

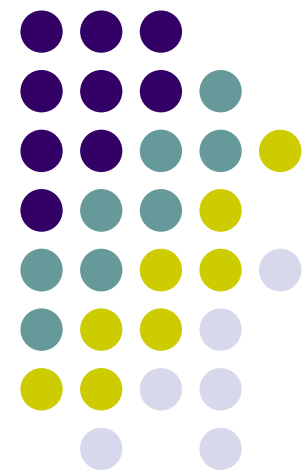
# Quality of Service Marking in Virtual eXtensible Local Area Network

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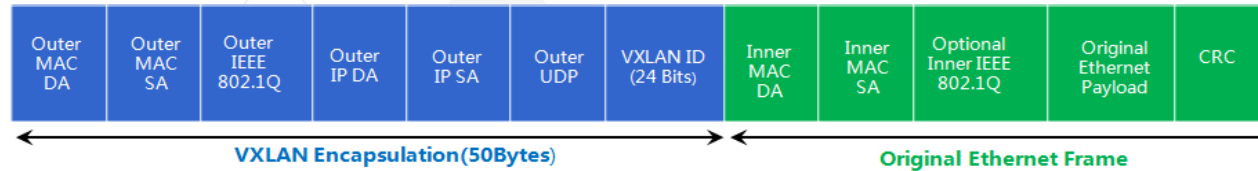
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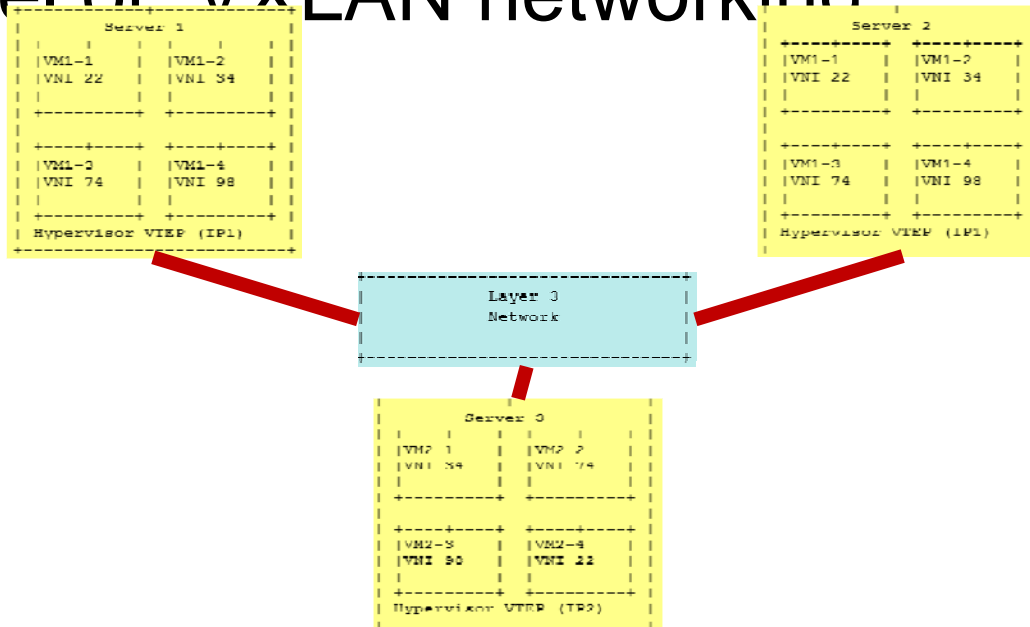
# What is VXLAN?



- Encapsulation of VXLAN : MAC-in-UDP

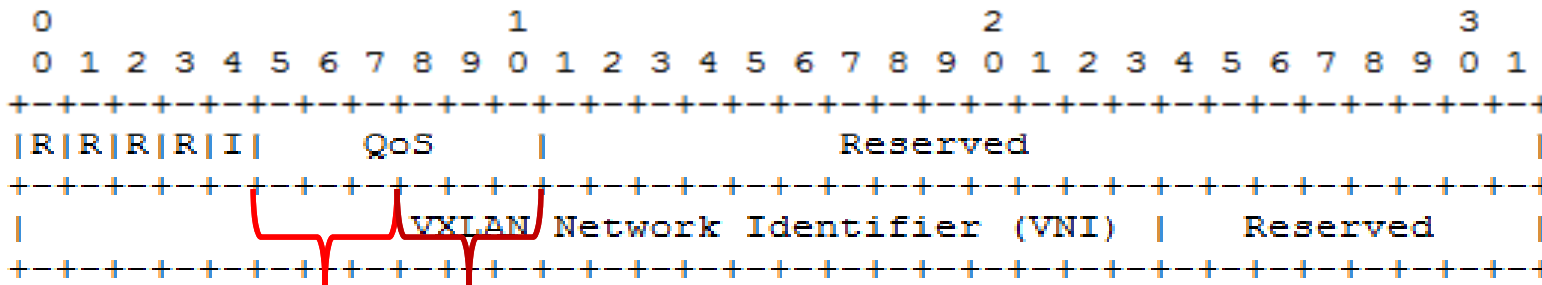
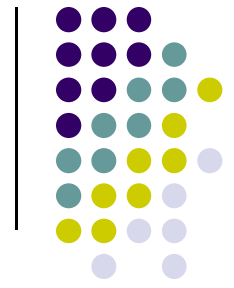


- Model of VXLAN networking



VXLAN Tunnel Endpoint (VTEP) or Network Virtualization Edge (NVE)

# QoS Bits



**Precedence**  
**Bits**

**Class Selector**  
**DYNAMIC**  
**APPLICATION (DPI)**  
**SPECIFIC MAPPING**

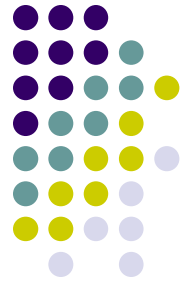
**STATIC**  
**VXLAN SPECIFIC**  
**MAPPING**

- 001 – BK background
- 000 – BE best effort
- 010 – EE excellent effort
- 011 – CA critical application
- 100 – VI video
- 101 – VO voice
- 110 – IC internetwork control
- 111 – NC network control

- 001 – reserved
- 000 – ftp/email
- 010 – web surfing
- 011 – instant message
- 100 – video
- 101 – voice
- 110 – high performance computation
- 111 – reserved

- 001 – reserved
- 000 – standard
- 010 – bronze
- 011 – silver
- 100 – gold
- 101 – diamond
- 110 – emergency
- 111 – reserved

# QoS Bit Processing - Decapsulation



- At the NVE : prioritize according to QoS bits
- At the Proxy : re-mark Ethernet frame, copy class selector bits into Priority Code Point field in VLAN tag

# QoS Bit Processing - Encapsulation

- At the NVE : dynamic assignment using DPI
- At the NVE : static assignment using configuration by VM manager/ NVA
- At the Proxy : dynamic assignment using DPI
- At the Proxy : static assignment using configuration by VM manager/ NVA

# Next Steps

- Please read and comment

