

IEEE 802.3 Working Group March 2010 Plenary Week

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

Current IEEE 802.3 activities

- IEEE P802.3az Energy Efficient Ethernet
- IEEE P802.3ba 40 Gb/s and 100 Gb/s Ethernet
- 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
- IEEE P802.3bf Ethernet Support for the IEEE P802.1AS Time Synchronization Protocol
- IEEE 802.3 40Gb/s Ethernet Single-mode Fibre PMD 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/D2.3

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, 7 m copper cable, 100 m OM3 multimode fiber, 10 km single mode fiber
 - 100 Gb/s, at least: 7 m copper cable, 100 m OM3 multimode fiber, 10 km single mode fiber, 40 km single mode fiber
- Meeting plan
 - Resolve comments on Sponsor recirculation ballot draft IEEE P802.3ba/D3.1

IEEE P802.3bf Ethernet Support for the IEEE P802.1AS Time Synchronization Protocol Task Force

- Description
 - Provide an accurate indication of the transmission and reception initiation times of certain packets as required to support IEEE P802.1AS.
- Meeting plan
 - Review of initial draft IEEE P802.3bf/D0.21

IEEE P802.3.1 Ethernet MIB

- Description
 - 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
 - Prepare for request to proceed to Working Group ballot

IEEE 802.3 40Gb/s Ethernet Single-mode Fiber PMD Study Group

- Description
 - 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
- Meeting plan
 - Prepare to request approval of Objectives, 5 Criteria and NesCom submittal of PAR for IEEE P802.3bg Amendment: Physical Layer and Management Parameters for Serial 40 Gb/s Ethernet Operation Over Single Mode Fiber

IEEE 802.3 Maintenance

- Meeting plan
 - Consider new maintenance requests
 - Consider outstanding maintenance requests
 - Consider IEEE Std 802.3 revision plan

IEEE 802.3 Officers

IEEE 802.3 Chair: David Law (david_law@3com.com)

IEEE 802.3 Vice Chair: Wael Diab (wdiab@broadcom.com)

IEEE 802.3 Exec. Secretary: Steve Carlson (scarlson@ieee.org)

IEEE 802.3 Secretary: Adam Healey (adam.healey@lsi.com)

IEEE 802.3 Treasurer (acting): Wael Diab (wdiab@broadcom.com)

IEEE P802.3az Energy Efficient Ethernet: Mike Bennett (mjbennett@lbl.gov)

IEEE P802.3ba 40 Gb/s and 100 Gb/s Ethernet: John D'Ambrosia (jdambrosia@ieee.org)

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 P802.3bf Time Synchronization: Steve Carlson (scarlson@ieee.org)

IEEE 802.3 Maintenance: Wael Diab (wdiab@broadcom.com)

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

IEEE 802.3 40Gb/s Ethernet Single-mode Fiber PMD Study Group:

Mark Nowell (mnowell@ieee.org)

Preliminary Meeting Plan

	Mon	Tue	Wed	Thu
AM		IEEE P802.3az IEEE P802.3ba IEEE P802.3bf	IEEE P802.3az IEEE P802.3ba IEEE P802.3bf 40G SMF SG	IEEE P802.3az IEEE P802.3ba IEEE P802.3bf
PM	IEEE 802.3 Opening Plenary	IEEE P802.3az IEEE P802.3ba IEEE P802.3bf IEEE 802.3.1	IEEE P802.3az IEEE P802.3ba IEEE P802.3bf 40G SMF SG Maintenance	IEEE 802.3 Closing Plenary

40G SMF SG

IEEE 802.3 40Gb/s Ethernet Single-mode
Fiber PMD 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)
 - IEEE Std 802.3-2008/Cor1 (9 Dec 09 / 1 Feb 10)*

* 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/D2.3 Energy-efficient Ethernet
 - Working Group recirculation ballot draft
- IEEE P802.3ba/D3.1 40Gb/s and 100Gb/s Ethernet
 - Sponsor recirculation ballot draft
- IEEE P802.3bf/D0.21 Time Synchronization
 - Task Force review draft
- IEEE P802.3.1/D1.9 Ethernet MIB
 - Working Group preview draft