

IEEE 802.3 Working Group July 2012 Plenary Week

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Current IEEE 802.3 activities

- IEEE P802.3 (IEEE 802.3bh) Maintenance #10 (Revision)
- IEEE P802.3bj 100 Gb/s Backplane and Copper
- IEEE P802.3bk Extended Ethernet Passive Optical Network (EPON)
- IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIB (Revision)
- Next Generation 40Gb/s and 100Gb/s Optical Ethernet Study Group
- EPON Protocol over a Coax (EPoC) PHY Study Group
- Reduced Twisted Pair Gigabit Ethernet (RTPGE) Study Group
- IEEE 802.3 Ethernet Bandwidth Assessment Ad Hoc

IEEE 802.3 Maintenance

- Meeting plan
 - IEEE P802.3 (IEEE 802.3bh) Maintenance #10 (Revision)
 - Consider comments on second sponsor recirculation ballot of IEEE P802.3 (IEEE 802.3bh) draft D3.2
 - Consider requesting conditional approval to proceed to RevCom submittal
 - Consider any other maintenance business

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

- Description
 - Provide an amendment to the IEEE 802.3 Ethernet standard to specify 100 Gb/s 4 lane operation on backplanes and twinaxial copper cables.
- Status
 - Met during May IEEE 802.3 Interim series week
 - Draft D1.0 sent out for first Task Force review
- Meeting plan
 - Consideration of comments received against D1.0
 - Work towards technically complete draft for working group ballot

IEEE P802.3bk Extended Ethernet Passive Optical Networks (EPON) Task Force

- Description
 - Provide an amendment to the IEEE 802.3 Ethernet standard to specify extensions to the optical loss budgets supported by Ethernet Passive Optical Networks (EPON) to support higher density and longer reach applications, while optimizing costs of ownership.
- Status
 - Met during May IEEE 802.3 Interim series week
 - Draft D1.0 sent out for first Task Force review
- Meeting plan
 - Consideration of comments received against D1.0
 - Work towards technically complete draft for working group ballot

IEEE 802.3 Next Generation 40Gb/s and 100Gb/s Optical Ethernet Study Group

- Description
 - Study group to explore the market need and solutions to reduce the cost, power and panel size of 40Gb/s and 100 Gb/s optical interfaces.
- Status
 - Completed objectives, PAR and 5 Criteria for proposed project
- Meeting plan
 - Progress approval of Objectives, 5 Criteria and NesCom submittal of PAR for IEEE P802.3bm Amendment: Physical Layer Specifications and Management Parameters for 40 Gb/s and 100 Gb/s Operation Over Fiber Optic Cables

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

- Description
 - Study Group to develop a PAR & 5 Criteria for operating the EPON Protocol over a Coax (EPoC) PHY.
- Status
 - Completed objectives, PAR and 5 Criteria for proposed project
- Meeting plan
 - Progress approval of Objectives, 5 Criteria and NesCom submittal of PAR for IEEE P802.3bn Amendment: Physical Layer Specifications and Management Parameters for Ethernet Passive Optical Networks Protocol over Coax Networks

IEEE P802.3.1 Ethernet MIB

Revision Task Force

- Description
 - Revision to IEEE Std 802.3.1 GDMO and SMIv2 MIB modules to reflect changes from recent IEEE Std 802.3 amendments
 - IEEE Std 802.3at-2009, IEEE Std 802.3av-2009, IEEE Std 802.3bc-2009, IEEE Std 802.3bd-2011, IEEE 802.3az-2010, IEEE Std 802.3ba-2010, IEEE Std 802.3bf-2011 and IEEE std 802.3bg
- Status
 - Completed first Working Group recirculation ballot on IEEE P802.3.1 (IEEE 802.3.1a) draft D1.1
- Meeting plan
 - Consider comments received on first Working Group recirculation ballot
 - Consider requesting conditional approval to proceed to Sponsor ballot

IEEE 802.3 Ethernet Bandwidth Assessment Ad Hoc

- Description
 - Gathering information that will enable an evaluation of the bandwidth needs for Ethernet applications, including, but not limited to, core networking and computing
 - Role is to gather information
 - Not to make recommendations or initiate new project
- Status
 - Draft Ethernet Bandwidth Assessment report complete
- Meeting plan
 - Provide IEEE 802 tutorial on findings
 - Request IEEE 802.3 Working Group approval for report

