

Proposed Objectives

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Disclaimer

- We are not proposing a complete set of objectives.
- These are intended to be discussion starters.
- The presenter will be ready to modify during the presentation.
- The colored text are proposed extras that can likely be deleted.

Objectives part 1

- Support the IEEE Std 802.3 Ethernet frame format at the MAC client service interface
- Support the minimum and maximum frame size IEEE Std 802.3-2022
- Define a method to detect an FMP receiver before applying operating voltage greater than 30 V
- Define FMP receiver behavior during detection and startup and a minimum set of corresponding transmitter behavior necessary to support interoperable FMP receiver detection and startup
- Specify FMP transmitter outputs, startup, and fault-response behavior necessary for interoperable FMP operation and to support evaluation to applicable FMP safety standards

Objectives part 2

- Define FMP receiver electrical characteristics necessary for interoperable startup and operation, including input capacitance, inrush behavior, and behavior during FMP fault-detection intervals
- Do not preclude operation with XXX [Define the PHYs that work for DW. Suggest SPE PHYs and perhaps optical]
- Do not preclude Ethernet operation of the supported IEEE 802.3 PHYs in the presence of FMP
- Do not preclude FMP operation in the presence of Ethernet traffic between the supported IEEE 802.3 PHYs
- Define link segment, coupling-network characteristics, and conducted-noise requirements necessary for concurrent operation of FMP and the supported IEEE 802.3 PHYs
- Define management parameters for FMP detection, startup, operating state, allocated power, fault state, and fault reporting