NG-EPON

Industry Connections Activity

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Agenda

- Appointment of Recording Secretary
- Welcome and Introductions
- Approve Agenda
- Approve minutes of last meeting
- Reflector and Web
- Ground Rules
- Current Status
- Goals for this meeting
- Presentations
- Straw polls, Motions and Closing Business
- Future Meetings



Reflector and Web

To subscribe to the NG-EPON ad hoc committee reflector, send an email to: <u>ListServ@ieee.org</u>

with the following in the body of the message (do not include "<>"): subscribe stds-802-3-ngepon <yourfirstname> <yourlastname> end

- Send NG-EPON ad hoc committee reflector messages to: stds-802-3-ngepon@listserv.ieee.org
- NG-EPON ad hoc committee web page URL:

http://www.ieee802.org/3/ad_hoc/ngepon/index.html



ad hoc Decorum



- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (December 2013 IEEE-SA Standards Board Ops Manual 5.3.3.5)
- Photography or recording by permission only (December 2013 IEEE-SA Standards Board Ops Manual 5.3.3.4)
- Cell phone ringers off
- Wear your badges at all times in meeting areas
 - Help the hotel security staff improve the general security of the meeting rooms
 - PCs HAVE BEEN STOLEN at previous meetings
 - DO NOT assume that meeting areas are secure
- Please observe proper decorum in meetings

Ground Rules

- Based upon IEEE 802.3 Rules
 - Foundation based upon Robert's Rules of Order
 - Anyone in the room may speak
 - Anyone in the room may vote
- ▶ **RESPECT**... give it, get it
- NO product pitches
- NO corporate pitches
- NO prices!!!
 - This includes costs, ASPs, etc. no matter what the currency
- NO restrictive notices



NG-EPON ICCOM project goals

- Create a venue for interested individuals to discuss the requirements and technical options for the next generation of Ethernet Passive Optical Networks
- Operate under and report to the IEEE 802.3 Ethernet Working Group
- Explore operators' requirements
- Explore market potential
- Explore technological and economic tradeoffs.
- Explore the state of the art of optical technology for subscriber access networks
- Produce a report of the group's findings

Current status

- First meeting held January 21st in Indian Wells, CA
 - 24 attendees
 - 8 presentations
- Agreed to solicit contributions on the following topics
 - Operator requirements
 - Optical tunable transceiver technology
 - Outline of Report
 - FSAN & ITU-T activities
 - Fiber characteristics in the ODN
 - Energy Efficiency
 - OFDM in optical domain

Goals for this meeting

- Meet all day on Tuesday
- Traders Hotel Room 5, Basement West
- Hear eleven presentations

Architecture and requirements

- 1. Requirements & Architecture Considerations Eugene Dai Cox Communications
- 2. Considerations of ODN, Coexistence and Transmission Speed Yukihiro Fujimoto NTT
- Coexistence scenarios and wavelength plan Liquan Yuan ZTE
- 4. NG-EPON for future access network Naoki Agata KDDI
- 5. FSAN and ITU-T activities on NG-PON2 Duane Remein Huaweii

Optics and modulation

- 6. Tunable Lasers: Technologies, Cost, and Applications Wei Li Finisar
- 7. Tunable optics technology and relative cost trends Jinglei Huawei
- 8. OFDM Technology in Optical Access Network Minghui Tao Huawei

Outline and contents of the report

- 9. Proposed skeleton of NG-EPON whitepaper Liquan Yuan ZTE
- 10. Proposed Outline of the report from the activity Wei Lin Huawei
- 11. Draft of the report Marek Hajduczenia & Kevin Noll

Motion

- Adopted the outline described in the file ngepon_report_proposed_outline_0314.pdf as the basis for further work.
- M: Ed Mallette
- S: Bill Powell
- Technical (>= 75%)
- All in the room may vote
- Y: 12 N: 0 A: 0
- Passes

Plans for next meeting

- Ask for a one day meeting at May interim
- No overlap with EPoC
- Request (multi-party) contributions on the following topics
 - Modulation techniques for optical access networks
 - Market potential
 - Operator requirements
 - Coexistence requirements
 - blocking filter characteristics
 - High speed TDM PON feasibility

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Report Date: 18-March-2014

Chair: Howard Frazier, Broadcom Corporation

■ Participants: ~25 Individuals

Procedures: Operating under IEEE 802.3 WG and IEEE 802 LMSC

- **Progress Toward Deliverables**: Held 1st meeting January 21, 2nd meeting March 18th, 2014. Produced and agreed to an outline of our report.
- **Timeline**: It is a little too early to provide a timeline for completion, but we are making good progress. We expect to have a first draft of our report before the end of CY2014
- **Future Meetings**: 6 times a year in conjunction with IEEE 802.3 plenary and interim sessions.
- **Issues**: No issues at hand. We are receiving excellent contributions from the industry (19 so far) on the topics we said we wanted to investigate. Our first two meetings were very productive.
- Website: http://www.ieee802.org/3/ad hoc/ngepon/index.html



Straw Poll

- I will attend the meeting in May 6
- I may attend the meeting in May 4
- I may not attend the meeting in May 0
- I will not attend the meeting in May 0
- (note that the room was ~1/3 of the peak when this poll was taken, and without overlap w/ EPoC, attendance will be higher)