

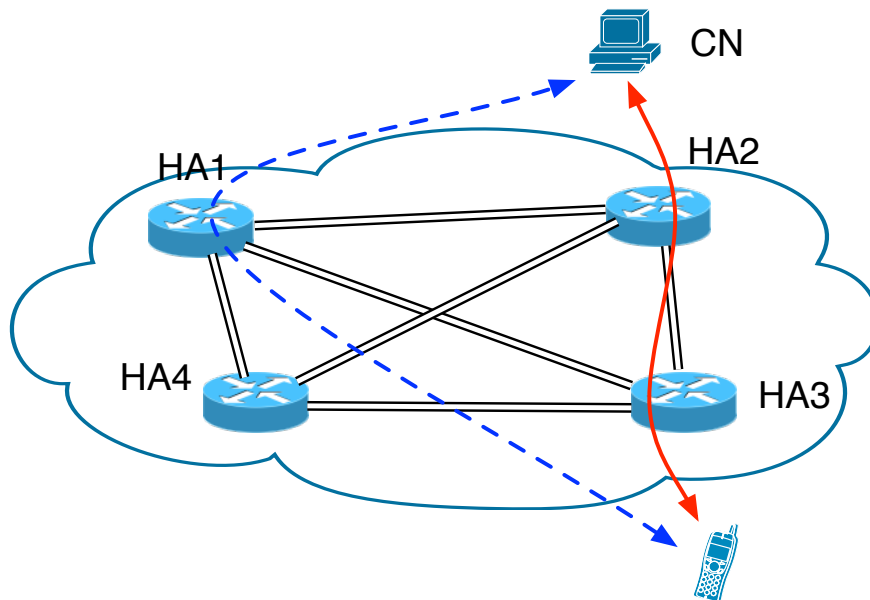
# Global HA to HA protocol (Global HAHA)

## Problems

1. HA Single Point of Failure
2. HA Single Bottleneck
3. Un-optimized route (triangle routing)

## Approach

- HAs global distribution
- Session continuity by
  - All HAs serving the same home prefix.
  - MN keeping the same HoA.



## Overview

1. Home Agents are globally distributed in infrastructure and inject the same home prefix (aka. anycast) to the Internet.
2. MN associating with the nearest HA.
3. By exchanging MN's state among HAs, session continuity is guaranteed when MN changes HA.
4. MN's traffic is exchanged over tunnels between home agents.

- No Protocol Modification to Mobile Node
- Strong interests from Aviation Industry

# References

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- Local Home Agent distribution
  - Home Agent Reliability Protocol (MEXT WG item)
  - <http://tools.ietf.org/id/draft-ietf-mip6-hareliability-08.txt>
- Global HAHA IDs
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  - <http://tools.ietf.org/id/draft-wakikawa-mip6-nemo-haha-01.txt>
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  - <http://tools.ietf.org/id/draft-wakikawa-mext-haha-interop2008-00.txt>
- Presentations
  - 60th IETF <http://www.ietf.org/proceedings/60/slides/nemo-14.pdf>
  - 61th IETF <http://www.ietf.org/proceedings/61/slides/nemo-6.pdf>
  - 72th IETF <http://www.ietf.org/proceedings/72/slides/mext-4.pdf>
  - also discussed at the MEXT interim meeting (2008)
- Academic papers...
  - Migrating home agents towards internet-scale mobility deployments, ACM CoNEXT 2006
  - Supporting Mobility in the Global Internet, ACM MICNET Workshop 2009.
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