Mobile Traffic Steering

Room for more standardization… ?

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...in discussion with others

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Background

- DMM was/is about distribution of mobility control- and data plane functions
- End-to-end system comprises:
  - Mobility Management System with control plane, Mobility Anchors (MA), radio access, mobile devices, ..
  - remaining segments up to Data Network (DN) and Application Servers (AS)
- Today’s reality: Distribution and mid-session relocation of a mobile device’s MA
- Objective: Session/service continuity after MA relocation
Target scenario

- IP address continuity by de-coupling of a mobile node’s IP address from a topologically matching MA
- Traffic steering of non-routable IP
Past work, some examples –
Per-Host Locators for Distributed Mobility Management (2012)

**Per-Host Locators for DMM**
draft-liebsch-mext-dmm-nat-phl-01

- Utilizes ID-LOC split and locator re-write between ingress- and egress routers
- Applies to network between Mobility Anchor and Data Network
Past work, some examples – N6 traffic steering (2019)

Control-/data plane aspects of N6 traffic steering
draft-fattore-dmm-n6-cpdp-trafficsteering-01.txt

- Transport / DN control Plane interface with mobility control plane
- Data plane enforces rules for traffic steering between Data Network and Mobility Anchor
Past work, some examples – Mobility-aware Floating Anchor (2019)

Mobility-aware Floating Anchor
draft-gundavelli-dmm-mfa-01

- MFA node controller inserts traffic steering rules into MFA Transit Routers
- Traffic steering between Transit Routers (TR)
Discussion

- Interest in such work?
- Value and relevance of such work?
- Technical scope of the work?
  - Semantics and information model to/from Transport Control Plane
  - Transport Control Plane and Control-/Data Plane interface semantics
  - Forwarding Plane
- Intended status and type?
  - Informational, BCP, ..
  - Analysis, ..