

# **802.3 NGEABT**

## **Enterprise Noise and Use Case Analysis ad hoc**

IEEE P802.3 NGEABT Study Group  
German Feyh (Broadcom)

Enterprise Noise and Use Case Analysis ad hoc chair

January 28<sup>th</sup>, 2015

# Proposed Agenda

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10:30am MST meeting start

1. Roll call

Record attendance, attendees' names and affiliations

- (Following previous meeting practice, ad hoc attendees are asked to please email Dave Chalupsky <[david.chalupsky@intel.com](mailto:david.chalupsky@intel.com)> or German Feyh <[feyh@broadcom.com](mailto:feyh@broadcom.com)> a note confirming their attendance)

2. Reminder of IEEE patent policy

- [www.ieee802.org/3/patent.html](http://www.ieee802.org/3/patent.html)

3. Housekeeping

Approve meeting agenda

Review the ad hoc charter/scope and deliverables

4. Contributions

Test setup proposal and issues for measuring noise on cabling, Bryan Moffitt – CommScope

Enterprise Noise Measurement Test Setup, Ramin Shirani, Larry Cohen – Aquantia

5. Brainstorming session

Review relevant content from prior standards/study group/task force work and/or new contributions

Discuss actions/next steps needed to begin moving forward with developing the ad hoc's deliverables

6. Discussion and next steps

Noon: meeting end

# Ad Hoc Communications

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- The 802.3 NGEABT Enterprise Noise and Use Case Analysis ad hoc will use the P802.3 NGEABT study group reflector for ad hoc communications
- To subscribe to the P802.3 NGEABT reflector, send an email to: [ListServ@ieee.org](mailto:ListServ@ieee.org) with the following in the body of the message (do not include “<>”):

***subscribe stds-802-3-NGBASET <yourfirstname> <yourlastname>***

- Send P802.3 NGEABT reflector messages to: [stds-802-3-NGBASET-request@listserv.ieee.org](mailto:stds-802-3-NGBASET-request@listserv.ieee.org)
- Task Force web page URL: <http://www.ieee802.org/3/NGBASET/index.html>
- Study Group material web page URL: <http://www.ieee802.org/3/NGEBASET/public/entnoise/index.html>

# Ad Hoc Meetings

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- Meeting frequency
  - Contribution driven
  - Regularly scheduled meeting may help maintain momentum
- Meeting venue
  - Teleconference (Webex)

# Why Are We Here?

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- Chartered by the P802.3 NGEABT Study Group Chair to investigate the
  - Enterprise Noise and
  - Use Case Analysis.

# Enterprise Noise and Use Case Analysis ad hoc charter and scope/deliverables (proposed)

- Investigate Enterprise noise.
- Support Use Case ad hoc with analysis.

# Existing documents

## (in need of additional citations)

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- Impulse Noise Impact on 2.5Gb/s , 5Gb/s Operation in Enterprise Environment ( [shirani\\_ngeabt\\_01a\\_0115.pdf](#) )
  - Reviews mathematical foundations of impulse noise, generation and influence on cabling, proposes a measurement technique.

# Areas for Review & Investigation

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## Review of existing test standards

- Pulse form
- Repetition rate

## Investigations based on measurements of impulse noise

- CAT5E
- CAT6

## Support of Use Case Analysis

- Adopt George Zimmerman's EXCEL spread sheet



# Things Needed (Not Comprehensive)

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- Impulse noise measurements
  - Noise sources
  - Test setup
  - Measurement technique
  - Measurement results
- Operational requirements for impulse noise
  - Recurrence
  - BER, fast retrain, link loss.

# Ad hoc Next Steps

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- To be discussed and determined

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# Thank You!