

Yang Data Model for NVO3 Protoco

|

draft-chen-nvo3-yang-02.txt

Ran Chen(ZTE)

Fangwei Hu

Yubao. Wang

Yufeng. Liu(Volta Networks)

Goals

- Defines the YANG data model for NVO3 configuration and operation.
- Covers two types of encapsulations:
 - Geneve
 - VXLAN-GPE.
 -

Status/History

- Present the draft-chen-nvo3-vxlan-yang-07 for many times.
- The WG would like to a generic YANG model for configuring various elements in the NVO3 architecture.
 - So , converge draft-chen-nvo3-vxlan-yang-07 into this draft.

NVO3 Configuration

```
module: ietf-nvo3
  +--rw nvo3
  |   +--rw vxlan-enable?      boolean
  |   +--rw geneve-enable?    boolean
  |   +--rw nvo3-instance* [vni]
  |   |   +--rw vni            vni
  |   |   +--rw protocol-type? enumeration
  |   |   +--rw vtep-ipv4?    inet:ipv4-address-no-zone
  |   |   +--rw vtep-ipv6?    inet:ipv6-address-no-zone
  |   |   +--rw bridge-interface? if:interface-ref
  |   |   +--rw (control-plane)?
  |   |   |   +--:(evpn)
  |   |   |   |   +--rw evpn-instance? evpn-instance-ref
  |   |   |   |   +--:(static-config)
  |   |   |   |   |   +--rw ac-name?      ac-name
  |   |   |   |   |   +--rw l2interface-name? if:interface-ref
  |   |   |   |   +--rw unicast-tunnel* [unicast-tunnel-name] .
  |   |   |   |   |   +--rw unicast-tunnel-name unicast-tunnel-name
  |   |   |   |   +--rw multicast-tunnel* [multicast-tunnel-name]
  |   |   |   |   |   +--rw multicast-tunnel-name multicast-tunnel-name
  |   |   +--rw unicast-tunnel* [unicast-tunnel-name]
  |   |   |   +--rw unicast-tunnel-name unicast-tunnel-name
  |   |   |   +--rw encaps-type? enumeration
  |   |   |   +--rw tunnel-source-ipv4? inet:ipv4-prefix
  |   |   |   +--rw tunnel-source-ipv6? inet:ipv6-prefix
  |   |   |   +--rw tunnel-destination-ipv4? inet:ipv4-prefix
  |   |   |   +--rw tunnel-destination-ipv6? inet:ipv6-prefix
  |   |   +--rw multicast-tunnel* [multicast-tunnel-name]
  |   |   |   +--rw multicast-tunnel-name multicast-tunnel-name
  |   |   |   +--rw encaps-type? enumeration
  |   |   |   +--rw tunnel-source-ipv4? inet:ipv4-prefix
  |   |   |   +--rw tunnel-source-ipv6? inet:ipv6-prefix
  |   |   |   +--rw tunnel-destination-ipv4? inet:ipv4-prefix
```

NVO3 Operational State

```
+--ro nvo3-state
  +--ro nvo3-instance* [vni]
    | +--ro vni vni
    | +--ro protocol-type? enumeration
    | +--ro vtep-ipv4? inet:ipv4-address-no-zone
    | +--ro vtep-ipv6? inet:ipv6-address-no-zone
    | +--ro bridge-interface? if:interface-ref
    | +--ro (control-plane)?
    | | +--:(evpn)
    | | | +--ro evpn-instance? evpn-instance-ref
    | | +--:(static-config)
    | |   +--ro ac-name? ac-name
    | |   +--ro l2interface-name? if:interface-ref
    | +--ro unicast-tunnel* [unicast-tunnel-name]
    | | +--ro unicast-tunnel-name unicast-tunnel-name
    | +--ro multicast-tunnel* [multicast-tunnel-name]
    |   +--ro multicast-tunnel-name multicast-tunnel-name
  +--ro unicast-tunnel* [unicast-tunnel-name]
    | +--ro unicast-tunnel-name unicast-tunnel-name
    | +--ro encaps-type? enumeration
    | +--ro tunnel-source-ipv4? inet:ipv4-prefix
    | +--ro tunnel-source-ipv6? inet:ipv6-prefix
    | +--ro tunnel-destination-ipv4? inet:ipv4-prefix
    | +--ro tunnel-destination-ipv6? inet:ipv6-prefix
  +--ro multicast-tunnel* [multicast-tunnel-name]
    +--ro multicast-tunnel-name multicast-tunnel-name
    +--ro encaps-type? enumeration
    +--ro tunnel-source-ipv4? inet:ipv4-prefix
    +--ro tunnel-destination-ipv6? inet:ipv6-prefix
```

Next Step

- Comments welcome
- Welcome to fulfill this work together

Thanks!