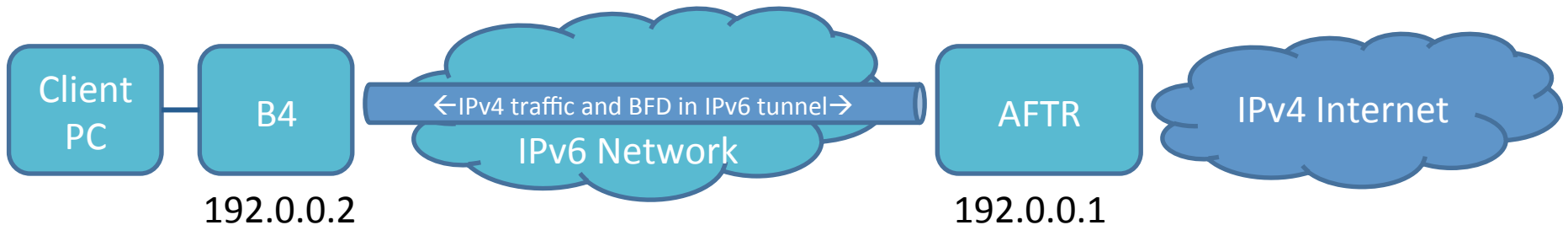


draft-tsou-bfd-ds-lite-02

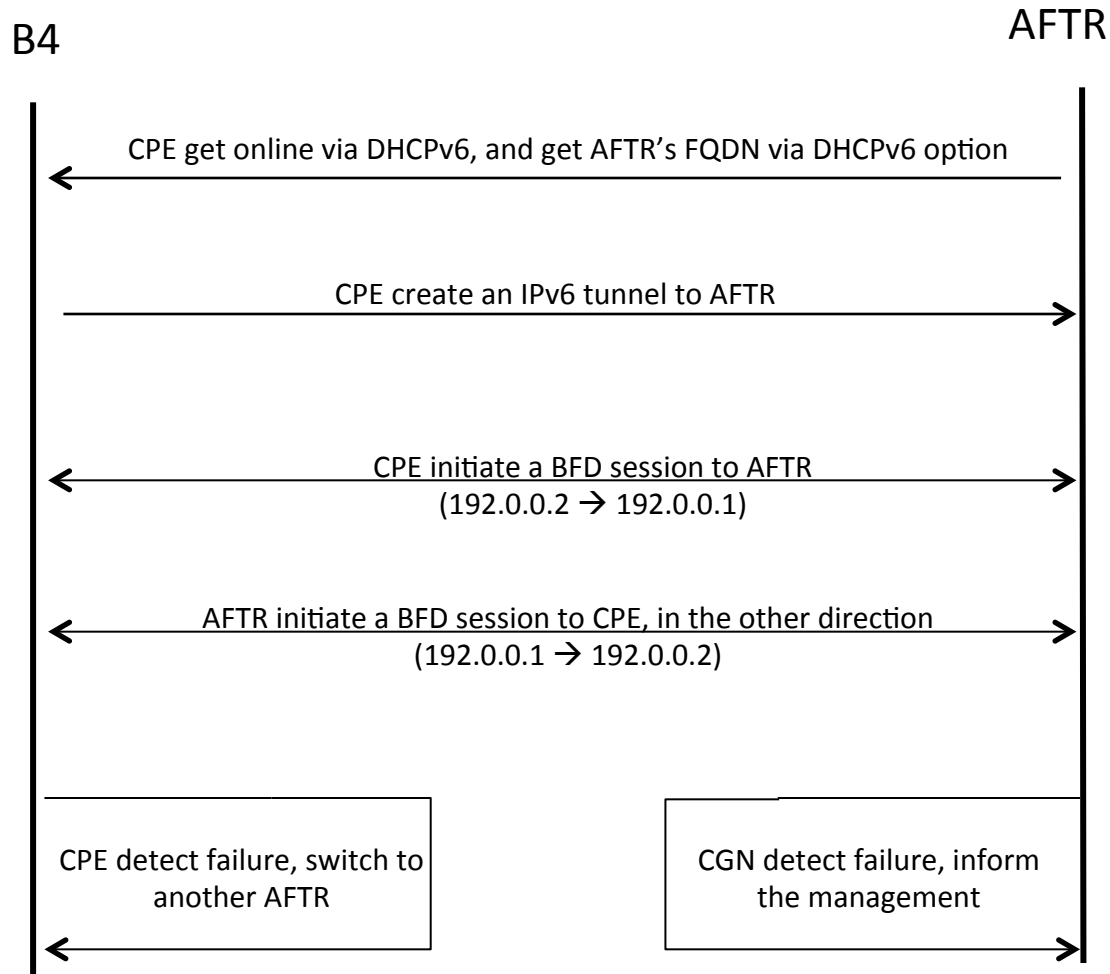
Tina Tsou

- Problem to solve

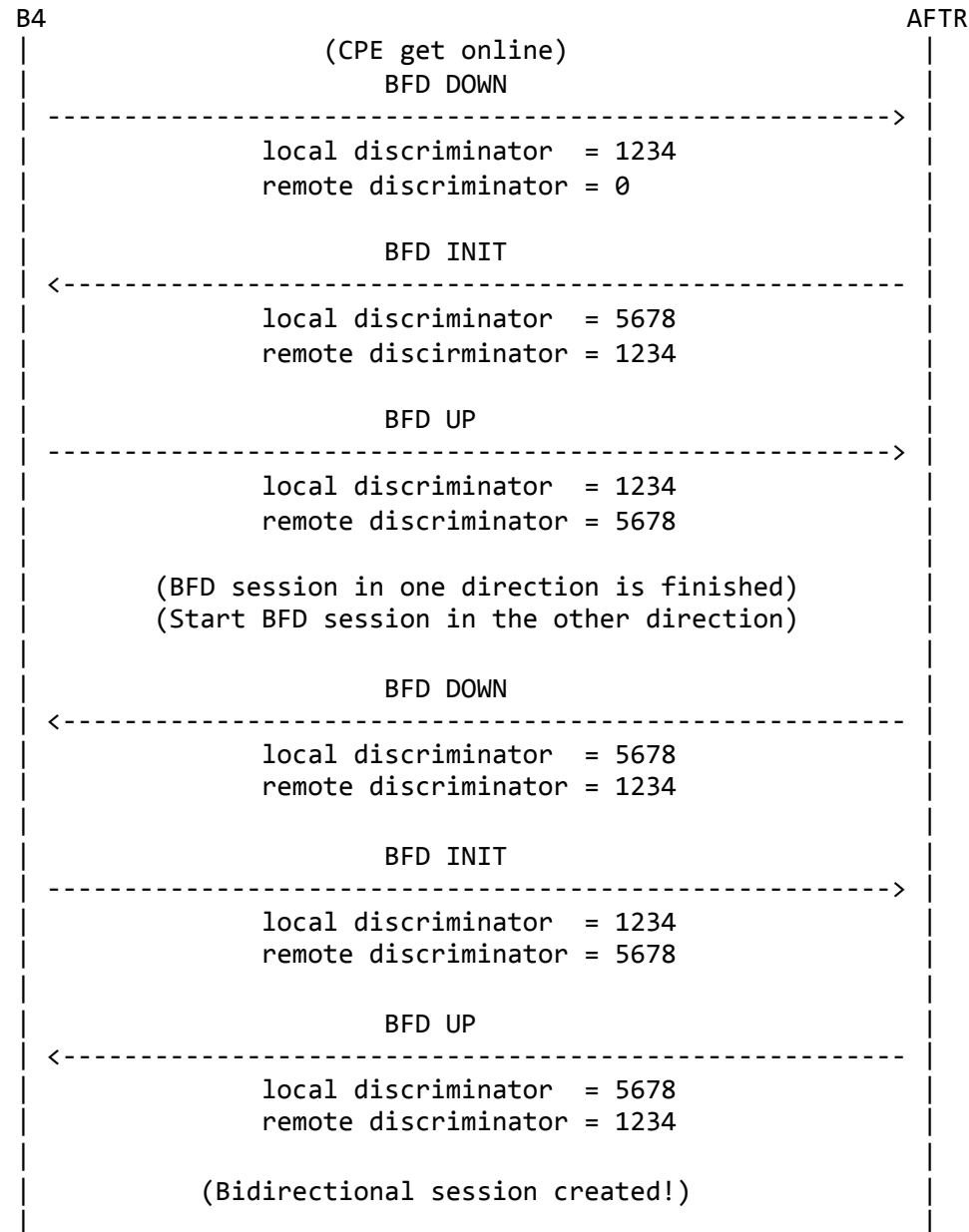
- There is no status information of DS-Lite tunnel, e.g. tunnel up or down, which brings difficulties for operations and maintenance.



- Procedures



- Procedures



- BFD for DS-Lite

- Auto configuration

In DS-Lite, B4 has the AFTR address, sufficient to initiate a BFD session, other parameters can be negotiated via signaling or static config, no manual configuration.

