

IEEE 802.3 Ethernet Working Group July 2013 Plenary Report

David Law, Chair, IEEE 802.3
dlaw@hp.com

www.ieee802.org/3

IEEE 802.3 Maintenance

- Maintenance closing report
 - http://www.ieee802.org/3/minutes/jul13/0713_maint_close_report.pdf
- Activities
 - Maintenance requests
 - Considered new maintenance requests
 - Reviewed status of outstanding maintenance requests
 - Submission of IEEE Std 802.3-2012 to ISO/IEC JTC1 SC6
 - Developed responses to comments received during 60 day PSDO pre-ballot
 - Reviewed IEEE 802.3 MAUType assignment request
- Next meeting
 - IEEE 802.3 September 2013 interim meeting series
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page
 - <http://www.ieee802.org/3/maint/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/jul13/0713_bj_close_report.pdf
- Progress
 - IEEE P802.3bj/D2.1 completed 1st Working Group recirculation ballot
 - 85% Approval rate, 55% Return rate, 21% Abstention rate
 - Developed responses to 154 comments on IEEE P802.3bj/D2.1
 - 5 comments withdrawn
- Next steps
 - Working Group recirculation ballot on IEEE P802.3bj/D2.2
- Next meeting at September 2013 interim meeting series
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page: <http://www.ieee802.org/3/bj/index.html>

IEEE 802.3bk Extended Ethernet Passive Optical Networks (EPON) Task Force

- Task Force closing report
 - http://www.ieee802.org/3/minutes/jul13/0713_bk_close_report.pdf
- Progress
 - IEEE P802.3bk/D3.1 completed 1st Sponsor recirculation ballot
 - 100% Approval rate, 82% Return rate, 7% Abstention rate
 - Developed responses to comments on IEEE P802.3bk/D3.1
 - Considered and responded to the four editorial comments received
 - Obtained approval of submission to IEEE-SA RevCom
- Next steps
 - Obtain IEEE-SA Standards Board approval of draft
 - Publication of draft as an IEEE Standard
- No further meetings expected
- Web page:
 - <http://www.ieee802.org/3/bk/index.html>

IEEE 802.3bm 40 Gb/s and 100 Gb/s Fiber Optic Task Force

- Task Force closing report
 - http://www.ieee802.org/3/minutes/jul13/0713_bm_close_report.pdf
- Progress
 - IEEE P802.3bm/D1.0 completed 1st Task Force Review
 - Considered and responded to 222 comments
 - No consensus on baseline for 500m singlemode 100Gb/s PHY objective
- Next steps
 - Proceed with 2nd Task Force Review on Draft D1.1
 - Proceed with request for Working Group Ballot in November 2013
- Next meeting at September 2013 interim meeting series
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page:
 - <http://www.ieee802.org/3/bm/index.html>

IEEE 802.3bn EPON Protocol over a Coax (EPoC) PHY Task Force

- Task Force closing report
 - http://www.ieee802.org/3/minutes/jul13/0713_bn_close_report.pdf
- Progress
 - Heard 25 presentations
 - 19 technical motions approved (68 previous, total 87)
 - 1 baseline proposal approved (5 total)
 - Additional objective for Mean Time to False Packet Acceptance (MTTFPA)
- Next steps
 - Continue selection of baseline proposals to satisfy project objectives
- Next meeting at September 2013 interim meeting series
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page:
 - <http://www.ieee802.org/3/bn/index.html>

IEEE 802.3bp Reduced Twisted Pair 1 Gb/s Ethernet Task Force

- Task Force closing report
 - http://www.ieee802.org/3/minutes/jul13/0713_bp_close_report.pdf
- Progress
 - Heard 10 presentations from link segment and EMC ad hocs
 - Link segment (testing1-pair UTP link segment)
 - Updates on test fixtures from UNH-IOL
 - New work on MDI balance and signal integrity
 - EMC and noise
 - Have information on all areas
- Next steps
 - Continue work towards baseline proposals to satisfy project objectives
- Next meeting at September 2013 interim meeting series
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page:
 - <http://www.ieee802.org/3/bp/index.html>

IEEE 802.3bq 40BASE-T Task Force

- Task Force closing report
 - http://www.ieee802.org/3/minutes/jul13/0713_bq_close_report.pdf
- Progress
 - Heard 12 presentations
 - Architecture considerations
 - Data centre Copper cabling market survey report
 - Channel data
 - Liaison letters
 - Responded to ISO/IEC JTC1 SC25 WG3 liaison letter
 - Generated liaison to TIA TR-42
- Next steps
 - Continue work towards baseline proposals to satisfy project objectives
- Next meeting at September 2013 interim meeting series
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page:
<http://www.ieee802.org/3/bq/index.html>

IEEE 802.3 Distinguished minimum latency traffic in a converged traffic environment Study Group

- Study Group closing report
 - http://www.ieee802.org/3/minutes/jul13/0713_dmlt_close_report.pdf
- Progress
 - Preparation for request for approval of PAR, 5C and objectives
 - Refined PAR based on feedback from IEEE 802.11
 - Objectives failed to obtain IEEE 802.3 approval
 - IEEE P802.3br PAR and 5C withdrawn from IEEE 802 EC closing plenary agenda
- Study Group chartered for six more months
- Next meeting at September 2013 interim meeting series
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page:
<http://www.ieee802.org/3/DMTL/index.html>

IEEE 802.3 400Gb/s Ethernet Study Group

- Study Group closing report
 - http://www.ieee802.org/3/minutes/jul13/0713_400g_close_report.pdf
- Progress
 - Heard 23 presentations
 - Architecture and FEC, agreed to generate “architecture requirements” document
 - Broad Market Potential and Objectives, update on Time Synchronization activities
 - Review of draft IEEE P802.3bs 400Gb/s Ethernet PAR
 - Initial 6 objectives approved including
 - Provide appropriate support for OTN
 - Specify optional Energy Efficient Ethernet (EEE) capability for 400Gb/s PHYs
- Study Group chartered for six more months
- Next meeting at September 2013 interim meeting series
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page:
<http://www.ieee802.org/3/400GSG/index.html>

IEEE 802.3 4-pair Power over Ethernet Study Group

- Study Group closing report
 - http://www.ieee802.org/3/minutes/jul13/0713_4ppoe_close_report.pdf
- Progress
 - Heard 5 presentations
 - Pair-to-pair cable imbalance, 10Gb/s PoE and proposed objectives
 - Reviewed objectives, modified 1 objective, added 5 new objectives
 - Reviewed, modified and adopted the 5 Criteria
 - Reviewed the draft PAR
- Study Group chartered for six more months
- Next meeting at September 2013 interim meeting series
 - Full details at: <http://www.ieee802.org/3/interims/>
- Web page:
<http://www.ieee802.org/3/4PPOE/index.html>

IEEE 802.3 1-Pair Power over Data Lines Study Group

- Power over Data Lines Call for Interest closing report
 - http://www.ieee802.org/3/minutes/jul13/0713_1ppodl_close_report.pdf
- Study Group formation approved
 - IEEE 802.3 1-Pair Power over Data Lines Study Group
- Study Group home page and reflector subscriptions
 - Available soon on <http://www.ieee802.org/3/index.html>
- First Study Group meeting at September 2013 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>

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, 2nd September through Friday, 6th September 2013
 - York Racecourse Conference Center, York, UK
 - Next IEEE 802.3 WG plenary session
 - Monday, 11th November through Thursday, 14th November 2013
 - Hyatt Regency Dallas, Dallas, TX, USA