SFC function mobility with Mobile IPv6

draft-bernardos-dmm-sfc-mobility-01

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Motivation: distributed SFC control

• Current SFC architectures rely on a centralized controller (C-CTRL). This poses issues and inefficiencies
• This can be alleviated by enabling autonomous SFC self-orchestration, based on the concept of SFC pseudo controller (P-CTRL)
MIPv6 extensions for SFC mobility

- The draft describes Mobile IPv6 (MIPv6) extensions to perform function migration/mobility (one example of lifecycle management)
Service Path Update

- New MH type
- Mobility options
  - Network Service ID
  - SFC node
Service Path Acknowledgement

- New MH type
- Mobility options
  - Network Service ID
Network Service ID mobility option
SFC node mobility option

Type = TBA | Option Length |

Function ID Length | Node ID Length

Function ID

Node ID
Next steps

• Understand from both DMM and SFC WG if there is interest in working on this type of problem

• Other companion/complementary IDs:
  – draft-bernardos-sfc-distributed-control
  – draft-bernardos-sfc-distributed-control-operation
  – draft-bernardos-sfc-nsh-distributed-control

• Provide feedback to authors about the draft(s)