(Unconfirmed)
IEEE P802.3bn EPoC PHY Task Force
September 10-11, 2014
Kanata, Ontario, Canada
Chair: Mark Laubach
Recording Secretary: Duane Remein

Summary:

The P802.3bn EPoC PHY Task Force met for two days during the IEEE 802.3/802.1 joint interim in Kanata, Ontario, Canada. A total of 9 presentations were reviewed and 4 technical motions were passed. A summary of decisions can be viewed at decisions.   A comment resolution session was held for Task Force Draft D1.0. Creating Draft D1.1 was authorized. The Work Items document was updated.

Minutes

10 Sep 2014
9:00 AM – The Chair called the meeting to order, Introductions were made

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Motion #1

Move to: approve minutes from 15-17 Jul 2014, San Diego California, USA meeting:
unconfirmed_minutes_3bn_01a_0714.pdf

Moved: Michael Peters Second: Leo Montreuil

Procedural (>50%)   Motion Passed by Voice without opposition

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The chair gave his opening report and presented the IEEE Patent Policy.

9:10 AM - The Chair make a call for potentially essential patents, there was no response.

The chair completed the opening report, reviewed the Task Force work item list and timeline. It was noted that the Chair is preparing a tutorial for the Nov. Plenary meeting.

Motion #2

Move to: approve the Agenda.

Moved: Duane Remein Second: Leo Montreuil

Procedural (>50%)   Motion Passed by Voice without opposition

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The Chair reviewed calls since the last face to face meeting.

Comment Resolution

9:35 AM - Started comment resolution, Duane Remein Presiding

11:53 AM - Recessed for lunch

1:05 PM - Reconvened

The chair asked if there were any editorial comment which the committee needed to review, several were reviewed by the committee.

3:52 PM - Suspended comment resolution with one open technical comment. Mark Laubach resumed the chair.

Detailed presentation material:

Control Multiplexer, Idle Deletion, Data Detector, and GearBox for Downstream CLT Transmission (rev 01a)

Jin Zhang, Beiyu Rong   Marvell

This presentation addressed changes to MAC & PHY to handle rate adaptation (IDLE Insertion and Deletion) in the downstream direction (including Gearbox).

Control Multiplexer, Idle Deletion, Data Detector, and GearBox for Upstream CNU Burst Transmission (rev02a)

Jin Zhang, Xiaolin Che   Marvell

This presentation addressed changes to MAC & PHY to handle rate adaptation (IDLE Insertion and Deletion) in the upstream direction (including Gearbox).

6:00 PM - Recessed

11 Sep 2014
9:00 AM - Reconvened

Performance of Simple Burst Markers   Jin Zhang   Marvell

This presentation proposed a change in the Burst Marker that uses 2 rows of null subcarriers and one row of marker.

Method of Handling Burst Start offset and Burst End Offset In EPoC Upstream

Xiaolin Che, Jin Zhang   Marvell

This presentation suggested a method to identify the starting bit of a burst. Essentially the method uses an initial 65B block to carry the offset between end stations which can be used to properly play out the data at the CLT.

10:18 AM - Duane Remein assumed the chair while Mark Laubach presented

EPoC PMA Service Interface proposal, PHY data rates

Mark Laubach   Broadcom

This presentation proposed a PMA Service Interface. Text for the draft was provided in laubach_3n_09_0914.pdf.

Multiple Downstream OFDM Channels   Mark Laubach   Broadcom

This presentation proposed that we adopt 5 multiple OFDM channels in the downstream direction. Figure and text for this proposal is included in laubach_3bn_05_0914.pdf and laubach_3bn_05_0914.pdf.

Clause 46 and 49 Timestamp Proposal for Upstream EPoC

                                            Mark Laubach   Broadcom

This presentation proposed adding a timestamp to a burst to help minimize jitter in the PHY. Text for the draft, including changes to Cl 46 and 49, was provided in laubach_3bn_07_0914.pdf.

