L3VPN Yang Model Update

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Updates since IETF-98

  - 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](https://tools.ietf.org/html/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

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### BESS WG – IETF 99

```plaintext
---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* [type 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?

- 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