

Enterprise noise and use case analysis ad hoc report

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IEEE P802.3bz 2.5/5GBASE-T Task Force
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Mr. Chalupsky announced the formation of the “Impulse noise and use case analysis” ad hoc and has appointed German Feyh as the ad hoc chair.

Charter of this ad hoc is to recommend electrical specifications for the project based upon:

- 1) analysis of enterprise noise sources (such as impulse noise) and
- 2) evaluation of the results of the Use Case ad hoc.

- IEEE 802.3 NGEBASET ENUCA Ad Hoc has:
 - Held three conference calls since the Atlanta meeting:
 - March 24th, 2015: 24 attendants
 - April 22nd, 2015: 44 attendants
 - May 15th, 2015: 23 attendants
- Reviewed 6 presentations:
 - Enterprise Environment Impulse Noise Measurements - Ramin Shirani, Larry Cohen - Aquantia.
 - External noise events, German Feyh - Broadcom.
 - Common-Mode Impulse Noise Measurements, Larry Cohen - Aquantia.
 - Interference Guideline Issues, Bryan Moffitt, Commscope.
 - External Noise Event Study, Jin Lu and German Feyh - Broadcom.
 - Methods for Testing Impulse Noise Tolerance, Larry Cohen – Aquantia.
- Meeting minutes and presentations can be found at:
 - <http://www.ieee802.org/3/NGEBASET/public/entnoise/index.html>

- Measurement and consensus for the external noise:
 - Impulse responses and
 - Frequency of occurrence.
- Use case analysis
 - Model improvement for:
 - Short cables and
 - Mitigation techniques.

Thank you

