IEEE 802.3 Working Group November 2008 Plenary Week

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Current IEEE 802.3 activities

- IEEE P802.3ar, Congestion Management
- IEEE P802.3at, DTE Power Enhancements
- IEEE P802.3av, 10 Gb/s EPON
- 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) Corrigendum 1 Timing considerations for PAUSE operation
- IEEE P802.3bc, Ethernet Organizationally Specific TLVs
- IEEE P802.3.1, Ethernet Management Information Base

IEEE P802.3ar Congestion Management

- Proposed modified project documents failed to gain consensus support in July 2006
- Project is basically in stalemate induced inactivity
  - July 2007 motion to withdraw the project failed
  - On the Dec 2008 administrative withdrawal list
    - Consensus at IEEE P802.3ar Task Force meeting in March was to leave on administrative withdrawal list
    - No action by Working Group to do otherwise
- Meeting plan
  - No meeting planned
    - No reason to revisit the current stalemate

IEEE P802.3at DTE Power Enhancements

- Increase the amount of power delivered over twisted pair copper from that specified by IEEE Std 802.3af-2003 (Clause 33 of IEEE Std 802.3)
  - At least 24 watts at powered device
  - Maintain compatibility with IEEE Std 802.3 Clause 33
- Meeting plan
  - Resolve comments on Working Group recirculation ballot draft IEEE P802.3at/D3.2
  - Prepare to request conditional approval to proceed to Sponsor ballot

IEEE P802.3av 10 Gb/s EPON

- Define higher speed Ethernet passive optical network operation
  - 10 Gb/s downstream/1 Gb/s upstream, single SM fiber
  - 10 Gb/s downstream/10 Gb/s upstream, single SM fiber
  - Up to 3 power budgets that support 1:16 and 1:32 split ratios at distances of at least 10 and at least 20 km

- Meeting plan
  - Resolve comments on Working Group recirculation ballot draft IEEE P802.3av/D2.1
  - Prepare to request conditional approval to proceed to Sponsor ballot

IEEE P802.3az Energy Efficient Ethernet

- Transition to and from low-power use state in response to network demand
  - PHY energy efficiency enhancements for selected PHY types (popular twisted pair and backplane)
  - Maximize transparency to higher layers

- Meeting plan
  - Review comments received during Task Force review of draft IEEE P802.3az/D1.0
  - Continue to consider and refine draft

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

- 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
    - 10 km single mode fiber objective addition in March
      - Related 5 criteria update
  - 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
  - Review comments received during Task Force review of draft IEEE P802.3ba/D1.0
  - Continue to consider and refine draft

IEEE 802.3 Maintenance

- Draft PARs:
  - IEEE P802.3.1 Standard for Management Information Base (MIB) definitions for Ethernet
  - IEEE P802.3-2008/Cor 1 (IEEE 802.3bb) Corrigendum 1 Timing considerations for PAUSE operation
  - IEEE P802.3bc Amendment: Ethernet Organizationally Specific TLVs

- Meeting plan
  - Consider new maintenance request
  - Progress PARs
  - Prepare to request conditional approval to proceed to Working group ballot for IEEE P802.3bc/D1.0

IEEE 802.3 Officers

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

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IEEE P802.3ar Congestion Mgt: contact WG Chair

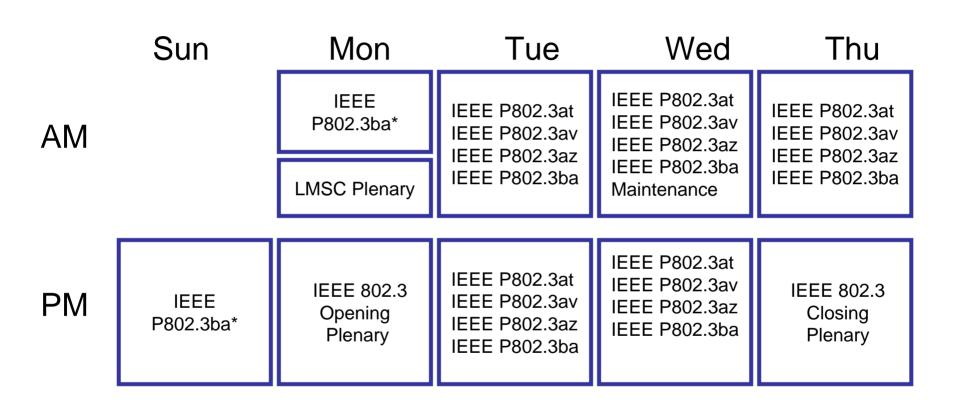IEEE P802.3at DTE Power Enhancements: Mike McCormack (mike_mccormack@ti.com)

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

Preliminary Meeting Plan

	Sun	Mon	Tue	Wed	Thu
AM		IEEE P802.3ba* LMSC Plenary	IEEE P802.3at IEEE P802.3av IEEE P802.3az IEEE P802.3ba	IEEE P802.3at IEEE P802.3av IEEE P802.3az IEEE P802.3ba Maintenance	IEEE P802.3at IEEE P802.3av IEEE P802.3az IEEE P802.3ba
PM	IEEE P802.3ba*	IEEE 802.3 Opening Plenary	IEEE P802.3at IEEE P802.3av IEEE P802.3az IEEE P802.3ba	IEEE P802.3at IEEE P802.3av IEEE P802.3az IEEE P802.3ba	IEEE 802.3 Closing Plenary

* Pre-plenary interim meeting

IEEE 802.3 Standards

- IEEE Std 802.1AX™-2008 Link Aggregation [Note 1]
- IEEE Std 802.3™-2008 Ethernet [Note 2]

Note 1 – To be transferred to IEEE 802.1.
Note 2 – Publication expect December 2008

*   Available through Get IEEE 802
http://standards.ieee.org/getieee802/802.3.html

Current project drafts

- IEEE P802.3ar/D1.3 - Congestion Management
  - No active work at this time
- IEEE P802.3at/D3.2 - DTE Power Enhancements
  - Work Group recirculation ballot comment resolution
- IEEE P802.3av/D2.1 – 10Gb/s EPON
  - Work Group recirculation ballot comment resolution
- IEEE P802.3az/D1.0 – Energy-efficient Ethernet
  - Task Force review
- IEEE P802.3ba/D1.0 – 40Gb/s and 100Gb/s Ethernet
  - Task Force review
- IEEE P802.3bc/D1.0 – Ethernet Organizationally Specific TLVs
  - In Working Group preview for Working Group ballot approval