Base YANG Data Model for NVO3 Protocols

draft-ietf-nvo3-yang-cfg-01.txt

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Introduction

Motivation

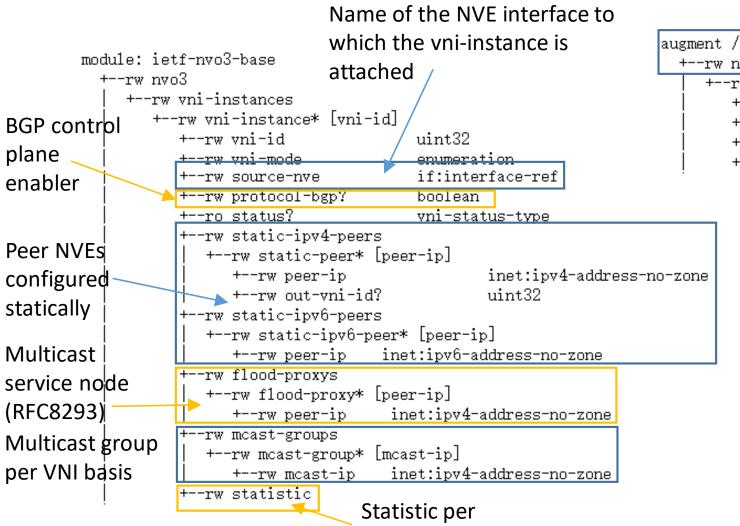
- To fill in the gap of the IETF NVO3 YANG
- A base YANG that is common and reusable for NVO3 technologies, e.g. VXLAN, NVGRE, GENEVE, VXLAN-GPE, etc.
- Compliant to the NVO3 architecture

Current Status

- Working group document since Sept. 27, 2019
- Version 00: upload as a WG document
- Version 01: cleaning some grammar errors

Overview of NVO3 base YANG

NVE as an interface

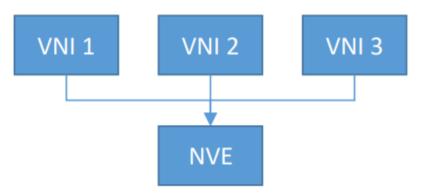


VNI basis

augment /if:interfaces/if:interface:
+--rw nvo3-nve

+--rw nvo3-config
+--rw source-vtep-ip? inet:ipv4-address-no-zone
+--rw source-vtep-ipv6? inet:ipv6-address-no-zone
+--rw bypass-vtep-ip? inet:ipv4-address-no-zone
+--rw statistics

Multiple vni-instances can be attached to the same NVE interface



YANG validator Result


```
ietf-nvo3-base@2019-11-04.yang:3: warning: RFC 8407: 4.9: namespace value should be
"urn:ietf:params:xml:ns:yang:ietf-nvo3-base"
ietf-nvo3-base@2019-11-04.yang:22: error: module "ietf-bgp-l3vpn" not found in search path
ietf-nvo3-base@2019-11-04.yang:28: warning: RFC 8407: 3.1: The IETF Trust Copyright statement seems
to be missing (see pyang --ietf-help for details).
ietf-nvo3-base@2019-11-04.yang:165: error: keyword "must" not in canonical order (see RFC 6020,
Section 12)
ietf-nvo3-base@2019-11-04.yang:506: error: keyword "when" not in canonical order (see RFC 6020,
Section 12)

yanglint 0.14.80: yanglint --verbose -p {rfclib} -p {draftlib} -p {tmplib} {model} -i:
err : Data model "ietf-bgp-l3vpn" not found.
err : Importing "ietf-bgp-l3vpn" module into "ietf-nvo3-base" failed.
err : Module "ietf-nvo3-base" parsing failed.
```

• Errors

- Keywords: Not at the right place, will update them in the version 02
- ietf-bgp-l3vpn: Not an RFC yet, but we augmented it in NVO3 based YANG. The draft is expired for now

Next steps

• Will contact the ietf-bgp-l3vpn authors to verify if they will keep working on the draft. If not, we will have to decouple from it.

Comments are always welcome