



# **BGP-MPLS VPN extension for IPv6 VPN over an IPv4 infrastructure**

**draft-nguyen-bgp-ipv6-vpn-  
00.txt**

---

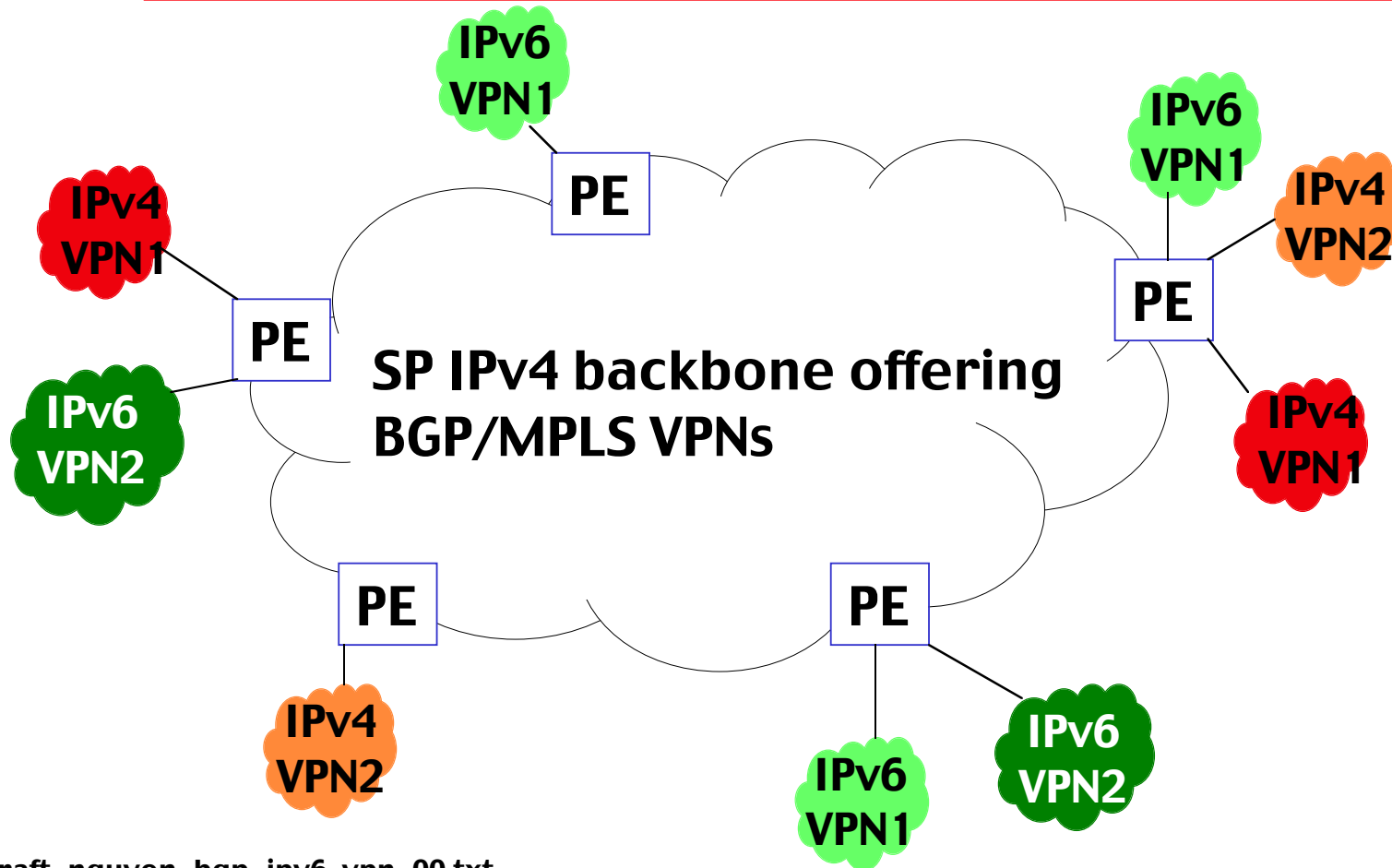
---

**49th IETF, San Diego**

**Tri T Nguyen, Gerard Gastaud, Dirk  
Ooms, Jeremy De Clercq – Alcatel**

**Draft-nguyen-bgp-ipv6-vpn-00.txt**

# IPv6 BGP-MPLS VPN scope of the proposal





## IPv6 BGP–MPLS VPN extensions to BGP/MPLS VPN

---

- ◆ Proposal reuses all BGP/MPLS VPN principles
- ◆ PE uses IPv6 VRFs for its IPv6 sites
- ◆ introduces new Address family “VPN–IPv6”
  - ▶ Route Distinguisher (8 bytes) + IPv6 address
- ◆ “BGP next hop” is IPv4–compatible IPv6 address