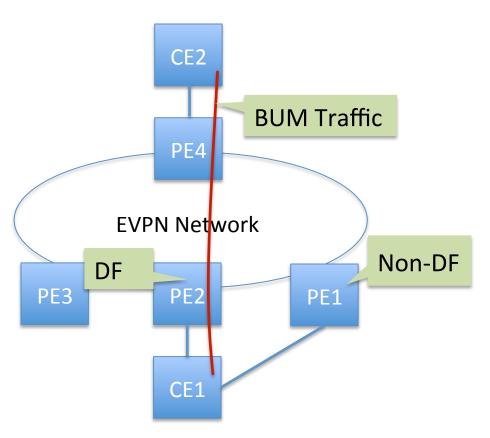
Handshaking mechanism for DF election

draft-hao-bess-evpn-df-00

Weiguo Hao, Lucy Yong, Qiandeng Liang

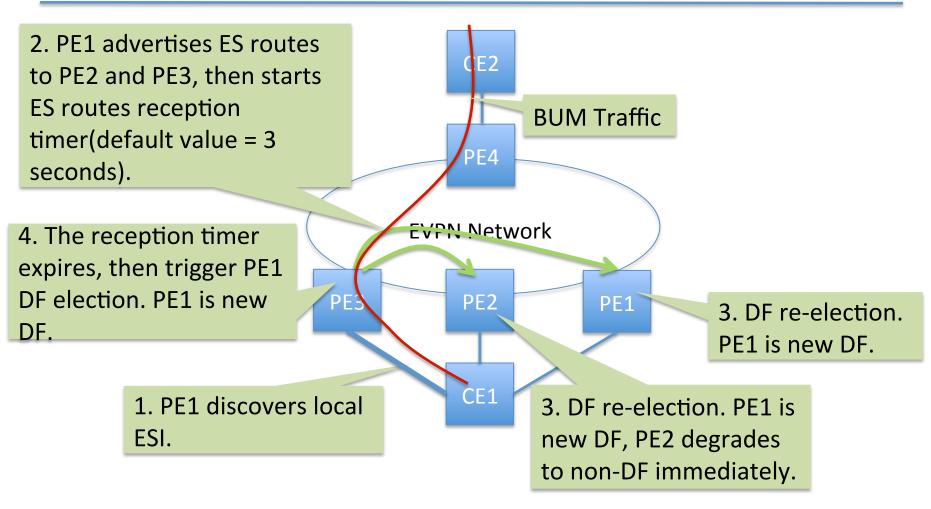
March 2015 Dallas USA

Problem: DF Election between PE1 and PE2



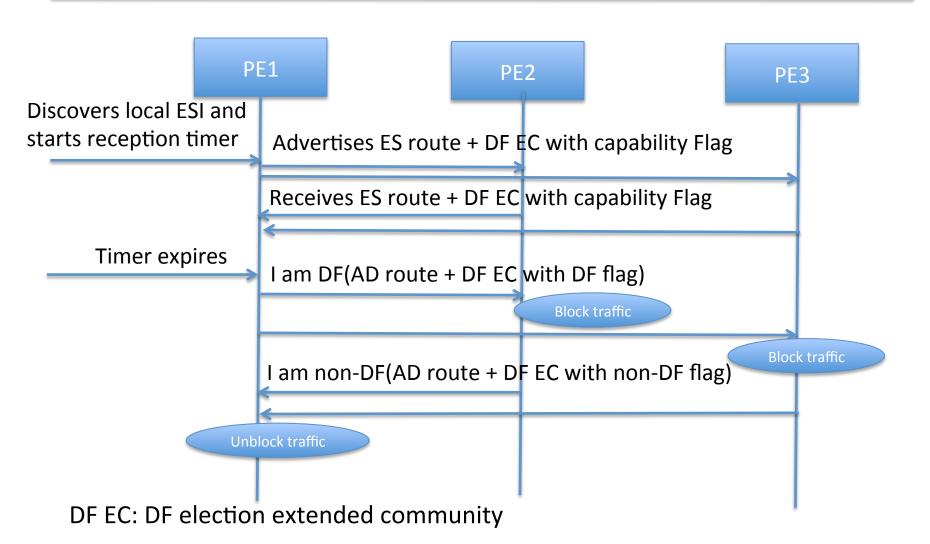
Initially, PE3 doesn't join the ESI connecting to CE1, CE1 only connects to PE1 and PE2 in active-active mode, DF election is running between PE1 and PE2, PE2 is elected as DF and PE1 is non-DF.

Problem(continue): DF re-election trigged by PE3



Problem: BUM traffic disruption will be incurred by DF re-election, up to reception timer.

Handshaking mechanism for DF election and re-election



DF election extended community

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EVPN Extended Community sub-type: 0x03 DF Election
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- o C. DF handshaking capability Flag.
- o D. DF Flag.
- o N. Non-DF Flag.
- o Sequence. The sequence number is used to ensure that PEs connecting to same ESI are negotiating for same DF election.

Next Steps

Solicit comments and suggestions