

P2MP PW Protection For MPLS- TP Network

draft-liu-pwe3-mpls-tp-p2mp-pw-protection-00

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Motivation

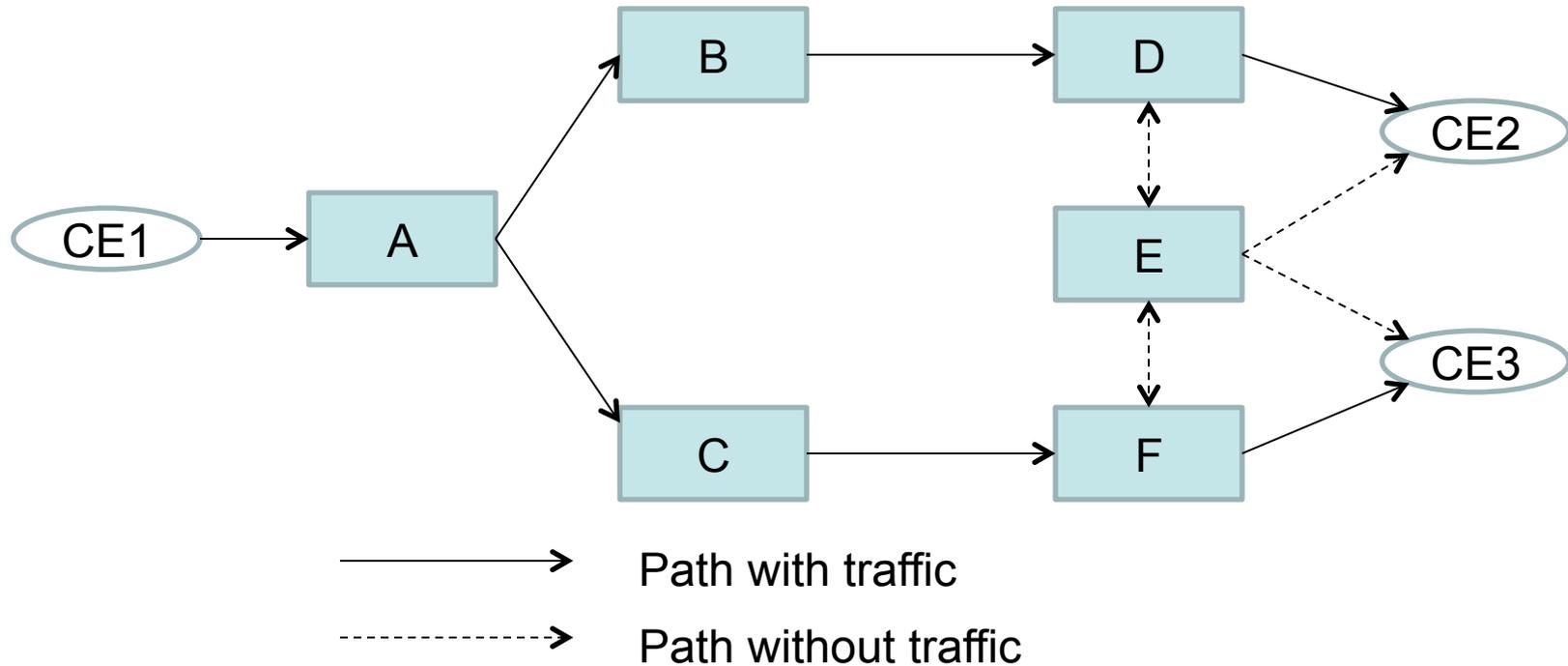
□ Requirements and applications

- Req.63 :It must be possible to provide protection for MPLS-TP data plane without any IP forwarding capability in RFC 5654.
- MPLS-TP data plane should be independent of its control plane.
- For p2mp service, it may be bad to set up a return path for each branch path .

