

# PCEP Extensions for Associated Bidirectional SR Paths

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

*Cheng Li (chengli13@huawei.com)*

*Mach(Guoyi) Chen (Mach.chen@huawei.com)*

*Weiqiang Cheng (chengweiqiang@chinamobile.com)*

*Rakesh Gandhi ([rgandhi@cisco.com](mailto:rgandhi@cisco.com)) - Presenter*

*Quan Xiong (xiong.quan@zte.com.cn)*

# 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

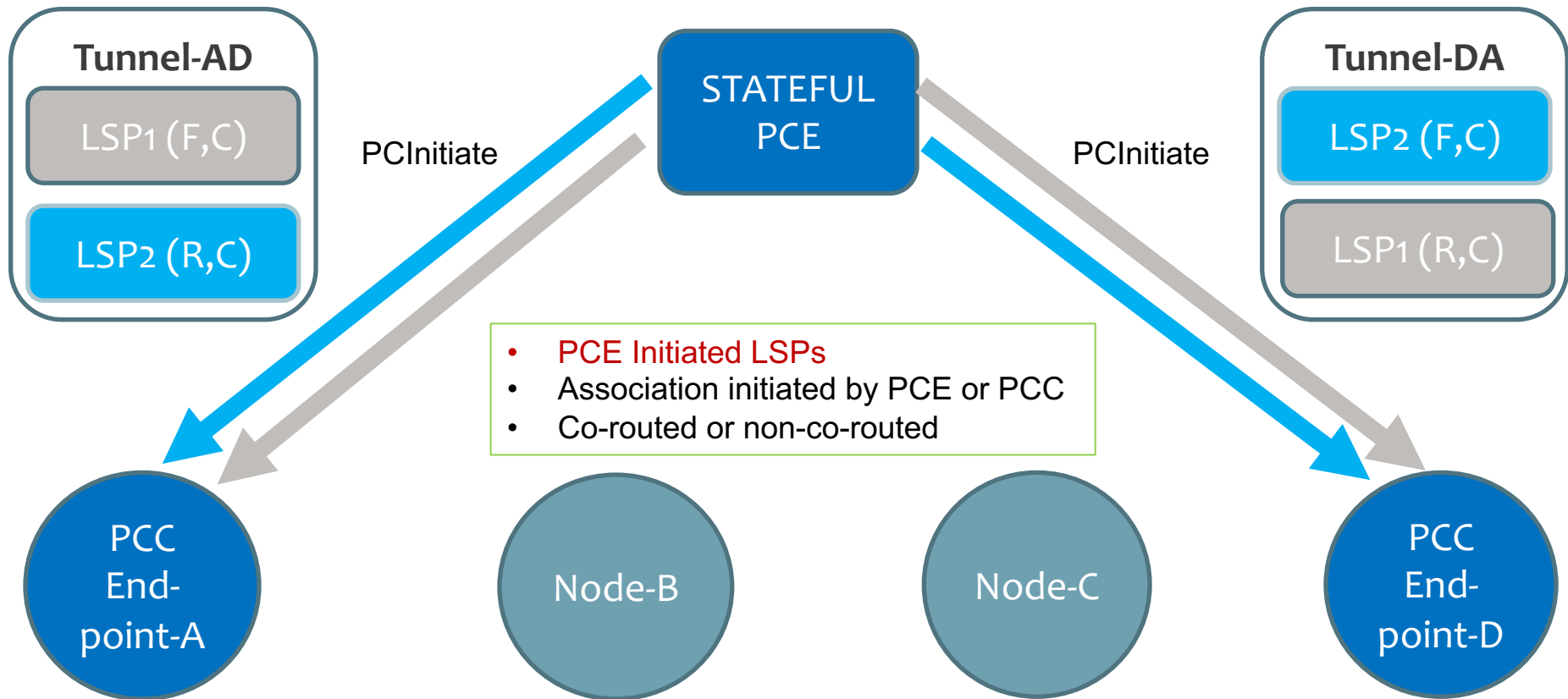
## Scope:

