

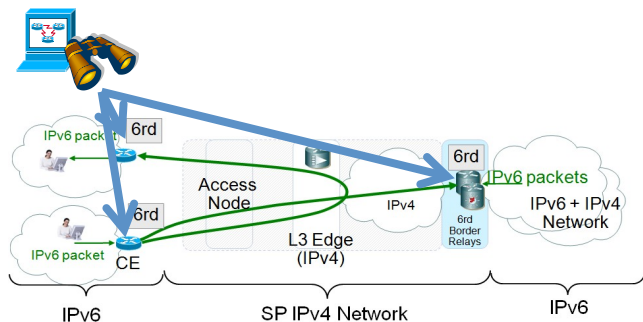
Definitions of Managed Objects for 6rd

draft-cai-softwire-6rd-mib-03

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Abstract

- This draft definition of MIB for 6rd devices.
- 6rd is stateless tunnel technologies, therefore IP-MIB(RFC4293) and IP-FORWARD-MIB (RFC4292) are useful for device and traffic monitoring purpose.
- IP TUNNEL MIB(RFC4087) provides tunnel provisioning capability by SNMP.

draft history

- 00 published
- 01 presented @ IETF83
- 02
- 03 remove "tunnellfXTable"

6rd[rfc5969] Parameter

- parameter to provisioning 6rd devices
 1. for CE
 - tunnel type
 - BR address
 - IPv4MaskLen
 - 6rdPrefixLen
 - 6rdPrefix
 - tunnel source
 2. For BR
 - tunnel type= 6rd
 - IPv4MaskLen
 - 6rdPrefixLen
 - 6rdPrefix
 - tunnel source

existing IP Tunnel MIB[RFC4087] parameter

- **tunnelIfEncapsMethod =>6rd**
- tunnelIfHopLimit
- tunnelIfSecurity
- tunnelIfTOS
- tunnelIfFlowLabel
- tunnelIfAddressType
- **tunnelIfLocalIpAddress =>tunnel source**
- **tunnelIfRemoteIpAddress =>BR address for CE?**
- tunnelIfEncapsLimit

Need new definition for **IPv4MaskLen/6rdPrefixLen/6rdPrefix**

solution for 6rd MIB

- 2 approach

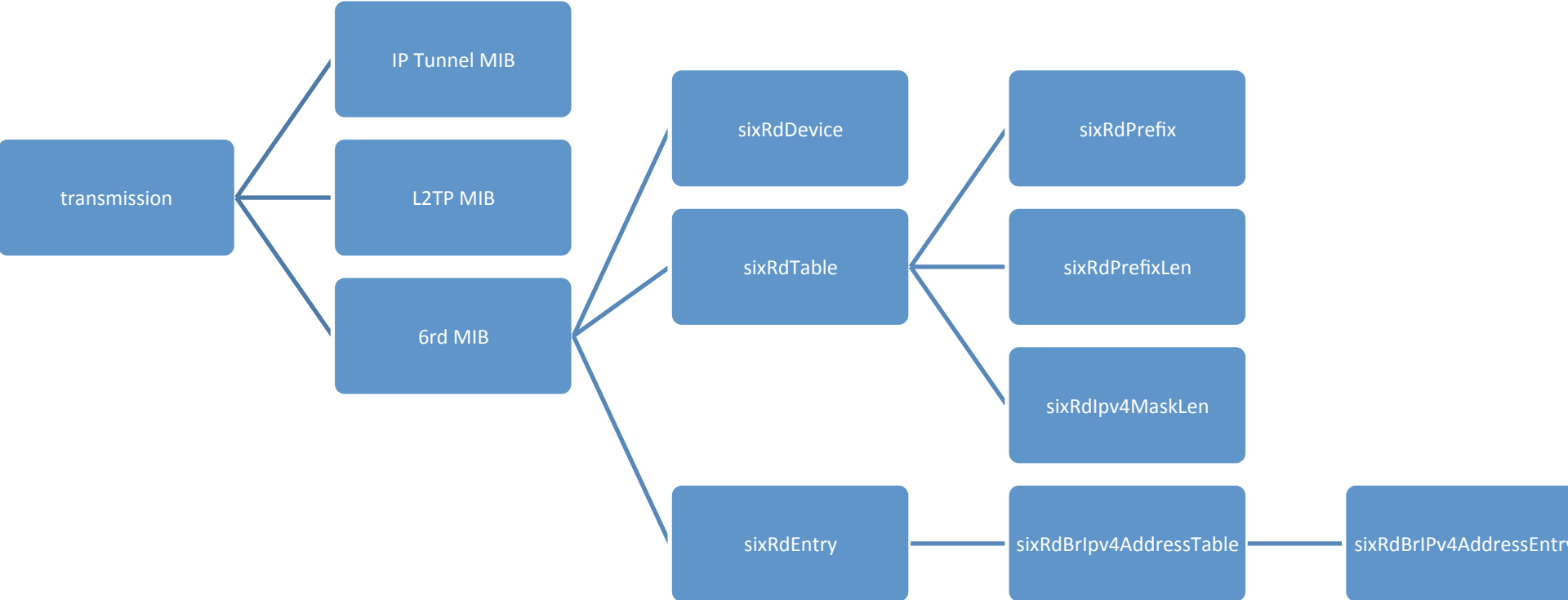
1. **sixRdMIB**

New MIB create like a L2TP MIB[RFC3371]
sixRdMIB under the "transmission" subtree.

2. "tunnellfXTable"

extended tunnelfTable of IP Tunnel MIB[RFC4087]
with additional tunnel type [6rd and MAP]
draft-shishio-softwire-rfc4087update

sixRdMIB



Next step

- adopt WG document?