□ Purpose of this draft

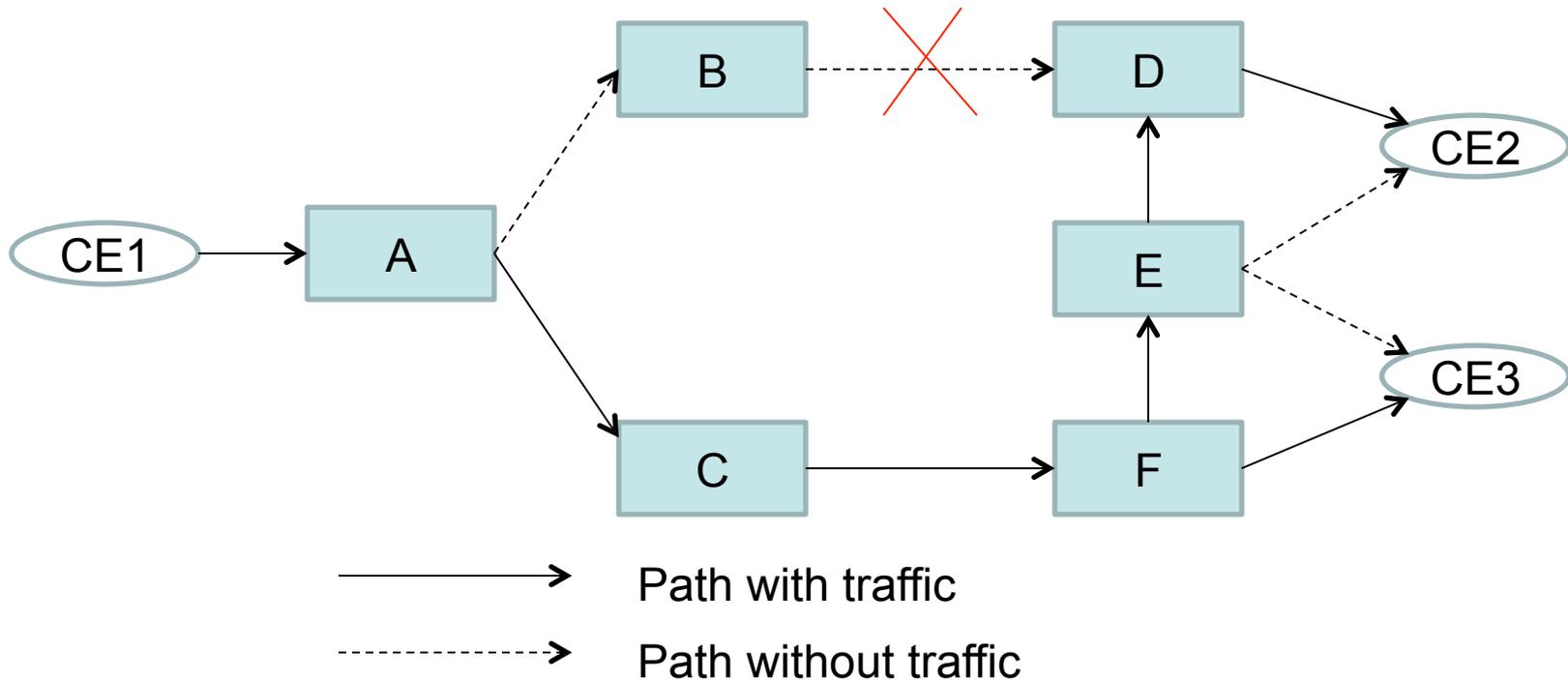
- This draft provides a protection solution for p2mp service without IP forwarding capability , control plane , return path;

Normal



- Service flow : CE1 → A → B, C → D, F → CE2, CE3;
- E: backup node of D, F;
- D, F is protector node for each other;

