### Home Agent Assisted Route Optimization (HAARO) between Mobile IPv4 Networks

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### Changes since -00

- Signaling diagrams
- Refined extension headers to a more compact form
- Two primary concerns from Vancouver
  - Scalability
  - Return Routability check (is it really necessary)

# Addressing Scalability – introducing compression

- Compression for prefixes and realms
  - In common case, prefixes either sequential or at least very close to one another
    - 1.1.1.0/24, 1.1.2.0/24, 1.1.3.0/24
      - Just send "1.1.1", "2", "3" and prefix lengths.
      - Supports variable lengths, eg. 192.0.2.0/25, 192.0.2.128/26, 192.0.2.192/27
  - Realms also assumed to be very close to another (or just one realm in first place)
    - Foo.example.com, bar.example.com, baz.bar.example.com
    - A variation of RFC 1035 domain name compression

## **Return Routability**

- Original basis of including RR
  - Operational experiences from Mobile IPv6
    - Reasonably lightweight, scrutinized security
  - No need to reinvent the wheel with a new inter-MR key provisioning mechanism
- Changes in -01:
  - Making RR optional, allows static keys
  - Allows inter-router registration with static keys
    - How to configure these static keys: Out of scope
      - Just use your favorite provisioning mechanism

#### Questions & comments? Consider a WG item?



