## **Basic Objectives**

- Define a scalable logical (term?) framework that can support arbitrary port speeds and counts while retaining as many of the feature in our Feature Objectives as possible.
- 2. Define an electrical interface to provide connectivity to a **single** Ethernet port with 8 or fewer pins operating at line speeds up to 100 Mb/s.
- 3. Provide **single** port connectivity without a SerDes.
- Define an electrical interface to provide connectivity to as many as 8 ports, each with speeds up to 100 Mb/s using 8 or fewer pins.
- 5. Provide eight-port connectivity with a SerDes not to exceed 2 Gbps.

## Feature Objectives

- 1. Provide an optional in-band MDIO management interface.
- 2. Support Energy Efficient Ethernet (EEE).
- 3. Support half-duplex operation.
- 4. Support PLCA.
- 5. Support full-duplex operation.
- 6. Support auto-negotiation (e.g. Clause 28, Clause 98)
- Do not preclude the transmission of PTP timestamps across the MII using in-band data.
- 8. Do not modify the preamble, thus precluding features that rely on the preamble being passed intact by the MII. Support frame preemption.