PCEP Operational Clarification

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Summary of the draft

1. Introduce **stateful LSP bringup** mechanism
   - Simplify LSP bringup, do not require PCReq/PCRep messages for bringup
   - Update to RFC 8231

2. Clearly separate PCEP Tunnel vs PCEP LSP
   - Tunnel is identified by PLSP-ID/Symbolic-name
   - LSP is identified by LSP-IDENTIFIERS TLV
   - LSPs are “instances” of the Tunnel used for make-before-break

3. Clarify that ASSOCIATION contains LSPs, not Tunnels
   - Tunnel can still be in an ASSOCIATION when all of its LSPs are

4. Walk-through of various LSP and ASSOCIATION operations
   - Give examples of basic operations and internal database state

5. Clarify constraint removal for objects **without** an explicit “removal” flag
   - For such objects, absence of object indicates removal of the constraint
   - Examples: LSPA, METRIC, BANDWIDTH, etc.

6. Discourage the use of SR-RRO/SRv6-RRO
   - RRO is an RSVP-TE concept that currently does not have a parallel in SR-TE
History

Version 00 (July 2019)
• Stateful bringup, Tunnel vs LSP, etc.

Version 01 (February 2020)
• Constraint removal clarification

Version 03 (February 2021)
• Discourage the use of SR-RRO/SRv6-RRO

Version 06 (June 2022)
• Address the good comments from Adrian Farrel
This draft has both Informational and Standards content. We have 3 options:
1. Keep single draft, but clearly separate the two types of content
2. Break it up into 2 drafts
3. Keep as-is

Next Steps:
• Decide on the above question
• We believe the draft is ready for WG adoption