

Minutes NGEABT Architecture AdHoc meeting 25-Nov-14

Prepared by Peter Jones – updated 12/2/14

Proposed Agenda:

1. Agenda/Admin Peter Jones
2. BER Objective for Next-Gen Enterprise Access BASE-T George Zimmerman
3. CSD DRAFT for consideration of NGE BASE-T SG Peter Jones
4. PAR DRAFT for consideration of NGE BASE-T SG Peter Jones
5. Potential Objectives for Next-Gen Enterprise Access BASE-T Peter Jones

Presentations posted (after the fact) at:

<http://grouper.ieee.org/groups/802/3/NGEBASET/public/archadhoc/index.html>

Agenda/Admin Peter Jones:

Meeting began at 9:05 am PST

1. Reviewed the Attendance information related to the ad hoc.
2. Reminded people to review the IEEE patent policy, no one responded.
3. Reminded participants to indicate full names and employer/affiliation correctly for the meeting minutes.
4. Presented the proposed agenda. No objections or additions.
5. Presented the draft minutes for 11/20 – approved without objection.

Presentations/Discussion

BER Objective for Next-Gen Enterprise Access BASE-T George Zimmerman

- Lots of discussion on the “One Reason Why – Test time” Slide
 - Are these worst case cable/channel?
 - nothing to do with cable/channel, just doing the math about how long to test to validate the BER (5x the numbers of bits). Time = fn(ber, rate)
 - Some math mistakes for 1Gb/s & 100G (rows 2 & 5) – 1G 10/50, same for 100G
 - will fix.
 - Often looked at from point of view of receiver, is that leading to confusion? Compliant tx and channel, rx operates correctly with this BER.
 - Errors come in blocks and mess up the numbers.
 - BER criteria independent of channel.
 - no such thing as single worst case, lots of parameters
 - Why not 10(-11)?
 - Come back later – don’t under test compared to 10GBASE-T, get cleaner results.
 - Add 10(-11) to table
 - Do the math – it’s easy.
- Revised Recommendation slide -> proposes 10^{-12} responses?

- sounds about right
- same as 1G or 10G? – 10G
- ok with me

CSD DRAFT for consideration by NGEABT SG Architecture AdHoc

Peter Jones

- Distinct Identity – did some wordsmithing
- Technical Feasibility
 - remove “Component technology of”
 - Need someone to provide 10GBT numbers, request contribution from someone – get analyst numbers.
- Economic Feasibility – did some did some word-smithing

PAR DRAFT for consideration by NGEABT SG Architecture AdHoc

Peter Jones

- Other PAR Fields – dates - DC to think about schedule, depends on closing major topics in January.
- Need for the Standard –
 - Suggest putting in draft text for speeds assuming no major push back on objectives.
 - Some discussion on this.
- Other PAR Fields (2)
 - Additional Explanatory Notes – “this-note-to-be-deleted” text?
 - remove

PAR DRAFT for consideration by NGEABT SG Architecture AdHoc

Peter Jones

- Proposed “noncontroversial” Objectives
 - “including directly connected link segments” text is removed
 - Support PoE - Grab clause 33 title and list 802.3bt explicitly.
 - Preemption (IEEE P802.3br Interspersing Express Traffic Task Force) - no need to add!
- Proposed “meatier” Objectives
 - BER 10-12 – YK will bring back additional material for pros/cons of -10 vs -12.
 - Data rates
 - AP needs – PJ chasing wireless folks.
 - Other option – simple implementation for clock rates to get 2.5/5. – Contribution would be good. GZ has ideas where to find a source.
 - Replace “augmentation” with “characterization”?
 - Others disagree – reuse the same language used for 10GBT, because we need the same process to be followed.
- Elephant in the Room
 - Contributions needed?
 - GZ to look at PoE,
 - PJ – AP rates,
 - note that other classes inherited by default.
 - Do we need a contribution for link segment definition (one or three)?

- No consensus on 5Gb/s over 100m Class D (Cat5e)

Discussion:

- January Interim is not that far away (considering Holiday season)
- Need contributions soon to make progress and be ready for Atlanta.
- DC/PJ/YK – to sync up, maybe prepare list of suggested contributions?
- Next Meeting -

Meeting closed 10:25 am PST

Attendees (Webex+outlook responses)

