IEEE 802.3br Interspersed Express Traffic (IET) PAR Objectives

Objectives (1) – Approved in SG

1. Preserve the IEEE 802.3 Ethernet frame format at the MAC.
2. Preserve minimum and maximum MAC frame size of the current IEEE 802.3 standard.
3. Use the Clause 4/Annex 4A MAC without alteration.
4. Require no changes to PHYs.
5. Support full duplex operation only.
6. Preserve MAC/PLS service interface.
7. Do not degrade Mean Time to False Packet Acceptance (MTTFPA) at the MAC Service Interface.
8. The latency to initiate the transmission of an express frame shall be less than two times the minimum packet size plus IPG.

Objectives (2) – Approved in SG

9. Assure that both ends of the link support Interspersing Express Traffic (IET) mode before enabling it.

10. Provide a primitive at the MAC client service interface to inhibit the transmission of non-express frames.

11. Provide two MAC client service interfaces at each end of the IET link, as the means to distinguish between the express and the non-express frames.

12. Minimum IET frame size shall be greater than or equal to 64 bytes.

13. IET frames will be constructed such that they will not be recognized as valid MAC frames by a non-IET-capable device.

Objectives (3) – Unapproved

14. Support a speed of 100 Mb/s up to 10 Mb/s at the MAC/PLS service interface.

15. Support full duplex point-to-point operation only.