# In-situ Flow Information Telemetry (iFIT) Framework

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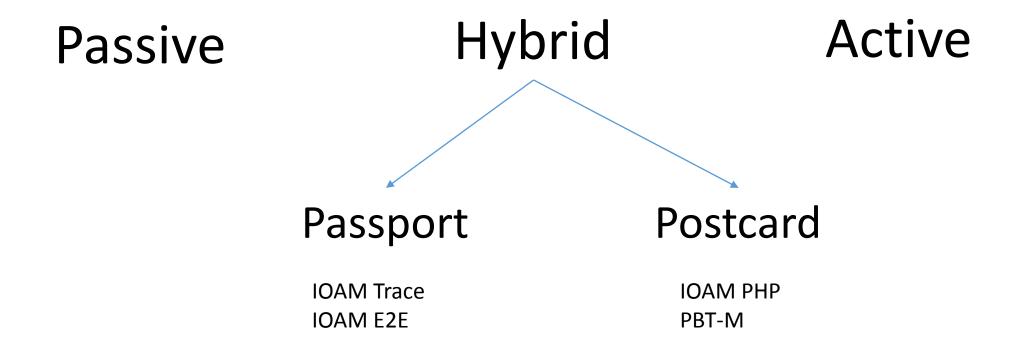
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#### Motivation

- Clarify the terms and underlying techniques for data plane on-path telemetry
- Present a framework that addresses the practical implementation and deployment challenges
- Identify the open issues and directions for related standard development

## On-path Data Plane Telemetry Techniques



# Challenges for Deployment in Carrier Networks

- Performance
  - Forwarding impact due to packet processing
  - Bandwidth and server overload due to exported data
- Limited data flexibility and extensibility
- Deployment issues
  - Encapsulation
  - Tunnel

### iFIT Solution Framework

Smart Flow/Data Selection Performance **Export Data Reduction** Deployability **Encapsulation & Tunnel Modes** Flexibility Dynamic Network Probe

## Discussion & Next Steps

- Collect feedbacks
  - What other challenges for carrier network data plane telemetry?
  - What other suggestions to make the framework more complete?