Advertising S-BFD Discriminators in IS-IS

draft-ginsberg-isis-sbfd-discriminator-00.txt

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What is S-BFD?

“Seamless” BFD

Each network node pre-allocates one or more discriminators

“Reflector” session created to listen for pre-allocated discriminators

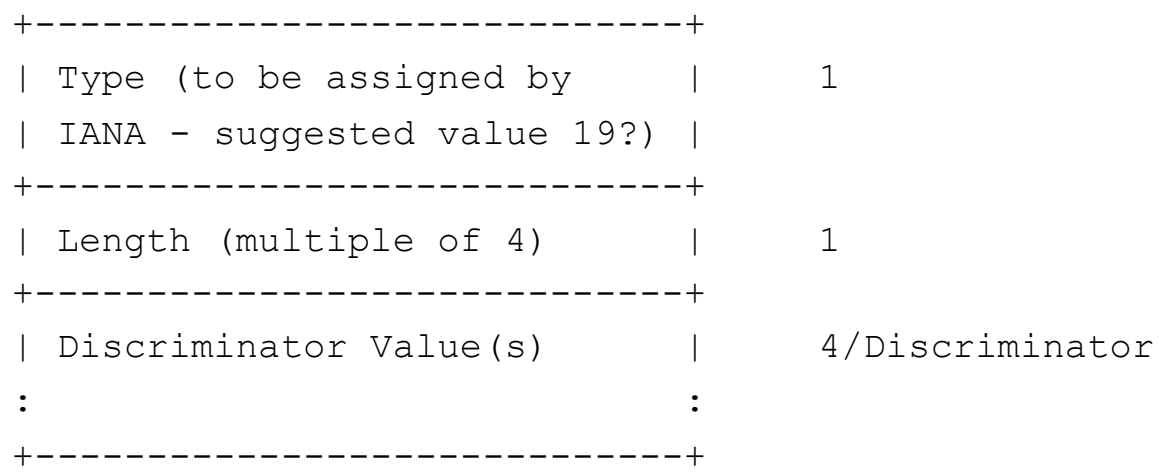
Discriminators need to be known network wide

Other nodes can perform continuity test by sending S-BFD Packet with S-BFD Discriminator in the “yourDiscriminator” field

http://www.ietf.org/id/draft-ietf-bfd-seamless-base-01.txt

Advertisement Format

Use new sub-TLV in Router Capability TLV



Multiple Discrimintaors can be advertised

Can be flooded area/domain wide using S-bit associated w the Router Capability TLV (RFC 4971)

Relevant Questions

Why must S-BFD Discriminators be globally unique?

Well known reserved value + unique destination IP address does not suffice for all cases e.g. MPLS transport uses non-routable IP destination address

How to know mapping of S-BFD Discriminators to applications?

This is quite deliberately outside the scope of IGP advertisement.

Request to become WG Document