# Export User Flow Telemetry Data by Postcard Packets

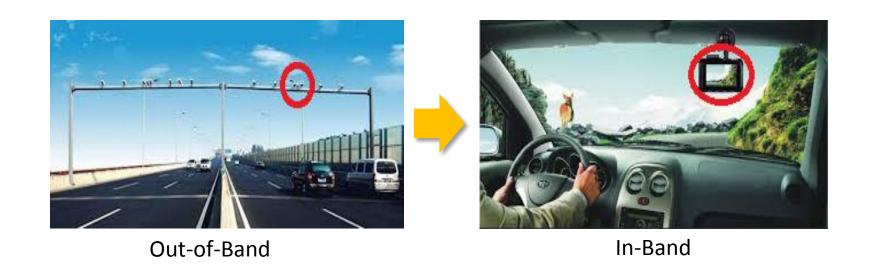
draft-song-ippm-postcard-based-telemetry-00

Haoyu Song

Tianran Zhou

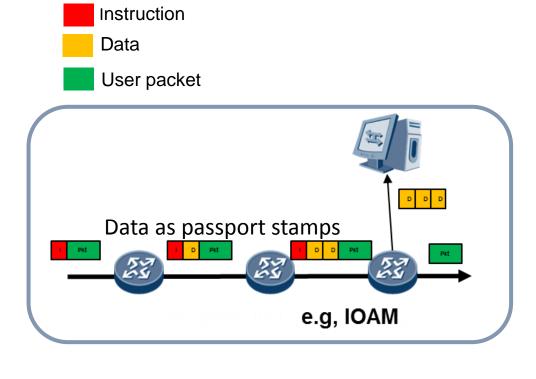
Zhenbin Li

## Data Plane Telemetry



In-band Network Telemetry (INT) is a direct and accurate way to understand user traffic's real network behavior and experience

## Passport-based INT: IOAM



Forwarding performance impact

Packet size inflation

Encapsulation

Security

Drop localization

Self-describing

Export overhead

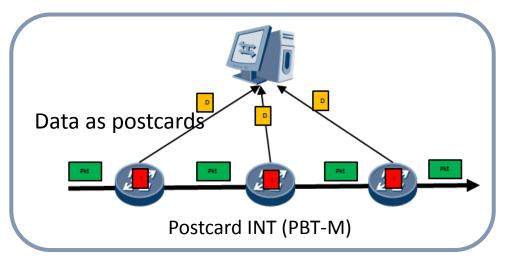
Configuration overhead

### Postcard-based INT: PBT-M

Instruction

Data

User packet



Forwarding performance impact

Packet size inflation

Encapsulation

Security

Drop localization

Data correlation

Export overhead

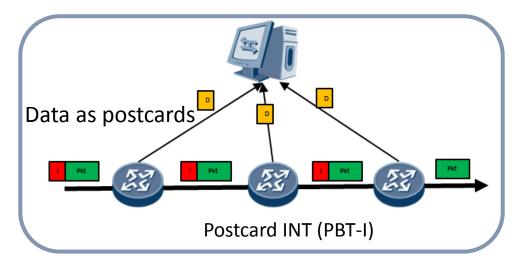
Configuration overhead

### Postcard-based INT: PBT-I

Instruction

Data

User packet



Forwarding performance impact

Packet size inflation

Encapsulation

Security

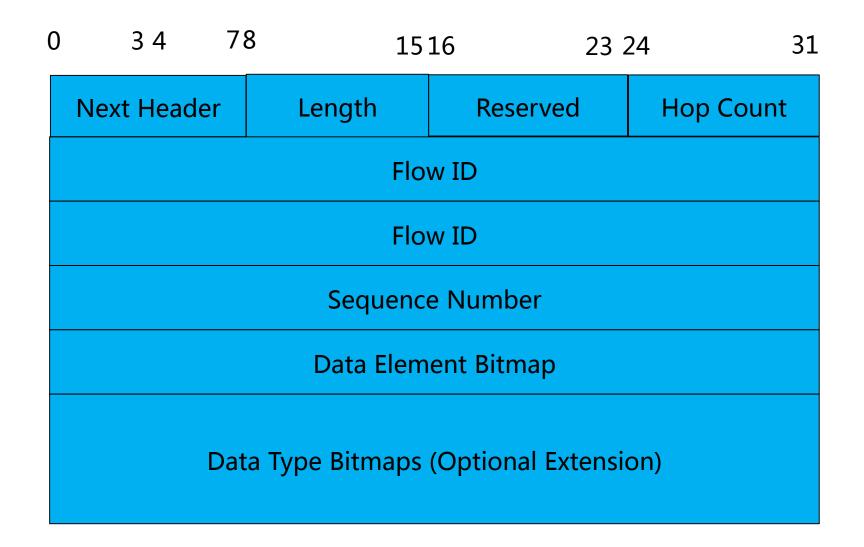
Drop localization

Data correlation

Export overhead

Configuration overhead

#### PBT-I Instruction Header Format



## Next Steps

- Collect feedbacks for revision
- Demonstrate PBT prototype