- packet rate

Long time period between BFD packets transmission, e.g. 10s or 30s

- Failover

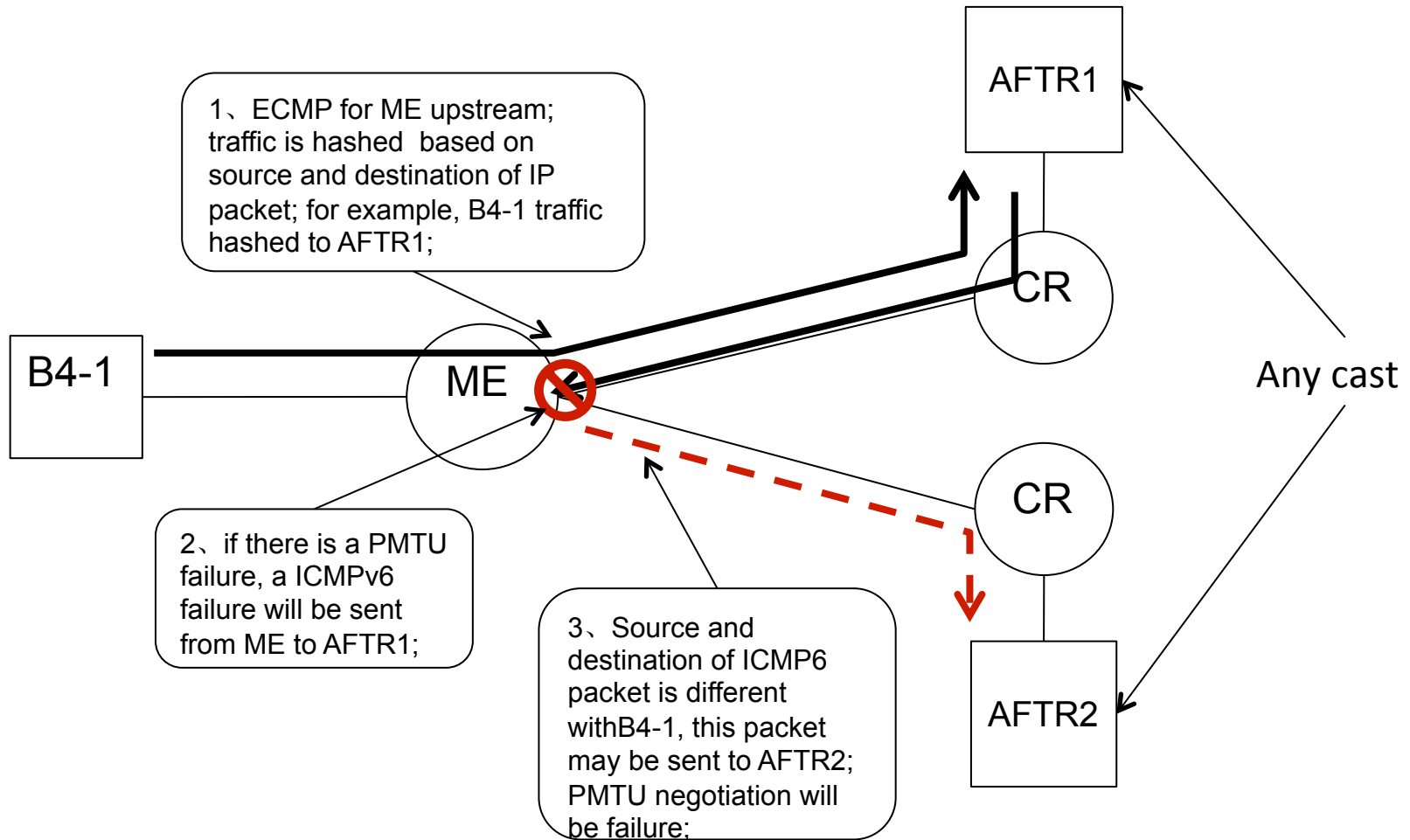
If B4 detect a failure, it will switch to another AFTR

- BFD for DS-Lite

Compared with other solutions, e.g. PING, BFD can provide some more useful information besides connectivity detect, e.g. diagnostic code, delay, throughput, etc

Q: Will extension defined in [RFC6374 Packet Loss and Delay Measurement for MPLS Networks] available for IP network?

- BFD Explicit failover VS anycast



ICMP error message problem in anycast

- BFD Explicit failover VS anycast

AFTR may use anycast address for receiving packet, and unicast address for sending packets to resolve the ICMP error message problem [section 4.2 of MAP-D]

But there is still a problem, e.g. PING, admin may ping the AFTR by anycast address, but receive response from another address ...