

LAN Emulation, IP Over ATM and MPOA

Raj Jain

Professor of Computer and Information Sciences
The Ohio State University
Columbus, OH 43210

These slides are available at

<http://www.cis.ohio-state.edu/~jain/cis777-99/>



- ❑ LAN Emulation
- ❑ Classical IP over ATM
- ❑ Next Hop Resolution Protocol (NHRP)
- ❑ Multiprotocol over ATM(MPOA)

LAN Emulation: Features

- ❑ One ATM LAN can be n virtual LANs
- ❑ Logical subnets interconnected via routers
- ❑ Need drivers in hosts to support each LAN
- ❑ Only IEEE 802.3 and IEEE 802.5 frame formats supported. (FDDI can be easily done.)
- ❑ Doesn't allow passive monitoring
- ❑ No token management (SMT), collisions, beacon frames.
- ❑ Allows larger frames.

LE Header (2 Bytes)

IEEE 802.3 or 802.5 Frame