Multicast VPN Fast Fail-over
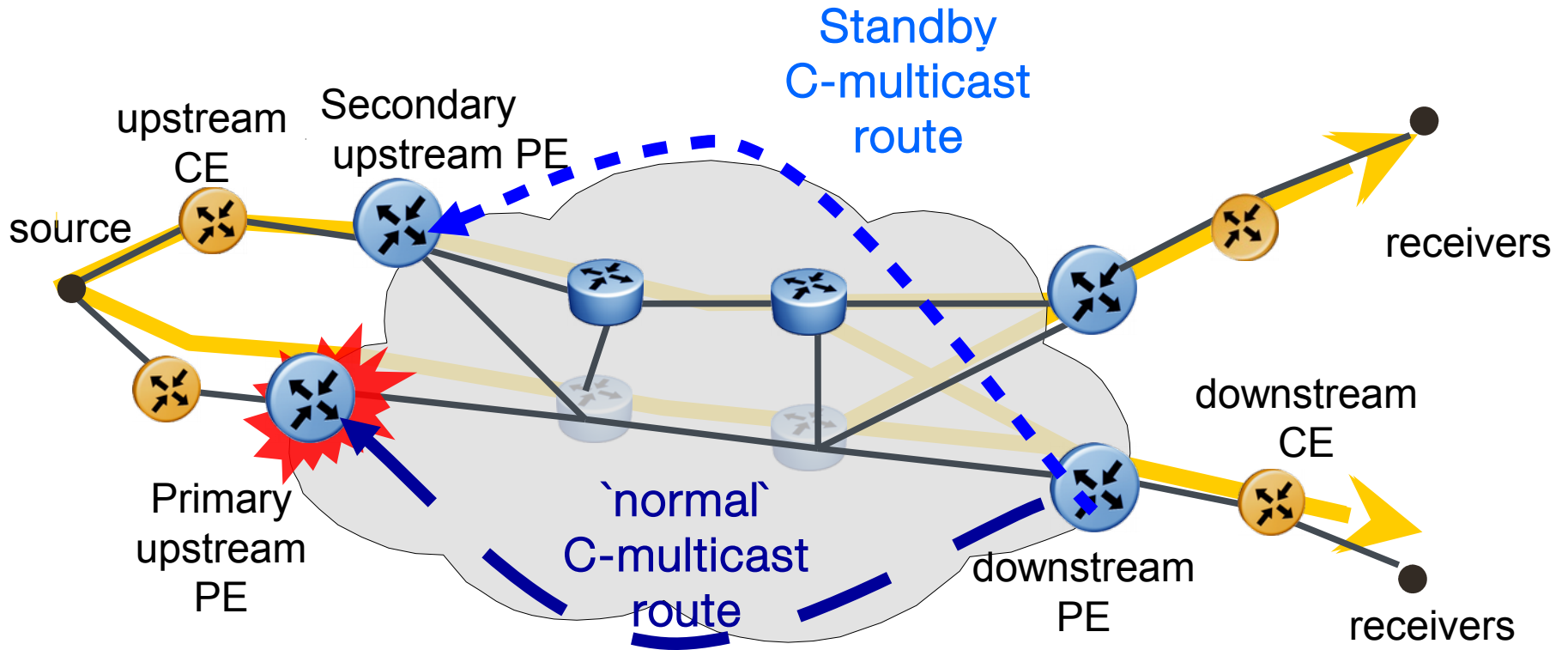
`draft-ietf-bess-mvpn-fast-failover-01`

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(as editors, many other co-authors)

Overview

Changed in Last revision

- Clarifications, updated references, etc.
- Description on PE-CE link protection
  - Upstream PE advertises a S-PMSI A-D route with BFD Discriminator of protected PE-CE link
  - The PE-CE link that is being protected for a given C-Mcast route is the RPF interface to the src/RP
  - Upon PE-CE link failure, the BFD sessions will be brought down
- Revertive behavior
  - If the original primary UMH transitions from down to up, the downstream PE should it use as its primary UMH again
  - Non-revertive behavior can also be implemented on a downstream PE as a configurable option
    - Downstream PE will use a less preferred backup UMH if a primary PE comes back up.

Next steps

- Need to specify on which procedures are mandatory
  - Determining the Tunnel Status
  - Hot vs. Warm vs. Cold Root Standby
  - Leaf PE Procedures
  - Comments and opinions?
- Please review and send comments