

# Pseudowire Redundancy on S-PE

draft-dong-pwe3-redundancy-spe-02

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# Background

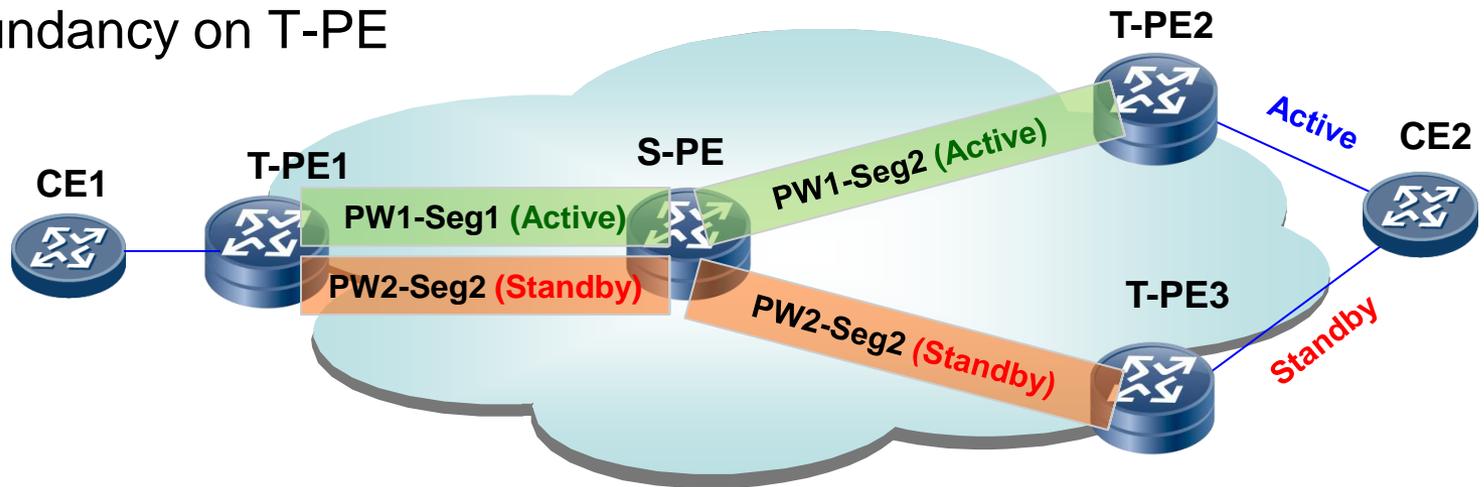
- PW redundancy on PE/T-PE has been specified
  - draft-ietf-pwe3-redundancy-bit
- PW redundancy on S-PE is beneficial for some MS-PW cases
  - Access nodes may not support PW redundancy
  - Less PW segments on access nodes
  - Faster protection switching compared with redundancy on T-PE (local protection vs. end-to-end)
- This draft specifies typical scenarios of PW redundancy on S-PE

