

IEEE 802.3 Working Group November 2011 Plenary Week

David Law
Chair, IEEE 802.3 Working Group
dlaw@hp.com
Web site: www.ieee802.org/3

Current IEEE 802.3 activities

- IEEE P802.3 (IEEE 802.3bh) Maintenance #10 (Revision)
- IEEE P802.3bj 100 Gb/s Backplane and Copper
- IEEE 802.3 Ethernet Bandwidth Assessment Ad Hoc
- IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIB (Revision)
- Next Generation 100Gb/s Optical Ethernet Study Group
- Extended Ethernet Passive Optical Network Study Group
- EPON PHY for Coax call for interest (EPoC)

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

- Description
 - Provide an amendment to the IEEE 802.3 standard to specify 100Gb/s Ethernet operation on Electrical Backplane and Twinaxial Copper Cable Assemblies
- Status
 - IEEE P802.3bj PAR was approved at the IEEE-SA Standards Board meeting on 10th September 2011
 - Task Force met for first time during the IEEE 802.3 September interim sessions the following week
- Meeting plan
 - Continue to work on selection of a set of baseline proposals to satisfy the project objectives

Note: This Task Force will be holding an interim meeting adjacent to, and co-located with, the IEEE 802 plenary on the Monday morning prior to the IEEE 802.3 Opening plenary meeting.

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
 - Information gathering
 - Teleconference held 8th September
 - Presentation from Tom Cloonan, Arris
 - Met during the IEEE 802.3 September interim sessions
 - Presentations from Scott Kipp, Brocade and Mark Nowell, Cisco
- Meeting plan
 - Status update
 - Plan for moving forward

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
 - Met during the IEEE 802.3 September interim sessions
 - Completed IEEE P802.3.1 (IEEE 802.3.1a) initial draft
 - Expect to pre-circulated draft prior to meeting
- Meeting plan
 - Prepare for request to proceed to Working Group ballot

IEEE 802.3 Next Generation 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 100 Gb/s optical interfaces
- Status
 - Study Group chartered at July IEEE 802 plenary
 - Study Group met for first time during the IEEE 802.3 September interim sessions week
- Meeting plan
 - Continue to work on development of a set of objectives, PAR and 5 Criteria for proposed project

Note: In order to ensure sufficient time to cover common-interest items with IEEE P802.3bj, this Study Group will be meeting on Monday morning prior to the IEEE 802.3 plenary. This time will officially be under the auspices of the IEEE P802.3bj interim (see above).

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

- Description
 - Study group to explore the market demand, available technologies and definition of optical interface parameters for extended Ethernet Passive Optical Networks (EPON)
- Status
 - Study Group chartered at July IEEE 802 plenary
 - Study Group met for first time during the IEEE 802.3 September interim sessions week
- Meeting plan
 - Continue to work on development of a set of objectives, PAR and 5 Criteria for proposed project

IEEE 802.3 Maintenance

- Meeting plan
 - IEEE P802.3 (IEEE 802.3bh) Maint #10 (Revision)
 - Resolve comments on 1st Working Group recirculation ballot draft IEEE P802.3 (IEEE 802.3bh) draft D2.1
 - Hear reports from the appointed ad-hocs
 - Interpretation request
 - Prepare responses to the three interpretations
 - 1-11/11 Simultaneous Output Power on Standard
 - 2-11/11 MMD register access through Clause 22 register 13 & 14
 - 3-11/11 Missing Section
 - Consider any other maintenance business

EPON PHY for Coax (EPoC) call for interest

IEEE Std 802.3 EPON and 10G-EPON are being deployed internationally with increasing penetration rates. However, in many locations, fiber stops at the street, basement or curb with coaxial cable spanning the remaining distance to the subscriber. An EPON PHY for coax could allow a system that uses the EPON protocol (MPCP) to operate on existing coaxial distribution networks. This Call for Interest will measure the interest in the formation of a study group to explore the market demand, network compatibility considerations, and available technologies for a Physical Layer specification for operating the EPON protocol over coaxial distribution networks.

This Call for Interest has been received from Howard Frazier <hfrazier@broadcom.com>

IEEE 802.3 Officers

IEEE 802.3 Chair: David Law <dlaw@hp.com>

IEEE 802.3 Vice Chair: Wael William Diab <wdiab@broadcom.com>

IEEE 802.3 Secretary: Adam Healey <adam.healey@lsi.com>

IEEE 802.3 Executive Secretary: Steve Carlson <scarlson@ieee.org>

IEEE 802.3 Treasurer: Valerie Maguire <valerie_maguire@siemon.com>

IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIBs (revision):

Howard Frazier <hfrazier@broadcom.com>

IEEE 802.3bj 100 Gb/s Backplane and Copper Task Force:

John D'Ambrosia <jdambrosia@ieee.org>

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

Dan Dove <dan.dove@dovenetworking.com>

IEEE 802.3 Extended Ethernet Passive Optical Networks Study Group:

Marek Hajduczenia <marek.hajduczenia@zte.pt>

IEEE 802.3 Maintenance: Wael William Diab <wdiab@broadcom.com>

Preliminary Meeting Plan

	Mon	Tue	Wed	Thu
AM	IEEE 802.3bj 100NGOPTHX_SG	IEEE 802.3 BWA Maintenance IEEE P802.3bj 100NGOPTHX_SG EXTND_EPON_SG	IEEE 802.1/.3 joint Maintenance IEEE 802.3bj 100NGOPTHX_SG EXTND_EPON_SG	Maintenance IEEE 802.3.1 IEEE 802.3bj 100NGOPTHX_SG EXTND_EPON_SG
PM	IEEE 802.3 Opening Plenary	Maintenance IEEE P802.3bj 100NGOPTHX_SG EXTND_EPON_SG	Maintenance IEEE 802.3bj 100NGOPTHX_SG EXTND_EPON_SG	IEEE 802.3 Closing Plenary
		EPoC_CFI		

IEEE 802.3 BWA
100NGOPTHX_SG
EXTND_EPON_SG
EPoC_CFI

IEEE 802.3 Ethernet Bandwidth Assessment Ad Hoc
IEEE 802.3 Next Generation 100 Gb/s Optical Ethernet Study Group
IEEE 802.3 Extended EPON Study Group
EPON PHY for Coax call for interest

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: Dates are Approval date / Publication date

Current project drafts

- IEEE P802.3/D2.1 (IEEE 802.3bh) maintenance #10 (revision)
 - Working Group recirculation ballot draft
- IEEE P802.3.1/D2.0 (IEEE 802.3.1a) Ethernet MIBs (revision)
 - Working Group preview draft