

PCE for Mirror Binding

draft-chen-pce-mbinding-00

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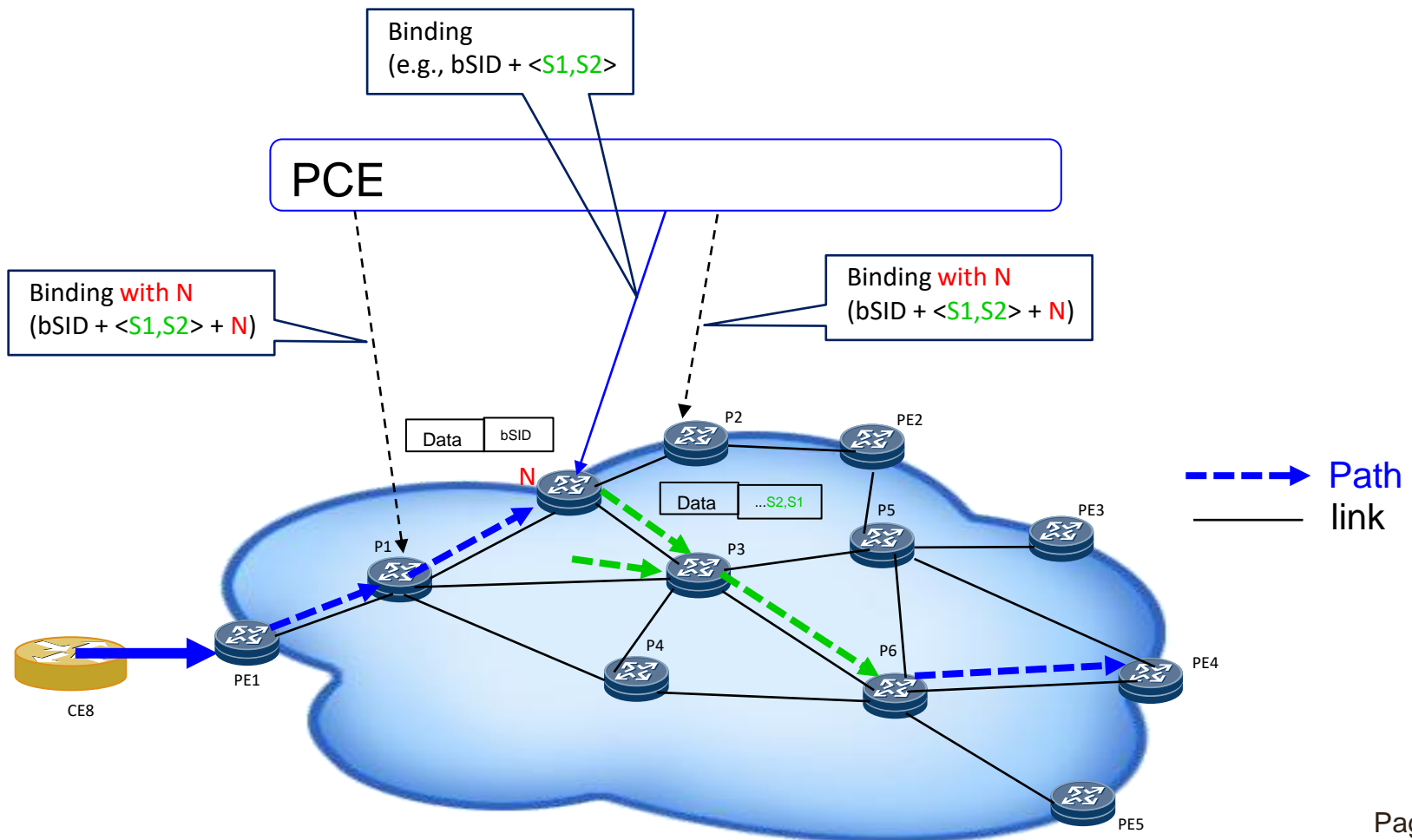
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IETF 115

Overview

SR path with Binding (BSID with a list of SIDs for another path segment):

1. PCE sends Binding to node N
2. Node N replaces BSID in packet with the list of SIDs and sends packet along the path segment defined by the list of SIDs
3. **Extensions:** PCE sends **Binding with N** to N's neighbors

