

Active OAM in Geneve

draft-mmbb-nvo3-geneve-oam

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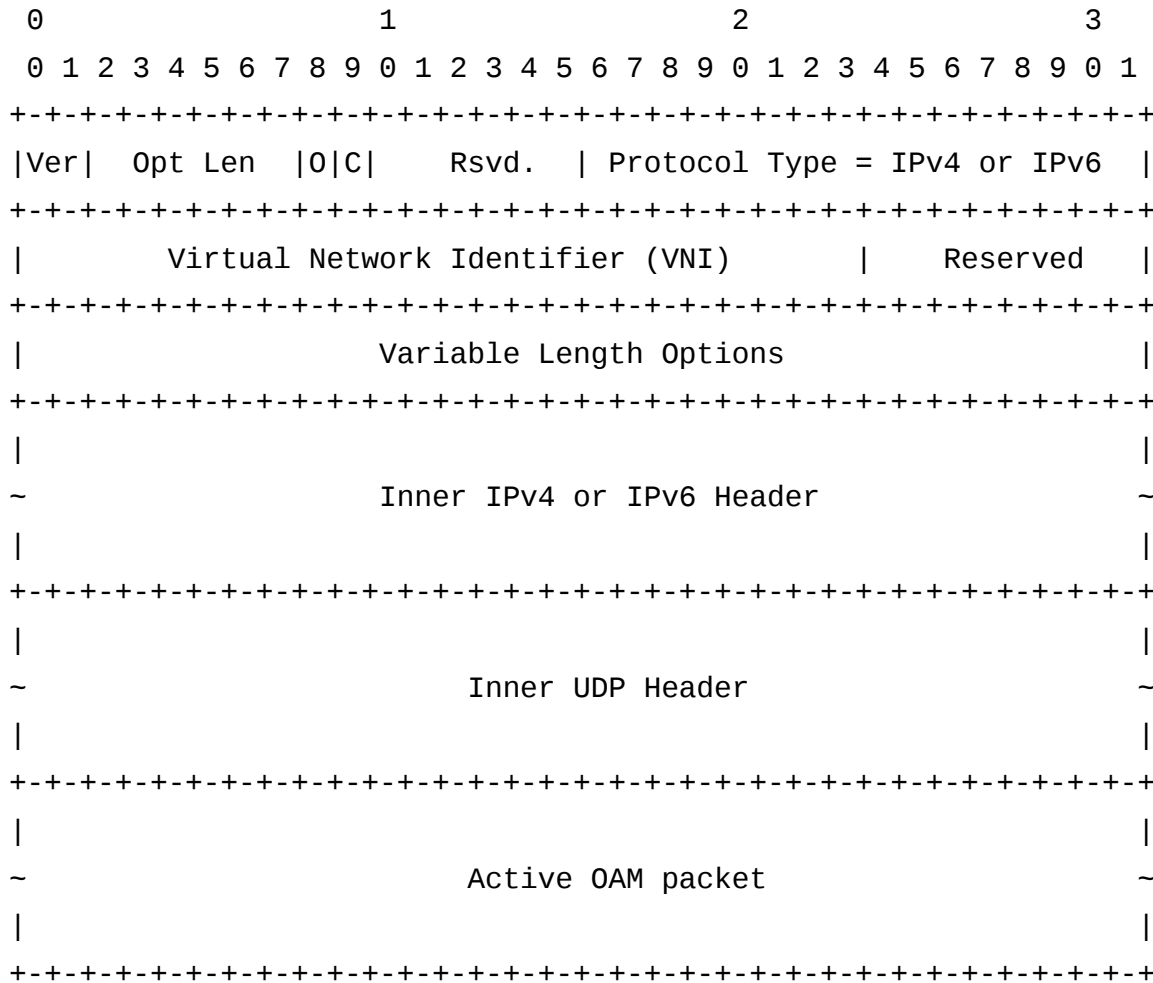
Problem statement

- Active OAM uses specially constructed packets to monitor, troubleshoot, localize defects in a Geneve network
- Active OAM test packets must not be leaked out of Geneve domain
- Multiple active OAM protocols are required to support fault management and performance monitoring
- Active OAM protocols in Geneve must be clearly identifiable in Geneve

