

Opening 802.3 Plenary Report

IEEE 802.3 Gigabit Ethernet over Plastic Optical Fiber
Study Group

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3 November 2014

GEPOF Study Group Charter

(per March 2014 motion)

Authorize formation of a Study Group to develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) document for Gigabit Ethernet over Plastic Optical Fibre.

Reflector and web

- To subscribe to the GEPOF reflector, send an email to:
ListServ@ieee.org
with the following in the body of the message (do not include “<>”):
subscribe stds-802-3-GEPOF <yourfirstname>
<yourlastname>
end
- Send GEPOF reflector messages to:
stds-802-3-GEPOF@listserv.ieee.org
- Study Group web page URL:
http://www.ieee802.org/3/GEPOFSG/index.html

Activities since July 2014

- GEPOF study group meeting in Kanata, ON, Canada (thanks to our host, Ericsson)
 - Technical presentations covered testing reports on vibration and bending effects, channel considerations, standardized POF specifications
 - Market potential and requirements presentations for both home networking and industrial
 - Reconsideration of target markets (no resulting change to project documents)
 - CSD modifications in response to 802.3 comments
- Project documents submitted to IEEE 802 and NesCom

Objectives

- Preserve the IEEE 802.3/Ethernet frame format utilizing the IEEE 802.3 MAC
- Preserve minimum and maximum frame size of the current IEEE 802.3 standard
- Support full duplex operation only
- Support a data rate of 1000 Mb/s at the MAC/PLS service interface
- For the automotive environment:
 - Specify operation over at least 15m of POF with 4 POF connections
 - Specify operation over at least 40m of POF with no POF connections
- For the home and industrial environment specify operation over at least 50m of POF with 1 POF connections
- Maintain a bit error ratio (BER) better than or equal to 10^{-12} at the MAC/PLS service interface
- Specify optional Energy-Efficient Ethernet for 1000 Mb/s over POF

Status

- The p802.3bv PAR and CSD were submitted but withdrawn from EC consideration during the July plenary meeting week.
 - The PAR and CSD are largely the same as previously submitted.
 - The PAR is the same except for 8.1 (a note to 7.1) where a sentence was added in response to a July 802.11 comment asking who VDE was.
- The CSD submitted (and posted to the SG web site) is change marked to simplify consideration by those that have previously reviewed. Changes are in response to either comments from 802.11, comments from 802.3 members made during the July closing plenary, or actions of the Study Group in September.
- The Managed Objects CSD response has been approved by 802.3.
- The Five Criteria are yet to be approved by 802.3.
- The PAR is yet to be approved by 802.3

Goals for this week

- A tutorial will be held Monday evening at 6:30 pm
- Address comments on the PAR and CSD
- Study Group presentations and discussions
 - Market potential and Technical and Economic Feasibility
 - Technical solution possibilities
 - Planning in anticipation of project approval
- Seek working group approval of PAR and 5C (Thursday)
- Seek EC approval of PAR and CSD (Friday)



Thank You!