Benedikt Spies

PhD Student
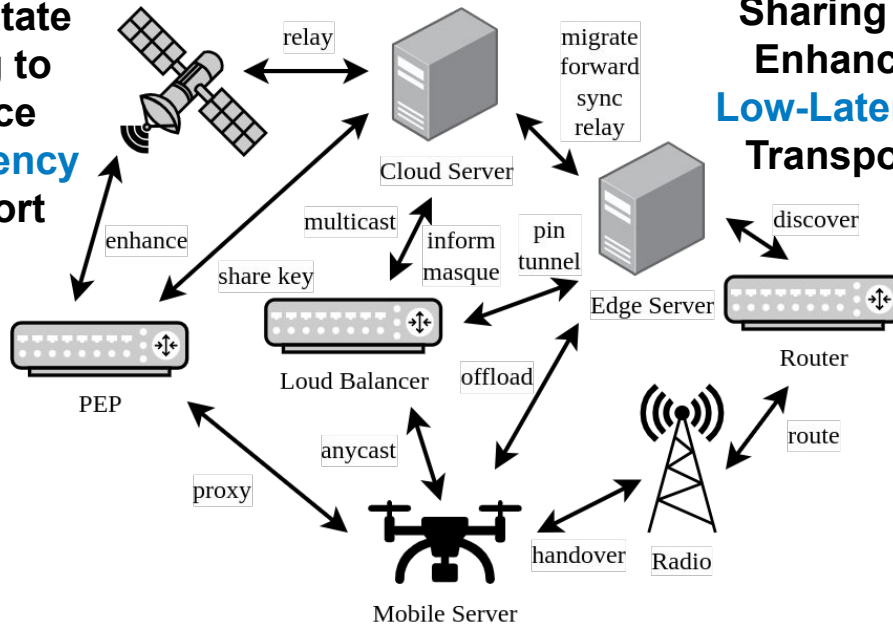@ Chair of Connected Mobility @ TUM

Research Interest: QUIC, Multiparty Transport, Edge Computing, Middleboxes, …

Crypto/State Sharing to Enhance High-Latency Transport

Crypto/State Sharing to Enhance Low-Latency Transport

relay

migrate
forward
sync
relay

Cloud Server

enhance

multicast

inform
masque

pin
tunnel

discover

share key

Edge Server

Router

PEP

Loud Balancer

offload

anycast

route

proxy

handover

Radio

Mobile Server

Questions

- Does it scale? Anycast IP Routing to the Closest Edge Server
  - Routing tables, routing protocols

- IPv6 Extension Headers vs UDP Options vs Tunneling
  - Bleaching, replay

- Reconnects, a Legacy of TCP? Can we do better?
  - Authenticated resets, address migration, multipath, user experience

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