

PCEP Extensions for Associated Bidirectional SR Paths

draft-ietf-pce-sr-bidir-path-02

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Agenda

- Requirements and Scope
- Double-sided Associated Bidirectional **with Reverse** LSP
- PCEP Object Definitions
- Next Steps

Requirements and Scope

Requirements:

- Packet transport networks deploying bidirectional SR Paths
- Co-routed and non-co-routed forward and reverse SR Paths

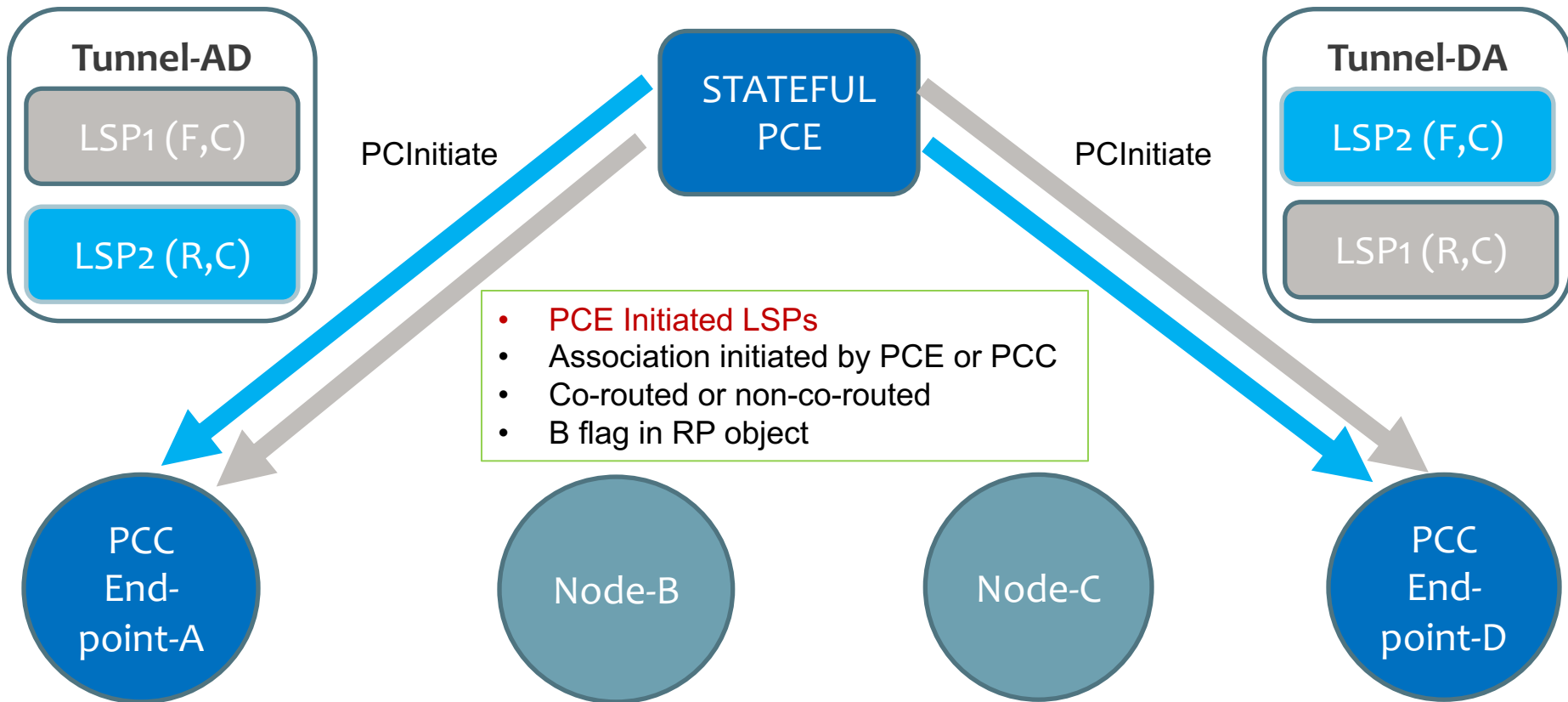
Scope:

- Associated bidirectional SR Paths
- PCE-Initiated LSPs
- PCC-Initiated LSPs
- Stateless PCE (e.g. for co-routed path computation requests)

