LFA selection for Multi-Homed Prefixes and Extended Procedures

draft-psarkar-rtgwg-multihomed-prefix-lfa-03

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Previous History ..

- draft-psarkar-rtgwg-multihomed-prefix-lfa
  Presented at IETF91, IETF92

- draft-chunduri-rtgwg-lfa-extended-procedures
  Presented at IETF91

Current draft (draft-psarkar-rtgwg-multihomed-prefix-lfa-03) is a merged version of the above drafts
Multi-homed Prefix Handling

- Explicit Inequalities (Link, Link + Downstream, Node)
  - LFA selection for internal Multi-homed Prefixes (MHPs).
  - LFA selection for external Multi-homed Prefixes (MHP).
    ▪ Special rules to handle various scenarios in OSPF

- Better Protection coverage with Simplified MHP per RFC 5286
Background (Contd.)

Other Extended Procedures
• IS-IS ATT Bit considerations
• Links with IGP MAX_METRIC Handling
• Multi-Topology Considerations
In Summary

This Draft Addresses

1. Lack of specific inequalities for MHPs
   • Different scenarios need different handling (Specially external MHPs)
   • Addresses Erroneous implementations
     ▪ Less coverage than feasible.
     ▪ Backup path chosen may still loop.

2. Extended Procedures for LFA handling in Misc. cases

3. Share experience gained from existing implementations and provide future guidance – Propose MHP LFA inequalities
   • For all types of MHPs (Internal, External MHPs)
   • For all applicable protocols (ISIS, OSPF)
Welcome
  Feedback & Questions

Next Steps:
  Request for WG adoption

Thank You!