## **1TPCE Objectives**

## 1 Twisted Pair 100 Mbit/s Ethernet 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.
- → Support a speed of 100 Mbit/s at the MAC/PLS service interface.
- → Maintain a bit error ratio (BER) of less than or equal to 10^-10 at the MAC/PLS service interface.
- Support 100 Mbit/s operation in automotive & industrial environments (e.g. EMC, temperature, voltages).
- Define optional startup procedure which enables the time from power\_on=FALSE to valid data to be less than 100ms (w/o speed discovery)
- Support of optional speed discovery for one pair systems (→ work for 1000BASE-T1, CFI required)