

IETF hackathon for SRv6 Mobile User Plane

IETF 106

Nov. 16-17, 2019

Singapore



Hackathon Plan

- Simplify the mobile networks
 - "draft-ietf-dmm-srv6-mobile-uplane"
- Implement mobile user-plane requirements into one single layer.
 - Segment Routing IPv6 (SRv6) to be able to integrate mobile user-plane into the underlying layers.

What got done

- What we achieved:
 - 5G aware mobile user-plane functions on VPP and P4.
 - Be able to interwork with other SDO protocol (GTP) in **Stateless**.
 - Github: <https://github.com/filvarga/srv6-mobile>
 - The code has been submitted to VPP gerrit to be reviewed.

What we learned

- Modularity for the code and the protocol
 - Some SRv6 Mobile code require modularity.
- A new function idea implemented could be a feedback:
 - SRv6 End function for GTP-U decap and table look up.

Wrap Up

Team members:

- Satoru Matsushima
- Tetsuya Murakami (First hackathon)
- Kentaro Ebisawa
- Pablo Camarillo
- Filip Varga

- P4 code

<https://github.com/ebiken/p4srv6/tree/ietf106>

- Scapy to generate 3GPP 5G user-plane packet (GTP-U)

<https://github.com/secdev/scapy/blob/master/scapy/contrib/gtp.py>