Multicast VPN fast fail-over

draft-morin-l3vpn-mvpn-fast-failover-02

Wim Henderickx, Praveen Muley – Alcatel Lucent
Thomas Morin – FT Orange
Yakov Rekhter, Rahul Aggarwal – Juniper

- **Proposal was already presented last IETF**
    - http://www4.ietf.org/proceedings/09mar/slides/l3vpn-1/l3vpn-1.htm

- **Two mechanisms to reduce connectivity restoration time for multicast traffic in a VPN context, for failures on the upstream PE side:**
    - UMH Selection based on P-tunnel status: avoid waiting for unicast convergence
    - Standby C-multicast route: avoid signaling at failure-time by preparing the backup upstream PE
- **These mechanisms can be used, independently or together, depending on the failure coverage and level of protection wanted**
- **Different levels of protection: cold, warm, hot, leaf hot**

- In -02, clarifications were added on:
  - hot protection
  - prerequisite that downstream nodes must have two unicast routes to the source, with distinct RDs

- Inter-AS will be covered in next revision

- We would like to ask for WG adoption