

# 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

# 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/guides/bylaws/sect6-7.html#6>

**IEEE-SA Standards Board Operations Manual**

<http://standards.ieee.org/guides/opman/sect6.html#6.3>

**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](mailto: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.



# Logic Sub-Task Force Schedule

	Tuesday	Wednesday
8:30	Logic	Logic
9:00		
9:30		
10:00		
10:30		
11:00		
11:30		
12:00	Lunch	Lunch
12:30	Logic	Logic
13:00		
13:30		
14:00		
14:30		
15:00		
15:30		
16:00	Dinner	Dinner
16:30		
17:00		
17:30		
18:00		
18:30	Logic	Logic
19:00		
19:30		
20:00		
20:30		

# Comments to be Covered

Description	Clause(s)	Editor	T	TR	E	ER	Total
Front Matter, MAC, 40G & 100G Intro	00, 01, A, 4, 4A, 31B, 80, 99	Ilango Ganga	14	29	27	18	88
Management	30, 45	Hugh Barrass	29	22	45	24	120
Backplane related	73, 74	Arthur Marris	3	18	3	11	35
RS/MII and PCS	81,82	Mark Gustlin	15	19	21	7	62
PMA	83, 83C	Steve Trowbridge	3	11	11	8	33
		<b>Total</b>	<b>64</b>	<b>99</b>	<b>107</b>	<b>68</b>	<b>338</b>

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.

# Front Matter etc (00, 01, A, 4, 4A, 31B, 80, 99)

## **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)

# Front Matter continued

## **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,

# Copper Related (73, 74)

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: daw\_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!