

Receiver Common-Mode Noise Rejection ad hoc report

IEEE P802.3bq 40GBASE-T Task Force

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Rx CMNR ad hoc chair

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Rx CMNR ad hoc charter and scope/deliverables

- Investigate the receiver common mode noise rejection (Rx CMNR) test, also known as the cable clamp test, and define an appropriate requirement for 40GBASE-T PHYs.
- Develop corresponding text for IEEE P802.3bq, subclause 98.5.4.3 Common mode noise rejection and any associated Annexes.

Rx CMNR ad hoc activity since the San Antonio meeting

- Three Rx CMNR ad hoc calls – November 19th, December 3rd and December 17th, 2014.
- Meeting minutes and contributions are available at the 40GBASE-T website [Receiver Common-Mode Rejection ad hoc area](http://www.ieee802.org/3/bq/public/rxcmr/index.html)
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- Meeting highlights
 - Clarified some measurements and results presented in the November Task Force meeting
 - Reviewed some relevant aspects of the Clause 40/Clause 55 tests related to the cable clamp fixture and fixture calibration
 - Reviewed some potential issues/traps associated with screened/shielded cabling and interconnects that can influence common-mode noise rejection performance

Rx CMNR ad hoc next steps

- Further work
 - Review contributions related to improving and augmenting the existing test, replacing the existing test, or deleting the existing requirement as we work through our “things needed” list
 - Begin work to develop text for subclause 98.5.4.3
- Next meetings
 - Meetings are scheduled on alternate Wednesdays at 9:30AM PST between now and the March plenary meeting
- Thanks to all ad hoc participants and contributors – and remember... you, too, can be a contributor!

Thank You!