

IEEE 802.3 Working Group November 2009 Plenary Week

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Current IEEE 802.3 activities

- IEEE P802.3az Energy Efficient Ethernet
- IEEE P802.3ba 40 Gb/s and 100 Gb/s Ethernet
- IEEE P802.3-2008/Cor 1 (IEEE 802.3bb) Pause Reaction Delay Corrigendum
- IEEE P802.3bd MAC Control Frame for Priority-based Flow Control
(project is being undertaken by the IEEE 802.1 DCB Task Group)
- IEEE P802.3.1 (IEEE 802.3be) Ethernet MIB
- IEEE 802.3 Ethernet Support for the IEEE P802.1AS Time Synchronization Protocol Study Group

IEEE P802.3az Energy Efficient Ethernet

- Description
 - Transition to and from low-power use state in response to network demand
 - PHY energy efficiency enhancements for selected PHY types (twisted pair and backplane)
 - Maximize transparency to higher layers
 - Lower power 10BASE-T
- Meeting plan
 - Resolve comments on Working Group recirculation ballot draft IEEE P802.3az/D2.1

IEEE P802.3ba 40 Gb/s & 100 Gb/s Ethernet

- Description
 - Define operation at 40 Gb/s & 100 Gb/s over adopted objectives for link media / distance
 - 40 Gb/s, at least: 1 m backplane, 10 m copper cable, 100 m OM3 multimode fiber, 10 km single mode fiber
 - 100 Gb/s, at least: 10 m copper cable, 100 m OM3 multimode fiber, 10 km single mode fiber, 40 km single mode fiber
- Meeting plan
 - Resolve comments on Working Group recirculation ballot draft IEEE P802.3ba/D2.3

IEEE 802.3 Maintenance

- Projects:
 - IEEE P802.3-2008/Cor 1 (IEEE 802.3bb)
Pause Reaction Delay Corrigendum
 - Increase the Pause reaction delay value allocated to 10GBASE-T and 10GBASE-KR with FEC PHYs
- Meeting plan
 - Consider new maintenance requests
 - Prepare to request approval for RevCom submittal of IEEE P802.3-2008/Cor1 (IEEE 802.3bb)

IEEE P802.3.1 Ethernet MIB

- Provide SMIv2 (SNMP) and GDMO MIB modules specifications for Ethernet
 - Transfer existing SMIv2 Ethernet MIBs from Internet Engineering Task Force (IETF)
 - Transfer existing GDMO Ethernet MIBs from IEEE Std 802.3
 - Add extensions resulting from recent amendments of IEEE Std 802.3
 - Transfer the Ethernet LLDP extension MIB module from IEEE Std 802.1AB
- Meeting plan
 - Continue to review draft

IEEE 802.3 Ethernet Support for the IEEE P802.1AS Time Synchronization Protocol Study Group

- Study group to examine IEEE 802.3 Support for IEEE 802.1AS Time and Synchronization.
 - The IEEE 802.1 Audio/Video Bridging (AVB) project has requested IEEE 802.3 support for IEEE 802.1AS Timing and Synchronization protocol. A project would be completing the work begun in the IEEE 802.3 Residential Ethernet project, subsequently transferred to IEEE 802.1 that became the Audio Video Bridging (AVB) project.
- Meeting plan
 - Prepare to request approval of Objective, 5 Criteria and of NesCom submittal of PAR for IEEE P802.3bf Support of time synchronization protocols project.

40Gb/s Ethernet Single-mode Fibre PMD Call for Interest

- This is a Call for Interest in forming a Study Group to study the need for an amendment to the IEEE 802.3 standard to specify a 40Gb/s Ethernet Single-mode Fibre PMD optimized for client applications in the carrier environment. Based on this study the outputs will be (i) a recommendation to the IEEE 802.3 Working Group if such a amendment is required and (ii) if so a PAR, 5 Criteria and Objectives in support of a project to develop the amendment.

IEEE 802.3 Officers

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- IEEE 802.3 Maintenance request

- IEEE P802.3-2008/Cor 1 (IEEE 802.3bb) Pause Reaction Delay Corrigendum

- IEEE P802.3bc Ethernet Organizationally Specific TLVs

IEEE P802.3bd MAC Control Frame for Priority-based Flow Control

- This project is being undertaken by the IEEE 802.1 DCB Task Group

IEEE P802.3.1 (IEEE 802.3be) Ethernet MIB: Howard Frazier (hfrazier@broadcom.com)

IEEE 802.3 Ethernet Support for the IEEE P802.1AS Time Synchronization Protocol Study Group:
Steve Carlson (scarlson@ieee.org)

Preliminary Meeting Plan

	Mon	Tue	Wed	Thu
AM	LMSC Plenary	IEEE P802.3az IEEE P802.3ba	IEEE P802.3az IEEE P802.3ba IEEE 802.3 TSSG Joint meeting with IEEE 802.1AS	IEEE P802.3az IEEE P802.3ba
PM	IEEE 802.3 Opening Plenary	IEEE P802.3az IEEE P802.3ba IEEE 802.3.1	IEEE P802.3az IEEE P802.3ba IEEE 802.3 TSSG Maintenance	IEEE 802.3 Closing Plenary
	40Gb/s Single- mode PMD CFI			

IEEE 802.3 TSSG

IEEE 802.3 Ethernet Support for the IEEE P802.1AS
Time Synchronization Protocol Study Group

IEEE 802.3 Standards

- IEEE Std 802.3TM-2008 (26 Dec 08 / 26 Dec 08)*
 - IEEE Std 802.3avTM-2009 (11 Sep 09 / 30 Oct 09)
 - IEEE Std 802.3bcTM-2009 (11 Sep 09 / 28 Sep 09)
 - IEEE Std 802.3atTM-2009 (11 Sep 09 / 30 Oct 09)

* Available through Get IEEE 802

<http://standards.ieee.org/getieee802/802.3.html>

Note: Dates are Approval date / Publication date

Current project drafts

- IEEE P802.3az/D2.1 Energy-efficient Ethernet
 - Working Group recirculation ballot draft
- IEEE P802.3ba/D2.3 40Gb/s and 100Gb/s Ethernet
 - Working Group recirculation ballot draft
- IEEE P802.3-2008/Cor 1/D2.0 (IEEE 802.3bb) Pause Reaction Delay Corrigendum
 - Initial Sponsor ballot draft
- IEEE P802.3.1/D1.1 Ethernet MIB
 - Task Force review draft