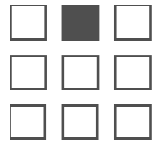


**RISING STAR RESEARCH**

# **VLAN Classes**

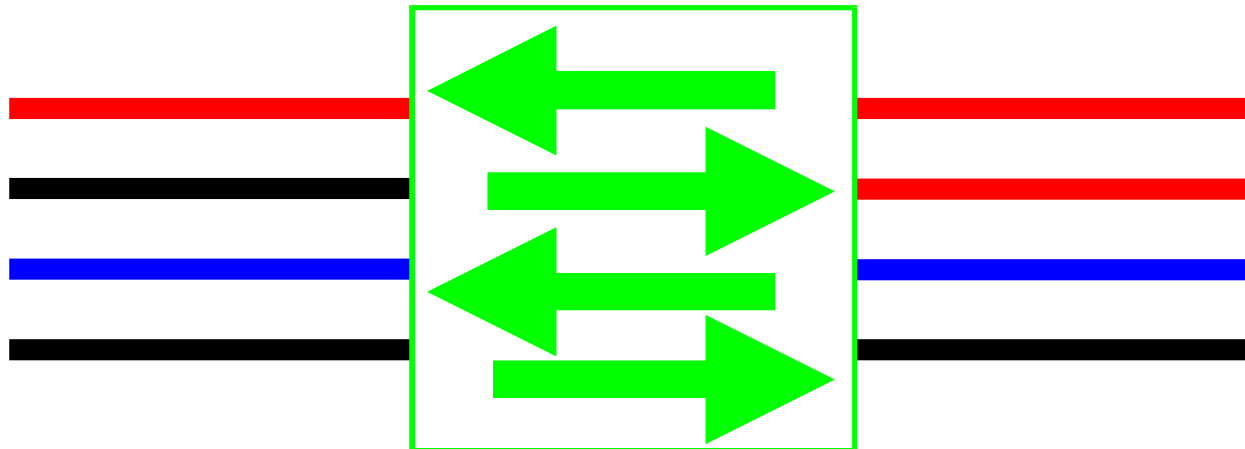
**IEEE 802.1 Interim Meeting  
Denver, Colorado  
October 11-13, 1995**

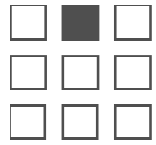
**Rising Star Research  
K. Karl Shimada  
kkarl@netcom.com**



## Classes of VLANs

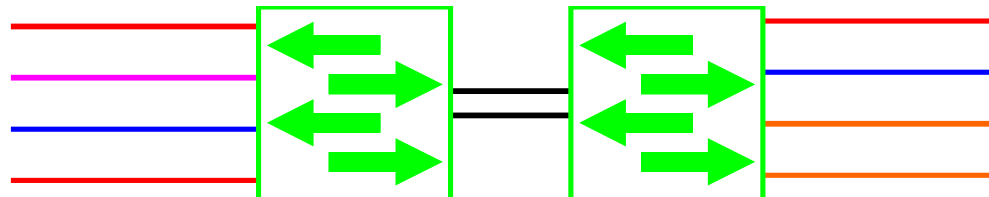
- **Class I - Port Switching**
  - Provides for the grouping of ports on a LAN switch

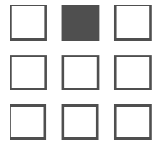




## Classes of VLANs

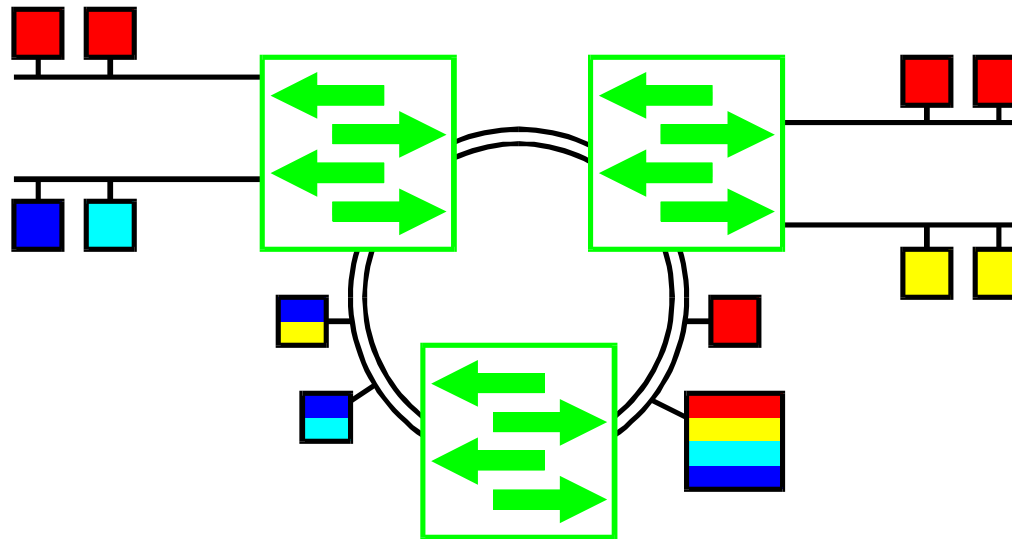
- **Class II - Inter-Switch**
  - Class I + allows VLAN groups to span multiple switches; switch-to-switch trunks are either switched or shared

