



IETF 114, LSR WG  
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# draft-ppsenak-lsr-igp-ureach-prefix-announce

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# Context

- Presented at IETF 114
- Draft describes how the use of existing protocol mechanisms can be used to announce the prefix unreachability
  - To preserve BGP PIC functionality – detection of the egress PE becoming unreachable when summarization is used
- Backward compatible solution - no new protocol extension defined

# Version 01 Changes

- Specifies for what ISIS TLVs the UPA functionality is supported
- Specifies for what OSPFv2 and OSPFv3 LSAs and TLVs the UPA is supported
- Propagation of UPA in IS-IS and OSPFv2/v3
  - Regular prefix propagation between areas is only done for reachable prefixes
  - UPA propagation is done for unreachable prefixes - deviation from the existing specification
  - The reachability requirement **MUST NOT** be used for UPA propagation
- Processing of UPA is optional and **SHOULD** be controlled by the configuration on the receiver

# Intended Status

- Draft is published as Informational
- Standard logic for propagation needs to be altered for UPA
- Should the draft's status should be changed to Standards Track?

# Metric vs Explicit Signaling

- Some people feel we should use explicit signaling for UPA
- Explicit signaling would make the UPA non-backward compatible
  - would require all routers in the network to be upgraded to avoid considering UPA as a reachable prefix
  - would complicate the deployment significantly
- No obvious advantage of the explicit signaling
- Discussion may continue

# Next Steps ...

- Comments are welcome
- Sufficient interest to address the problem in hand
- Implementation is available
- Ask is for WG to adopt this draft and continue the work