Logic Sub-Task Force
Agenda

IEEE P802.3ba
Quebec City  May 2009

Mark Gustlin – Cisco
Agenda

• Welcome and Introductions
• Approve the agenda
• Appoint / Volunteer Recording Secretary
• Call for Patents
• Resolve comments received for clauses
Logic Sub-Task Force Organisation

- Sub-Task Force Chair, Editor MII/RS and PCS Clauses
  Mark Gustlin
- Sub-Task Force Recording Secretary
  ??
- Editor Front Matter Clauses
  Ilango Ganga
- Editor Maintenance Clauses
  Hugh Barrass
- Editor PMA Clause
  Steve Trowbridge
- Editor Copper related Clauses
  Arthur Marris
Attendance

• Don’t forget to log your attendance today

https://seabass.ieee.org/imat/

Plus secret code (chateau)
Participants, Patents, and Duty to Inform

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

“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.

“Personal awareness” means that the participant “is personally aware that the holder may have a potential Essential Patent Claim,” even if the participant is not personally aware of the specific patents or patent claims.

“Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of such 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.

**Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2**

- Early identification of holders of potential Essential Patent Claims is strongly encouraged
- No duty to perform a patent search
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/guides/bylaws/sect6-7.html#6

IEEE-SA Standards Board Operations Manual


Material about the patent policy is available at

http://standards.ieee.org/board/pat/pat-material.html

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

http://standards.ieee.org/board/pat/index.html

This slide set is available at http://standards.ieee.org/board/pat/pat-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
Other Guidelines for IEEE WG 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, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.

Technical considerations remain 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.

See IEEE-SA Standards Board Operations Manual, clause 5.3.10 and “Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association’s Antitrust and Competition Policy” for more details.
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<tr>
<th>Time</th>
<th>Tuesday</th>
<th>Wednesday</th>
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<tr>
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We will only cover the T, TRs and ERs in the logic track, the E will be resolved by the editors. If anyone wants to discuss a particular E let me know and it can be reviewed in the STF.

231 comments to cover in the sub task force (minus a few that are covered in the common time)

Comments will be covered in the order as shown in the table.

<table>
<thead>
<tr>
<th>Description</th>
<th>Clause(s)</th>
<th>Editor</th>
<th>T</th>
<th>TR</th>
<th>E</th>
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<tr>
<td>Front Matter, MAC, 40G &amp; 100G Intro</td>
<td>00, 01, A, 4, 4A, 31B, 80, 99</td>
<td>Ilango Ganga</td>
<td>14</td>
<td>29</td>
<td>27</td>
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<td>Management</td>
<td>30, 45</td>
<td>Hugh Barrass</td>
<td>29</td>
<td>22</td>
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<td>Backplane related</td>
<td>73, 74</td>
<td>Arthur Marris</td>
<td>3</td>
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<td>RS/MII and PCS</td>
<td>81, 82</td>
<td>Mark Gustlin</td>
<td>15</td>
<td>19</td>
<td>21</td>
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<td>PMA</td>
<td>83, 83C</td>
<td>Steve Trowbridge</td>
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Overall document (00):
Easy E comments related to ToC and formatting
771, 650

Front matter (99):
Easy E comments
617, 621, 618, 619, 620 & 533, 532, 99, 649

Depends on resolution in other clauses
Easy T (take up after resolution in optical track):
212, 213, 214 (depends on 195, 201, 202 in Clause 87)
215, 216 (depends on 209, 210 in Clause 88)
Front Matter continued

**Clause 1**
TR/ER: 534 & 536, 539 & 543 (XLAUI/CAUI definition)
TR/ER: 707, 537 (PPI definition)
TR: 541, 542, 545 (E: 708) (nomenclature) - Nomenclature comments in Clause 1 and Clause 80 can be reviewed together.
TR: 308, 309 (CWDM vs WDM, MMF vs OM3)

T: 677 & 678 (Multiple PMAs)
TR/ER: 540 & 544 (40/100GBASE-R definition)

Easy ER: 538, 665, 666, 668 (examples, references, abbreviations)

Easy E: 535, 290, 546, 547, 667, 230, (typos, references, abbreviations)

**Clause 4 and Annex 4A**
T/TR 641, 679, 548, 229 (Table footnote for IPG)

Easy E: 1, 583 (dupe 378 in Annex A) (underline, blank pages)
Clause 80
Easy E: 723, 574, 724, 367, 291, 725, 727, (typo, style, nomenclature etc.)
Easy ER: 722, 721 (list, style, delay reference to 31B)
Easy ER: 576 (Delay table formatting, see response to 275 for delays)

T/TR: 323, 219, 322 (exceptions for datapath width)
T/TR: 220, (dupe of E:291), 324 (nomenclature)
TR: 728 (empty cells in Skew table)

TR: 53, (AN delay Handled in joint session, see response to 275 for delays)

Annex A
ER: 581 (Reference to FC-PI and SFF)
Clause 30

- T’s, proposed accept – 647(TR), 645(TR), 646 (TR), 311(TR/AIP)
- + (in common – 550, 310, 549) – proposed reject
- ER – 669(AIP), 671(AIP), 627(AIP)

- E’s – bucket motion: 622, 628(ER), 629(ER), 630(ER), 631 (ER), 289(AIP), 624(AIP) – all accept
- + 651, 623 – reject
Clause 45 – Easy T’s

• Easy T’s
• 225, 681(TR), 554(TR), 315(TR), 4, 50
• 49, 3, 19, 20, 21, 22
• 23, 24, 227(TR), 682(TR), 274, 644(TR)
• 30, 25, 26, 27, 28, 31
• 32, 33, 34, 318(TR), 680, 558(TR)
• 36, 37

• Review each one briefly
Clause 45 – Review & discuss

- 551 (TR) PMA addressing (in common track)
- 559 (ER) autoneg (in common track?)
- 552, 226, 2 (all TR) backplane register structure
- 314 (TR) nomenclature
- 317 (TR), 238 (ER) re-use of registers
- 670 (ER) reproducing base text
Clause 45 – E’s

- Easy E’s – use a bucket motion:
  - 672(ER), 711(ER), 555(ER), 316(ER), 712(ER)
  - 553(ER), 673(ER), 715(ER), 716(ER), 674(ER)
  - 675(ER), 676(ER), 717(ER), 718(ER)
  - 654, 312, 652, 653, 710, 656, 657
  - 5, 6, 51, 100, 709, 102, 224, 658, 713
  - 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
  - 714, 103, 104, 105, 17, 18, 101, 655, 556, 557
  - 106, 107, 659, 660, 661, 662, 663, 35
The comments will be covered in page order.
RS/MII/PCS (81 and 82)

MAC Delay constraints, comments #529, 275
Figure notes (Optional FEC), comments #110, 112, 109
Replace PHY with PCS, comments #41, 732
FEC Primitive, comments #487, 578
Primitive names, comments #739, 304
0x55 block type, comments #305, 744
BER SM, Functions, comments #743, 745, 750; gustlin_06_0509
Type Z block, comments #342, 328

The remaining comments to be covered in page order.
PMA (83)

PRBS Related, Comments: 240 and 57
   Presentations: dawe_0?_0509

MMD addressing, Comment: 585

AN_LINK, Comment: 58

Re-organize 83C, Comments: 584

The remaining comments to be covered in page order.
Thanks!