

## Minutes CU4HDDSGArchitecture AdHoc meeting 2015-09-10

Prepared by Yong Kim

### Proposed Agenda:

1. Agenda/Admin Yong Kim
2. Yong Kim volunteered to take the minutes (noted that this meeting to be presentation oriented and would not be a challenge).

### Presentations posted at:

<http://grouper.ieee.org/groups/802/3/CU4HDDSG/public/archadhoc/>

### Agenda/Admin Yong Kim:

Meeting began at ~9:05 am PST

1. Reviewed the Attendance information related to the ad hoc.
2. Reminded attendees of patent policy.
3. Reminded participants to indicate full names and employer/affiliation correctly for the
4. Presented the proposed agenda.
  - a. Approved without objection.
5. Unapproved minutes of 2015-08-27 meeting – chair recommended to defer consideration due to lighter than normal attendance.

### Presentations/Discussion.

#### 2.5G and 5G PCS Encoding – Anthony Calbone, Seagate

- Lively discussions during the presentation – as below (sample captured)
- JD: Legacy backplane? 1G, 2.5G.
- AC: Fuzzy on 5G on 8B/10B –
- LM: Experience from 3G?
- AC: A lot of experience @ 3G and 2.5G – ton of margin w/o scrambling.
- JD: Debate already occurred – not only in IEEE, but also SAS and OIF and RapidIO and see where transition occurred from 8B/10B to 64/66B (unscrambled/scrambled).
- LM: Comment – Arguments for/against for 8B/10B and 64/66B applies to both.
- AC: Apply the strength where it makes most sense.
- LM: Use the best technology available – for all speeds. Relative cost.
- SS: 8B/10B 2.5G backplane deployed. 5G RXAUI 8B/10B chip-to-chip deployed.
- AC: 5G backplane cost versus 2.5G, i.e. system cost.
- LM: 1G support? MC: Auto-negotiation.

#### PAR/CSD/Objectives for consideration – Ad Hoc discussion

- Reviewed – no significant feedback.

### Other Discussion/Observations:

- Reviewed – no significant feedback. Re-iterated the intent of channel definition that allows for backplane as well as cable, or in combination.

Meeting closed – 10:00 am PST

### Attendees (from Webex + emails)

Name	Affiliation	Attended 8/27/15	Attended 9/03/15	Attended 9/10/15
Abbas Ghani	Ericsson		X	
Anthony Calbone	Seagate	X	X	X
Ajith Chandrian	Cisco	X		
Alvin Cox	Seagate	X	X	X
Bogdan Tenea	Ixia	X	X	
David Chalupsky	Intel	X	X	
David Law	HP			X
Dylan Walker	Walker	X		
Hamza Rahman	Dell	X	X	X
Hossein Sedarat	Aquantia	X		
Jacky Chang	HP	X		
John D'Ambrosia	DELL		X	X
Larry McMillan	Western Digital	X	X	X
Mark Carlson	Toshiba	X		
Marty Czekalski	HGST	X	X	X
Nathan Tracy	TE Connectivity			X
Paul Tran	Marvell	X		X
Paul Suhler	HGST		X	
Paul Wassenberg	Marvell	X		
Peter Jones	Cisco	X	X	
Rami Zemach	Marvell	X	X	
Santanu Sinha	Broadcom	X		X
Scott Kipp	Brocade	X	X	
Tom Skaar	Seagate	X	X	X
Vivek Telang	Broadcom	X		
William Lo	Marvell	X		X
Yaron Zimmerman	Marvell	X		
Yong Kim	Broadcom	X	X	X
Attendee count – 28+		24	15	12