



IS-IS Multicast Synchronization Digest

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Digest Proposal

- High quality LSP digest, based on a cryptographic hash function (e.g. SHA-256)
 - Normalize each node LSP information to a fixed-size quantity
- Topology digest is the XOR of all the digests of the LSPs in the LSP database for the area
 - Order independent
 - Supports incremental updates
- Invalid, expired, or purged LSPs must be excluded
 - LSPs for nodes for which LSP zero is not present or for which LSP zero has a remaining lifetime of 0 are excluded
 - LSPs with checksum errors, with a 0 sequence number, or with a remaining lifetime of 0 or greater than MaxAge are also excluded

Figure 1

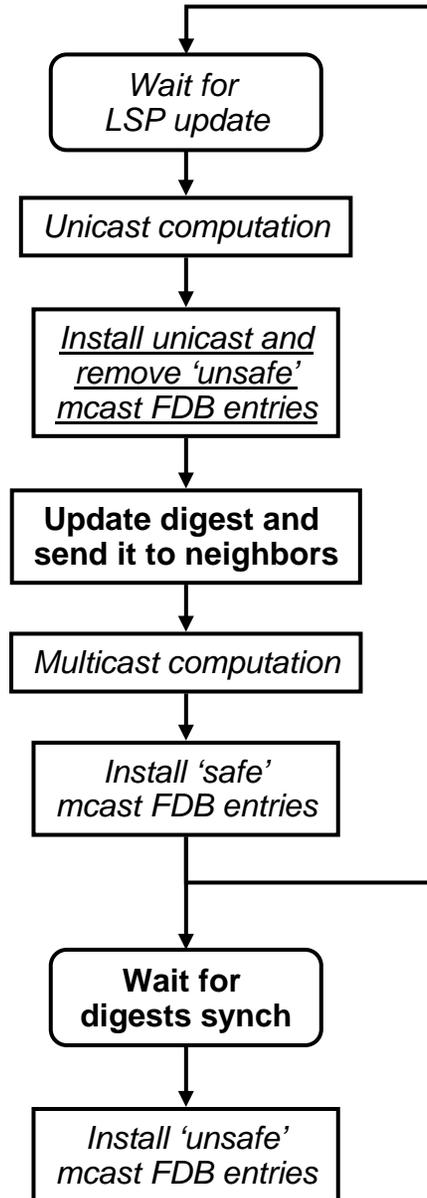


Figure 2

