Rising Star Research

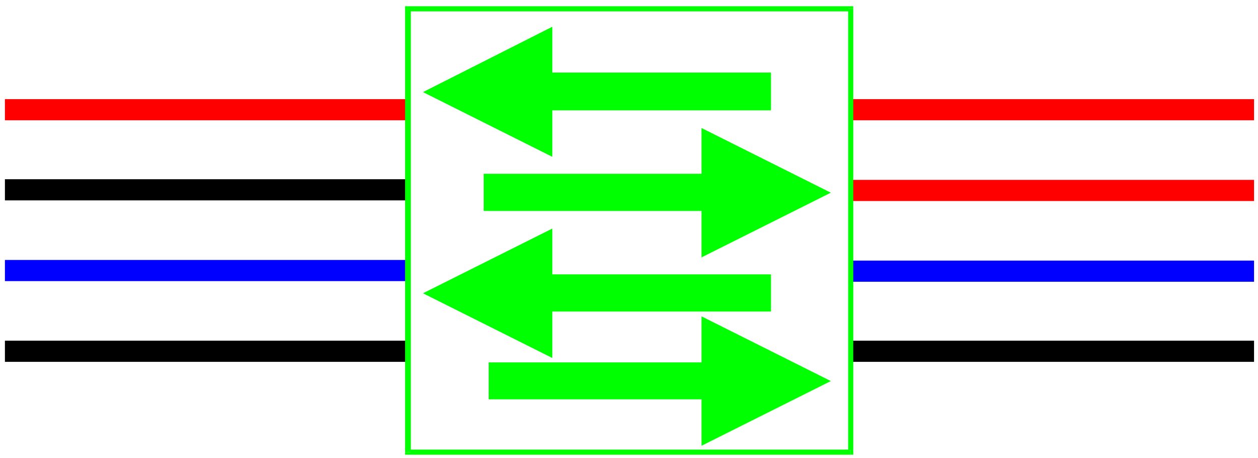
VLAN Classes

IEEE 802.1 Interim Meeting
Denver, Colorado
October 11-13, 1995

Rising Star Research
K. Karl Shimada
kkarl@netcom.com

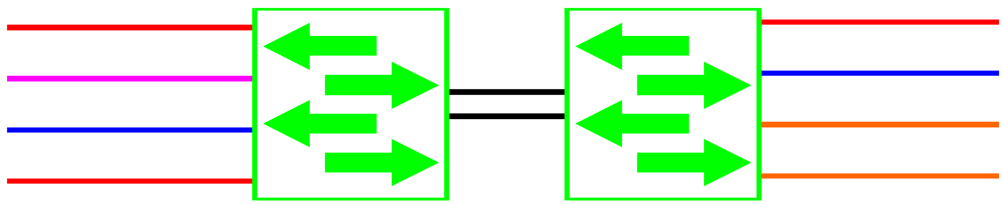
Classes of VLANs

- Class I - Port Switching
  - Provides for the grouping of ports on a LAN switch



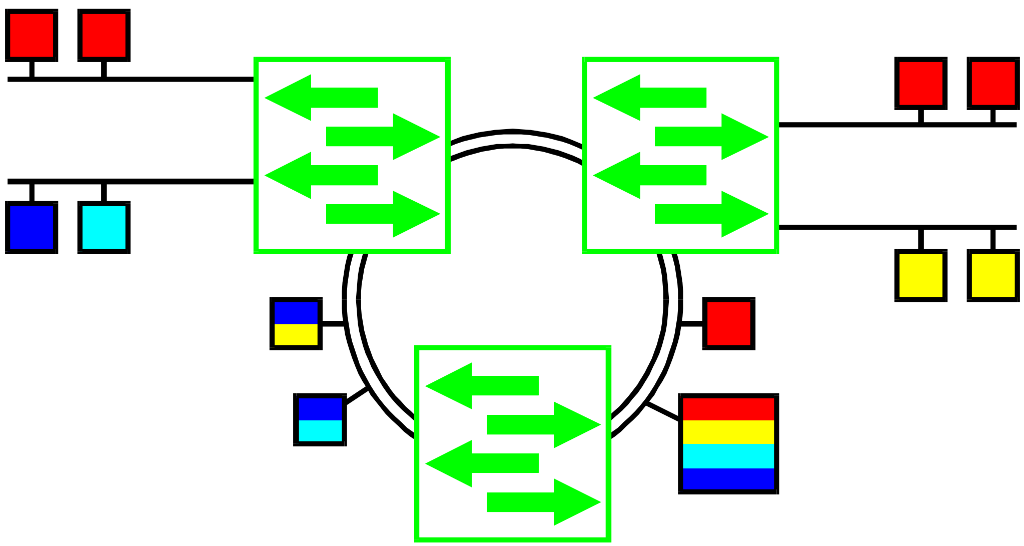
Classes of VLANs

- **Class II - Inter-Switch**
  - Class I + allows VLAN groups to span multiple switches; switch-to-switch trunks are either switched or shared



