Reduced Twisted Pair Gigabit Ethernet Channel Definitions Ad Hoc Report

Orlando, Florida
March 2013

Ad hoc – co-chairs
Chris DiMinico –
MC Communications
Mehmet Tazebay –
Broadcom

Channel Definitions Ad Hoc

- Ad Hoc charted to develop channel definitions
- Initial meeting IEEE Interim May 2012
- Communications via RTPGE reflector
- Follow-on conference calls
  - June 14, November 1, December 13, January 10
  - March 4th - joint Channels definitions and EMC ad hoc

Joint channel definitions and EMC ad hoc - March 4th

Summary channel definitions minutes– March 4, 2013

- Attendees were asked to review patent policy slides

- Channel Ad Hoc Update from Chris DiMinico & Mehmet Tazebay
- Channel survey discussed
  - Materials available for UNH testing - Delphi, Molex, Rosenberger, TE
  - Survey: Automotive Cabling returned with updated cover letter
    Summary table to be provided - 20130222_RTPGE-survey-adhoc-BMW.pdf

- Test fixture presentations
  - RTPGE test fixtures-Chris DiMinico (MC Communications)
    RTPSG-test fixtures-March 2013.pdf-
    - –Presentation described two test fixture types
    - –Link segment test fixture-Common reference for link segment testing
    - –MDI receptacle test fixture-Common reference for MDI receptacle testing
  - RTPGE Test Head Proposal-Bryan Moffitt (Commscope)
    CommScope_RTPGE_testhead_proposal.pdf
    - –Presentation provided simulation and measurements
    - –Link segment test fixture

Joint channel definitions and EMC ad hoc - March 4th

Summary channel definitions minutes– March 4, 2013

Test fixture comments:

- **Mehmet Tazebay mentioned that the group adopted the approach for providing the performance characteristics of the MDI instead of defining the mechanical type of the connector.**
- **Steve Carlson mentioned that the standardized test jig can be added to the Annex portion of the standard to show how the performance characteristics are attained.**

Link segment comments:

- **Chris DiMinico mentioned he would provide a presentation for March addressing link segment insertion losses required for PHY considerations.**

Summary status

- RTPGE channel definitions ad hoc – follow-on
  - -Collecting specifications and automotive cabling components to be tested at UNH-IOL.
  - -Coordinate with RTPGE EMC ad hoc to finalize link segment definitions.