

IEEE 802.3 Ethernet Working Group March 2012 Plenary Report

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www.ieee802.org/3

IEEE 802.3 Maintenance

- Interpretation request
 - Provided responses to one interpretation
- IEEE P802.3 Revision (IEEE 802.3bh)
 - IEEE P802.3/D3.0 completed Initial Sponsor ballot
 - 91.3% Approval rate, 75.3% Return rate, 8.6% Abstention rate
 - Resolved comments on IEEE P802.3/D3.0
 - Considered and responded to 152 comments
 - Received reports from the appointed ad-hocs
 - Proceeding to sponsor recirculation ballot
- Next steps
 - Draft D3.1 will be sent out for 15 day Sponsor recirculation ballot
- Next meetings
 - IEEE 802.3 May 2012 interim meeting series
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page
 - <http://www.ieee802.org/3/maint/index.html>

IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIB (revision)

- Task Force closing report
 - http://www.ieee802.org/3/minutes/mar12/0312_1a_close_report.pdf
- Progress
 - Reviewed correspondence received in respect to IEEE8023-IF-CAP-STACK-MIB and ITU-T GBOND-MIB and generated a response
- Next Steps
 - Draft D1.1 will be sent out for Working Group recirculation ballot
- Next meeting at May 2012 interim meeting series
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page: <http://www.ieee802.org/3/1/index.html>

IEEE P802.3bj 100 Gb/s Backplane and Copper Task Force closing report

- Task Force closing report
 - http://www.ieee802.org/3/minutes/mar12/0312_bj_close_report.pdf
- Progress
 - Heard 23 technical presentations
 - Change to Backplane “Reach” Objective
 - Replace the existing backplane PHY objective:
 - Define a 4-lane 100 Gb/s backplane PHY for operation over links consistent with copper traces on “improved FR-4” (as defined by IEEE P802.3ap or better materials to be defined by the Task Force) with lengths up to at least 1m.
 - With the following two objectives:
 - Define a 4 lane PHY for operation over a printed circuit board backplane with a total channel insertion loss of ≤ 35 dB at 12.9 GHz
 - Define a 4 lane PHY for operation over a printed circuit board backplane with a total channel insertion loss of ≤ 33 dB at 7.0 GHz
 - Adopted major baselines
- Next meeting at May 2012 interim meeting series
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page: <http://www.ieee802.org/3/bj/index.html>

IEEE 802.3 Next Generation 100 Gb/s Optical Ethernet Study Group

- Study Group closing report
 - http://www.ieee802.org/3/minutes/mar12/0312_100gngoptx_close_report.pdf
- Progress
 - Heard 31 presentations from various contributors
 - Common-time with IEEE P802.3bj on Monday morning
 - Four objectives adopted by the Study Group
 - Define a 100 Gb/s PHY for operation up to at least 500 m of SMF
 - Define a 100 Gb/s PHY for operation up to at least 100 m of MMF
 - Define a 100 Gb/s PHY for operation up to at least 20 m of MMF
 - Define a 40 Gb/s PHY for operation over at least 40 km of SMF
- Study Group scope extended to include 40Gb/s
- Study Group chartered for six more months
- Next meeting of IEEE 802.3 Next Generation 40Gb/s and 100 Gb/s Optical Ethernet Study Group at May 2012 interim meeting series
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page:
<http://www.ieee802.org/3/100GNGOPTX/index.html>

IEEE 802.3 Extended Ethernet Passive Optical Networks (EPON) Study Group

- Study Group closing report
 - http://www.ieee802.org/3/minutes/mar12/0312_extepon_close_report.pdf
- Progress
 - PAR and 5 Criteria approved by IEEE 802 Executive Committee
 - PAR on March NesCom agenda
 - Responded to CCSA communication
- Study Group chartered for six more months
 - Backup if PAR not approved at March SASB meeting
- First IEEE P802.3bk meeting May 2012
 - Assuming PAR approval at September SASB meeting
 - If not will meet as Extended EPON Study Group
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page:
http://www.ieee802.org/3/EXTND_EPON/index.html

IEEE 802.3 EPON Protocol over a Coax (EPoC) PHY Study Group

- Study Group closing report
 - http://www.ieee802.org/3/minutes/mar12/0312_epoc_close_report.pdf
- Progress
 - Heard 22 presentations
 - Adopted 6 objectives
 - See Study Group closing report for details
 - Adopted text of 5 Criteria responses “as a basis for further work”
 - Working towards PAR approval in July
- Study Group chartered for six more months
- Next meeting at May 2012 interim meeting series
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page:
<http://www.ieee802.org/3/epoc/index.html>

IEEE 802.3 Reduced Twisted Pair 1 Gb/s Ethernet Study Group

- Call for Interest closing report
 - http://www.ieee802.org/3/minutes/mar12/0312_rtpge_close_report.pdf
- Study Group formation approved
 - IEEE 802.3 Reduced Twisted Pair 1 Gb/s Ethernet Study Group
- First Study Group meeting at May 2012 interim meeting series
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page
 - Will be added to: <http://www.ieee802.org/3/index.html>

IEEE 802.3 Extended reach 40GBASE-R PMD Call for Interest

- Call for Interest closing report
 - http://www.ieee802.org/3/minutes/mar12/0312_40ger_close_report.pdf
- Expand scope of IEEE 802.3 Next Generation 100 Gb/s Optical Ethernet Study Group approved as a result of this Call for Interest
 - Scope of the ‘Next Generation 100Gb/s Optical Ethernet’ Study Group be expanded to be ‘Next Generation 40Gb/s and 100Gb/s Optical Ethernet’
- Next meeting of IEEE 802.3 Next Generation 40Gb/s and 100 Gb/s Optical Ethernet Study Group at May 2012 interim meeting series
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page:
<http://www.ieee802.org/3/100GNGOPTX/index.html>

IEEE 802.3 Ethernet WDM Aggregation Network Call for Interest

- Call for Interest closing report
 - http://www.ieee802.org/3/minutes/mar12/0312_wdmagg_open_report.pdf
- Study Group not formed
 - No motion was made to request Study Group

MAC Services in support of Frame Pre-emption Call for Interest

- Call for Interest closing report
 - http://www.ieee802.org/3/minutes/mar12/0312_preempt_close_report.pdf
- Study Group not formed
 - Motion to request Study Group withdrawn after discussion

Working Group information

- IEEE 802.3 Web site
<http://www.ieee802.org/3>
- WG and TF documents on web site
 - Presentations
 - Minutes
 - Reflector subscription information
 - Rules, etc.
- Interim TF and SG meeting details posted on web site
<http://www.ieee802.org/3/interims/index.html>
 - IEEE 802.3 Interim meeting series
 - Monday, 14th May through Friday, 18th, May 2012
 - Hilton Minneapolis, Minneapolis, MN, USA
 - Next IEEE 802.3 WG plenary session
 - Monday, 16th July through Thursday, 19th July, 2012
 - Grand Hyatt Manchester, San Diego, CA, USA