



IEEE 802.3 CSMA/CD (Ethernet) Working Group

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Re: Balance And Common Mode Rejection Requirements Of The Network Interface In An Industrial Situation

Thank you for your correspondence. Members of the IEEE 802.3 working group have been discussing industrial Ethernet requirements. As I expect you are aware, SC25/WG3 also has work ongoing in this area. The ESTA Control Protocols WG has also worked on light industrial Ethernet and the specification of system components for what would be classified light industrial applications.

The suggested changes in longitudinal voltage specifications of 1000BASE-T potentially have much greater impact with possible implications to the core functions of the 1000BASE-T PHY, and will result in a device that is incompatible with standard 1000BASE-T devices. We would, therefore, appreciate more information on why TR-42 feels that this change is necessary.

Sincerely,

Robert M. Grow
Chair, IEEE 802.3 Working Group