FLOOD REFLECTOR DRAFT UPDATE

DRAFT-PRZYGIENDA-LSR-FLOOD-REFLECTION

Engineering Simplicity

UNIPER

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

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