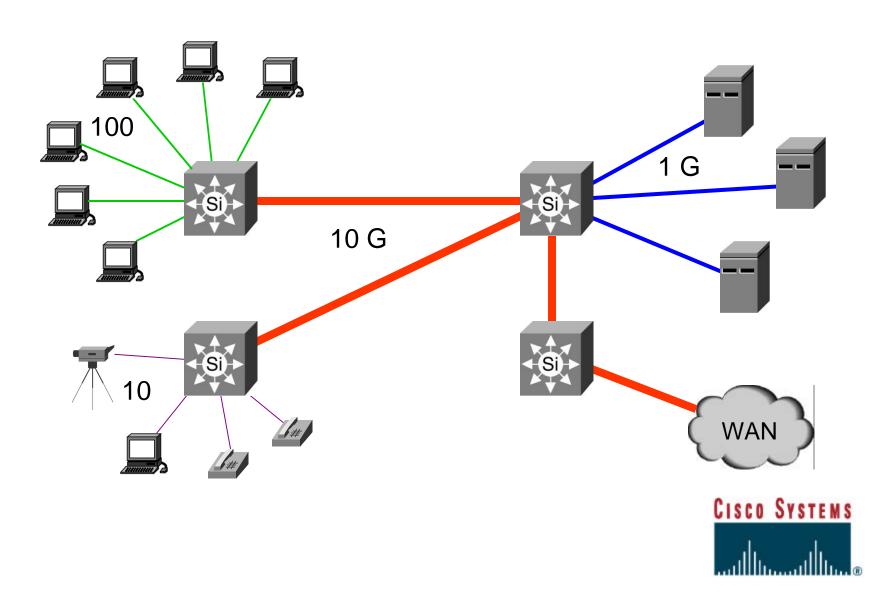
10 Gigabit Ethernet MAC and LAN PHY

Howard Frazier - Cisco Systems
IEEE P802 Tutorial
Kauai, HI
8-November-1999



The Enterprise Backbone

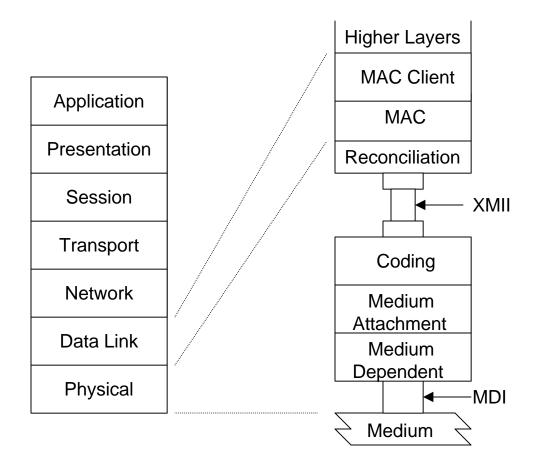


10 Gigabit Ethernet LAN Features

- Full Duplex 802.3 MAC operation
- Fiber optic medium
- 10,000 Mb/s data rate
- Consistency with 10/100/1000 Mb/s
 - frame format
 - services
 - management attributes

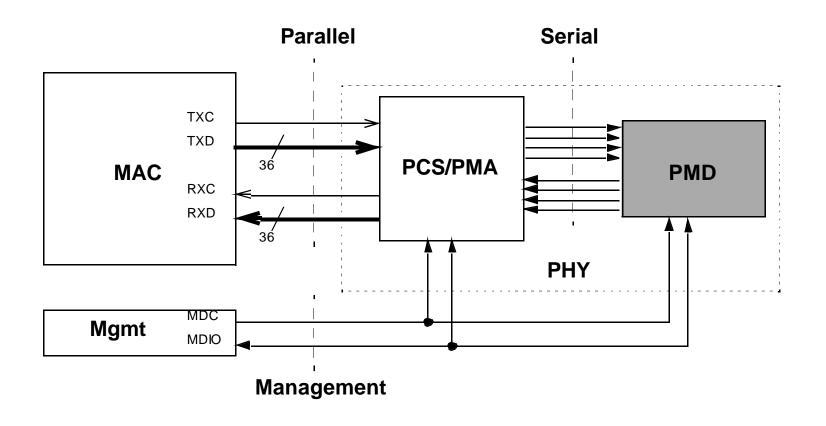


Layer Diagram





Interfaces





Possible LAN PHY Features

- Block Code (e.g. 8B/10B, MB810)
 - Similar to 1000BASE-X
 - Rapid development of Std and products
- Media Independent Interface XMII
- Flexible interface to PMD
 - CWDM, Parallel, Serial, MAS, Scrambled



10 Gigabit Ethernet The World's Favorite LAN Going Faster (again!)

