

IEEE 802.3 Working Group November 2012 Plenary Week

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Web site: www.ieee802.org/3

Current IEEE 802.3 activities

- Task Forces
 - IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIB (Revision)
 - IEEE P802.3bj 100 Gb/s Backplane and Copper
 - IEEE P802.3bk Extended Ethernet Passive Optical Network (EPON)
 - IEEE P802.3bm 40Gb/s and 100Gb/s Operation over Fibre Optic cable
 - IEEE P802.3bn EPON Protocol over a Coax (EPoC)
- Study Groups
 - IEEE 802.3 Reduced Twisted Pair Gigabit Ethernet (RTPGE)
 - IEEE 802.3 Next Generation BASE-T
- Call for Interest
 - Distinguished minimum latency traffic in a converged traffic environment
- Ad Hoc
 - IEEE 802.3 Higher Speed Ethernet Consensus Ad Hoc

IEEE 802.3 Maintenance

- Meeting plan
 - Consider new maintenance requests
 - Reviewing status of outstanding maintenance requests
 - Consider any other maintenance business
- Web page
 - <http://www.ieee802.org/3/maint/index.html>

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
- Web page: <http://www.ieee802.org/3/1/index.html>

- Status

- Working Group recirculation ballot on IEEE P802.3.1 (IEEE 802.3.1a) draft D1.2 in progress, completes during meeting week

- Meeting plan

- Consider comments received on second Working Group recirculation ballot
- Request conditional approval to proceed to Sponsor ballot

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.
 - Web page: <http://www.ieee802.org/3/bj/index.html>
- Status
 - Met during September IEEE 802.3 Interim series week
 - Draft D1.2 sent out for third Task Force review
- Meeting plan
 - Consideration of comments received against D1.2
 - 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
 - Web page: <http://www.ieee802.org/3/bk/index.html>
- Status
 - Met during September IEEE 802.3 Interim series week
 - Draft D1.2 sent out for third Task Force review
 - Draft D1.2 also submitted for Working Group preview
- Meeting plan
 - Consideration of comments received against D1.3
 - Prepare for request to proceed to Working Group ballot

IEEE P802.3bm 40 Gb/s and 100 Gb/s Operation Over Fiber Optic Cables Task Force

- Description
 - Provide an amendment to the IEEE 802.3 Ethernet standard to add 100 Gb/s Physical Layer (PHY) specifications using a four-lane electrical interface for operation on multimode and single-mode fiber optic cables and 40 Gb/s Physical Layer (PHY) specifications for operation on extended reach (> 10 km) single-mode fiber optic cables.
 - Web page: <http://www.ieee802.org/3/bm/index.html>
- Status
 - IEEE P802.3bm PAR approved by IEEE-SA Standards Board
 - Approval date 30th August 2012
 - First meeting during September IEEE 802.3 Interim series week
 - Selecting set of baseline proposals to satisfy project objectives
- Meeting plan
 - Continue to work on selection of a set of baseline proposals

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

- Description
 - Provide an amendment to the IEEE 802.3 Ethernet standard to add physical layer specifications and management parameters for symmetric and/or asymmetric operation of up to 10 Gb/s on point-to-multipoint Radio Frequency (RF) distribution plants comprising either amplified or passive coaxial media. It also extends the operation of Ethernet Passive Optical Networks (EPON) protocols, such as MultiPoint Control Protocol (MPCP) and Operation Administration and Management (OAM).
 - Web page: <http://www.ieee802.org/3/bn/index.html>
- Status
 - IEEE P802.3bn PAR was approved by IEEE-SA Standards Board
 - Approval date 30th August 2012
 - First meeting during September IEEE 802.3 Interim series week
 - Selecting set of baseline proposals to satisfy project objectives
- Meeting plan
 - Continue to work on selection of a set of baseline proposals

IEEE 802.3 Reduced Twisted Pair Gigabit Ethernet (RTPGE) Study Group

- Description
 - Study Group to develop a PAR & 5 Criteria for for a: Reduced Twisted Pair Gigabit Ethernet PHY
 - Web page: <http://www.ieee802.org/3/RTPGE/index.html>
- Status
 - Met during September IEEE 802.3 Interim series week
 - Completed objectives, PAR and 5 Criteria for proposed project
- Meeting plan
 - Progress approval of Objectives, 5 Criteria and NesCom submittal of PAR for IEEE P802.3bp Amendment: Physical Layer Specifications and Management Parameters for 1 Gb/s Operation over Fewer than Three Twisted Pair Copper Cable

