



IETF 119 – Online
PCE Working Group

PCEP extensions for Circuit Style Policies

draft-ietf-pce-circuit-style-pcep-extensions

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Motivation

- Circuit Style Segment-Routing Policy
 - Designed to satisfy requirements for connection-oriented transport services
 - Details described in draft-ietf-spring-cs-sr-policy
- PCC to convey information about:
 - Desired path persistency
 - Allowed hop types in the path-computation – strict or loose
- PCEP extensions introduced in this draft are reusable and Path Setup Type agnostic

PCEP extensions

- Path persistency
 - New “PATH-RECOMPUTATION TLV” in LSPA object
 - Flags to control path computation behavior on PCE
 - P-flag - PCE MUST NOT re-compute even if current path is invalidated
 - F-flag - All re-computation for that LSP are blocked
- Strict path enforcement
 - Stateless PCEP
 - Existing O-flag in RP object clarified for Segment-routing
 - Stateful PCEP
 - New O-flag in LSP-EXTENDED-FLAG TLV
 - Only strict hops allowed if flag is set
- Capabilities
 - New flags in STATEFUL-PCE-CAPABILITY

Changes since IETF 116

- The draft was adopted by WG
- Introduced capabilities to advertise support for PCEP extensions
- Clarified processing of PATH-RECOMPUTATION TLV
- Added Manageability Considerations and Security Considerations sections
- Early codepoints allocation was done
- Addressed multiple minor comments

Next steps

- Comments and discussion are welcome
- Implementations from other vendors