IEEE 802 GEPOF Study Group

July 16-17, 2014

San Diego, CA, USA

Minutes

Chair: Robert Grow
Recording Secretary: Bernd Luecke

July 16

Starting at 9 am,

The SG Chair welcomed attendees and asked that they introduce themselves to the SG.

Agenda presented by Robert Grow, agenda approved by voice.

Bernd Luecke accepted appointment as recording secretary for the meeting.

Agenda and General Information Presentation completely reviewed:
http://www.ieee802.org/3/GEPOFSG/public/July_2014/Agenda_GEPOF_01b_0714.pdf

Presentation agenda updated with 4 additional presentations added to the agenda: presentations from Yazaki (presentation 7), homefibre (pres. 10), Avago (pres. 11), KDPOF (pres. 12)

Work began on response to comments on the P802.3bv PAR and CSD. In response to discussion the following motions were adopted.

MOTION 1
Move to amend second bullet of Distinct Identity to add: "(VDE V 0885-763, withdrawn at request of IEEE)" at the end of the second sentence.
Moved: R. Pérez-Aranda
Seconded: L. Thorne
Y: 15, N: 0, A: 0, motion passed

MOTION 2
Moved to:
Approve the response to 802.11 comments per Grow_GEPOF_01_0714.
Moved: S. Kobayashi
Seconded: C. Pardo
Y: 17, N: 0, A: 0, motion passed

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MOTION 3
Moved to amend the 802.3bv Project Authorization Request (PAR), to add
expansion of "VDE Verband der Elektrotechnik Elektronik Informationstechnik
(Association for Electrical, Electronic & Information Technologies)" to 8.1 note
on 7.1.
Moved: Perez-Aranda
Seconded: L. Thorne
Y: 13, N: 0, A: 0, motion passed

1. Presentation from Fraenkische, „Opportunities for GEPOF"
http://www.ieee802.org/3/GEPOFSG/public/July_2014/Streibel_GEPOF_01_0
714.pdf

2. Presentation Bernd (Avago) „Markets for GBit POF"
http://www.ieee802.org/3/GEPOFSG/public/July_2014/Luecke_GEPOF_01_0
714.pdf

3. Presentation Josef (homefibre) „More Connectivity More Flexibility - A
Concept for an Optical In-Building & Home Network Infrastructure"
http://www.ieee802.org/3/GEPOFSG/public/July_2014/Faller_GEPOF_01a_0
714.pdf

Lunch break 12:45 - 1:30 pm

4. Presentation KDPOF (Ruben) „High spectrally efficient coded modulation
schemes for GEPOF technical feasibility"
http://www.ieee802.org/3/GEPOFSG/public/July_2014/perezaranda_GEPOF_
01a_0714.pdf

5. Presentation Ruben (KDPOF): „Proposal of a transmission structure for
GEPOF technical feasibility"
http://www.ieee802.org/3/GEPOFSG/public/July_2014/perezaranda_GEPOF_
03a_0714.pdf

Coffee break

6. Presentation Serizawa (Yazaki): „Vibration effect on GBit POF
performance"
http://www.ieee802.org/3/GEPOFSG/public/July_2014/Serizawa_GEPOF_01
_0714.pdf

7. Presentation Serizawa (Yazaki) „Bit Error Rate Study"
Discussion on BER levels. BER 10^-12 factor 100 better than targetted by
Twisted Pair 100 Mb/s Ethernet Study Group
http://www.ieee802.org/3/GEPOFSG/public/July_2014/Serizawa_GEPOF_02
_0714.pdf

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8. Presentation Ruben (KDPOF): „Proposal of a Physical Medium Attachment for GEPOF technical feasibility"
http://www.ieee802.org/3/GEPOFSG/public/July_2014/perezaranda_GEPOF_04_0714.pdf

4:30 pm decision time

The response to 802.11 comments per earlier motions was reviewed and no changes were requested by the SG. Bob will send responses to 802.11 comments to the EC reflector as required before 5pm.

Last presentation from Ruben shifted to next day July 17.

July 17

Starting at 9 am

Bob confirmed in-time submission of responses to 802.11 comments on proposed P802.3bv sent via EC reflector. File sent see "Grow_GEPOF_01_0714.pdf"

9. Presentation Ruben (KDPOF): „Proposal of a Physical Coding Sublayer for GEPOF technical feasibility"
http://www.ieee802.org/3/GEPOFSG/public/July_2014/perezaranda_GEPOF_02a_0714.pdf

10. Presentation Josef (homefibre): „RFC Test – 50m A4a2 compatible Step Index POF and field test of installed systems"
http://www.ieee802.org/3/GEPOFSG/public/July_2014/Faller_GEPOF_02_0714.pdf
Josef shows additional slides on „Measurements criteria for Optical Home Network" for aplications IPTV, VOIP, Gaming, Internet. Discussion on how to ensure network performance. Slides will be provided by Josef for upload

Break 10:15-10:30 am

11. Presentation Bernd (Avago): „POF Gbit Ethernet Throughput Measurement using Media Converter Board and Spirent"
http://www.ieee802.org/3/GEPOFSG/public/July_2014/Luecke_GEPOF_02_0714.pdf

12. Presentation Ruben (KDPOF): Performance measurements „Performance measurements report of 1Gbps over POF under automotive environmental conditions"
http://www.ieee802.org/3/GEPOFSG/public/July_2014/perezaranda_GEPOF_05a_0714.pdf

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Closing presentations 11 am

Bob presented overview of how an IEEE draft is formatted (per the IEEE Style manual). He stepped through IEEE Std 802.3 Clauses that need to be changed for GEPOF. Most specifications will go into a new clause to be added.

Bob asking audience who would volunteer for draft editor and permanent recording secretary. No volunteers for now.

Bob reviewed with the SG what would happen in the closing 802.3 plenary where the voting on acceptance of study group adopted documents will take place. Voting procedure discussed. Need for global standard and market potential emphasized. In case of a negative voting it is possible that a Study Group Extension could be agreed to.

MOTION 4
Move to authorize the SG Chair (Bob Grow) to work with the WG Chair (David Law) to respond to NesCom comments on the P802.3bv PAR and to make appropriate PAR changes as required by those comments. The WG Chair is empowered specifically to make changes in response to issues that occur during the SASB meeting series week.
Moved: L. Thorne
Seconded: S. Kobayashi
Y: 13, N: 0, A: 1, motion passed

MOTION 5
Move to request that 802.3 approve a first extension of the GEPOF Study Group.
Moved: B. Luecke
Seconded: R. Perez-Aranda
Y: 14, N: 0, A: 0, motion passed

Future plans in case of approvals discussed. Assuming P802.3bv is approved by 802.3 and 802 -> proceed to development of technical specs, should we base draft on VDE document?, plan for progression to WG ballot.
Assuming P802.3bv is also approved by IEEE-SA Standards Board (21 Aug), our job is to develop a draft, be organized and meet as Task Force in September.

Future meeting announced Sept 9-13 802.3 Interim Kanata, Ontario, Canada, Nov 12-14 802 Plenary San Antonio,Texas, USA Jan 13-17 802.3 Interim in Atlanta, Georgia, USA will be considered by IEEE 802.3 for approval.

Having reached the end of the agenda, and having no other business, the meeting was adjourned. Session end 12 noon.