IEEE 802.3 Maintenance Task Force
13 March 2019
Vancouver, BC Canada

Adam Healey
Chair, IEEE 802.3 Maintenance TF
Vice Chair, IEEE 802.3 Ethernet WG

Agenda

- Introductions
- Review and approve agenda
- Approve minutes
- Guidelines for IEEE-SA Meetings
- Participation in IEEE 802 Meetings
- Attendance procedures
- Review open maintenance requests
- Standard(s) to ISO/IEC JTC 1/SC 6 for approval
- Preview of proposed Clause 145 Maintenance PAR
- Timestamping discussion
- Future meetings

Agenda and minutes motions

- Motion #1: Approve the agenda as amended
  - M: R. Grow   S: S. Trowbridge
  - Procedural (> 50%)
  - Passed by voice without opposition

- January 2019 minutes were posted 15 January 2019

- Motion #2: Approve the January 2019 minutes
  - M: D. Law   S: S. Gorshe
  - Procedural (> 50%)
  - Passed by voice without opposition

Guidelines for IEEE-SA Meetings

- **All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.**

  - **Don't discuss the interpretation, validity, or essentiality of patents/patent claims.**

  - **Don't discuss specific license rates, terms, or conditions.**

    - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.

      - **Technical considerations remain the primary focus**

  - **Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.**

  - **Don't discuss the status or substance of ongoing or threatened litigation.**

  - **Don't be silent if inappropriate topics are discussed … do formally object.**

**For more details, see *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and
Antitrust and Competition Policy: What You Need to Know at
http://standards.ieee.org/develop/policies/antitrust.pdf**

**If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at
patcom@ieee.org**

◈IEEE

Participation in IEEE 802 Meetings

Participation in any IEEE 802 meeting (Sponsor, Sponsor subgroup, Working Group, Working Group subgroup, etc.) 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)

Attendance procedures

- IEEE Meeting Attendance Tool
  - http://imat.ieee.org/

- For more information, please see…
  - http://ieee802.org/3/minutes/attendance_procedures.pdf

- Please sign the attendance sheet for the Task Force meeting minutes

Maintenance request ballot status

- http://www.ieee802.org/3/maint/requests/open_num.html

Maintenance request status

- 10 new requests received since January 2019 meeting
- Deadline for consideration was 4 February
- 36 open maintenance requests
- Current status of open requests
  - Approved   0
  - Balloting   0
  - Ready for ballot   22
  - Awaiting clarification   0
  - Errata   0
  - To be categorized   14

Maintenance requests to be categorized

No.	Date	Standard	Clause	Subject
1326	04-Jan-19	802.3-2018	Various, see details	Update bibliographical reference
1327	08-Jan-19	802.3-2018	45.2.3.75	Redundant "shall"
1328	11-Jan-19	802.3-2018	73.8	Definition of link_control_[x]
1329	13-Jan-19	802.3-2018	40A.2	Incorrect cross-reference
1330	17-Jan-19	802.3-2018	75.1.4	Mis-labeled power budgets
1331	18-Jan-19	802.3-2018	Various, see details	Incorrect cross-references in PICS
1332	24-Jan-19	802.3-2018	138.11.4.6	Incorrect value/comment in PICS
1333	28-Jan-19	802.3-2018	80.5	Express skew in units of absolute time and UI
1334	01-Feb-19	802.3-2018	113.7.3.1.1	Simplify PSANEXT limit
1335	01-Feb-19	802.3-2018	113.7.4.3.9	Simplify PSANEXT limit
1336	04-Feb-19	802.3-2018	116.5	Missing cross-references
1337	08-Feb-19	802.3-2018	Various, see details	Move P2MP (and related clauses) into own standard
1338	09-Feb-19	802.3-2018	Figure 2-2	Change "PHY" to "Physical Layer"
1339	19-Feb-19	802.3-2018	1.5	Incorrect expansion of abbreviation

For consideration this week

Maintenance request 1326

- Update bibliographical reference (to ISO/IEC TR 11801-9905) to point to the published version (it currently points to a draft).

- In scope: Yes/~~No~~

- Errata: ~~Yes~~/No

- Complete: Yes/~~No~~

- Change the status to "Ready for ballot".

Maintenance request 1327

- In 45.2.3.75, remove the sentence "Register 3.2313.15 shall be cleared when register 3.2317 is read."

- The rationale is that this requirement also stated in Table 45-243 and 45.2.3.74.1 where this bit is defined.

- There are actually three locations where this requirement is defined with associated PICS items (RM134, RM135, RM136).

- Sometimes 3.2313.15 is referred to as a "bit" and sometimes as a "register" (it is a bit) It seems more changes are required to remedy this issue.

- Keep the status of this request as "Received" until an update with additional revision text is provided.

