

EVPN Fast DF Recovery

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Summary

Provide two options for fast DF election upon recovery of the failed link or node associated with the multi-homing Ethernet Segment.

Option A: Handshake

Option B: Synchronization (NTP)

“In comparison to RFC7432 -> timer based approach (3 sec)”

DF Election Handshake

New route types for handshake:

- DF Election Handshake Request Route (type-12)
- DF Election Handshake Response Route (type-13)

Authors are looking to provide an optimization for 2-PE multi-homing.

DF Election Synchronization

If all PE devices attached to a given Ethernet Segment are clock-synchronized with each other, then the above handshaking procedures can be simplified and packet loss can be reduced from BGP-propagation time (between recovered PE and the DF PE) to very small time (e.g., milliseconds or less)

Use of a new BGP extended community to carry timestamp

Seeking for comments

Be aware! There are already implementations of both options.

Authors really wants to move this draft forward.