# RSVP Egress fast-protection draft-minto-rsvp-lsp-egress-fast-protection-01

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#### Problem statement

- RFC <u>4090</u> enable local repairing LSP in the order of 10s milliseconds in Core node, link failure.
- But it does not handle the LSP end node failure.
- Some services required sub-second restoration and some nodes intelligent enough to restore service using upstream label in case edge failure.

## Requirements

- A node, backup egress, Could able to reroute traffic to ultimate destination.
- LSP required egress protection end point address is not a router ID of the failing egress node.

### Methods

This draft propose 2 methods

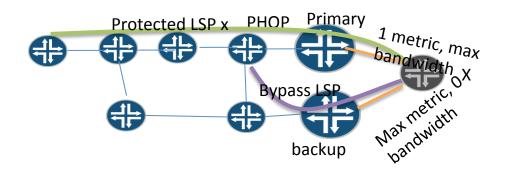
Proxy

Suitable for mixed environments, where an upgrade of the entire network is not feasible

Alias

will work with arbitrary TE constraints and suitable for networks that required LSP with those TE constraints

## Proxy method



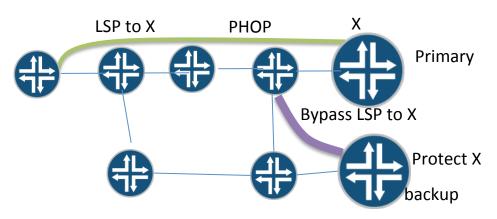
Let say LSP X need egress protection.

Advertise X as proxy node in TED.

Terminate protected LSP X in primary add RRO for proxy from primary.

Terminate bypass UHP in backup.

### Alias method



- Advertise as secondary loopback from primary.
- A new TLV with optional label for mapping from protector or configure a mapping in PHOP.
- Bypass computation to backup and UHP LSP signal with x.