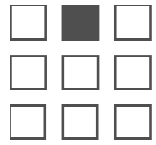




## Classes of VLANs

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

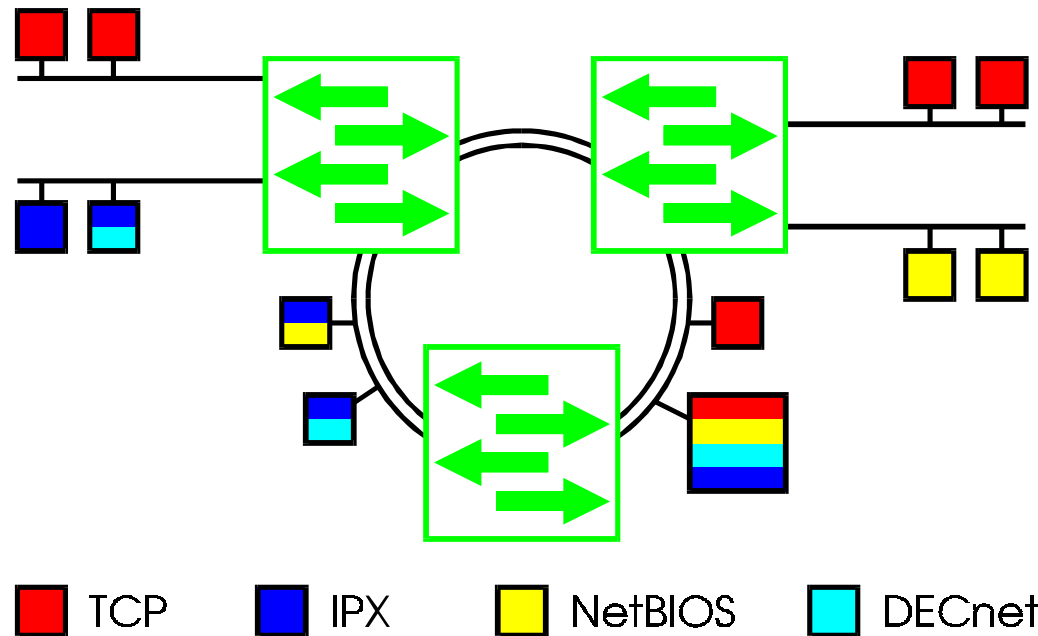


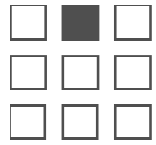


## Classes of VLANs

- **Class IV - Protocol**

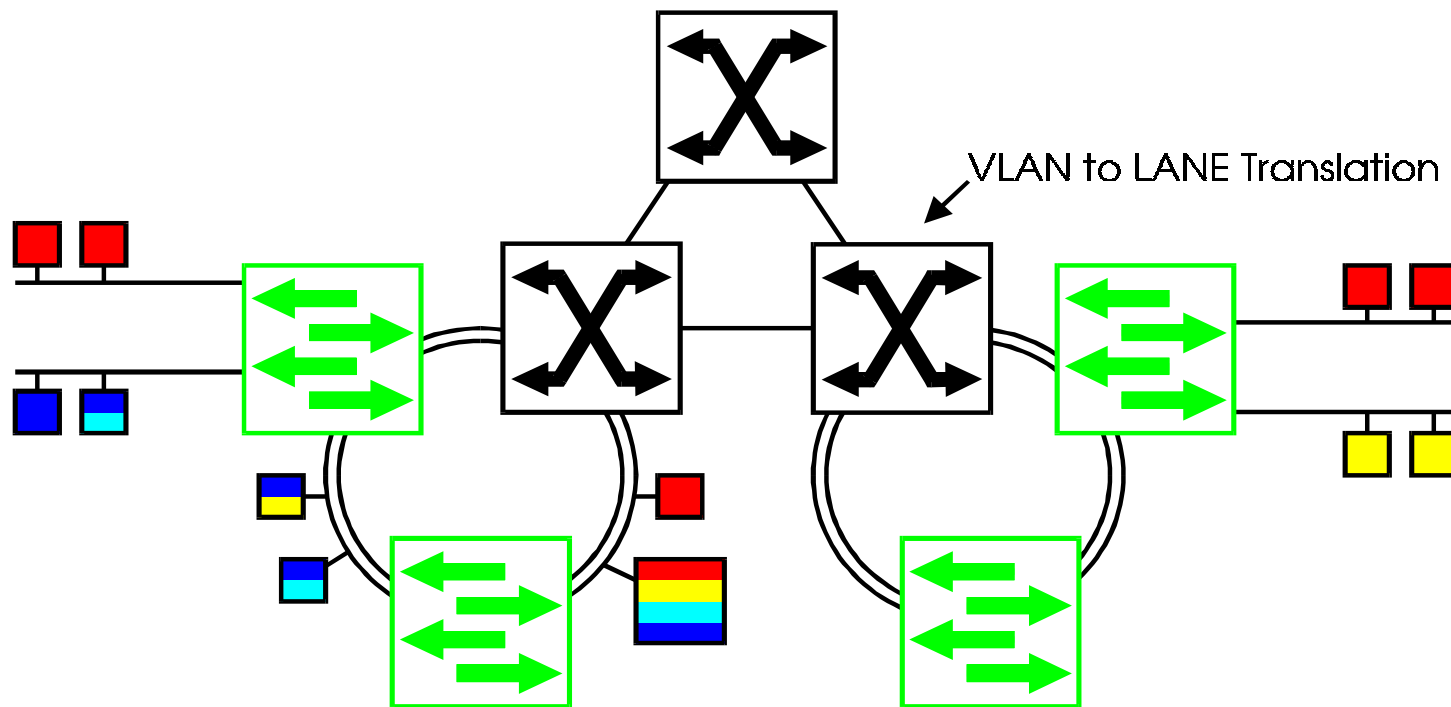
- Class III + allows VLAN groups to be defined based on network operating system protocol

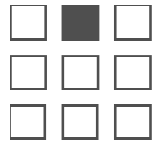




## Classes of VLANs

- **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

