SRV6 MUP YANG model

draft-mahesh-bess-srv6-mup-yang

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Introduction

• Configuration of Mobile User Plane (MUP)
• Aligns with draft-mhkk-dmm-srv6mup-architecture
  – New Segment Type for MUP
    • Direct Segment
    • Interwork Segment
  – New routing information
    • Session Discovered Route
    • Session Transformed Route
  – Uses SRv6 to specify source route
    • To and from a mobile node
• Recommends use of BGP
  – With a new SAFI (bgp-mup)
  – Mobile session information into IP forwarding information
Model

• Augments BGP YANG model
  – Add ipv4-mup/ipv6-mup (at a global level)
    • Add MUP capability for Uplink/Downlink

• Augments BGP Policy YANG model
  – Conditions for MUP
    • Route-type
    • Prefix-set
    • Rule-set
    • Id-set
  – Actions
    • Accept-route
Examples

• Configuration of SRv6 MUP
• Route and Segment Type under IPv4-MUP
Next Steps

• Initial cut of the YANG model mostly done
  – And validated
  – Expect a revision
• Security Considerations
• IANA Considerations
• What (if any) operational data?

Good candidate for WG adoption
Repository

• Overall model development
  https://github.com/mjethanandani/srv6-mobile/

• Issues tracked at:
  https://github.com/mjethanandani/srv6-mobile/issues
Q&A