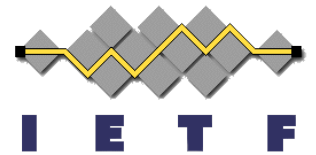


DHC WG IETF-87

DHCP Options for Configuring Multicast Addresses in VXLAN



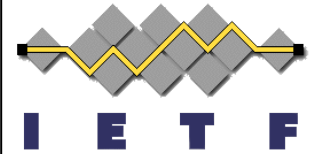
ddraft-sarikaya-dhc-vxlan-multicast-01

Behcet Sarikaya

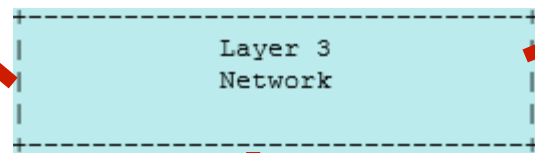
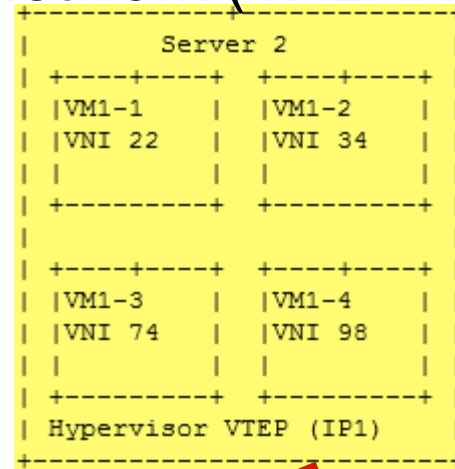
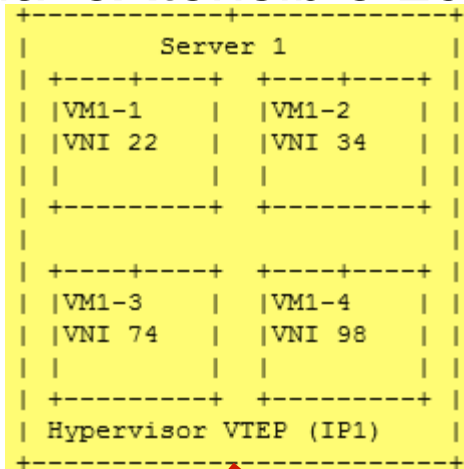
Frank Xia

July 2013

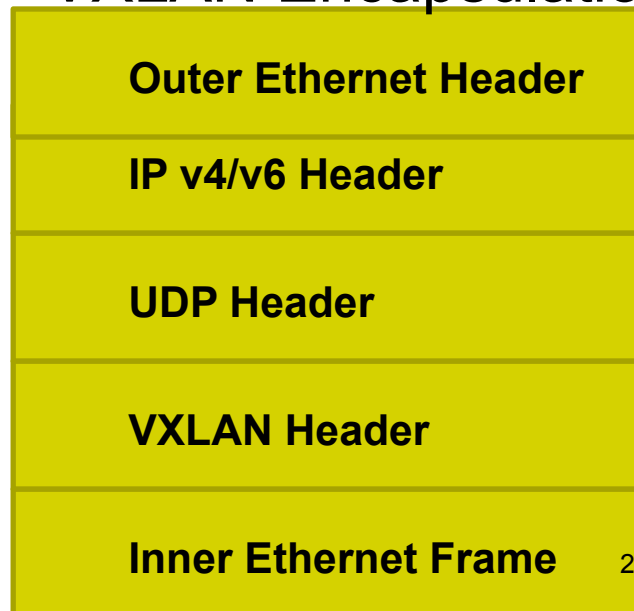
What is VXLAN?



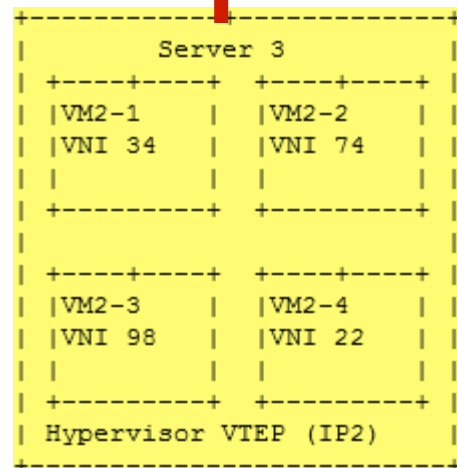
Virtual eXtensible Local Area Network (VXLAN)