Name	Company/Affiliation	attended 11/25
Amrik Bains	Cisco	n
Anna An	Foxconn	n
Arthur Lee	Mediatek	n
Brian Bucmeier	Bel Fuse	y
Brian Jaroszewski	Vitesse	n
Carrie Higbi	Siemom	n
Chris Diminico	MC Communications	y
Dave Jeskey	Sentinel Connector	y
David Chalupsky	Intel	y
David Chen	Nokia	n
David Law	HP	n
David Tremblay	HP	n
Derek Cassidy	BT	n
Duane Remein	Huawei	y
Ed Gastle	JDSU	n
George Zimmerman	CME - Commscope & Aquantia	y
German Feyh	Broadcom	y
Greg McSorley	Amphenol	y
Hans Lackner	QoSCom GmbH	n
Jacky Chang	HP	n
Jim Graba	Broadcom	n
Kaku Shinkyō	Allied Telesis	n
Kamal Dalmia	Aquantia	y
Lars Lindskov Pedersen	Delta	n
Masood Shariff	Commscope	y
Matt Brown	APM	n
Mike Good	Berk-Tek, LLC	y
Neven Pischl	Broadcom	n

Paul Hathaway	??	n
Paul Langner	Aquantia	y
Paul Mooney	Sprirent	n
Paul VANDERLAAN	Berk-Tek	y
Pete Cibula	Intel	y
Peter Wu	Marvell	y
Peter Jones	Cisco	y
Rick Rabinovich	Alcatel-Lucent	n
Ron Tellas	Panduit	y
Scott Kipp	Brocade	n
Theodore Brillhart	Fluke	n
Thuyen Dinh	Pulse	y
Todd Herman	Commscope	n
Tom Souvignier	Broadcom	n
Victor Renteria	Bel Fuse	y
Vineet Salunke	Cisco	n
Yong Kim	Broadcom	y

Minutes NGEABT Architecture AdHoc meeting 20-Nov-14

Prepared by Peter Jones

Proposed Agenda:

1. Agenda/Admin - Peter Jones - Cisco
2. NGEABT Study Group update - Dave Chalupsky - Intel
3. CSD DRAFT for considerations NGE BASE-T SG - Yong Kim - Broadcom
4. PAR DRAFT for considerations NGE BASE-T SG - Yong Kim - Broadcom
5. Potential Objectives for Next-Gen Enterprise Access BASE-T, George Zimmerman, Dave Chalupsky, CME. Intel

Presentations posted at:

<http://grouper.ieee.org/groups/802/3/NGEBASET/public/archadhoc/index.html>

Meeting began at 9:05 a.m. Pacific.

Meeting began with the agenda presentation:

http://grouper.ieee.org/groups/802/3/NGEBASET/public/archadhoc/arch_ah_agenda_112014_2.pdf

Peter Jones:

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Presentations

Title	Presenter(s)	Affiliation
Agenda	Peter Jones	Cisco
NGEABT Study Group update	Dave Chalupsky	Intel
CSD DRAFT for considerations NGE BASE-T SG	Yong Kim	Broadcom
PAR DRAFT for considerations NGE BASE-T SG	Yong Kim	Broadcom
Potential Objectives for Next-Gen Enterprise Access BASE-T	George Zimmerman, Dave Chalupsky, Peter Jones	CME. Intel, Cisco

Discussion was captured in updated slides which will be posted with minutes.

Attendees (Webex+outlook responses)

Name	Company/Affiation	attended 11/20/2014
Amrik Bains	Cisco	y
Anna An	Foxconn	y
Arthur Lee	Mediatek	n
Brian Jaroszewski	Vitesse	n
Carrie Higbi	Siemom	n
Chris Diminico	MC Communications	y
Dave Jeskey	Sentinel Connector	y
David Chalupsky	Intel	y
David Chen	Nokia	n
David Law	HP	y
David Tremblay	HP	n
Derek Cassidy	BT	n
Ed Gastle	JDSU	n
George Zimmerman	CME - Commscope & Aquantia	y
German Feyh	Broadcom	y
Hans Lackner	QoSCom GmbH	y
Jacky Chang	HP	y
Jim Graba	Broadcom	n
Kaku Shinkyō	Allied Telesis	n
Kamal Dalmia	Aquantia	y
Lars Lindskov Pedersen	Delta	n
Masood Shariff	Commscope	y
Matt Brown	APM	n
Mike Good	Berk-Tek, LLC	y
Neven Pischl	Broadcom	n
Paul Hathaway	??	y
Paul Langner	Aquantia	N
Paul Mooney	Spirent	Y
Paul VANDERLAAN	Berk-Tek	y
Pete Cibula	Intel	y
Peter Wu	Marvell	y
Peter Jones	Cisco	y
Rick Rabinovich	Alcatel-Lucent	y
Scott Kipp	Brocade	y
Theodore Brillhart	Fluke	y

Thuyen Dinh	Pulse	y
Todd Herman	Commscope	n
Tom Souvignier	Broadcom	Y
Victor Renteria	Bel Fuse	Y
Vineet Salunke	Cisco	N
Yong Kim	Broadcom	Y