

Geneve applicability for service function chaining

draft-boutros-nvo3-geneve-applicability-for-sfc-00

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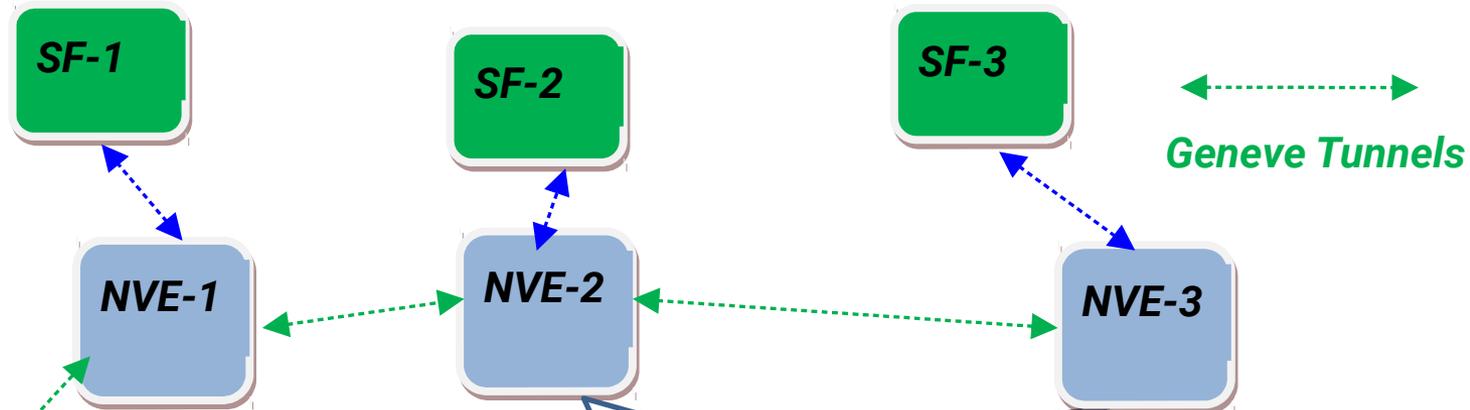
Geneve applicability for service function chaining

- New Geneve option TLV for the service function list forming the SFP.
 - Encodes list of service function ip addresses.
 - A sub-tlv for HMAC for security following procedures described in [[draft-ietf-6man-segment-routing-header](#)]
- New Geneve option TLV for NSH Metadata
 - To carry NSH metadata type 1 fixed and type 2 variable length.

Geneve applicability for service function chaining

- Based on a classification set the service function list (SFL) option TLV with IP addresses of the service functions.
- Resolves the service first function ip addr, to the NVE connected to it.

Ingres NVE



- Identifies the SFL option, and locates it's SF in the list based on an index.
- Deliver inner packet to SF possibly along with some metadata encaped w/ NSH if the SF is NSH aware, or using other encapsulations like vlan or q-in-q encap.
- For return packets, the NVE node, resolves the next service function ip address, to next NVE connected to the service function.

- Deliver Return packets to customer destination

Next steps

- Seeking comments?

Thank you