# Changes in v-02

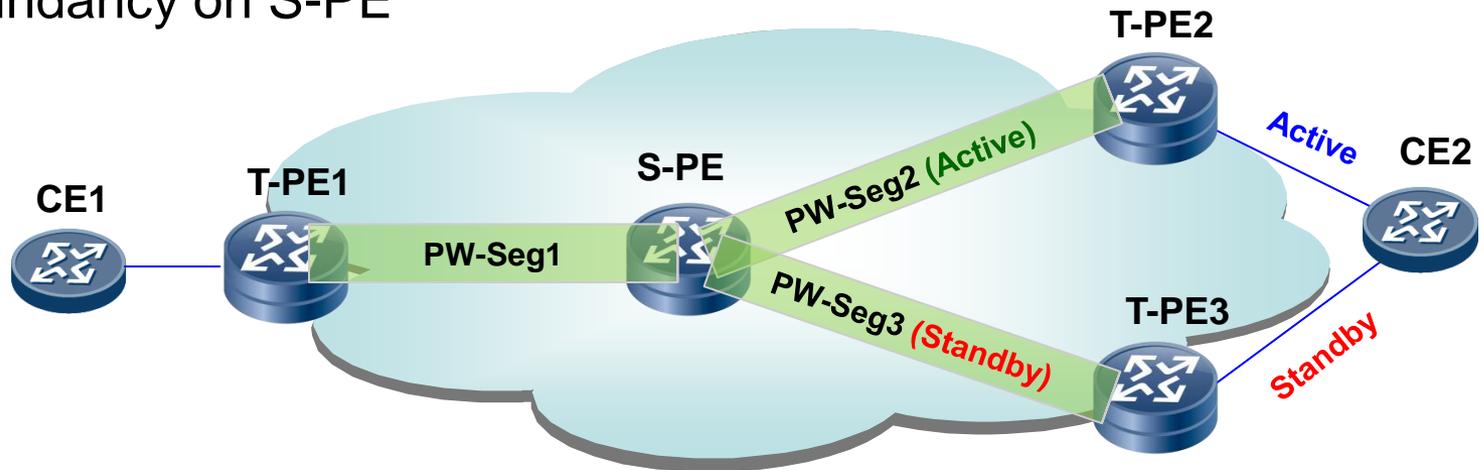
- Add a section “VCCV Considerations”
  - Resolve comments received in IETF82
    - CC Type 1, can be used with S-PE redundancy
    - CC Type 2, not supported for MS-PW (RFC 6073)
    - CC Type 3, obtain the hop counts to the remote T-PE in advance, either by tracing or SP-PE TLVs
- Editorial changes

