Postcard-based On-Path Flow Data Telemetry

draft-song-ippm-postcard-based-telemetry-06

Haoyu Song (Futurewei)
Tianran Zhou (Huawei)
Zhenbin Li (Huawei)
Jongyoon Shin (SK Telecom)
Kyungtae Lee (LG U+)
What’s New

- Change the status of the draft to “Informational”
- Position PBT-M and PBT-I as two high level approaches of PBT
  - An implementation of PBT-I as an IOAM option: Direct Export
  - An implementation of PBT-M in SRv6
Passport-based On-path Flow Data Telemetry: IOAM Trace

- Data as passport stamps
- Self-describing
- Export overhead
- Configuration overhead
- Forwarding
  - performance impact
- Packet size inflation
- Encapsulation
- Security
- Drop awareness & localization

- Instruction
- Data
- User packet

e.g., IOAM
Postcard-based On-path Flow Data Telemetry: PBT-M

- Forwarding performance impact
- Packet size inflation
- Encapsulation
- Security
- Drop localization
- Data correlation
- Export overhead
- Configuration overhead

Data as postcards

Instruction
Data
User packet

Data correlation
Export overhead
Configuration overhead

Forwarding performance impact
Packet size inflation
Encapsulation
Security
Drop localization
Postcard-based On-path Flow Data Telemetry: IOAM DEX

- Forwarding performance impact
- Packet size inflation
- Encapsulation
- Security
- Drop localization
- Data correlation
- Export overhead
- Configuration overhead

Data as postcards

Postcard INT (PBT-I)
Next Steps

- Request for WG adoption