

Electrical Interface Ad-hoc Meeting

- Opening/Agenda/Work-items

IEEE P802.3bs 200 & 400 Gb/s Ethernet Task Force 6th July 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
 - TBD after plenary
- 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.**
(https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf 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”. (subclause 4.2.1 “Establishment”, of the IEEE 802 LMSC Working Group Policies and Procedures)**
- **Participants have an obligation to act and vote as an individual and not under the direction of any other individual or group. A Participant’s obligation to act and vote as an individual applies in all cases, regardless of any external commitments, agreements, contracts, or orders.**
- **Participants 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 the IEEE 802 LMSC Working Group Policies and Procedures, subclause 3.4.1 “Chair”, 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.

(Latest revision of IEEE 802 LMSC Working Group Policies and Procedures: <http://www.ieee802.org/devdocs.shtml>)

Agenda

Ad-hoc Opening/Agenda/Work Items	Andre Szczepanek	szczepanek_01_070617_elect
Making Jitter Specs Compatible	Piers Dawe	dawe_01_070617_elect
C2M Spec Consistency And Tolerancing	Piers Dawe	dawe_02_070617_elect

Agenda & Minutes

- Any objections to the Agenda ?
- Any objections to the minutes from the last meeting ?
 - http://www.ieee802.org/3/bs/public/adhoc/elect/15May_17/minutes_draft_15-May_2017_elect.pdf

Work Items

Test Fixture Return Loss (r02-41/58/57/10)

- Tx and Rx test fixtures are already defined in 120D.2
 - Comment r02-57 can be rejected
 - However we have some work to do on test fixture R_L ...

120D.2 200GAUI-4 and 400GAUI-8 chip-to-chip compliance point definition

*The electrical characteristics for the 200GAUI-4 and 400GAUI-8 chip-to-chip interfaces are defined at compliance points for the transmitter (TP0a) and receiver (TP5a). The location of TP0a and electrical characteristics of the test fixture used to measure **transmitter** characteristics are defined in Figure 93-5 and 93.8.1.1, respectively, with the exception that the upper frequency for Equation 93-1 and Equation 93-2 is 26.5625 GHz. The location of TP5a and electrical characteristics of the test fixture used to measure the **receiver** are defined in Figure 93-10 and 93.8.2.1, respectively, with the exception that the upper frequency for Equation 93-1 and Equation 93-2 is 26.5625 GHz.*

Test Fixture Return Loss (r02-41/58/57/10)

- Comment r02-41 seeks to tighten the Tx test fixture R_L to compensate for the tightened Transmitter R_L
 - If we do this we need to agree on a new Tx TF R_L equation
 - r02-58 proposes changing the second half of the equation 120D-2 to:
 - "10.65 -0.4f"
 - The new equation would be placed in sub-clause 120D.2
- Comment r02-60 seeks to restore alignment of Rx R_L with Tx R_L
 - We should do this.
 - But if we do, we need to tighten Rx test fixture RL accordingly
 - As requested in comment r02-10
 - Can we use the new Tx equation ?

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