

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

Background

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!