Proposed solutions

- IP/UDP Encapsulation
- Direct identifier in the Protocol type field
- MPLS G-Ach
- Geneve Associated Channel

IP/UDP encapsulation

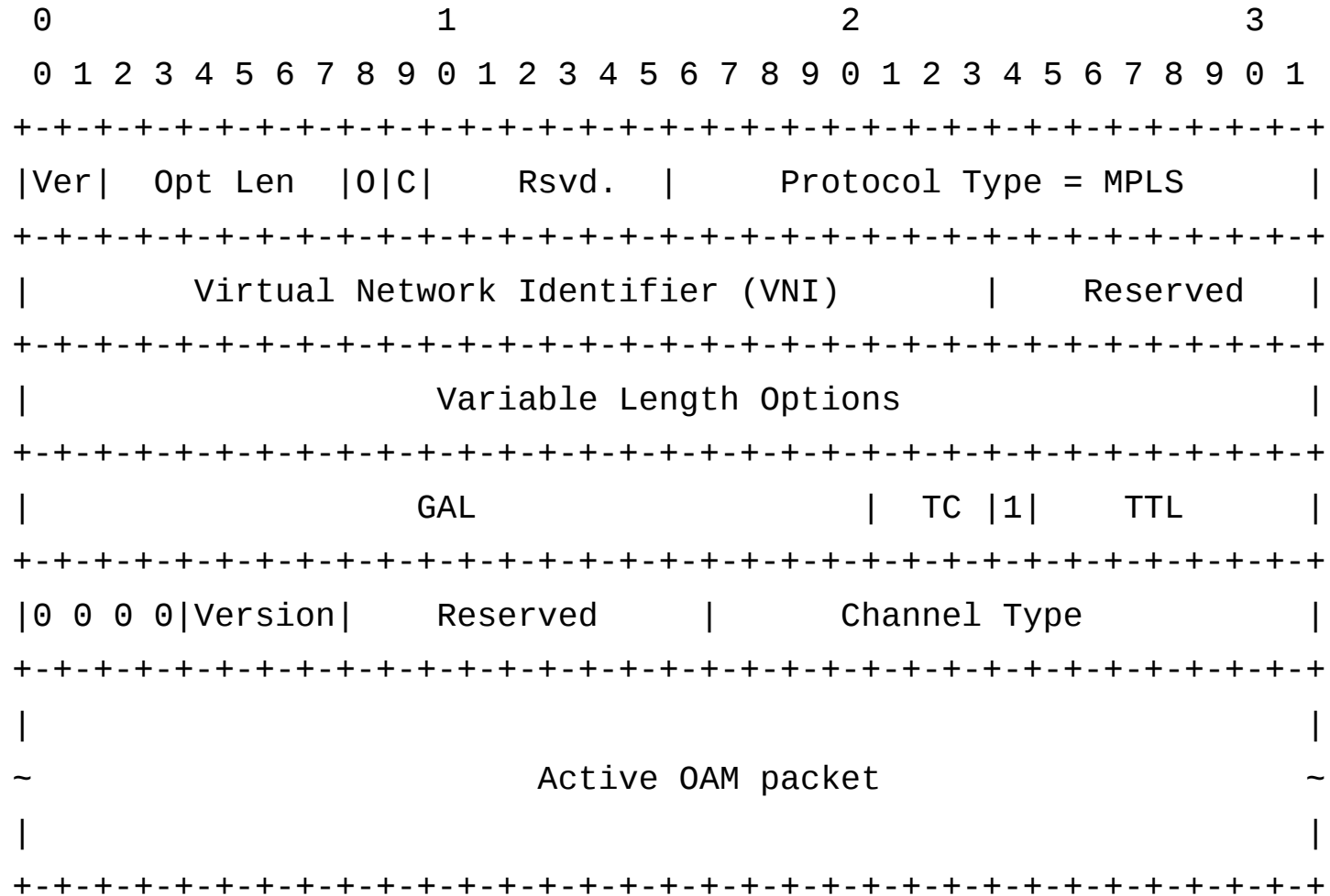


Destination IP address in the inner header from 127/8 range for IPv4 and from the 0:0:0:0:fff:7f00/107 range for IPv6

