P802.3by 25 Gb/s Ethernet Task Force and 50G/100G/200G Study Groups Joint Ad Hoc meeting – December 2, 2015

Prepared by Kent Lusted

Proposed Agenda:

- Approval of the Agenda
- IEEE patent policy reminder (see http://www.ieee802.org/3/patent.html)
- P802.3by Task Force Ad hoc
    - Approval of draft minutes for November 4, 2015
    - P802.3by Task Force Update, Mark Nowell
    - D3.0 editorial update, Matt Brown
    - "RITT consensus building report", Adee Ran
    - "Revised rise-time filter for COM interference tolerance calibration", Mike Dudek
    - "Considerations for 802.3by Sponsor ballot open issues", Joel Goergen
- 50G/100G/200G Study Groups
    - "50 Gb/s Ethernet Over a Single Lane and Next Generation 100 Gb/s & 200 Gb/s Ethernet Study Group: status and work", Mark Nowell
    - "802.3bs project documentation consideration", John D'Ambrosia

Presentations posted at: http://www.ieee802.org/3/by/public/adhoc/architecture/index.html

Meeting began at 8:04 a.m. Pacific.

This is the first joint ad hoc meeting of the P802.3by 25G Task Force and the 50G Study Group and 100G/200G Study Group.

Meeting began with the agenda presentation:
http://www.ieee802.org/3/by/public/adhoc/architecture/agenda_120215_25GE_adhoc.pdf

Matt Brown reviewed the Attendance information related to the ad hoc. He reminded participants to indicate full names and employer/affiliation correctly for the meeting minutes. Matt reminded participants to mute their lines when not speaking and reviewed the steps to unmute.

Matt Brown showed the links to the P802.3by ad hoc page and the email reflector. The 50G/100G/200G SG ad hoc information is in progress; announcements will be made to the 802.3 dialog reflector.

Matt presented the proposed agenda. No one responded. The agenda was approved by the ad hoc.

Matt reminded participants of the IEEE patent policy. (see http://www.ieee802.org/3/patent.html) No one responded.

P802.3by 25G TF Agenda Items

Note: The link to the P802.3by 25G Task Force architecture ad hoc website is:
http://www.ieee802.org/3/by/public/adhoc/architecture/index.html

P802.3by ad hoc minutes
The November 4 meeting minutes for P802.3by ad hoc were posted on the website. Matt asked if there were any objections to approving the posted minutes. No one responded. The November 4 meeting minutes were approved by the ad hoc.

P802.3by 25GE Task Force update – Mark Nowell
- At the November plenary, received approval to move to Sponsor Ballot.
- Sponsor Ballot is open. Closes December 24, 2015. See email sent to the reflector for more information.
- January meeting will focus on comment resolution on draft 3.0.
- There are a few big ticket topics for consideration at the January interim.
- Current preliminary schedule for the January interim is for the 25G TF to meet on Monday and Tuesday.
- There is a possibility of a joint Study Groups/P802.3bs meeting on Friday morning of the January interim.

P802.3by D3.0 editorial update – Matt Brown
- Reviewed the tentative editorial schedule.
- Reviewed the current hot topics

P802.3by Presentation #1:
"RITT consensus building report", Adee Ran
See http://www.ieee802.org/3/by/public/adhoc/architecture/ran_120215_25GE_adhoc.pdf
- Reviewed items in discussion
- Contact Adee Ran to join the ad hoc meeting.

The order of the Mike Dudek and the Joel Goergen presentations were swapped due to technical difficulties. No one objected.

P802.3by Presentation #2:
"Considerations for 802.3by Sponsor ballot open issues", Joel Goergen
See http://www.ieee802.org/3/by/public/adhoc/architecture/goergen_120215_25GE_adhoc.pdf
- Reviewed the options for the 3m cable
- Joel noted that he separated the cable and PHY designation into 2 topics; however, they are related.
- Yasuo Hidaka asked Joel to update slide 10 to note that the proposal was made by him, not Fujitsu. Mark Nowell noted that contributions are made by individuals.

- AR: Joel Goergen to update with goergen_120215_25GE_adhoc-v2
- Mark Nowell noted that he, as Chair, asked Joel and Vineet to provide a contribution to initiate the discussions on the open issues in order to facilitate consensus position happening before January interim meeting

Matt Brown cut off the Q&A on presentation #2 due to time constraints.

P802.3by Presentation #3:
"Revised rise-time filter for COM interference tolerance calibration", Mike Dudek
See http://www.ieee802.org/3/by/public/adhoc/architecture/dudek_120215_25GE_adhoc.pdf
- Mike Dudek noted that the rise time simulations on slide 12 and subsequent slides assumed PRBS9
- Discussed the impact of the fast rise time on the COM margin.
- Mike Dudek noted that much detail is included in the backup section of the presentation.

Matt Brown cut off the Q&A on presentation #3 due to time constraints.

Mark Nowell noted that the joint meeting will transition to the 50G/100G/200G Study Groups agenda.

50G/100G/200G Study Groups Agenda Items

Note: The links to the two Study Group ad hoc websites are:
http://www.ieee802.org/3/50G/index.html 50Gb/s Ethernet Study Group
http://www.ieee802.org/3/NGOATH/index.html Next Generation 100 Gb/s & 200Gb/s Ethernet Study Group

Mark Nowell, as acting Chair of the Study Groups, welcomed participants to the joint meeting.

