

# **Work Item and Socialization Conference Calls Opening Report**

**20 March 2014  
IEEE 802/802.3/P802.3bn Plenary  
Beijing, China**

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# Since January Interim Meeting

- Held 7 conference calls and 4 straw pools
  - Minutes and slides are posted at:
  - <http://www.ieee802.org/3/bn/public/wias>
  - 1/2/14: 21 attendees
  - 2/5/14: 20 attendees
  - 2/12/14: 12 attendees, 1 straw poll
  - 2/19/14: 12 attendees, 2 straw poll
  - 2/26/14: 15 attendees, 1 straw poll
  - 3/5/14: 15 attendees
  - 3/12/14: xx attendees

# Key Items Presented / Discussed

- 2/5/13 P802.3bn project documentation review:
  - [PAR \(approved August, 30, 2012\)](#)
  - [5 Criteria \(approved July 20, 2012\)](#)
  - [Objectives \(approved 19 Jul 2012, 15 Nov 2012, 18 Jul 2013\)](#)
    - Discussion, some potential updates towards approving TF draft. Chair will work with 802.3 WG members for pre-socialization and suggested remedies.
  - *Chair's note for this presentation: review was to determine impact of moving TDD to a separate project. No changes to PAR or 5 Criteria were recommended.*
- Reviewed work items
  - [Work Items for Beijing, Plenary, March 2014 \(markup 2/4/14\)](#)

# Topics and Presentations

- Socialization (all files are posted [here](#)):
  - [FEC Summary](#)
  - [FEC Summary \(rev 01a\)](#)
  - [Clause 100 service interfaces](#)
  - [Clause 45 comment socialization](#)
  - [Definitions - draft - work in progress](#)
  - [PHY Link scrambler update](#)
  - [Upstream PHY block diagram - draft - work in progress](#)
  - [Definitions - draft - work in progress \(rev 02a\)](#)
  - [PHY Link functional block diagram](#)
  - [Upstream PHY block diagram - draft - work in progress \(rev 01a\)](#)
  - [FEC Summary V3](#)
  - [45.2 MDIO Interface Registers](#)
  - [Upstream Data Detector](#)

# Straw Poll #1

**Do you think that we should include K/2 for the last code word block?**

	Straw Poll #1	eStraw Poll #phy_2
	2/12/14	2/17/14
Vote for one of:		
Yes have K/2:	0	0
No do not include K/2:	6	9
Abstain:	2	1
Too early to decide:	1	1

# eStraw Poll #phy\_2 comments

- 1) The advantage of this approach and the need for it was not demonstrated up to date. Yes, we can add it. So we can add 15 other mechanisms.
- 2) I'm somewhat neutral on this issue. There have been claims of higher complexity, I would like to see some estimates from both sides on the gains (probably adequately covered) vs the cost (no concrete info yet)
- 3) Unless I'm missing something, the K/2 algorithm does not seem that it is providing enough SNR improvement for the extra complexity & processing throughput delay.

# Straw Poll #2

- **Which FEC method do you prefer?**  
(Reference: [FEC Summary \(rev 01a\)](#))

	Straw Poll #2	eStraw Poll #phy_3
	2/19/14	2/24/14
Chicago voting:		
Medium Only:	2	4
Long & Short:	7	7
Long, Medium, & Short (keep it same as current decisions):	7	8
Other:	0	0
Undecided:	1	0

# Straw Poll #3

- **Which FEC method do you prefer?**  
(Reference: [FEC Summary \(rev 01a\)](#))

	Straw Poll #3	eStraw Poll #phy_4
	2/12/14	2/24/14
Voting for one:		
Medium Only:	0	2
Long & Short:	5	6
Long, Medium, & Short (keep it same as current decisions):	5	7
Other:	0	0
Undecided:	1	0



# eStraw Poll #phy\_3&4 comment

Same comment added for both straw polls:

The Task Force has [already]\* adopted 3 upstream codewords (TD#47, TD#81) and upstream codeword filling (TD#102). There have been assertions about complexity. Personally, I'm not seeing sufficient details that would cause me to alter existing TF decisions at this time. I would like to see baseline proposal text for the entire CNU upstream [transmitter]\* and CLT receiver (i.e. entire system) before going back to review for potential optimizations.

\* spelling correction for this presentation.

# Straw Poll #4

**Assuming L-S or L-M-S, how should we handle the CRC-40's and Parity bits in the end of burst code word blocks?**

(Reference: [FEC Summary \(rev 01a\)](#))

	Straw Poll #4	eStraw Poll #phy_5
	2/26/14	3/3/14
Vote for one of:		
CRC-40 in every block and parity in each block (slide 12 bottom):	6	7
CRC-40 in every block and all parity at end of burst (slide 14 top):	1	0
Single CRC-40 at "end of burst" block and parity in each block (slide 12 bottom with CRC-40 in last short codeword only):	0	0
Single CRC-40 and all parity at end of burst (slide 14 bottom):	2	0
Other:	0	0
Undecided:	3	1

# eStraw Poll #phy\_5 comments

Each FEC codeword (I assume that is what is meant by "block" here) should have the same structure with CRC-40 and parity at the end of the end of the FEC codeword. "

I would very much like to see state diagrams and block diagrams and baseline text to support both sides as there is not obvious choice here. Both option have minor good points and bad points.

Minimum complexity DECODER with lowest latency.

# Comments about Topics and eStraw polls

- There are some important topics and discussion ongoing
  - Please stay up to date with the minutes and the posted presentations
- eStraw poll participation continues to be mostly the same people that attend the conference call.
  - Please read up on the question and participate if you can.
- Please focus on baseline proposal text for the draft.
  - Slide ware and discussion are necessary, but getting stuck in discussion does not help make progress
  - We need to complete the Task Force Draft!

# Continuing Conference Calls

- Weekly conference calls will continue as needed
- Meetings announced on the email reflector
- Agenda items (presentations, discussion items) need to be in by the Monday 5pm Pacific time before each Wednesday
  - Call may be cancelled if no agenda items
- Next call: Wednesday, 26 March 2013, 10AM Pacific. A new calendar event will be sent out.

**THANK YOU**