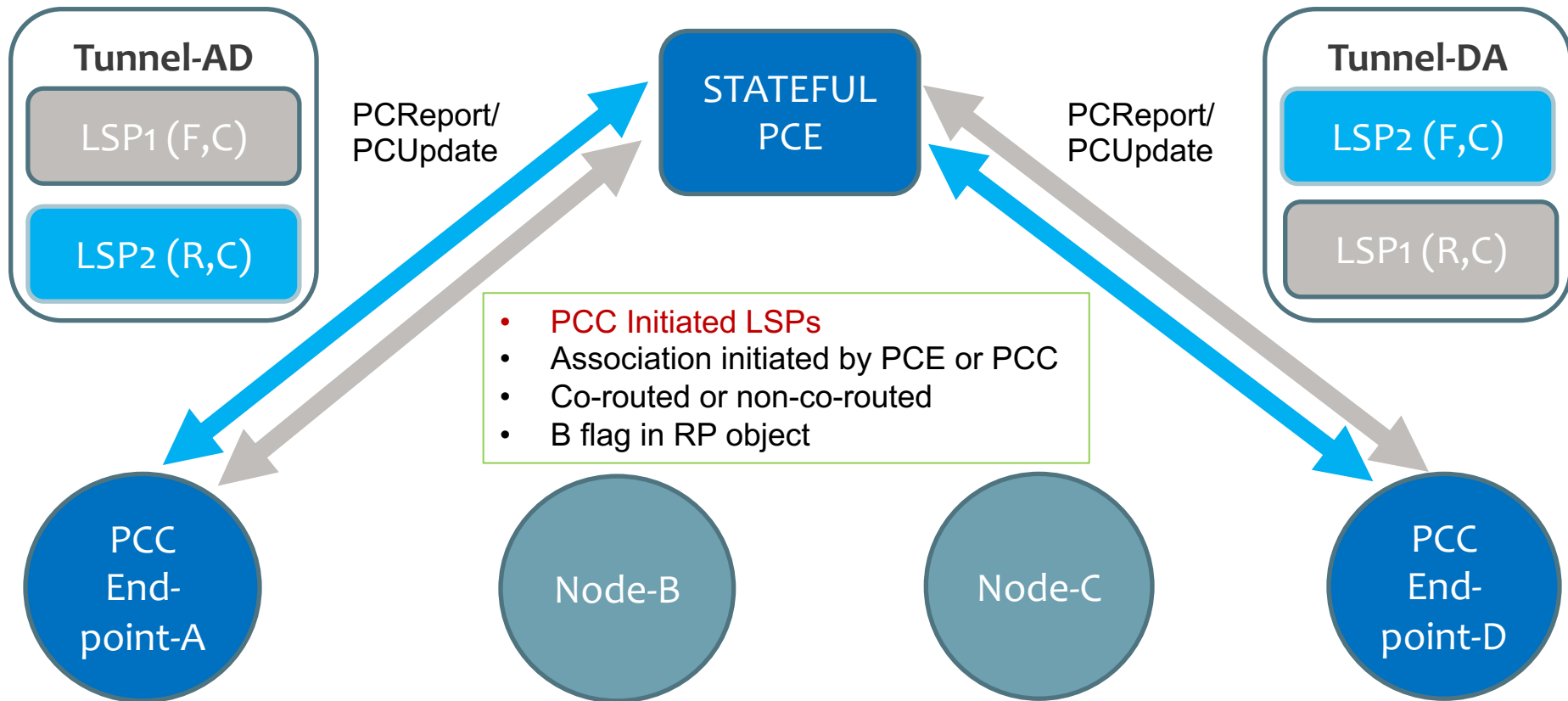
Not in Scope:

- Associating a bidirectional SR Path with an RSVP LSP

Double-sided Associated Bidirectional with Reverse LSP



Double-sided Associated Bidirectional with Reverse LSP



PCEP Association Object

- Association Type (TBD1) = Double-sided Bidirectional **with Reverse** LSP Association Group
- The Association Object Populated using the procedure defined in [*draft-ietf-pce-association-bidir*]

Error Handling (PCErr Error-Type 26 - Association Error)

- PCErr defined in *[draft-ietf-pce-association-bidir]* are applicable to SR Paths

Specifically –

1. Both forward and reverse LSPs MUST belong to the same bidirectional TE tunnel [RFC3209].
 - Error-Value = Bidirectional LSP Association - Tunnel mismatch
2. LSP (forward or reverse) cannot be part of more than one Bidirectional LSP Association Group.
 - Error-Value = Bidirectional LSP Association - Group Mismatch
3. If a PCEP speaker receives a different PST value for Bidirectional LSP association group and it does not support.
 - Error-Value = Bidirectional LSP Association - Path Setup Type Not Supported

Next Steps

- Welcome your review comments and suggestions

Thank you