Next Generation BASE-T call for interest

Data Centers are built with Server uplink data rates at Gigabit Ethernet and 10 Gigabit Ethernet today, extending to 40 Gigabit Ethernet and above in the near future. There are unique attributes of twisted pair cabling that have proven compelling at Gigabit Ethernet, and are now becoming established at 10 Gigabit Ethernet. These include backwards speed interoperability via the utility of autonegotiation, and the support of twisted-pair structured cabling. This Call for Interest will measure the interest in the formation of a study group for a next-generation BASE-T.

- . This request for agenda time for a Call for Interest has been received from Bill Woodruff <billw@broadcom.com>

IEEE 802.3 Officers

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IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIBs (revision) Task Force:
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IEEE P802.3bj 100 Gb/s Backplane and Copper Task Force:
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IEEE 802.3 Next Generation 40Gb/s and 100 Gb/s Optical Ethernet Study Group:
Dan Dove <dan.dove@dovenetworking.com>

IEEE 802.3 EPON Protocol over a Coax (EPoC) PHY Study Group:
Howard Frazier <hfrazier@broadcom.com>

IEEE 802.3 Reduced Twisted Pair Gigabit Ethernet (RTPGE) Study Group:
Steve Carlson <scarlson@hspdesign.com>

Preliminary Meeting Plan

	Mon	Tue	Wed	Thu
AM		Maintenance IEEE P802.3bj IEEE P802.3bk 100NGGOP_SG EPOC_SG RTPGE_SG	Maintenance IEEE P802.3bj IEEE P802.3bk 100NGGOP_SG EPOC_SG RTPGE_SG	IEEE 802.3.1a IEEE P802.3bj IEEE P802.3bk 100NGGOP_SG RTPGE_SG
PM	IEEE802.3 Opening Plenary	Maintenance IEEE P802.3bj IEEE P802.3bk 100NGGOP_SG EPOC_SG RTPGE_SG	Maintenance IEEE P802.3bj IEEE P802.3bk 100NGGOP_SG EPOC_SG RTPGE_SG	IEEE 802.3 Closing Plenary
		Next generation BASE-T CFI		
	Ethernet Bandwidth Assessment Tutorial			

100NGGOP_SG
EPOC_SG
RTPGE_SG

IEEE 802.3 Next Generation 100 Gb/s Optical Ethernet Study Group
IEEE 802.3 EPON Protocol over a Coax (EPoC) PHY Study Group
IEEE 802.3 Reduced Twisted Pair Gigabit Ethernet Study Group

IEEE 802.3 Standards

- IEEE Std 802.3™-2008 (26 Dec 08 / 26 Dec 08)*
 - IEEE Std 802.3av™-2009 (11 Sep 09 / 30 Oct 09)*
 - IEEE Std 802.3bc™-2009 (11 Sep 09 / 28 Sep 09)*
 - IEEE Std 802.3at™-2009 (11 Sep 09 / 30 Oct 09)*
 - IEEE Std 802.3-2008/Cor1-2009™ (9 Dec 09 / 1 Feb 10)*
 - IEEE Std 802.3ba™-2010 (17 Jun 10 / 22 Jun 10)*
 - IEEE Std 802.3az™-2010 (30 Sep 10 / 27 Oct 10)*
 - IEEE Std 802.3bg™-2011 (31 Mar 11 / 31 Mar 11)*
 - IEEE Std 802.3bf™-2011 (16 May 11 / 15 Jul 11)*
 - IEEE Std 802.3bd™-2011 (16 Jun 11 / 10 Aug 11)*
- IEEE Std 802.3.1™-2011 (16 May 11 / 5 Jul 11)*

* Available through Get IEEE 802
<http://standards.ieee.org/getieee802/802.3.html>

Note 1: Dates are Approval date / Publication date

Current project drafts

- IEEE P802.3/D3.2 (IEEE 802.3bh) maintenance #10 (revision)
 - Second sponsor recirculation ballot draft
- IEEE P802.3.1/D1.1 (IEEE 802.3.1a) Ethernet MIBs (revision)
 - First Working Group recirculation ballot draft