

Potential Objectives

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Jon Lewis

Dell Technologies

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Objectives – Page 1

- Preserve the IEEE 802.3/Ethernet frame format at the MAC client service interface
- Preserve minimum and maximum frame size of the current IEEE 802.3 standard
- Support operation in automotive environments (e.g., EMC, temperature)
- Do not preclude meeting FCC and CISPR EMC requirements.
- Define the performance characteristics of an automotive link segment supporting up to four inline connectors for at least 11m on both automotive coax and shielded balanced pair media and an electrical PHY to support up to 10 Gb/s point-to-point operation over this link segment in one direction and up to 100 Mb/s in the other direction over the link segment.

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- Do not preclude power delivery over the link segment
- Define optional startup procedure which enables the time from power_on=FALSE to a state capable of transmitting and receiving valid data to be less than 100 ms
- Support optional auto-negotiation
- Support optional energy-efficient ethernet optimized for automotive applications

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Objective for Discussion

- Define a reconciliation sublayer (including any necessary client primitives) to coordinate the PHY's speed capabilities with the MAC's operation
- Other Objectives??

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