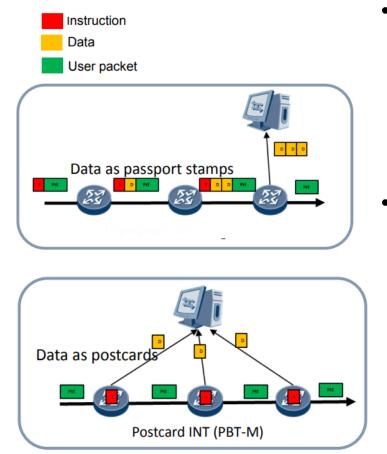
Postcard-based On-Path Flow Data Telemetry

(draft-song-ippm-postcard-based-telemetry-04)

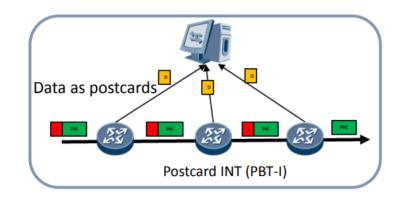
Haoyu Song (Futurewei) Tianran Zhou, Zhenbin Li (Huawei) Jongyoon Shin (SK Telecom) Kyungtae Lee (LG U+)

Passport and Postcard



Applied and implemented in <u>draft-zhou-ippm-enhanced-alternate-marking</u>

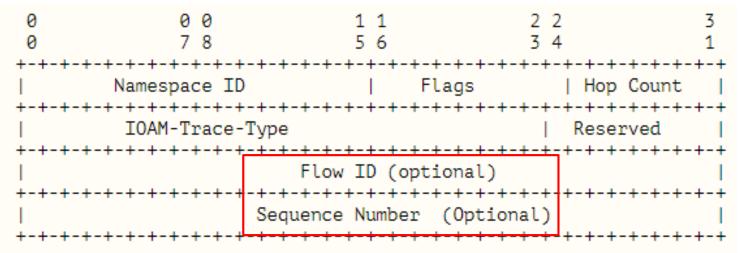
- Tradeoffs
 - Performance Impact
 - Encapsulation and Overhead
 - Security
 - Configuration and correlation
 - Drop location identification
- Postcard-based telemetry solutions and implementation considerations



IOAM is discussing on how to apply

PBT-I As An IOAM Option

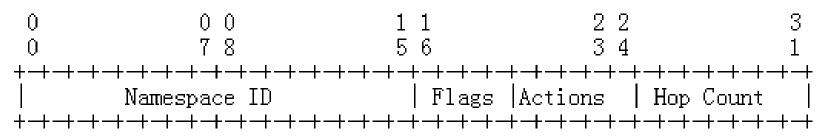
- Agreed in the side meeting and mailing list that define PBT-I as an IOAM option is a workable path forward.
- Closed the discussion on flow id and sequence number
- Agreed on the following option header as the starting point.
- Hackathon implemented this option in physical devices, and showed the analytics based on the postcard data.



Per-Hop Postcard (PHP) header

Discuss Actions

- Actions to indicate how to use the data.
- Propose to allocate 5 bits from the flags for actions.



- Proposed actions:
 - Bit 0: Queue depth exceed watermark for ECN. (IFA)
 - Bit 1: Queue depth exceed watermark for PFC. (IFA)
 - Bit 2: Resident delay breach. (IFA)
 - Bit 3: log (Ron)
- Send telemetry(packet), send ICMP should be data types.

Next

- Spin out the new IOAM option as a dedicated draft.
- Well discussed
- WG adoption

Thanks