

Yang Data Model for Unified Tunnel

draft-li-rtgwg-utunnel-yang-00

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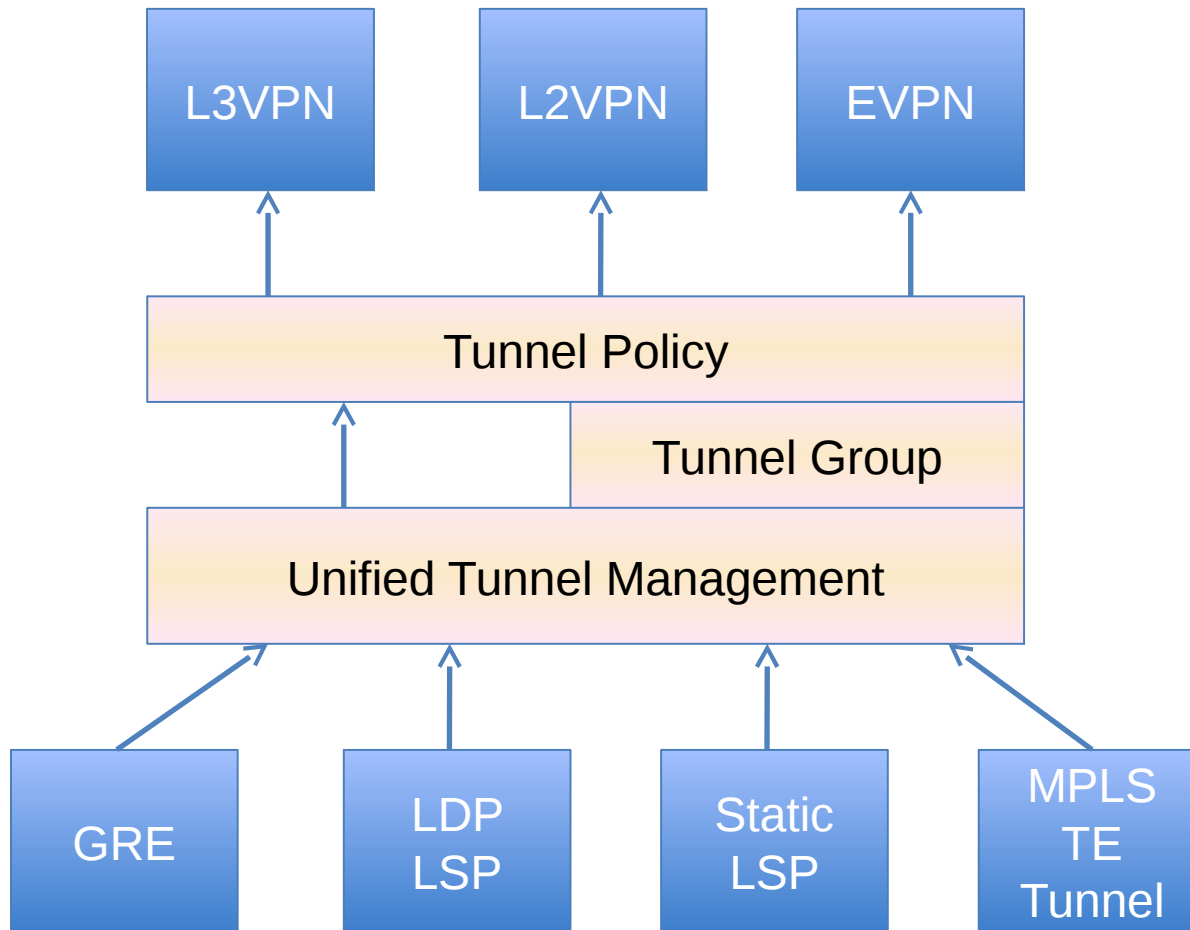
Introduction

- This document defines a YANG data model for the unified tunnel. The data model includes the operational state of tunnels.

Requirement of Unified Tunnel Management

- Different Tunnel Types:
 - LDP LSP
 - Static LSP
 - MPLS TE Tunnel
 - MPLS in UDP
 - GRE
 - VXLAN
 - NVGRE
 -
- Unified Tunnel Management
 - Tunnel Policy: Different types of tunnels can be managed uniformly to support VPN services according to tunnel policy.
 - Tunnel Group: Different types of tunnels can be managed uniformly to form tunnel-group to support services.

Unified Tunnel Management



YANG Model of Unified Tunnels

```
module: utunnel
  +--ro utunnel
    +--ro p2ptunnels
      +--ro tunnel* [vrf-name tunnel-protocol tunnel-id]
        +--ro vrf-name      rt:routing-instance-ref
        +--ro tunnel-protocol  tunnel-protocol
        +--ro tunnel-id      tunnel-id
        +--ro tunnel-name?    tunnel-name
        +--ro oper-status?    tunnel-status
        +--ro address-family
          +--ro ipv4
            | +--ro destination?  inet:ipv4-address
          +--ro ipv6
            +--ro destination?  inet:ipv6-address
```

- P2P Tunnel is defined. P2MP tunnel is to be defined.

Next Steps

- Solicit comments and collaboration.
- More types of unified tunnel are to be defined.
- Revise the draft.