

L3VPN Yang Model Update

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L3VPN yang model update

Updates since IETF-98

- <https://tools.ietf.org/html/draft-ietf-bess-l3vpn-yang-01>
 - Minor update to use common datatypes (RD, RT types) from draft-ietf-rtgwg-routing-types

Upcoming updates:

- Changes related to NMDA alignment
 - Remove state containers reflecting applied config state
- Align with latest version of Network-instance model - [draft-ietf-rtgwg-ni-model-03](#)
 - Align BGP L3VPN specific knobs at top level and under network instance level
 - L3VPN container in under network-instance, conditional upon ni-type == l3vpn for per network-instance configuration
 - BGP augmentations at the top level for core facing instance configuration
 - BGP augmentations in the context of network instance for per network-instance configuration

- ❑ L3VPN config
 - ❑ Example - RD, RT

- ❑ L3VPN BGP specific config (per VRF)
 - ❑ Per network instance BGP specific knobs.
 - ❑ Example - label allocation mode

- ❑ L3VPN BGP specific config (Default VRF)
 - ❑ Belongs to BGP under routing container at top level
 - ❑ Example - retain route-targets on ASBR option B peering

```

+--rw network-instances
  +--rw network-instance* [name]
    +--rw name                string
    +--rw enabled?            boolean
    +--rw description?       string
    +--rw (ni-type)?
      +--:(l3vpn)
        +--rw l3vpn:l3vpn
          +--rw route-distinguisher
            | ...
          +--rw l3vpn:encapsulation
            +--rw type
            +--rw label-mode
        +--rw (root-type)?
          +--:(vrf-root)
            +--mp vrf-root
              | ...
              +--rw rt:routing/
                +--rw router-id?
                +--rw control-plane-protocols
                  +--rw control-plane-protocol*
                  +--rw bgp:bgp/
                    | ...
                    +--ro if:interfaces@
  
```

NI

```

+--rw routing
+--rw router-id?
+--rw control-plane-protocols
  | +--rw control-plane-protocol* [type name]
  | +--rw type
  | +--rw name
  | +--rw bgp:bgp
  | + ...
  | +--rw l3vpn:retain-rts
  | + ...
  
```

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Next steps

- Submit version -02 with new changes
- Request detailed review
- WGLC after handing review comments

L2VPN/EVPN

Yang

IETF-99

Prague

What's new?

L2VPN

- Removed unused module mpls
- Renamed l2vpn-instances-state to l2vpn-instances
- Added pseudowire status as defined in RFC4446 and IANA Pseudowire Status Codes
- Added notifications
- Moved PW definition out of L2VPN
- Moved model to NMDA style specified in draft-dsdt-nmda-guidelines-01.txt
- Renamed l2vpn-instances and l2vpn-instance to instances and instance to shorten paths

What's new?

Ethernet-Segment Yang

- Updated ES' AC/PW members to accommodate more than one AC or more than one PW
- Added the new preference based DF election method
- Referenced pseudowires in the new ietf-pseudowires.yang model
- Moved model to NMDA style specified in draft-dsdt-nmda-guidelines-01.txt
- Added state change notification

EVPN Yang

- Modified the operational state augment
- Renamed evpn-instances-state to evpn-instances
- Added vpws-vlan-aware to an EVPN instance
- Added a new augment to L2VPN to add EVPN
- Added pseudowire for the case of EVPN VPWS
- Added state change notification