

IEEE P802.3ch Multigig  
Automotive Ethernet PHY TF  
October 9, 2017 Harness AdHoc  
meeting Summary

Natalie Wienckowski

General Motors

October 18, 2017

# Presentation

- Thomas Mueller, Rosenberger presented information on the following items:
  - Renormalization of test data to 150 ohms
  - Testing of individual components

# Conclusions Based on Discussion - Renormalization

- The group decided that the 150 ohm renormalization should be performed as this is part of the standard test procedure and would reduce the chance for confusion or errors.

# Conclusions Based on Discussion - Testing

- The group determined that, when possible, in-line connectors should be tested with cable with the setup proposed on Slide 4 of <http://www.ieee802.org/3/ch/public/adhoc/Measurement%20of%20Coupling%20Attenuation%20for%20NGAUTO.pdf> without the use of the inner tube. Testing will be done with both 1 and 3 m tubes, as shown on slide 5 of this presentation, without the inner tube.
- Not all suppliers can test the defined cable assemblies with in-lines as they don't have these available at this time. In this case, suppliers may test cables or connectors independently, as defined on slides 6 (cable) and 7 (connector) of <http://www.ieee802.org/3/ch/public/adhoc/Measurement%20of%20Coupling%20Attenuation%20for%20NGAUTO.pdf>

# Conclusions Based on Discussion - Testing

- Types of cables to concentrate on for the testing should be as defined on pages 4 and 8 of [http://www.ieee802.org/3/ch/public/jul17/Wienckowski\\_3ch\\_01b\\_0717.pdf](http://www.ieee802.org/3/ch/public/jul17/Wienckowski_3ch_01b_0717.pdf)

# Vendors to Provide Test Results at November Plenary

- The following Cable, Connector and/or Harness suppliers plan to present test data at the November Plenary meeting of 802.3ch
  1. Delphi
  2. Leoni
  3. Molex
  4. Rosenberger
  5. TE
  6. Yazaki

# Future Work

- Additional discussion will need to be held regarding how to test PCB header connectors with metal and plastic housings. Metal coated plastic housings should also be investigated. This will be discussed during an upcoming ad-hoc call or potentially during the November plenary meeting, time permitting.