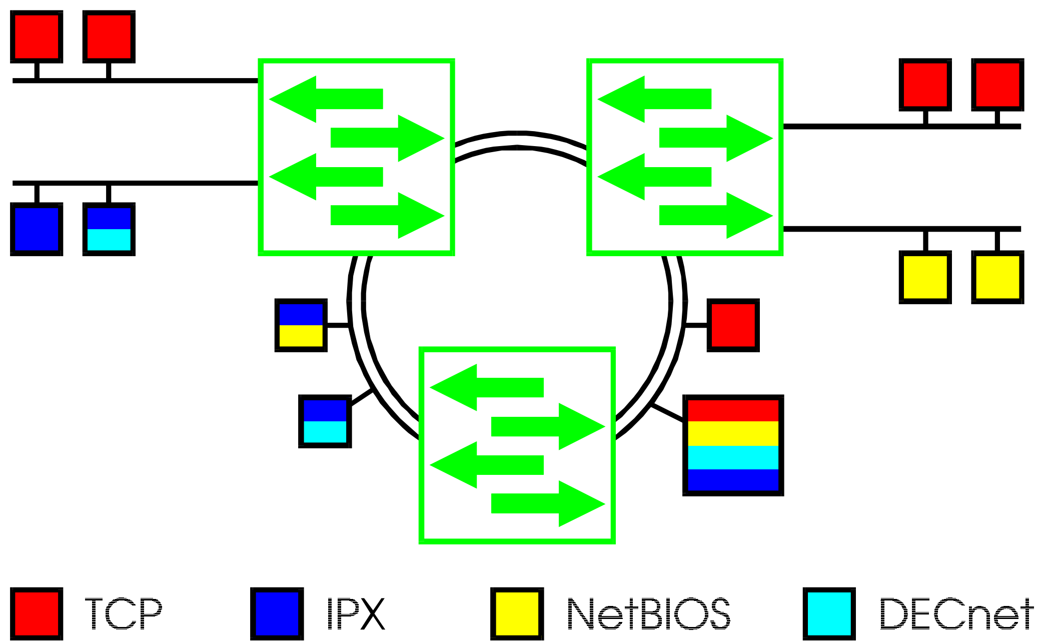
Classes of VLANs

- **Class III - MAC-based**
  - **Class II + allows VLANs to be defined by MAC address**



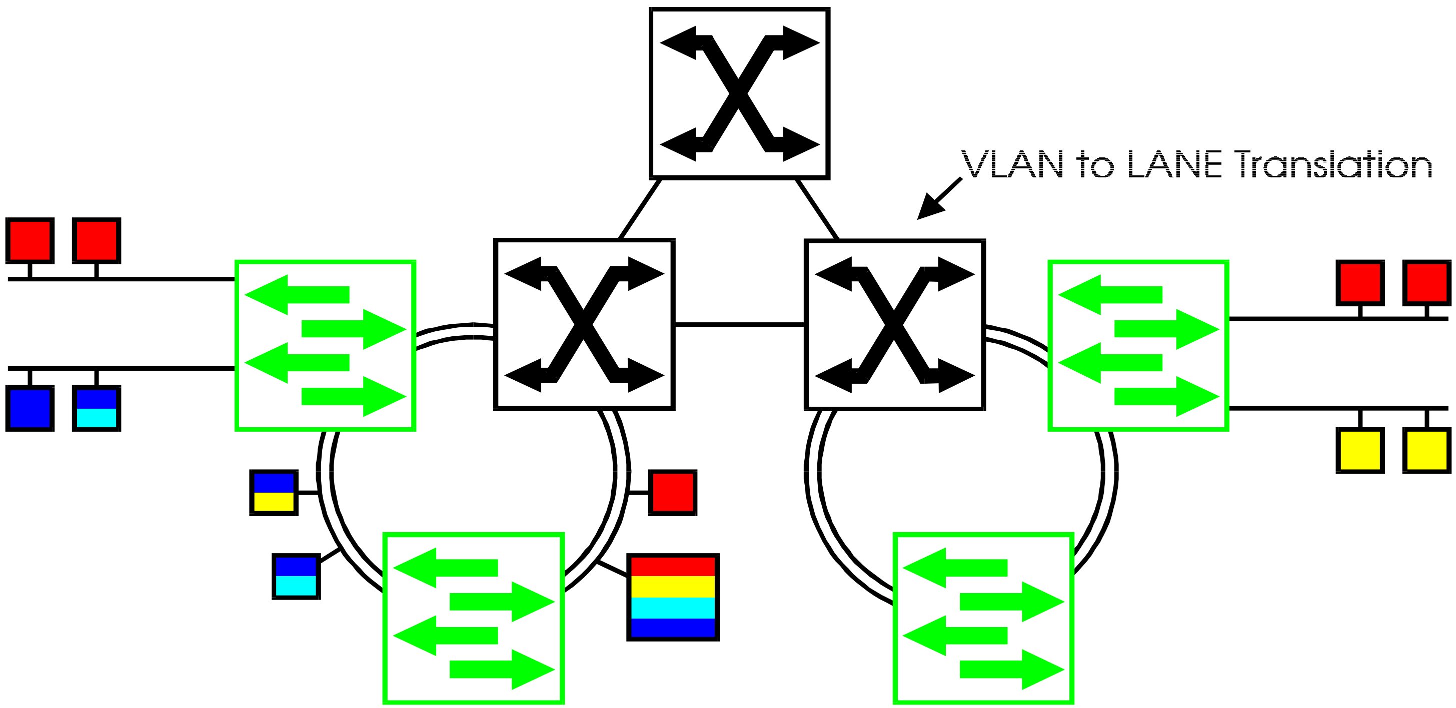
Classes of VLANs

- **Class IV - Protocol**
  - Class III + allows VLAN groups to be defined based on network operating system protocol



Classes of VLANs

- **Class V - ATM**
  - **Class II, III or IV + allows VLANs to transparently use ATM switch links that support ATM LAN Emulation**



Protocol Stack / VLAN Scope