

Inter Stateful PCE Communication Procedures.

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Summary

This draft was adopted in June 2021 and last presented before adoption

The draft is almost ready for WGLC

What does this draft describe?

- PCC can have PCEP sessions with multiple PCEs
- PCC synchronizes its state with multiple PCEs
- This draft describes the need and mechanism for synchronization between the PCEs themselves.
 - Provide additional resiliency in case of session failure
 - Solves split-brain / computation loops issue
 - Primary and Secondary PCEs / load-balance PCEs
 - Applicable to multi-domain and H-PCE

Quick Recap

Create inter-PCE stateful PCEP session (state-sync)

- Exchange the LSP state between PCEs

Support for Primary / Secondary relationship

- Using priority assign a PCE to elect the Primary PCE responsible for a set of LSPs
- Note that Priority setting is out of the scope of this I-D
- Procedure to sub-delegate

Protocol Extensions

Capability
advertisement

State Synchronization in
both directions between
PCEs

- Initial Bulk
- Incremental Updates

Maintain LSP State from
multiple sources

Use of LSPDB version to
maintain latest state

Priority

Sub-delegation

thank you

Ready for WGLC!

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