IEEE 802.3 Next Generation BASE-T Study Group

- Description
 - Study Group to develop a PAR & 5 Criteria for Next Generation BASE-T PHY
 - Web page: <http://www.ieee802.org/3/NGBASET/index.html>
- Status
 - First meeting during September IEEE 802.3 Interim series week
 - Initial development of draft objectives, 5 Criteria and PAR
- Meeting plan
 - Continue developing draft objectives, 5 Criteria and PAR

IEEE 802.3 Higher Speed Ethernet Consensus Ad Hoc

- Description
 - Build consensus for initiating a new effort targeting the next speed of Ethernet for wireline applications. This consensus will be used for the evaluation and possible development of a call for interest for the next IEEE 802.3 Higher Speed Study Group
- Status
 - First meeting during September IEEE 802.3 Interim series week
 - Heard presentation in respect to the next speed of Ethernet
- Meeting plan
 - Continue to hear presentation related to next speed of Ethernet

Distinguished minimum latency traffic in a converged traffic environment call for interest

- This call for interest request is the result of the joint technical plenary between IEEE 802.3 and IEEE 802.1 in July 2012 (see URL http://www.ieee802.org/3/minutes/jul12/0712_joint_802d1_802d3_close_report.pdf#page=5 >).
- There is a need for support of distinguished minimum latency traffic in a converged traffic environment. This would help address the requirements in markets such as industrial and automotive control network, where control data is time-sensitive and often requires minimum latency.
- This call for interest will assess the interest within IEEE 802.3 to form an IEEE 802.3 study group to develop a PAR & 5 Criteria for support of distinguished minimum latency traffic in a converged traffic environment
- This request for agenda time for this CFI has been received from Ludwig Winkel <ludwig.winkel@siemens.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>

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

IEEE 802.3 Task Force chairs

IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIBs (revision): Howard Frazier <hfrazier@broadcom.com>

IEEE P802.3bj 100 Gb/s Backplane and Copper: John D'Ambrosia <jdambrosia@ieee.org>

IEEE P802.3bk Extended Ethernet Passive Optical Network: Marek Hajduczenia <marek.hajduczenia@zte.pt>

IEEE P802.3bm 40Gb/s and 100 Gb/s Optical Ethernet: Dan Dove <ddove@apm.com>

IEEE P802.3bn EPON Protocol over a Coax (EPoC): Mark Laubach <laubach@broadcom.com>

IEEE 802.3 Study Group chairs

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

IEEE 802.3 Next Generation BASE-T: Bill Woodruff <billw@broadcom.com>

Preliminary IEEE 802.3 Meeting Plan

	Mon	Tue	Wed	Thu
AM		Maintenance IEEE P802.3bj IEEE P802.3bk IEEE P802.3bm IEEE P802.3bn RTPGE_SG NGBT_SG	IEEE P802.3bj IEEE P802.3bk IEEE P802.3bm IEEE P802.3bn RTPGE_SG NGBT_SG	IEEE P802.3.1 IEEE P802.3bj IEEE P802.3bk IEEE P802.3bm IEEE P802.3bn RTPGE_SG NGBT_SG
PM	IEEE802.3 Opening Plenary	Maintenance IEEE P802.3bj IEEE P802.3bk IEEE P802.3bm IEEE P802.3bn RTPGE_SG NGBT_SG	IEEE P802.3bj IEEE P802.3bk IEEE P802.3bm IEEE P802.3bn RTPGE_SG NGBT_SG	IEEE 802.3 Closing Plenary
		Distinguished minimum latency traffic call for interest	Higher speed Ethernet Industry Connections Ad Hoc	

RTPGE_SG
NGBT_SG

IEEE 802.3 Reduced Twisted Pair Gigabit Ethernet Study Group
IEEE 802.3 Next Generation Base-T Study Group

IEEE 802.3 Standards

- IEEE Std 802.3™-2012 (30 Aug 12 / TBD)
- 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 P802.3.1/D1.2 (IEEE 802.3.1a) Ethernet MIBs (revision)
 - Second Working Group recirculation ballot draft
- IEEE P802.3bk/D1.2 Extended Ethernet Passive Optical Networks
 - Working Group preview draft