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

- PW redundancy on S-PE
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