FLOOD REFLECTOR DRAFT UPDATE

DRAFT-PRZYGIENDA-LSR-FLOOD-REFLECTION
CHANGES

• DRAFT PROGRESSED TO -01 BASED ON DISCUSSIONS AND IMPLEMENTATION EXPERIENCE

• THANKS TO LES & PETER FOR EXTENSIVE REVIEW AND DISCUSSIONS

• LOTS OF READABILITY IMPROVEMENTS

• MULTIPLE SECTIONS CHANGED, CLARIFIED, ADDED
### Detailed Changes

- **Operation Without L1 Tunnels**
  - Draft added short description of operation without L1 tunnel mesh

- **Implications of Leaking of L2 Prefixes into L1 in Reflector Scenarios**

- **Client Operation Forces Now Router to Advertise Client Bit on All Interfaces Participating in Reflection**
  - Consistent with the architecture of router being strictly either client _OR_ reflector singleton and disallowing links between reflectors
  - A client cannot participate in multiple clusters, new clause forbidding multiple sub-TLVs on TLV 242

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**Detailed Changes**

- **Cluster ID: Long Discussions Whether This Should be Coupled to Other IDs Like Area ID**
  - Ultimate Decision Was That This is Orthogonal to Everything Else
  - Added That Cluster ID MUST be Unique Across the Network
  - A Single L1 Area Can Have Only One Cluster Inside (Misconfiguration Can Be Detected Looking @ L1 Database) But Obviously Multiple Reflectors

- **Leaking L2 Prefixes into L1**
  - When Leaking, All Leaves Must be Reflector Clients
  - Leaf Can Leak L2 Intra Area Into L1 Only When It Has Adjacency to Reflector

- **Computation**
  - Clarified How Computation is Run
  - Due to Restrictions on Client Being in One Cluster Only Computation is Very Simple