

P802.3ch Ad Hoc Notes

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IEEE P802.3ch

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Discussed the various ways today's presentations suggested changing the limit lines.

It was decided it is too early to lower the maximum frequency on the limit lines. This may be considered at a later date when more information is known on the PHY encoding method.

Discussed changing the number of in-lines to 2 from 4 in the objectives as the OEM presentations required a maximum of 2 in-lines. As there aren't significant issues with RL due to in-lines it was decided there is no significant benefit to do this.

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Discussed raising the IL limit to match the Cable B line on slide 5 of zerna_3ch_01b_0318.pdf. As most applications are 11 m or less, it may be appropriate to select a limit line that can use 26 gauge wires up to 11 m and 24 gauge wires when 11 to 15 m are needed. Additional data is needed on 24 gauge wires to determine if this is the appropriate limit line for this cable or not.

There is no need to change the RL limit lines. Current cable simulations simplify many parameters. Some of these simulation decisions are causing the many of the violations seen in the simulations. If the simulations are improved these should disappear.

There is still a need for additional ingress noise test data for the PHY design.

The background of the slide is a blue-tinted photograph of a desert landscape. A dirt road with visible tire tracks leads from the bottom center towards a range of low mountains in the distance. The sky is filled with soft, white clouds. The overall color palette is a monochromatic blue, with the text in white.

THANK YOU