IEEE 802.3 Working Group
November 2010 Plenary Week

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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

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CFI : 100Gb/s Ethernet Electrical Backplane and Copper Cable Assemblies 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)

* 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