Considerations about mVPN standardization

draft-morin-l3vpn-mvpn-considerations-03

Thomas Morin – FT Orange
Benjamin Niven-Jenkins – BT
Nicolaï Leymann – DT
Yuji Kamite – NTT
Raymond Zang – BT
Nabil Bitar – Verizon

- **Goals of the draft:**
  - discuss the different options proposed in draft-ietf-I3vpn-2547bis-mcast
  - identify the better candidates for a set of mandatory procedures, to produce a standard candidate
- **In scope:**
  - solutions specified in draft-ietf-I3vpn-2547bis
 - requirements expressed in RFC 4834
- **About past releases:**
  - First submission in March 2007 (Prague)
  - Good support to the draft expressed by the WG in Vancouver
  - Some comments on the mailing list challenging the draft
  - Revisions -02 and -03 to improve the document with respects to these comments

- A new contributor joined : Nabil Bitar / Verizon
- This revision focused on improving the draft to address comments made by Eric Rosen
- Overview of changes:
    - Development of rationale and comparisons, all along the draft
        - Among other things : add a quantified comparison for for PE-PE signaling scalability with an increased amount of PEs per VPN
    - Remove some content that was not key to draw conclusions
    - Many editorial changes
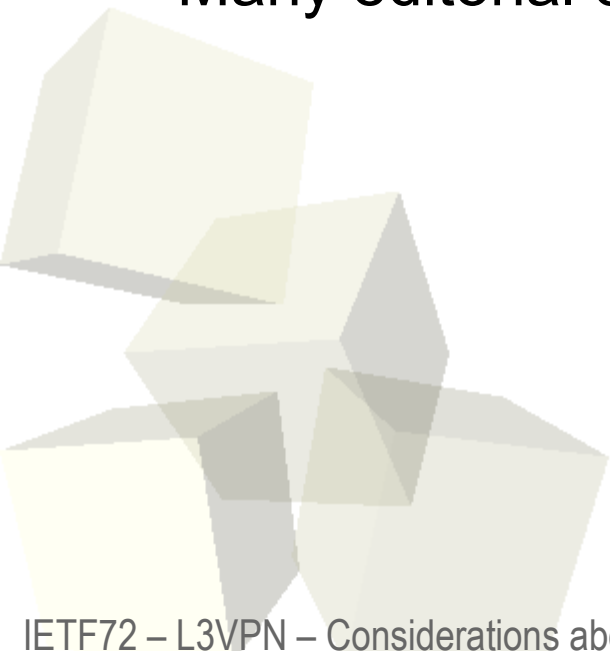
Summary of recommendations

- **Key Recommendations**
  - a. make BGP-based auto-discovery be MANDATORY
  - b. make BGP be the mandated solution for S-PMSI switching signaling
  - c. support both the BGP-based and PIM-based solutions for PE-PE C-multicast routing *until further operational experience is gained with both solutions*
  - d. that implementations support the segmented inter-AS tunnels approach
  - e. for P-tunnels, suggest to implement the P2MP variants of the P2P tunneling protocols that they already implement, such as mLDP, P2MP RSVP-TE and GRE/IP-Multicast
- **Other recommendations**
  - suggest that it can be useful to provide the alternatives to (b) and (d) above, to facilitate

Draft adoption… ?

- **Does the draft fit the working group goals ?**
  - Yes, it would push us closer to being able to progress mvpn specs to the IESG
  - About the "profile" approach
    - it has not been shown that having a set of mandatory procedures would be limiting for some deployments
    - only producing "profiles" would not match the WG goals
      - Charter : "*Submit specification_ of multicast over BGP/MPLS VPNs*"
      - Singular ! (this is just what a standard organization usually strives to do)
- **Does this draft close the way for other alternatives that can be needed ?**
  - No, alternatives in draft-ietf-2547bis-mcast would still remains as OPTIONAL
    - that includes the approaches similar to existing deployments
  - New work should progress as its own pace, and go through WG adoption before it can be decided that waiting for it is worth delaying progress of documents already adopted
- **Are the recommendations agreed upon and properly supported ?**
  - Good support expressed in Vancouver
    - (the few people vocal against the content of the document are the one opposing the goal of the document)
  - Improved rationale for the conclusions was added in recent revisions
  - WG adoption is not the "final cut" for a draft
  - Up to the working group to decide

- Working group adoption ?