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

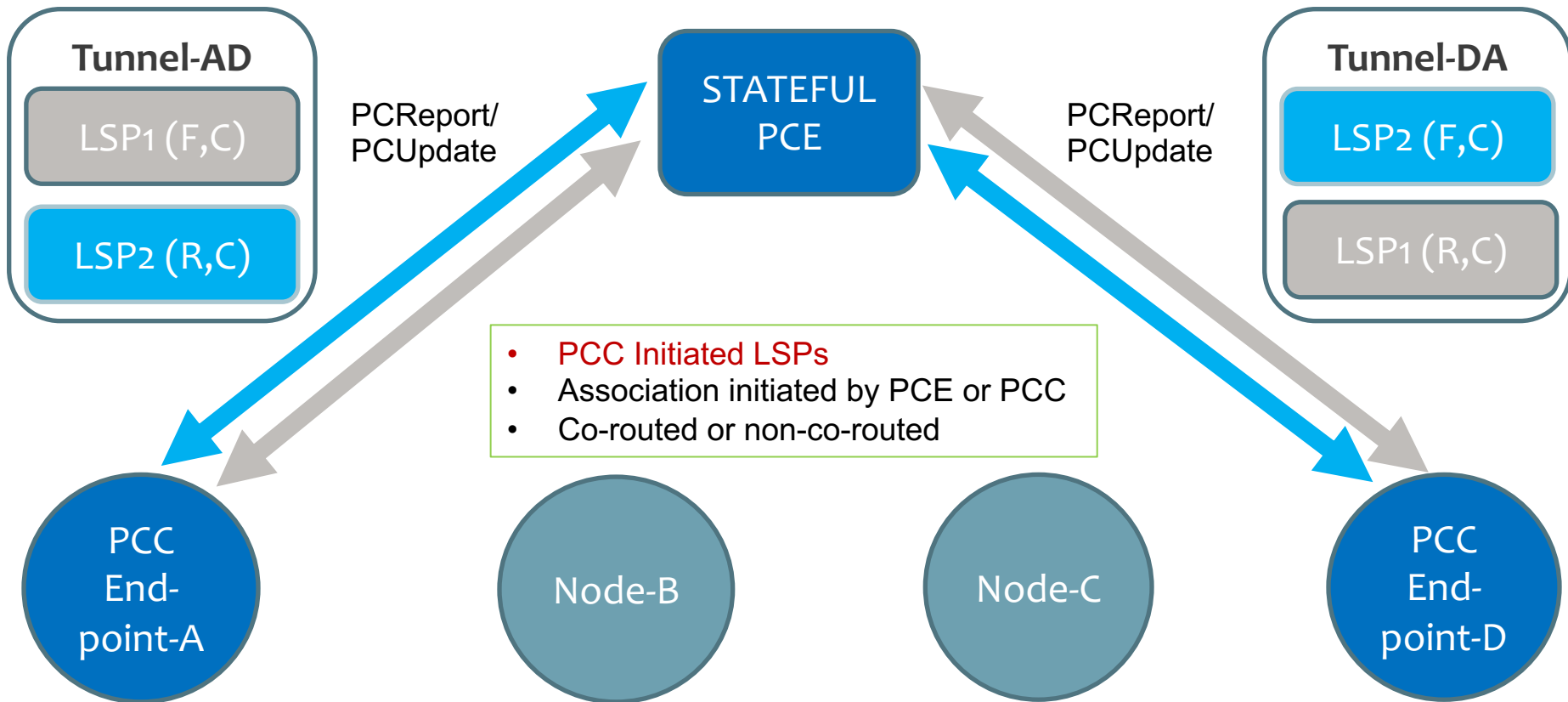
## Not in Scope:

- 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
- Add in Queue for WG LC?



# Thank you