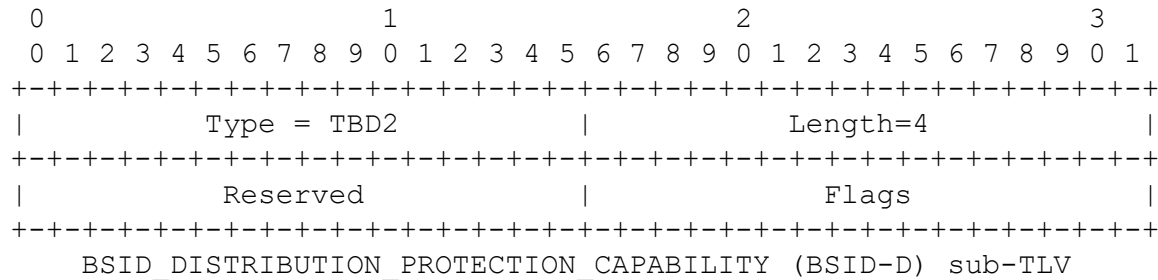


Capability of distributing Binding for Protection

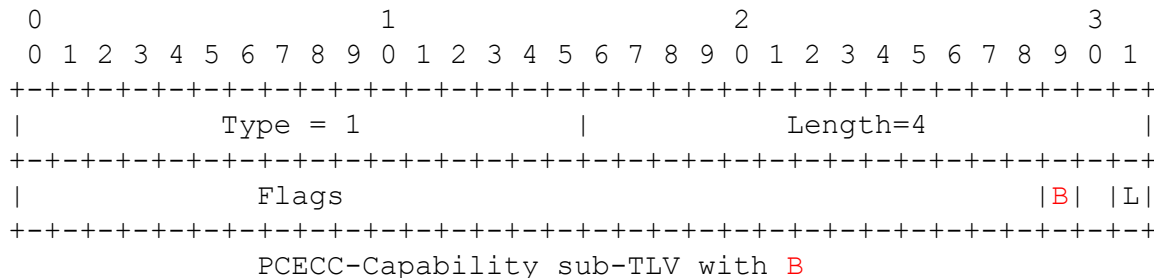
When PCE and PCC establish a session, exchange capabilities of distributing Binding.

PATH_SETUP_TYPE_CAPABILITY TLV contains:

- PST = TBD1: Binding SID with List of SIDs (path) for a node for protecting binding SID of the node.
- BSID-D sub-TLV contains parameters



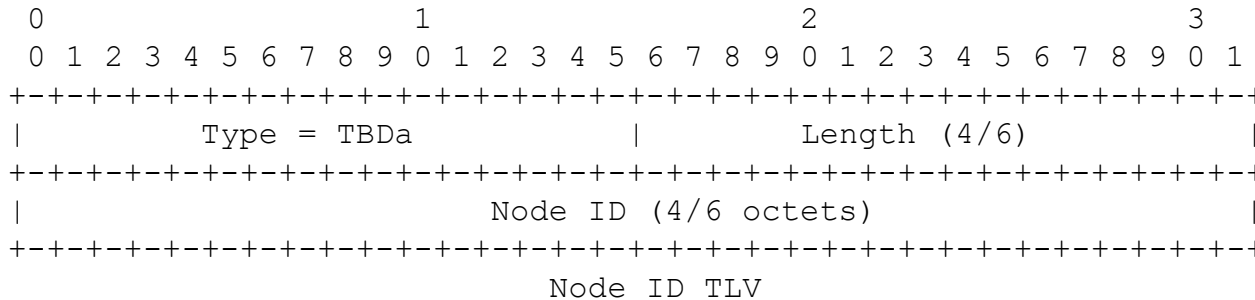
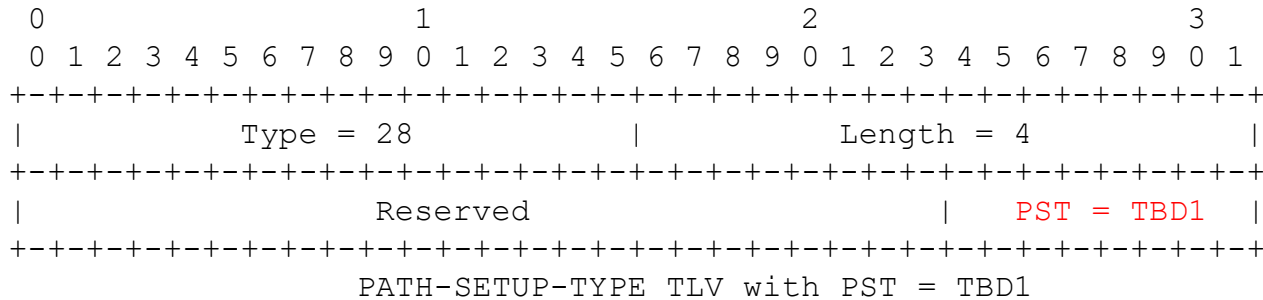
When PCECC is used, **B** is defined in Flags of the PCECC-CAPABILITY sub-TLV
B = 1: Binding for protection.



Extensions to RP/SRP Object

RP/SRP object contains:

- PATH-SETUP-TYPE TLV with **PST = TBD1** for mirroring/distributing binding
- Node ID TLV: identifier of the node



Node ID: 4/6-octet field contains the OSPF/IS-IS node (or router) identifier (ID) of the (protected) node.

Next Step

- Comments