

PCEP Extensions for RSVP-TE Local- Protection with PCE-Stateful

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draft-cbrt-pce-stateful-local-protection

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Context

- PCE can directly control the TE-LSP (draft-ietf-pce-stateful-pce, draft-ietf-pce-pce-initiated-lsp)
- A PCE (solution) can offer better traffic engineering of protection domain
 - RFC4655: Bandwidth Protection
 - Stateful E2E mechanism are addressed in draft-ananthakrishnan-pce-stateful-path-protection

What is addressed by this draft

- Stateful control of Local protection (RFC4090)
- 1:N Local protection ($N \geq 1$)
- Facility Backup
- Local protection control
- PCEP Extensions

What is protected, by whom?

Depends on your application:

- Independent Bypass LSP Mapping : PCC policies (as of today)
- Dependent Bypass LSP mapping: Explicit association from PCE, make use of the PCE global view and constraints (delay, diversity, ..etc)

Extensions

- BYPASS TLV - The Bypass TLV carries information about the bypass tunnel. It is included in the LSPA Object in LSP State Report and LSP Update Request messages
- LOCALLY-PROTECTED-LSP TLV - contains a list of LSPs protected by the bypass tunnel

Next Steps

- Describe the impact on the protocol
- Integrate Comments