

RIPE

# Bestpath conqueror

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Csaba Mate  
Niif/as1955



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What happens in an active-backup scenario when active pe's link goes down?

1) Old pe sends the withdraw

2) rrs process it, computes new exit point and flood this information

3a) other pes reprogram their linecards

3b) new pe reprogram their linecards

- What if one rr is faster then other?

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- What if one rr is faster then other?
  - 1) Other pe's wont change to new pe until all the rrs sent the update about new nexthop, because until a better locpref route exists for a prefix, they'll prefer that one
  - 2a) in case of connected lan, backup pe forwards by default
  - 2b) in case of ebgp learnt prefix, the same happens as in point 1.
- What can we do to speed up convergence?



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The idea is that on the fast rr, you can offset the locpref in the outgoing prefixes by a big number, or better, adding 1 to the previous bestpath's locpref.

In this way, all the other pes will switch immediately to the new exit point.

On the backup pe, you've to use local hot potato routing. In this case it'll forward all the time, as in case of connected network.



# Questions?

The idea is already on the routing list, please tell your opinion here or there...

