF review done
    - Yes
    - No RIP
  - Yes
  - No

- To 802.3 WG ballot
  - Yes

- July 2007

- Mar 7, 2006
- Mar 9, 2006
- July 20, 2006
- July 21, 2006
- Sep 14, 2006
- Sep 15, 2006

- We are here

- Draft 2
  - 802.3 WG ballot
    - > 75%
      - No
      - Yes
      - Comments received

- Draft 2.n++
  - Yes

- Draft 3
  - 802.3 forward to LMSC
    - Yes
    - No RIP
  - Yes
  - No

- LMSC sponsor ballot
  - > 75%
    - No
    - Yes
    - Comments received

- Draft 3.n++
  - Yes

- 802.3 forward to RevCom
  - Yes
  - No

- EC forward to RevCom
  - Yes
  - No

- RevCom review
  - Yes
  - No

- Mar 2008

- Jul 2008

- Mar 2009

- Approved Standard

Submit for WG review 1 week before the meeting.

WG Ballots start only at Plenary meetings.
Reflector and Web

• To subscribe to 10GEPON reflector, send email to: listserv@ieee.org and include this line in the body of the message: subscribe stds-802-3-10GEPON firstname lastname (Currently 263 subscribers on 10GEPON SG reflector)

• Our web site is located at: http://www.ieee802.org/3/av/

• No private area yet