

# 802.3az Task Force Layer 2 Ad-Hoc Report

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Quebec City, Quebec, Canada

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# Ad-Hoc Participants – Thank You!

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<u>Name</u>	<u>Affiliation</u>
Mike Bennett	LBNL
Wael William Diab	Broadcom
Bryan Dietz	Alcatel-Lucent
John Fuller	LBNL
Eric Mann	Intel
Anoop Vetteth	Cisco

# Agenda

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- Report on April ad-hoc meeting
  - Meeting agenda
  - Outcome of draft review
  - Contributions
  - Straw polls
  - Consensus recommendations
  - Big ticket items
- Motions to adopt ad-hoc recommendations
- Future work discussion

# April Ad-Hoc Meeting

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- Met 1 time on 16<sup>th</sup> of April at 11.30AM PST for 1.5 hours
- Agenda of meeting
  - Review the patent policy
  - Review changed / new portions of the L2 related sections in D1.3
  - Discussion on L2 / management section support for LLDP and alignment with P802.3bc
  - Consider and review any new proposals or submissions
  - Make a list of big ticket items for L2 / LLDP
  - Discuss next meeting / steps of the Ad Hoc

# Outcome of Draft Review

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- Spent about 50% of the ad-hoc time walking through the draft section by section
- No BIG errors
- Minor errors described in consensus section

# Consensus Recommendations

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- Section 78.4.3
  - Replace “An EEE link partner shall send an LLDPDU containing an EEE TLV within 10 seconds of the Link Layer capability exchange being enabled as indicated by the variable dll\_enabled.”
  - with “An EEE link partner shall send an LLDPDU containing an EEE TLV within 10 seconds of the Link Layer capability exchange being enabled when both the variables dll\_enabled and dll\_ready are asserted.”
- State Machine
  - The state diagram transition condition between TX UPDATE and SYSTEM REALLOCATION contains an "OR" that should be an "AND".
  - Replace the use of the term CHANGED with a temporary variables for both TX and RX machines same as 802.3at
  - CAPS on NEW\_RX\_VALUE

# Contributions

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- Discussed proposal for fallback states
  - Unanimous consensus on developing the idea
  - Request that detail editorial changes be presented to the TF
  - See diab\_vetteth\_01\_0409.pdf
- Discussed proposal for triggering L2 SM after the EEE capability discovery
  - Request to minimize changes to the auto-negotiation
- *Consensus recommendation was to entertain detailed proposals above for review and recommendation to the Task Force*

# Proposal to Trigger Layer 2

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- Goal is to not touch the auto-negotiation machines
  - Detail of proposal was not reviewed in ad-hoc
- Proposal
  - Create a Clause 30 attribute that
    - Is 0 by default
    - Is 1 when
      - Indicates whether Auto-Negotiation signaling has completed AND
      - If you have received a EEE Technology Message Code with any of the bits set to a 1



# Straw Polls

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- Would like to see a proposal for EEE Fallback States
  - Y: All present\*
  - N: 0
- \* Note: Request to submit a detailed proposal with editorial changes to minimize any schedule impact

# L2 and LLDP Work Plan

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- Need to realign draft with 802.3bc
- Consensus was to do going into WG preview but after 802.3bc is stable
- L2 ad-hoc willing to work with editorial team on review to align with 802.3bc and latest 802.3at. Areas include
  - Changing nomenclature to match .3bc
  - Changing TLV section to be edits to C79
  - Adding attributes, packages and object classes to C30

# Big Ticket Items for Layer 2

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- L2 and LLDP edits to align with 802.3bc
- Complete open proposals
  - Triggering L2 from auto-negotiation capability exchange
  - Fallback states
- Complete the management section

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# Motion

- Move
  - IEEE P802.3az Task Force adopt the consensus recommendations and proposal to trigger the Layer 2 as captured in ad-hoc report, diab\_01\_0409.pdf pages 6, 7 and 8. Editorial team to incorporate changes into D1.4.
  - M: W. Diab
  - S: A. Vetteth
  - All                      Y:12 N:0                      A:2
  - Tech (75%)
  - Motion Passes            4.09PM            April 29<sup>th</sup> 2009

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# Future Work of the Ad-Hoc

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- Suggest another meeting to allow for additional review