Architecture Discussion on SRv6 Mobile User plane

draft-kohno-dmm-srv6mob-arch-07

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Overview

• This document discusses the solution approach and its architectural benefits of translating mobile session information into routing information, applying segment routing capabilities, and operating in a routing paradigm.

• It is meant to be an informational document to describe the underlying motivations for the DMM SRv6 MUP works.
  - RFC9433
    “Segment Routing over IPv6 for the Mobile User Plane”
  - draft-mhkk-dmm-srv6mup-architecture-05
    “Mobile User Plane Architecture using Segment Routing for Distributed Mobility Management”
Draft -07 updates

- Luay Jalil @Verizon has joined as a co-author
- Responded to comments (Thanks to Hannu for valuable comments)
  - Clarified that this architecture is not applicable for ALL mobile use cases. This is more for FWA, and/or a certain IoT use cases.
  - Clarified benefits in a more concrete way.
    - To achieve:
      - Scaling $O(N^2) \rightarrow O(N)$
      - Distributing/Ubiquitous computing friendliness
    - By:
      - Converting session information to routing information
      - Containing necessary session related information in SRv6 network programming concept
      - Enabling to operate in a routing paradigm
Next step

- Please also refer to the slides in the IETF116
  https://datatracker.ietf.org/meeting/116/materials/slides-116-dmm-architecture-discussion-on-srv6-mobile-user-plane

- We’d like to ask WG adoption. Your feedbacks are highly welcomed.