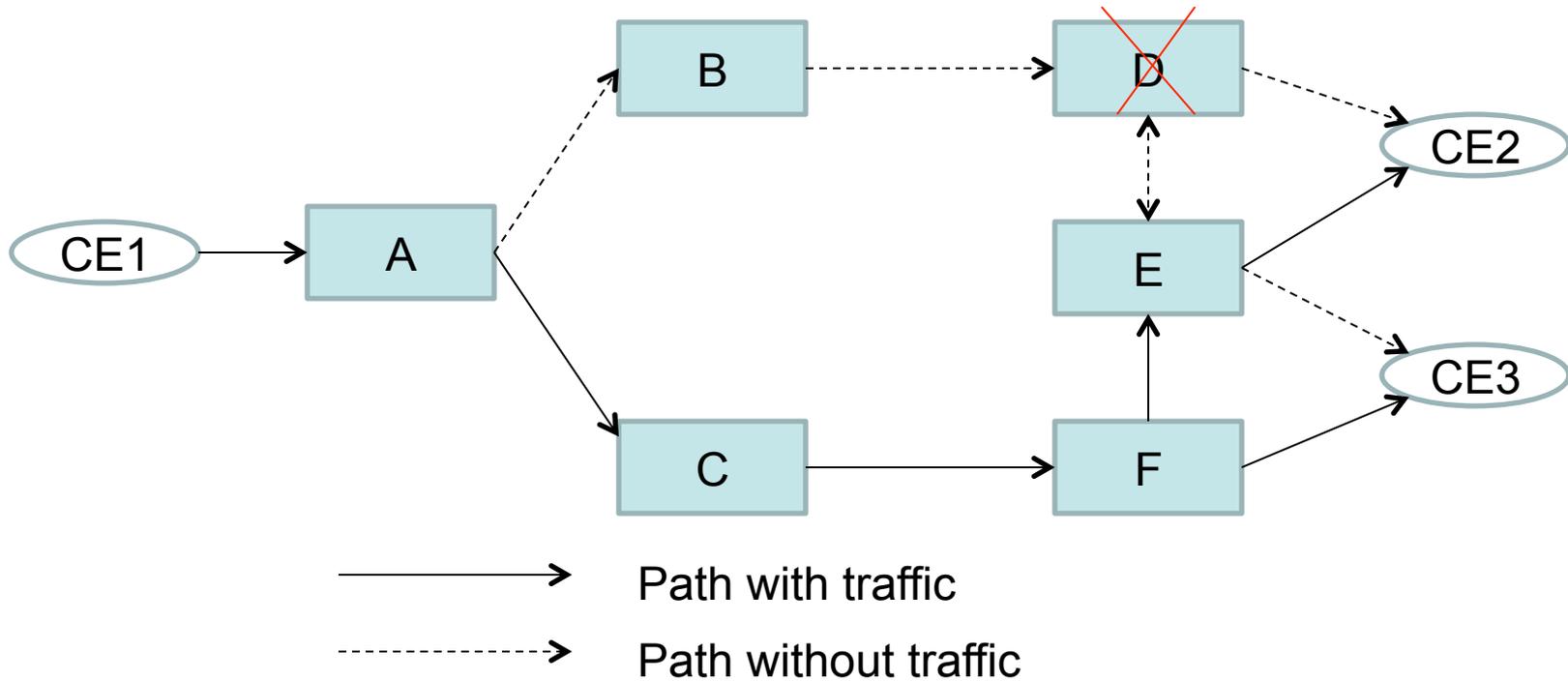
Forwarding pw failure



failure message: D → E → F

service flow: F → E → D → CE2

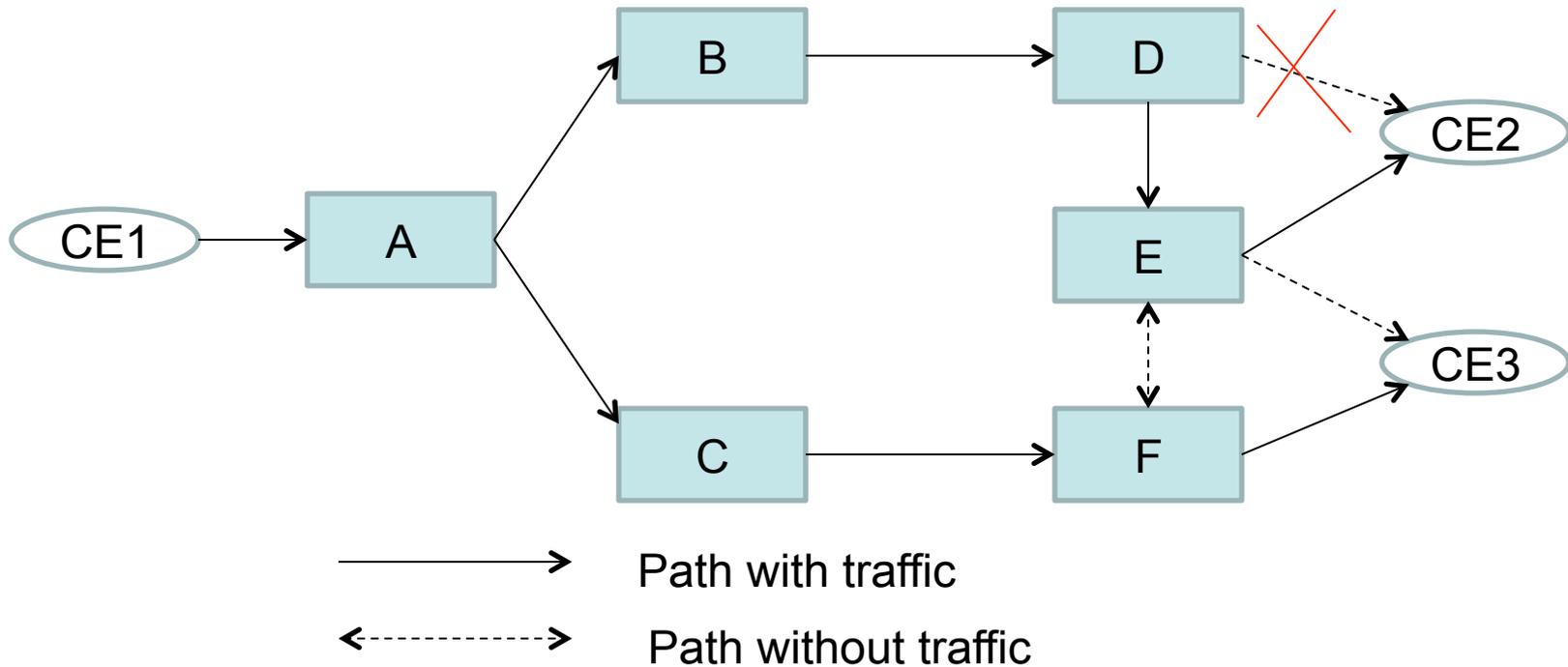
Egress node failure



failure message: E → F

service flow: F → E → CE2

Attachment Circuit(AC) Failure



failure message: D → E

service flow: D → E → CE2

Status Message

Res	PW Status	Length
status code		

PW Status: indicate type of message;

Status code:

0xTT: Forwarding pw failure;

0xYY: Egress node failure;

0xZZ: Attachment Circuit(AC) failure;

Next steps

- 1 Solicit comments and questions for this draft;
- 2 Update the draft according to comments and questions in the future;

thank you !