11:57 AM - Mark Laubach resumed chair, the group recessed for Lunch.

1:08 PM - Reconvened

Frequency Interleaver Performance in LTE interference

                                            Rich Prodan   Broadcom

This presentation provided additional simulation results on the downstream time/frequency interleaver proposal made in San Diego.

Update to Task Force Objectives   Mark Laubach   Broadcom

This presentation proposed an update to the Task Force Objectives

Comment Resolution (cont)

2:00 PM – Duane Remein assumed Chair to conclude comment resolution addressing open comment #2278

2:15 PM – Mark Laubach resumed chair after conclusion of comment resolution

Discussion and Motions

Motion #3
Move to: Adopt the PMA Service Interface text in laubach_3bn_09a_0914.pdf into the next draft.
Moved: Leo Montreuil   Second: Rich Prodan
For: 8   Against: 0   Abstain: 1
Technical (>= 75%)   Motion Passed

Motion #4

Move to:　Adopt into the draft the figure 100-2 update based on laubach_3bn_04_0914.pdf Page 3 and text updates as per laubach_3bn_05a_0914.pdf. Editors will update to support up to 5 downstream OFDM channels.

Moved:　Saifur Rahman　Second:　Hesham ElBakoury

For: 10　Against: 0　Abstain: 0

Technical (>= 75%)　Motion Passed

Motion #5

Move to: Amend P802.3bn Task Force objective as follows: Phy to have: - a downstream frame ((error)) loss ratio better than 10^6 at the MAC/PLS service interface; - an upstream frame ((error)) loss ratio better than 10^5 at the MAC/PLS service interface. Direct the P802.3bn Chair to bring forward at next IEEE 802 plenary meeting for Working Group approval.

Moved:　Leo Montreuil　Second:　Duane Remein

For: 10　Against: 0　Abstain: 0

Technical (>= 75%)　Motion Passed

Motion #6

Move to:　Authorize the Editors to create Draft 1.1 from Draft 1.0 by incorporating approved baseline and comment resolution material from the September 2014 meeting as recorded in Draft 1.0 Comments Approved Responses.

Moved:　Duane Remein　Second:　Saifur Rahman

For: 10　Against: 0　Abstain: 0

Technical (>= 75%)　Motion Passed

Closing

Reviewed the Work Items list

Reviewed the Timeline

Reviewed the Future Meetings, Chair took the traditional meeting attendance polls.

Motion #7

Move to Adjourn

Moved: Duane Remein   Second: Leo Montreuil

Procedural (>50%)   Motion Passed by Voice without opposition

3:57 PM - The meeting was adjourned.

Meeting Attendance

The following represents the attendance for the formal portion of this interim meeting as initialed in the attendance binder that was passed around the meeting each day. 15 individuals indicated their attendance for this meeting. If an attendee indicated an affiliation different from their Employer for this meeting, it is noted. Task Force business was concluded on Thursday afternoon, there was no meeting on Friday morning.

Lastname	Firstname	Employer	Affiliation (If Different)	Wed	Thu	Fri
Allard	Michel	Cogeco Cable		X	X	
Dai	Eugene	Cox		X		
ElBakoury	Hesham	Huawei		X	X	
Hajduczenia	Marek	Bright House Networks		X		
Kolze	Tom	Broadcom		X	X	
Laubach	Mark	Broadcom		X	X	
Montreuil	Leo	Broadcom		X	X	
Nikolich	Paul	802 Chair/YASBBV			X	
Peters	Michael	Sumitomo		X	X	
Powell	Bill	Alcatel-Lucent		X	X	
Prodan	Rich	Broadcom		X		
Rahman	Syed	Huawei		X	X	
Remein	Duane	Huawei		X	X	
Xiaolin	Che	Marvell Semiconductor		X	x	
Zhang	Jin	Marvell Semiconductor		X		