Electrical Interface Ad-hoc Meeting - Opening/Agenda/Work-items

IEEE P802.3bs 200 & 400 Gb/s Ethernet Task Force 27th February 2017

Opening

The charter of the Electrical Interface Ad hoc is:

- Address all issues in relation to the electrical interfaces to ensure progress towards a final draft.
 - Identify issues or omissions in the draft
 - Find consensus now, rather than in comment resolution.
- Next Ad-hoc Meeting
 - Monday 6th March
- Attendees names and affiliations will be taken from the Webex participants list.
 - Please use an e-mail address indicating affiliation when signing in. If you attend via phone only, or if your employer and affiliation are different, please send me an e-mail.

Patent Policy

http://www.ieee802.org/3/patent.html

Participation in IEEE 802 Meetings

- All participation in IEEE 802 Working Group meetings is on an individual basis
 - Participants in the IEEE standards development individual process shall act based on their qualifications and experience. (<u>https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf</u> section 5.2.1)
- IEEE 802 Working Group membership is by individual; "Working Group members shall participate in the consensus process in a manner consistent with their professional expert opinion as individuals, and not as organizational representatives". (<u>http://ieee802.org/PNP/approved/IEEE_802_WG_PandP_v19.pdf section 4.2.1</u>)
 - You have an obligation to act and vote as an individual and not under the direction of any other individual or group. Your obligation to act and vote as an individual applies in all cases, regardless of any external commitments, agreements, contracts, or orders
 - You shall not direct the actions or votes of any other member of an IEEE 802 Working Group or retaliate against any other member for their actions or votes within IEEE 802 Working Group meetings, see https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf section 5.2.1.3 and https://ieee802.org/PNP/approved/IEEE_802_WG_PandP_v19.pdf section 3.4.1, list item x
- By participating in IEEE 802 meetings, you accept these requirements. If you do not agree to these policies then you shall not participate.

Agenda

Ad-hoc Opening/Agenda D3.0 Comment review	Andre Szczepanek	szczepanek_01_022717_elect
Straw poll results		

Agenda & Minutes

- Any objections to the Agenda ?
- Any objections to the minutes from the last meeting ?
 - <u>http://www.ieee802.org/3/bs/public/adhoc/elect/20Feb_17/minute</u>
 <u>s_draft_20-Feb_2017_elect.pdf</u>

D3.0 Comment big-ticket items (1)

Merge/restructure Jitter sub-clauses

- **i-87**, i-157, i-63, i-32, & i-33
- I propose "Grant editorial license to relocate and merge 120D.3.1.1 and 120D.3.1.8." as response to all these comments

D3.0 Comment big-ticket items (2)

Jitter measurement methodology

- **i-26**, i-86, i-114, i-115, i-116, i-68, & i-88
- I propose accepting i-26 remedy (as modified below) as response to these comments

Replace lines 43 to 50 with the following:

For each transition i, $1 \le 12$, of the transitions specified in Table 120D-2, obtain a set $S_i = \{t_i(1), t_i(2), ...\}$ of transition times modulo the period of the pattern. The size of all sets should be chosen to enable calculation of J4 (as defined below) with sufficient accuracy.

Calculate the average of each set S_i, t_i_Avg, and subtract it from all elements of that set, to create a set S_i0={t_i(1)-t_i_Avg, t_i(2)-t_i_Avg, ...}.

Combine the sets S_i0, i=1 to 12, to create an estimated probability distribution $f_J(t)$.

J4 is defined as the time interval that includes all but 10⁻⁴ of f_J(t), from the 0.005th to the 99.995th percentile of f_J(t).

J_RMS is defined as the standard deviation of $f_J(t)$.

Straw-man jitter sub-clause

The editor is willing to create a prototype combined jitter sub-clause for presentation at the next ad-hoc meeting

— Should this include the i-26 remedy ?

D3.0 Comment big-ticket items (3)

C2M margin with connector crosstalk
 i-94, i-77, i-78, i-95, i-100, i-66, & i-124

C2M Xtalk issue Straw Poll results

- Option A: Change 10.2 dB to 7.5 dB for current MDI crosstalk with CL120.d TX
- Option B: Reduce MDFEXT=2.8 mV and PSXT=2.9 mV and define an improved CL120.d TX to support 10.2 dB
- Option C: Reduce C2M channel loss to 7.5 dB and leave the current crosstalk limit of CL 92, then add an informative section on engineered link implementation to support up to 10.2 dB using COM analysis.
- Option D (not in Ali's presentation): Reduce MDFEXT=2.8 mV and PSXT=2.9 mV and define a reduced receiver Vertical Eye Opening to support 10.2 dB
- 12 responses received
 - Option A : 0
 - Option B : 1
 - Option C : 2
 - Option D: 6
 - B & D : 1
 - B or D : 1
- None of the above : 1



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 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

