

draft-ietf-bess-evpn-igmp-mld-proxy-02.txt

A. Sajassi (Cisco), Samir Thoria (Cisco),
Keyur Patel (Arccus), Derek Yeung (Arccus),
J. Drake (Juniper), W. Lin (Juniper)

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Changes since Rev01

- Background
 - Need to distribute IGMP Join & Leave Synchronizing routes only among multi-homing PEs
 - Receiving PEs need to identify corresponding EVI for these routes
- How was it done in rev00?
 - Used ES-Import RT for route distribution
 - Defined a new EC called EVI-RT EC for EVI identification

Changes since Rev01 – Cont. (2)

- We have different types of RTs, which one does this new EC correspond to?
 - It was intended for RT w/ 2-byte AS number – i.e., the RT that was specified in RT auto-derivation per RFC 8365
 - But what happens when RT is not auto-derived and when it is not based on 2-byte AS number?

Changes since Rev01 – Cont. (3)

- Several options were considered
 1. Define multiple EVI-RT ECs – one per RT type
 2. Use the existing ES-Import RT to multiplexed truncated ESI and 3-byte EVI – e.g., referred to as 3+3
 3. Define a new extra-large RT that can multiplex complete ESI and EVI
- After extensive discussions among co-authors, option-1 was selected because of
 - Backward compatibility
 - Ease of implementation

Changes since Rev01 – Cont. (4)

- Now Rev02 defines four types of EVI-RT ECs:
 - Type 0 corresponds to 2-byte AS specific RT
 - Type 1 corresponds to IPv4 specific RT
 - Type 2 corresponds to 4-byte AS specific RT
 - Type 3 corresponds to IPv6 specific RT
- Added a new section describing when RT re-write is done on ASBR, the corresponding EC re-write must be done

Status

- Requested WG LC at IETF 101
- Would like to check the status of it in the queue?

THANK YOU!