

Segment Routing TI-LFA SRLG Protection Interoperability Results



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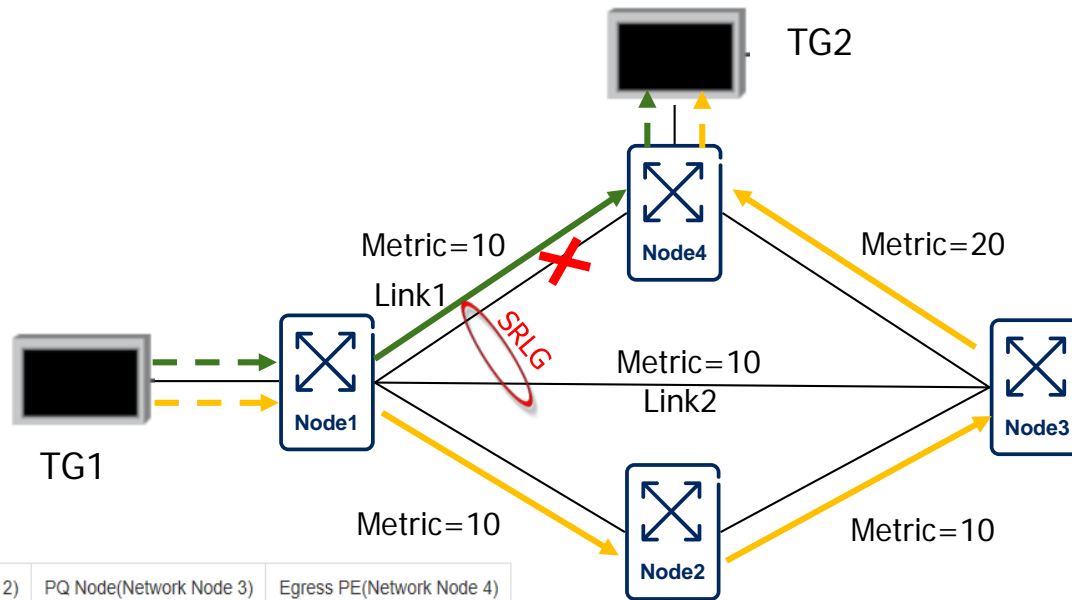




Purpose

- Shared Risk Link Groups (SRLG) refer to situations in which links in a network share a common fiber (or a common physical attribute). These links have a shared risk: when one link fails, other links in the group might also fail.
- TI-LFA SRLG protection attempts to find the post-convergence backup path that excludes the SRLG of the protected link
- In this test, measure the time the network takes to fail over to the backup path and restore to the primary path when using TI-LFA in a SR domain, switchover to backup path <50ms



Topology Setup

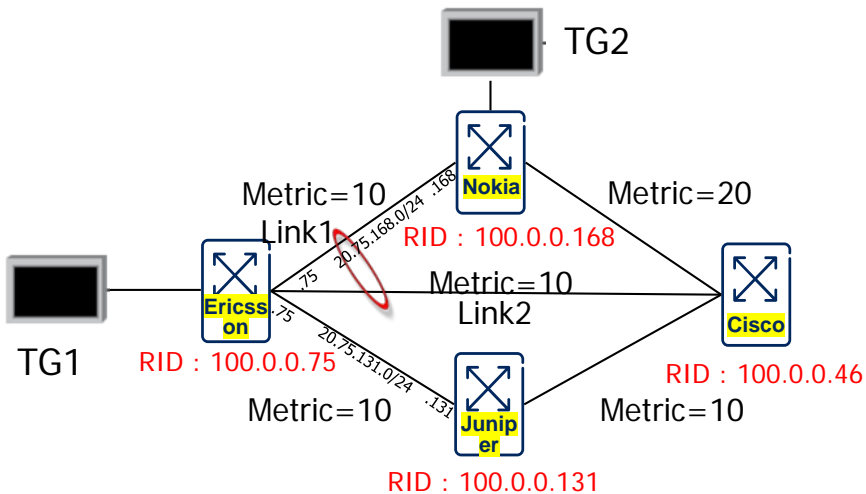


 Primary LSP
 Backup LSP

Test Setup	PLR(PE)(Network Node 1)	P Node(Network Node 2)	PQ Node(Network Node 3)	Egress PE(Network Node 4)
1	Juniper MX204	Cisco ASR 9000	Nokia 7750 SR-7	Ericsson 6675
2	Ericsson 6675	Juniper MX204	Cisco ASR 9000	Nokia 7750 SR-7
3	Cisco ASR 9000	Nokia 7750 SR-7	Ericsson 6675	Juniper MX204



Live Demo



```
[local]R6675_1#show mpls lsp address 100.0.0.168 detail
-----
Type                : ISIS                LSP Circuit       : 255/3:511:63:31/0/1/116
LSP state           : Up                  LSP name          : N/A
LSP Role:           : Primary
Egress              : 100.0.0.168/32      Client ID         : 5
Traffic-Eng         : default             RIB Table ID     : 0x0
Direct Next Hop     : 20.75.168.168      Direct Next Hop Cct : 1/9:511:63:31/1/1/13
TI-LFA Next Hop     : 20.75.131.131         TI-LFA LSP Cct   : 255/3:511:63:31/0/1/125
Tunnel ID           : 0                  Flags             : 0x2844010
Index-label         : 0                  Out Label Stack   : 200168
LSP id              : 0
Special Procedures  :
Adjacency ID        : 0x3000db           Direct Next Hop Cct : 1/9:511:63:31/1/1/13
TX Packets          : 1483                TX Bytes          : 2088064
-----
Type                : ISIS                LSP Circuit       : 255/3:511:63:31/0/1/125
LSP state           : Up                  LSP name          : N/A
LSP Role:           : Backup
Egress              : 100.0.0.168/32      Client ID         : 5
Traffic-Eng         : default             RIB Table ID     : 0x0
Direct Next Hop     : 20.75.131.131      Direct Next Hop Cct : 1/5:511:63:31/1/1/9
Tunnel ID           : 0                  Flags             : 0x2804050
Index-label         : 0                  Out Label Stack   : 200046 24002 200168
LSP id              : 0
```

Let's watch the demo



THANK YOU

