



October 5, 2012

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RE: TR-42 Liaison to IEEE 802.3 Working Group

Dear Mr. Law,

TIA TR-42 extends its congratulations to the IEEE 802.3 Working Group regarding the successful formation of the Next Generation BASE-T Study Group to develop higher speed Ethernet applications over balanced twisted-pair cabling.

At the San Diego meeting in February 2011, TIA TR-42 approved a Project Authorization Request (PAR) with the scope:

“Develop a new category of cabling to support future applications beyond 10GBASE-T.”

to be published as ANSI/TIA-568-C.2-1.

Since then, TIA TR-42.7, the engineering sub-committee responsible for copper cabling, has been actively developing next generation cabling specifications including channel, link, and component requirements. Attached is a working draft that contains the specifications for this newly developed Category 8 cabling. Also, attached herewith is a summary of the channel transmission parameters that may be relevant for application development.

We would like to learn more about the Next Generation BASE-T objectives and adjust the working draft of ANSI/TIA-568-C.2-1 appropriately. Towards the common goal of having cabling specifications that are suitable for Next Generation BASE-T, we welcome any comments and guidance you may offer as we continue development of the cabling specifications.

To reach a better understanding of the Next Generation BASE-T study group objectives and expectations, we especially appreciate your inputs regarding insertion loss of the channel (link segment), targeted cabling configurations including reach and topology, and the bandwidth of the specification.

Please note that the draft contains an equation for insertion loss as a function of length. While TIA has chosen 50m as a default length, we intend to provide information on transmission parameters as a function of length.

We look forward to working with the IEEE 802.3 Working Group to make the Next Generation BASE-T project a success.

Sincerely,

Robert Jensen
Chair, TIA TR-42

Attachments: TR42.7-2012-12-115-Category-8-Cabling_d0.5.pdf
TR42.7-2012-10-106b-Category-8-Channel.pdf