Adopted Objectives

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 full duplex operation only.

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 100ms.

Support a BER better than or equal to 10^{-12} at the MAC/PLS service interface.

Support a data rate of 10 Gb/s at the MAC/PLS service interface

Support optional Auto-Negotiation

Support optional Energy Efficient Ethernet

Support operation at 10Gb/s in automotive environments (e.g., EMC, temperature) over single pair shielded balanced copper cabling.

Do not preclude meeting FCC and CISPR EMC requirements.