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

IETF 71, Philadelphia, PA, USA
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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?