

IEEE 802.3 Working Group November 2010 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 P802.3bd 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 P802.3bg 40Gb/s Ethernet Single-mode Fiber PMD
- 100Gb/s Ethernet Electrical Backplane and Copper Cable Assemblies Call for Interest

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
 - Resolve comments on Working Group recirculation ballot draft IEEE P802.3bf/D2.1

IEEE P802.3bg 40Gb/s Ethernet Single-mode Fiber PMD Task Force

- Description
 - Provide 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
 - Resolve comments on Working Group recirculation ballot draft IEEE P802.3bg/D2.1

IEEE P802.3.1 Ethernet MIB Task Force

- 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
 - Third recirculation ballot on draft IEEE P802.3az/D2.3 closed with no new negative ballots, no new comments and exceeded the required 75% for consensus to approve the draft. The IEEE P802.3.1 Task Force will be meeting during the IEEE 802 November plenary week to progress the project.

100Gb/s Ethernet Electrical Backplane and Copper Cable Assemblies Call for Interest

- Front panel port density and electrical backplane bandwidth requirements are being driven upward by aggregation and computing applications. For the front panel, these applications will drive the need for a narrower 100 Gb/s Ethernet interface for copper twinaxial cable assemblies than currently defined by 100GBASE-CR10. For the backplane, these applications will drive the need for a 100 Gb/s Ethernet interface which is not currently defined by an IEEE standard. This call for interest will request the formation of a study group to explore the market need and solutions for these application spaces.

IEEE 802.3 Maintenance

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

IEEE 802.3 Officers

IEEE 802.3 Chair: David Law (dlaw@hp.com)

IEEE 802.3 Vice Chair: Wael 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 P802.3bd 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 P802.3bg 40Gb/s Ethernet Single-mode Fiber PMD: Mark Nowell (mnowell@ieee.org)

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

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

Preliminary Meeting Plan

	Mon	Tue	Wed	Thu
AM		IEEE P802.3bf IEEE P802.3bg IEEE 802.3.1	IEEE P802.3bf IEEE P802.3bg	IEEE P802.3bf IEEE P802.3bg
PM	IEEE 802.3 Opening Plenary	IEEE P802.3bf IEEE P802.3bg IEEE 802.3.1 Maintenance CFI meeting	IEEE P802.3bf IEEE P802.3bg	IEEE 802.3 Closing Plenary

CFI : 100Gb/s Ethernet Electrical Backplane and Copper Cable Assemblies Call for Interest

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/Cor1-2009TM (9 Dec 09 / 1 Feb 10)*
 - IEEE Std 802.3baTM-2010 (17 Jun 10 / 22 Jun 10)
 - IEEE Std 802.3azTM-2010 (30 Sep 10 / 27 Oct 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 P802.3bf/D2.1 Time Synchronization
 - First Working Group recirculation ballot draft
- IEEE P802.3bg/D2.1 40Gb/s Single-mode Fiber PMD
 - First Working Group recirculation ballot draft
- IEEE P802.3.1/D2.3 Ethernet MIB
 - Third Working Group recirculation ballot draft