IESG LC: BFD for VXLAN

draft-ietf-bfd-vxlan

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Scope of the discussion

- Switch to the Informational track
- Use of Management VNI for BFD over VXLAN
- Firewall on VTEP – removed from the specification
- Selection and use of the destination MAC address in the inner Ethernet header
- Use of an IP address from the Internal host loopback address range as the destination IP address in the inner IP header
- Echo BFD mode for BFD over VXLAN
Number of BFD Sessions and Management VNI

• Section 4

In most cases, a single BFD session is sufficient for the given VTEP to monitor the reachability of a remote VTEP, regardless of the number of VNIs. When the single BFD session is used to monitor the reachability of the remote VTEP, an implementation SHOULD choose any of the VNIs. An implementation that supports this specification MUST support the use of the Management VNI as control and management channel between VTEPs. The selection of the VNI number of the Management VNI MUST be controlled through a management plane. An implementation MAY use VNI number 1 as the default value for the Management VNI. All VXLAN packets received on the Management VNI MUST be processed locally and MUST NOT be forwarded to a tenant.

• Section 6

Processing of BFD control packets received on non-management VNI is outside the scope of this specification.
Destination IP Address

- The inner destination IP address SHOULD be set to one of the loopback addresses (127/8 range for IPv4 and 0:0:0:0:FFFF:7F00:0/104 range for IPv6)

Destination IP address might be used to explore available paths. Choosing a /32 or /128 might cause problems to existing implementations.
Open questions

• BFD Echo mode over VXLAN
  • BFD Echo is outside the scope of this specification of BFD over VXLAN

• Destination MAC address of an inner Ethernet frame:
  Destination MAC: A Management VNI, which does not have any tenants, will have no dedicated MAC address for decapsulated traffic. The value [TBD1] SHOULD be used in this field.

• IANA Considerations
  IANA is requested to assign a single MAC address to the value TBD1 from the "IANA Unicast 48-bit MAC Address" registry from the "Unassigned (small allocations)" block. The Usage field will be "BFD for VXLAN" with a Reference field of this document.
Next steps

• IESG II

Thank you