PIM Snooping
draft-ietf-l2vpn-vpls-pim-snooping-05

88th IETF, Vancouver
Please Review

• L2VPN WG document
• Expected WGLC before London IETF
• Please review
• Comments to l2vpn@ietf.org
Messages

• Snoop Hello/Join/Prune messages
• Snooping mode
  – J/P messages flooded as is
  – PIM Join Suppression must be disabled
• Relay mode
  – J/P messages forwarded to upstream ports only
• Proxy mode
  – Received J/P messages consumed and not sent
  – J/P messages generated from J/P states and sent upstream
FSMs

• Downstream FSM for snooped J/Ps
• Upstream FSM for sending upstream J/P in Proxy mode
• Like in PIM
  – Though Joins/Prunes tracked per upstream neighbor (as carried in J/P messages)
    • Different PIM routers may pick different upstream, and a switch does/can not resolve the difference
Data forwarding

• Traffic forwarded out of downstream ports/PWs where joins are received
• Traffic forwarded out of upstream ports/PWs where joins are sent
  – To facilitate assert procedure among PIM routers
    • Upstream PIM routers will receive traffic from each other, triggering assert
Please review

• Lot of details in the draft
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