50G/100G/200G SG Presentation #1:
"50 Gb/s Ethernet Over a Single Lane and Next Generation 100 Gb/s & 200 Gb/s Ethernet Study Group: status and work", Mark Nowell
See http://www.ieee802.org/3/50G/public/adhoc/archive/nowell_120215_50GE_NGOATH_adhoc.pdf

- Reviewed the CFI key points from the November Plenary meeting.
- Mark noted that he intends to run the 50G Study Group and 100G/200G Study Group meetings jointly, where possible.
- Reviewed a few potential scenarios to progress to Task Force. Discussed potential schedule implications on P802.3bs, if some work moves into that project.
- Mark Nowell announced the chair of the two Study Group ad hocs to be Kent Lusted.
- Discussed the 2km SMF proposed objective vs. 10km. Peter Stassar offered to bring a proposal for 10km SMF to the next ad hoc meeting. Need to coordinate SMF reach with the 25G SMF study group.
- Mark Nowell noted that the "multi-lane implementation" term is a placeholder for the breakout cable case or the 200G cable case – goal is to enable a single-lane project to analyze multi-lane technical considerations.
- Discussed the addition of backplane to the 100G/200G objectives.
- Mark noted that the study group needs contributions to support the case for any objectives.
- Reviewed some strawman responses for the CSD. Key takeaway is that there don't seem to be any big issues.
- Reviewed future work for the two study groups.

Kent Lusted asked participants to hold further questions until after the next presentation.

50G/100G/200G SG Presentation #2:
"802.3bs project documentation consideration", John D'Ambrosia
See
http://www.ieee802.org/3/50G/public/adhoc/archive/dambrosia_120215_50GE_NGOATH_adhoc.pdf

- AR: John D'Ambrosia to update presentation to "dambrosia_120215_50GE_NGOATH_adhoc-v2" to add SMF to slide 21
- Reviewed the proposed changes to the P802.3bs CSDs.
- John noted that the schedule impact of adding 100G and 200G would be at the consideration of the P802.3bs Task Force.
- Mark and John will continue to work on pathfinding. John D'Ambrosia noted that any potential impact to the P802.3bs project will be reviewed with David Law

Kent Lusted noted that the next joint ad hoc meeting will be on 9 December.

The ad hoc meeting ended at 10:01 a.m. Pacific.

List of attendees (captured from Webex tool)

Name	company
Adam Healey	avagotech
Adee Ran	intel
Ali Ghiasi	gmail
Amrik	cisco
Andy Moorwood	ericsson
anil	brocade
Arvind Srinivasan	oracle
Aviran Kadosh	n/a
Brian Teipen	advaoptical
chris diminico	n/a
Chris Roth (Molex)	molex
Dale Murray	lightcounting
Dan Cunningham	arista
dan dillow (FCI)	fci
Dan Sparacin	aurrion
Dave Lewis	jdsu
david chalupsky (intel)	intel
David Malicoat	hpe
David Vieira	broadcom
Derek Cassidy	n/a
Dino Pozzebon	pmcs
Ed Ulrichs	sourcephotonics
Erdem Matoglu - Amphenol	amphenol-tcs
Eric Baden (Broadcom)	broadcom
Flavio Marques	furukawa.co
gary nicholl	cisco
Geoffrey Chacon	hpe
George Zimmerman	cmephyconsulting
Greg McSorley	amphenol-highspeed
Henry Chen	broadcom
Jacky Chang	hpe
James Fife	etopus

Jeff H	n/a
Jeffery Maki	juniper
jgoergen	cisco
JIM NADOLNY	samtec
Jing Fang	marvell
john	avagotech
John DAmbrosia	n/a
John Dillard	microsemi
John Nelson	arista
Juan-Carlos Calderon	inphi
Justin Abbott	lumentum
Ken Van Orman	spirent
Kenneth Jackson	sei-device
kent lusted (intel)	intel
Kohichi	oclaro
Marc Dupuis	molex
Mark Gravel	hp
Mark Jones	xtera
Mark Nowell	cisco
Mark Pilip	ezchip
martin white	caviumnetworks
mbrown	apm
Megha Shanbhag	te
Mike Andrewartha (Microsoft)	microsoft
Mike Dudek	qlogic
Mike Li	altera
Nathan Tracy	te
OdedW	mellanox
Patrick Casher	loromamerica
Paul Mooney	spirent
Peter Anslow	ciena
Peter Jones	cisco
Peter Stassar	huawei
Phil Sun	marvell
Piers	mellanox
Qing Xu	belden
Rajiv Pancholy	broadcom
Randy k Rannow (APIC)	n/a
Rich Mellitz (Intel)	intel

Rick Pimpinella	panduit
Rick Rabinovich	alcatel-lucent
Rita Horner	synopsys
Rob Stone	broadcom
Ron Muir	jae
Rui Zhang	loromamerica
salvatore rotolo	st
sam sambasivan	labs.att
Scott Irwin	mosys
Scott Kipp	brocade
Scott Sommers	molex
steve sekel (keysight)	keysight
Steve Trowbridge	alcatel-lucent
Tom McDermott	us.fujitsu
Tom Palkert	visi
Upendranadh Kareti	cisco
Vasu	broadcom
Venu B	marvell
Vittal	dell
Xinyuan Wang	huawei
Yasuo Hidaka	us.fujitsu
Yuri Vandyshev	cisco
Zvi Rechtman	mellanox