

# Electrical Interface Ad-hoc Meeting - Opening/Agenda

IEEE P802.3bs 400Gb/s Ethernet Task Force  
30<sup>th</sup> November 2015

# Opening

- The charter of the Electrical Interface Ad hoc is:
  - Address all issues in relation to the electrical interfaces to ensure progress towards a technically complete draft.
    - *Identify issues or omissions in the draft*
    - *Find consensus now, rather than in comment resolution.*
  
- Next Ad-hoc Meetings
  - Monday 7<sup>th</sup> & 14<sup>th</sup> December 8-10am PDT

# Patent Policy

- <http://www.ieee802.org/3/patent.html>

# Agenda

Ad-hoc Opening/Agenda/Closing	Andre Szczepanek	szczepanek_01_113015_elect
Channel Operating Margin (COM) proposal for CDAUI-8 C2C	Raj Hegde Magesh Valliappan	hegde_01_113015_elect.pdf

# Items for further work – Common

1. CDR Bandwidth
  - 4MHz or 10MHz ?

# TBDs & Magenta text – 120D (CDAUI-8 C2C)

- No TBD's in 120D !
- **Magenta** values in the COM parameters table

# Items for further work – 120D (CDAUI-8 C2C)

1. Get agreement on consistent set of COM parameter values (and change to black rather than magenta)
  - Rd value of  $55\Omega$  is inconsistent with other values from healey\_3bs\_02\_1115.pdf
2. Jitter measurement methodology (Comment #45)
3. Jitter Tolerance frequencies
  - A straw poll in comment resolution showed a (4 to 2) majority for increasing the number of points to greater than 2
    - Further work on Jitter tolerance frequencies was requested

# TBDs & Magenta text – 120E (CDAUI-8 C2M)

## TBDs

1. Transition Time
  - At Host output (TP1a)
  - At Module output (TP4)
2. Pattern generator jitter characteristics
  - Total Jitter
  - Random Jitter
  - Max even-odd jitter

## Other Magenta

1. Crosstalk Transition Time “12ps”
2. CRU corner frequency “10MHz”
3. *ESMW* (Eye symmetry Mask Width) “0.25UI”
4. Applied pk-pk sinusoidal jitter “Table 88-13”

# Items for further work – 120E (CDAUI-8 C2M)

1. We have had a couple of presentations indicating improved C2M margin through adding low frequency equalization to the reference CTLE
  - Now need a proposal/comment detailing CTLE changes
    - Better still get consensus here at the ad-hoc and take a consensus comment into Draft 1.1 review
2. ILD of informative channel (Comment #188)
  - Supporting presentation justifying need and proposing changes was requested

# Backup

# Participants, Patents, and Duty to Inform

All participants in this meeting have certain obligations under the IEEE-SA Patent Policy.

- **Participants [Note: Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2]:**
  - **“Shall inform the IEEE (or cause the IEEE to be informed)” of the identity of each “holder of any potential Essential Patent Claims of which they are personally aware” if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents**
  - **“Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of potential Essential Patent Claims” (that is, third parties that are not affiliated with the participant, with the participant’s employer, or with anyone else that the participant is from or otherwise represents)**
- **The above does not apply if the patent claim is already the subject of an Accepted Letter of Assurance that applies to the proposed standard(s) under consideration by this group**
- **Early identification of holders of potential Essential Patent Claims is strongly encouraged**
- **No duty to perform a patent search**

# Patent Related Links

All participants should be familiar with their obligations under the IEEE-SA Policies & Procedures for standards development.

Patent Policy is stated in these sources:

IEEE-SA Standards Boards Bylaws

*<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>*

IEEE-SA Standards Board Operations Manual

*<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>*

Material about the patent policy is available at

*<http://standards.ieee.org/about/sasb/patcom/materials.html>*

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at [patcom@ieee.org](mailto:patcom@ieee.org) or visit <http://standards.ieee.org/about/sasb/patcom/index.html>

This slide set is available at  
<https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt>

# Call for Potentially Essential Patents

- If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance:
  - Either speak up now or
  - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible or
  - Cause an LOA to be submitted