Pro: similar to MPLS LSP

Cons: IP/UDP overhead

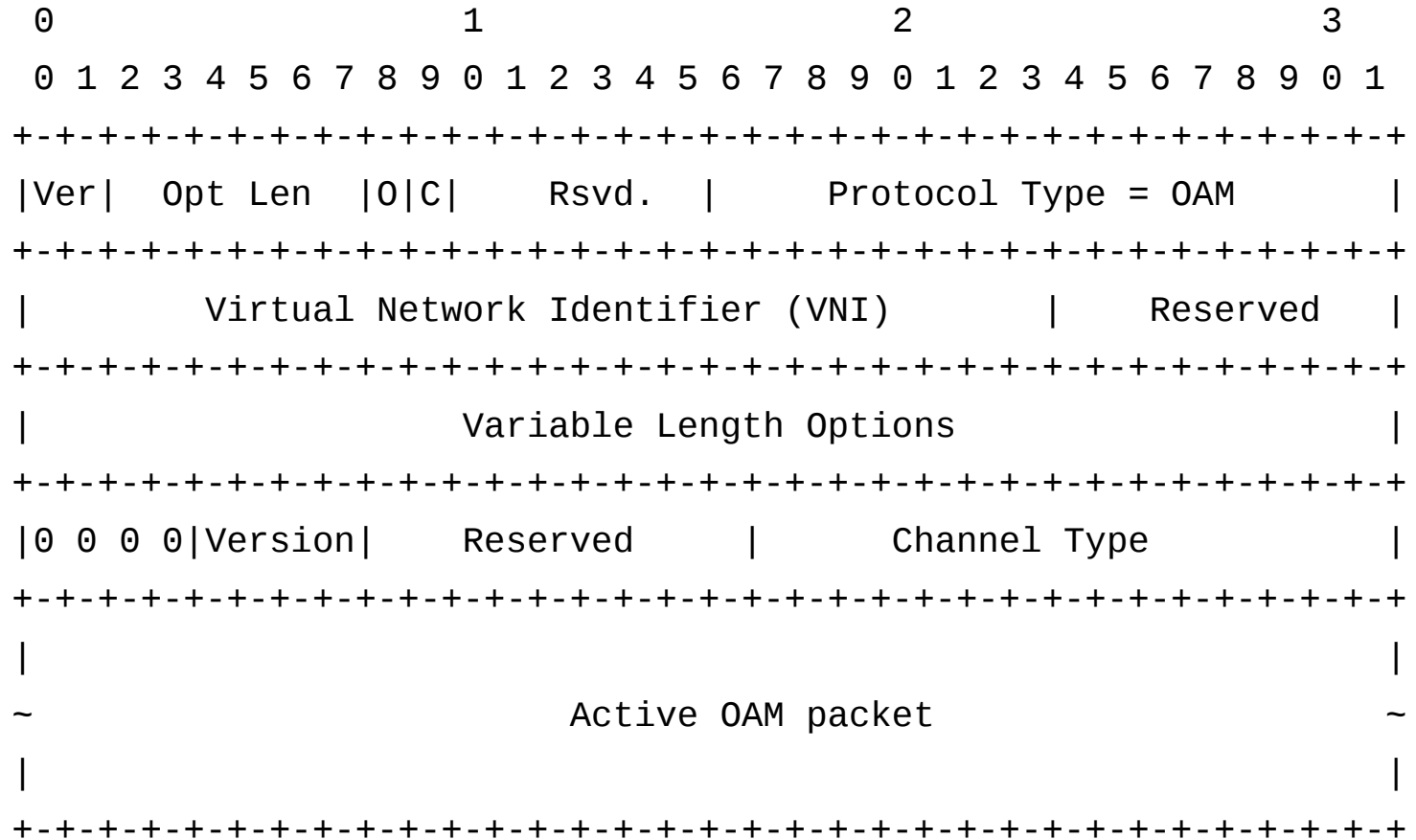
MPLS G-ACh



Pro: Re-use PW-VCCV OAM and already defined Channel Types (IANA PW Associated Channel Type Registry)

Cons: MPLS is required in Layer 3

Geneve Associated Channel



Pro: May re-use PW-VCCV OAM and already defined Channel Types (IANA PW Associated Channel Type Registry)

Cons: ?

Next steps

- Discuss
- Decide
- Echo Request/Echo Reply

Thank you!