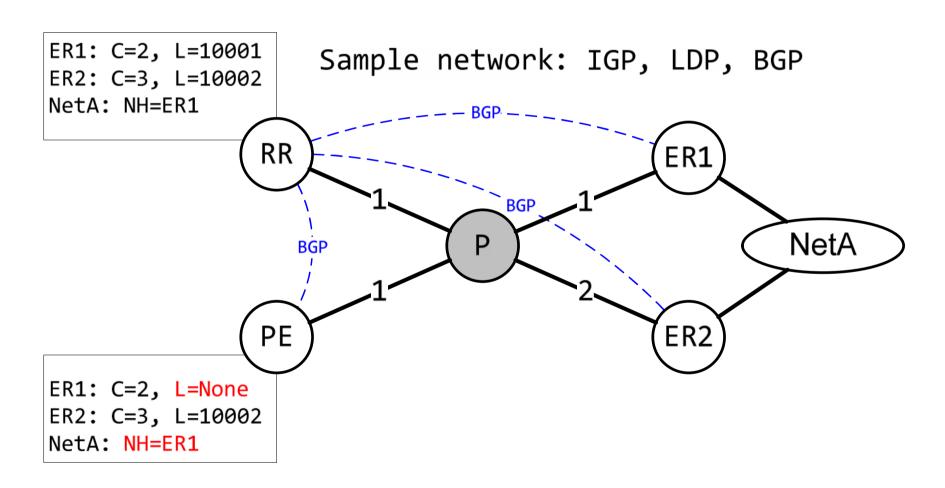
# Application of draft-varlashkin-nh-cost to draft-ietf-idr-best-path-selection

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# Overview

- Next-hop reachability is not transitive
  - e.g. sender can reach NH, receiver cannot
- Receiver should not install routes with unreachable NH
  - but receiver may have no other routes
  - sender has no way of knowing
- Next-Hop SAFI provides possible solution
  - Receiver can inform sender that NH is unreachable
  - Sender does best path selection from receiver's PoV
  - Receiver gets only feasible routes

# The Issue Illustrated

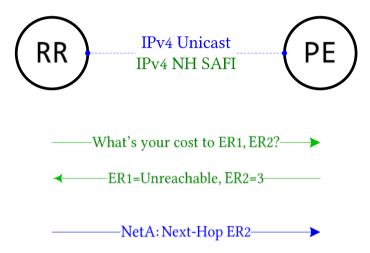


# BGP Exchange Example

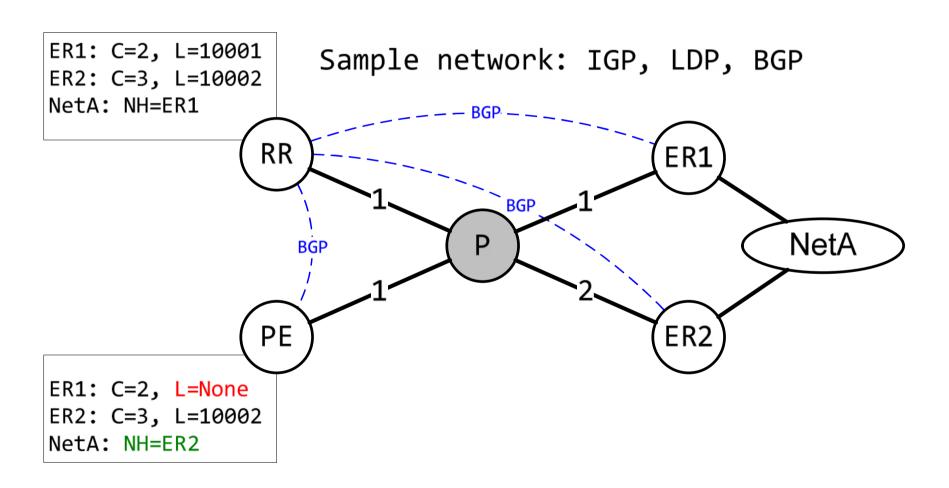
Without NH SAFI



With NH SAFI



# Solution Illustrated



# Last Slide

- No changes required in either draft
  - solution is intrinsic property of NH SAFI
- WG interest?
- Adopt draft-varlashkin-nh-cost as WG item?