

10 Gigabit Ethernet

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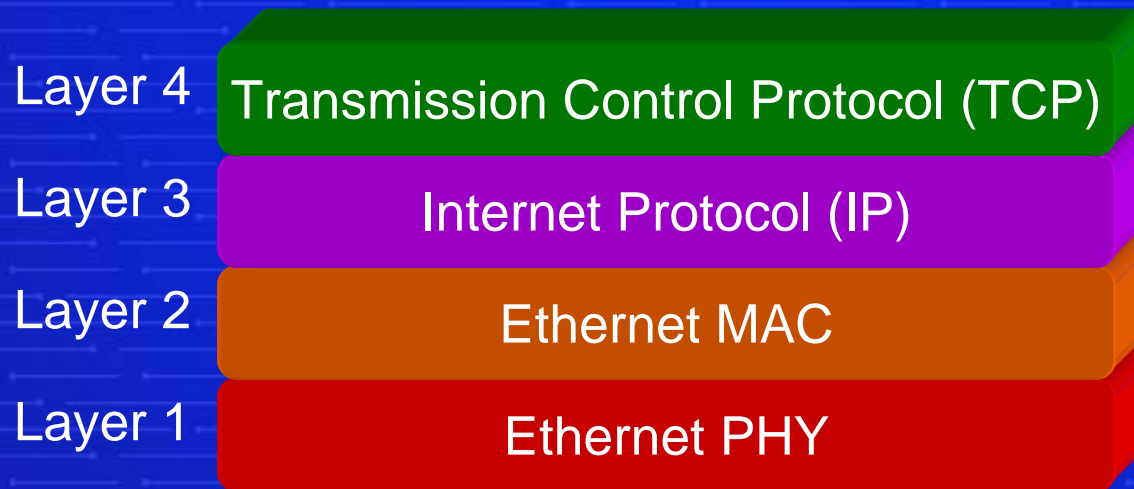
Editor-in-Chief, IEEE Std. 802.3ae™-2002

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Ethernet and TCP/IP

- Ethernet is a transport mechanism
- Ethernet is capable of using any transport protocol
- TCP/IP is its most prevalent transport protocol



Why I Like 10 Gigabit Ethernet

- Ethernet doesn't care what transport protocol is used
 - Improvements in transport protocol can dramatically effect throughput and latency
- Standards based technology
 - 802.3ae (optical 10GbE) standard was ratified in June 2002
 - 10G Fibre Channel adopted all 802.3ae's PHYs
 - aTCA™ (Advanced Telecom Computing Architecture) adopted 802.3ae's XAUI for PICMG 3.1
 - 802.3ak (10GBASE-CX4) will ratify in early 2004
 - 802.3an (10GBASE-T) is targeting ratification in 1H'06
 - Backplane Ethernet Study Group was formed last week
- Ethernet volume \longleftrightarrow steep cost reduction curve
- KISS – Keep It Simple and Stupid



Thank you!