VXLAN Encapsulation



All nodes share the same VXLAN Network Identifier (VNI) sent in VXLAN header

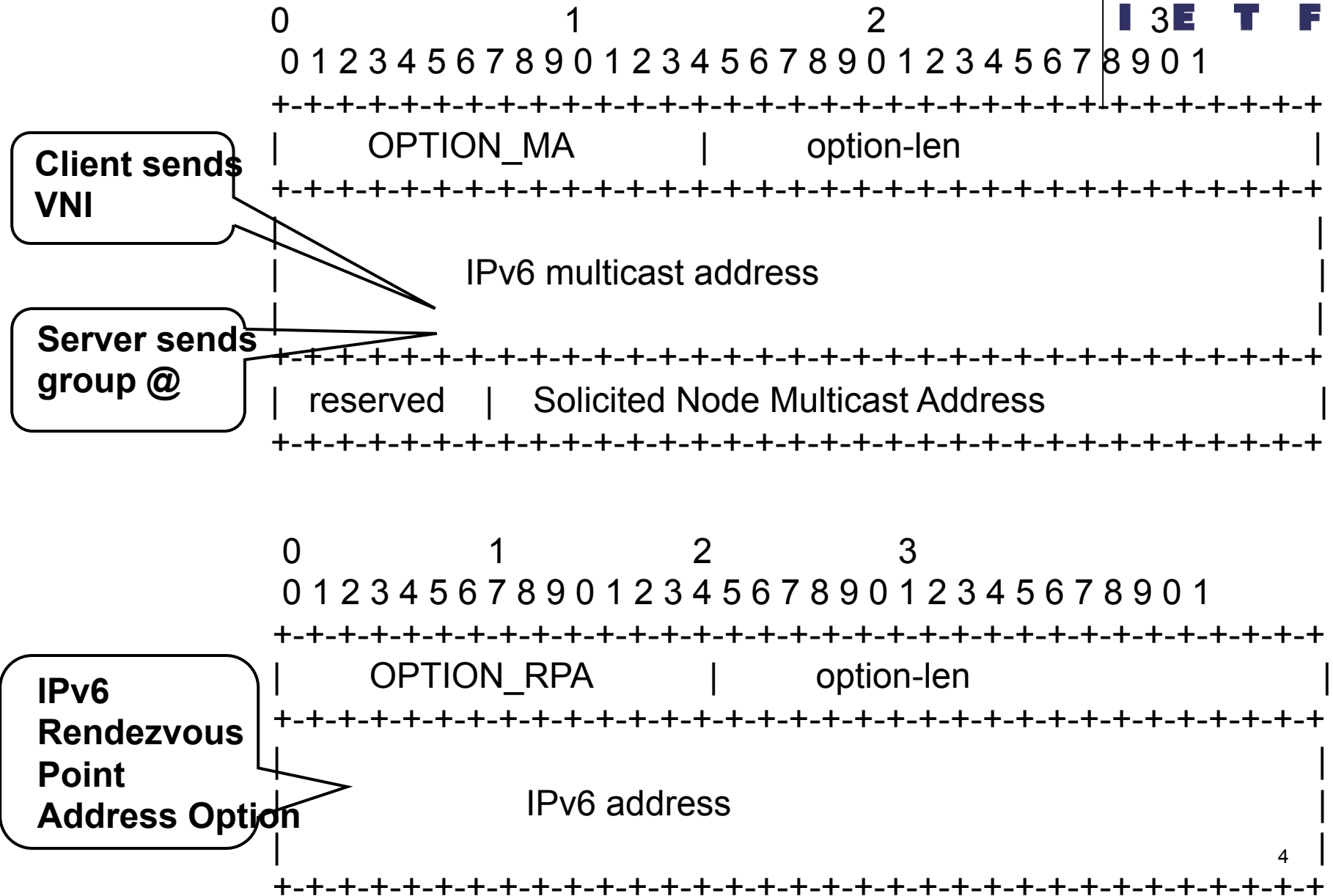


What is the Problem?

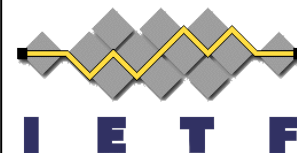


- **IPv4 broadcast needed by ARP messages are converted into IPv4 multicast (ASM) to replace MAC broadcast which is not available**
- **IPv6 neighbor discovery messages can be delivered using IPv6 multicast (ASM)**
- **A different multicast group must be created for each VNI**
- **All VXLAN VTEPs belonging to the same VNI join this group**
- **In draft-sarikaya-dhc-vxlan-multicast we propose that DHCP server assign group addresses**
- **For each ASM group, Rendezvous Point (RP) Address also must be assigned**

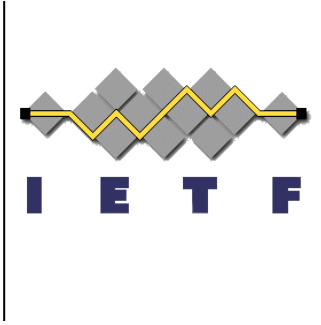
Solution – DHCPv6







Please comment
and
help us improve the draft



Thank you