# PW redundancy on S-PE

- PW redundancy on T-PE



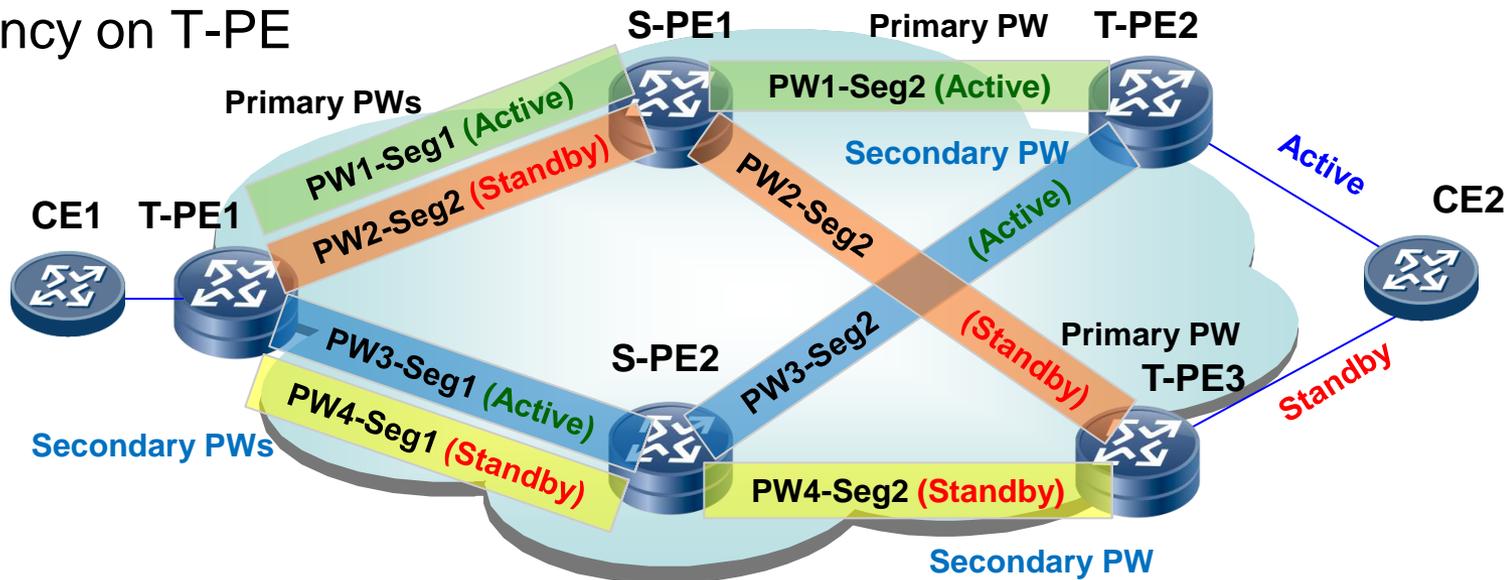
- PW redundancy on S-PE



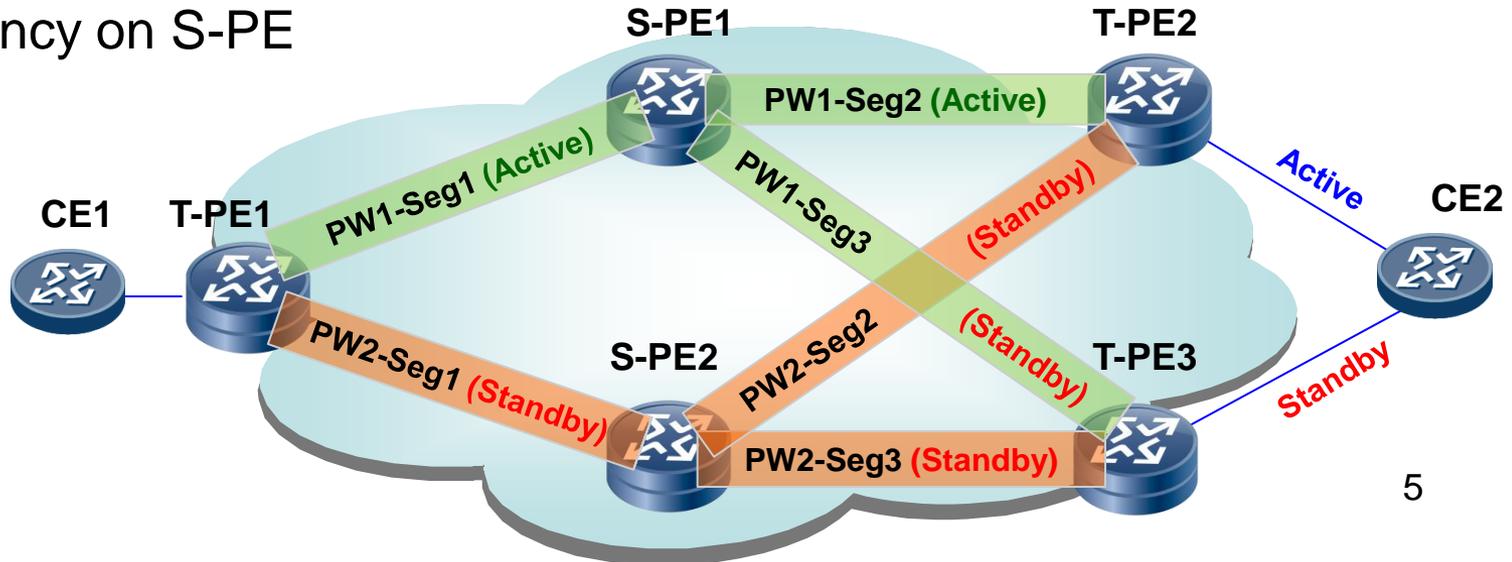
- Reduces the number of PW segments on T-PE1
- Also works when T-PE1 does not support PW redundancy

# PW redundancy on S-PE (Cont.)

- PW redundancy on T-PE



- PW redundancy on S-PE



# Conclusions

- Complementary to draft-ietf-pwe3-redundancy-bit
- Further comments are welcome
- WG adoption?

# Operations on S-PE

- Not simply relays the status to T-PE, S-PE makes the decision
- For PW segments towards the dual-homing side
  - selects the active PW segment according to the local and remote preferential status
- If S-PE could select an active PW segment successfully, it should advertise preferential status “Active” onto the PW segment on the other side