SRv6 for Mobile User-Plane

draft-ietf-dmm-srv6-mobile-uplane-04

IETF104
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Summary of Updates from v03 to v04

• **Lightweight updates**
  • Pseudo-code correction.
  • Some clarification text for predefined SRv6 functions, Traditional mode, IPv6 user-traffic and Args.Mob.Session.
  • Simplified the text regarding Network Slicing.

• **Naming complaint**
  • Args.Mob.Session : No any ideas received after IETF103.
  • T.M.Tmap : “T.M.GTP4.D” was proposed instead.

• **Another major feedback from review comments**
  • Whether to support ‘Drop-in’ scenario. (i.e; IPv4 SA and UDP src port transparency for GTP-U)
Feedback from Hackathon

- Two target functions has been implemented for VPP and P4 Switch.
- New mapping rule of GTP-U<->SRv6 has been studied
  - It is possible to support both ‘Args.Mob.Session’ and ‘Drop-in’ scenario.
- The codes are now open-sourced:
  - [VPP](#) and [P4](#)

<table>
<thead>
<tr>
<th>Target Function</th>
<th>Description</th>
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<tbody>
<tr>
<td>End.MAP</td>
<td>Forwards the receiving IPv6 packet and update the IPv6 DA with mapped SID.</td>
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<tr>
<td>End.M.GTP6.D</td>
<td>Decap the receiving GTP/UDP/IPv6 packet and encap with IPv6 header, or IPv6 header with SRH based on the address/ID mapping rule and binding SR-Policy</td>
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<tr>
<td>T.M.Tmap (GTP-U -&gt; SRv6)</td>
<td>Decap the receiving GTP/UDP/IPv4 packet and encap with IPv6 header, or IPv6 header with SRH based on the address/ID mapping rule and binding SR-Policy.</td>
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<tr>
<td>End.Limit</td>
<td>Limit the throughput of the packet flow with mapped SID.</td>
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<tr>
<td><strong>NEW</strong></td>
<td>Translate GTP-U Echo Request to ICMP Echo Request and vice versa</td>
</tr>
<tr>
<td><strong>NEW</strong></td>
<td>Translate GTP-U Echo Reply to ICMP Echo Request and vice versa</td>
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</tbody>
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Next Steps

- **Reflect the review result**
  - More correction for pseudo-code.
  - Improving clarity and readability to deal with the rest of feedback comments.
  - Any other feedbacks from WG are really welcome.

- **Update mapping rules between GTP-U and SRv6**
  - Reflect the hackathon takeaways to the spec.

- **Implementation**
  - If you are interested in hackathon to implement SRv6 mobile user plane, you’re welcome to join.
Thank you

Questions and comments?