Agenda and General Information

IEEE 802.3
Next Generation EPON (NG-EPON)
Industry Connections Ad-Hoc

Marek Hajduczenia, Acting Chair

Bright House Networks

San Antonio, TX, USA, 11/02/2014

Agenda

- Appointment of Recording Secretary
- Welcome and Introductions
- Approve Agenda
- Approve Minutes from September 2014
- Reflector and Web
- Ground Rules
- Current Status
- Draft R08 Report – Review & Discussion on Comments
- Presentations
- Review of Action Items from January 2015 Meeting
- Motions and Closing Business
- Future Meetings

Meeting 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

Reflector and Web

- To subscribe to the NG-EPON IC Ad-Hoc reflector, send an email to:
  ListServ@ieee.org

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

- Send NG-EPON IC Ad-hoc reflector messages to:
  stds-802-3-ngepon@listserv.ieee.org

- NG-EPON IC Ad-hoc reflector archive:
  http://www.ieee802.org/3/ad_hoc/ngepon/email/thrd1.html

- NG-EPON IC Ad-hoc home page URL:
  http://www.ieee802.org/3/ad_hoc/ngepon/

NG-EPON IC Private Area

- URL: www.ieee802.org/3/ad_hoc/ngepon/private/
  - Username: **NGEPON**
  - Password: *****
- Write it down, password will not be posted online!
- Private area contains report drafts, copyrighted publications and other materials for preview of IC ad-hoc members only
- The content is posted for your review only, and neither the content nor access information should be copied or redistributed to others in violation of document copyrights.

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 IC 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

- This is the 6th meeting of the NG-EPON IC

- Draft report version R08 was distributed and comments received

- 14 presentations received (including post-deadline and corrections)

- Main focus on completion of the NG-EPON IC report to start WG approval in March 2015

NG-EPON IC Draft Report

- Review of draft [R08 with proposed responses to received comments](#)

- Draft R09 to be generated after the meeting by incorporating approved responses and accepted contributions

Presentations

Presentation	Author	Time
Contribution on Power Budgets	M. Hajduczenia	0.15
Contribution on Outside Distribution Network	M. Hajduczenia	0.15
Contribution on Taxonomy of Optical Access Network Technologies	M. Hajduczenia	0.25
Contribution on Power Saving	M. Hajduczenia	0.15
Contribution on Economic Feasibility of NG-EPON	M. Hajduczenia	0.15
Contribution on Bandwidth Consumption Trends	M. Hajduczenia	0.25
Advanced modulation techniques for NG EPON: duobinary	Ed Harstead, Dora van Veen, Vincent Houtsma, Pat Iannone, Peter Vetter	0.45
Contributions to Advanced Modulation, section 6.3	Ed Harstead	0.30
Offered bandwidth forecasting for NG EPON	Ed Harstead, Randy Sharpe	0.45
Contributions to Conclusions, section 8	Minghui Tao	0.30
Proposal of Additional Wavelength Allocation Plan for NG-EPON	Akira Agata	0.15
Wavelength Plan Analysis	Minghui Tao, Qian Liu	0.30
NG-PON2 and RFoG wavelength overlaps	Ed Harstead, Bill Powell	0.15
Wavelength Plan Proposal for NGEPON	Jorge Salinger, Saif Rahman	0.20
Seeking the Common Ground for FSAN/ITU-T NG-PON2 and IEEE NG-EPON	Eugene Dai	0.20

Plans for next meeting (A)

- Ask for two (?) day meeting at January 2015 interim meeting in Atlanta, GA, USA
- Proposal from CableLabs to host meeting in February 2015 in Denver, CO / Sunnyvale, CA (TBD)
  - Meeting co-located with IEEE 1904
- Editorial plan
  - Editors to produce R09 and post in .docx
  - Reviewers to provide comments in the form of comment bubbles in .docx file.
    - Must also provide a supplemental .docx file for major changes or new text.
  - Editors consolidate comments and repost in .docx with proposed responses
  - Editors to go through the draft and identify major missing items

Plans for next meeting (B)

- Request (multi-party) contributions and expert review on the following topics:
  - Multi-level coding schemes (PAM4+)
  - Tunable Tx / Rx (projected cost, maturity, packaging options, tuning speed)
    - what technologies are available
    - what stability individual approaches represent
  - OFDM-PON (?): contribution to the draft

- List is open for more topics (post on email reflector)

Future Meetings

- See: http://www.ieee802.org/3/interims/index.html

- Interim meeting: week of January 12, 2015
  Atlanta, GA, USA

- Interim meeting: week TBD in February 2015
  Denver, CO / Sunnyvale, CA, USA
  Hosted by CableLabs

- Plenary meeting: March 9th through March 12th, 2015
  Berlin, Germany

- Interim meeting: week of May 18, 2015
  Pittsburgh, PA, USA

- Plenary meeting: July 13th through July 16th, 2015
  Waikoloa, HI, USA

- Anyone interested in hosting a interim meeting contact me or the IEEE 802.3
  Executive Secretary Steve Carlson.

Straw Poll

- If February 2015 interim meeting is co-located with IEEE 1904, do you plan to attend IEEE 1904 as well (only those who do NOT usually attend IEEE 1904):
  - YES: 2
  - NO: 0
  - MAYBE: 7

Thank You!