Maintenance request 1328

- Description of link_control_[x] in Table 73-6 was not updated to include bits used to indicate negotiation of more recent PHYs
  - 25GBASE-CR/KR-S, 25GBASE-CR/KR
  - 2.5GBASE-KX, 5GBASE-KR
  - 50GBASE-CR/KR, 100GBASE-CR2/KR2, 200GBASE-CR4/KR4
- Update the description to include the new PHYs
- In scope: Yes/~~No~~
- Errata: ~~Yes~~/No
- Complete: Yes/~~No~~
- Change the status to "Ready for ballot".

Maintenance request 1329

- In 40A.2, reference to "if the channel specifications of 40.8…" should be "if the channel specifications of 40.7…".

- In scope: <u>Yes</u>/~~No~~

- Errata: ~~Yes~~/<u>No</u>

- Complete: <u>Yes</u>/~~No~~

- Change the status to "Ready for ballot".

Maintenance request 1330

- This maintenance requests asks for a change that as already been made (during the last revision).

- It has been withdrawn.

Maintenance request 1331

- Incorrect correct references from PICS in 75.10.3 (item INS), 60.12.3 (item INS), and 75.10.4.19 (items ES2 and ES3).

- In scope: Yes/~~No~~

- Errata: ~~Yes~~/No

- Complete: Yes/~~No~~

- Change the status to "Ready for ballot".

Maintenance request 1332

- In Clause 138 (50GBASE-SR, 100GBASE-SR2, 200GBASE-SR4), PICS OC9 and OC10 Value/Comment does not align the text in the referenced subclause.

- Update the Value/Comment column of OC9 and OC10.

- In scope: Yes/~~No~~

- Errata: ~~Yes~~/No

- Complete: Yes/~~No~~

- Change the status to "Ready for ballot".

Maintenance request 1333

- Convert maximum skew variation in absolute time (ns) to UI for the SP0 and SP1 rows of the "25.78125 Gbaud" column of Table 80-7.

- This was overlooked when 25.78125 Gbaud/lane CAUI-4 was added.

- In scope: <u>Yes</u>/~~No~~

- Errata: ~~Yes~~/<u>No</u>

- Complete: <u>Yes</u>/~~No~~

- Change the status to "Ready for ballot".

Maintenance request 1334

- In 113.7.3.1.1, remove first part of Equation (113-28) which is 85 − 10 log10(f / 100) (dB), 1 $\leq$ f $\leq$ 100

- This part of the equation always has a value no less than 75 dB but the text below the equation states "When Equation (113–28) values are greater than 75 dB, they revert to 75 dB."

- Therefore, the limit is completely defined by the second part of Equation (113-28) and the subsequent text.

- In scope: <u>Yes</u>/~~No~~

- Errata: ~~Yes~~/<u>No</u>

- Complete: <u>Yes</u>/~~No~~

- Change the status to "Ready for ballot".

Maintenance request 1335

- In 113.7.4.3.9, remove first part of Equation (113-35) which is $85 - 10 \log 10(f / 100)$ (dB), $1 \leq f \leq 100$

- This part of the equation always has a value no less than 75 dB but the text below the equation states "When Equation (113–35) values are greater than 75 dB, they revert to 75 dB."

- Therefore, the limit is completely defined by the second part of Equation (113-35) and the subsequent text.

- In scope: <u>Yes</u>/~~No~~

- Errata: ~~Yes~~/<u>No</u>

- Complete: <u>Yes</u>/~~No~~

- Change the status to "Ready for ballot".

Maintenance request 1336

- Add cross-references from Table 116-7 "Summary of Skew constraints" and Table 116-8 "Summary of Skew Variation constraints", in the "Notes" column of SP2 to SP5 rows, to 136.6 "200GBASE-CR4", 137.6 "200GBASE-KR4", and 138.3 "200GBASE-SR4".

- In scope: <u>Yes</u>/~~No~~

- Errata: ~~Yes~~/<u>No</u>

- Complete: <u>Yes</u>/~~No~~

- Change the status to "Ready for ballot".

Standard(s) to ISO/IEC JTC 1/SC 6 for approval

[Motion]

Standard(s) to ISO/IEC motion

- Motion #4: Submit IEEE Std 802.3bt-2018 and IEEE Std 802.3cd-2018 to ISO/IEC JTC 1/SC 6 for ratification under the PSDO agreement.

  - M: C. Jones   S: R. Grow

  - Technical ($\geq$ 75%)

  - Passed by voice without opposition

Preview of proposed Clause 145 Maintenance PAR

[Review draft PAR responses]

Future meetings

- Week of 20 May 2019
  - Salt Lake City, UT
- See http://www.ieee802.org/3/interims/index.html

Adjourn

IEEE 802.3 Maintenance Task Force - March 2019