# Network Telemetry Framework

draft-song-opsawg-ntf-01

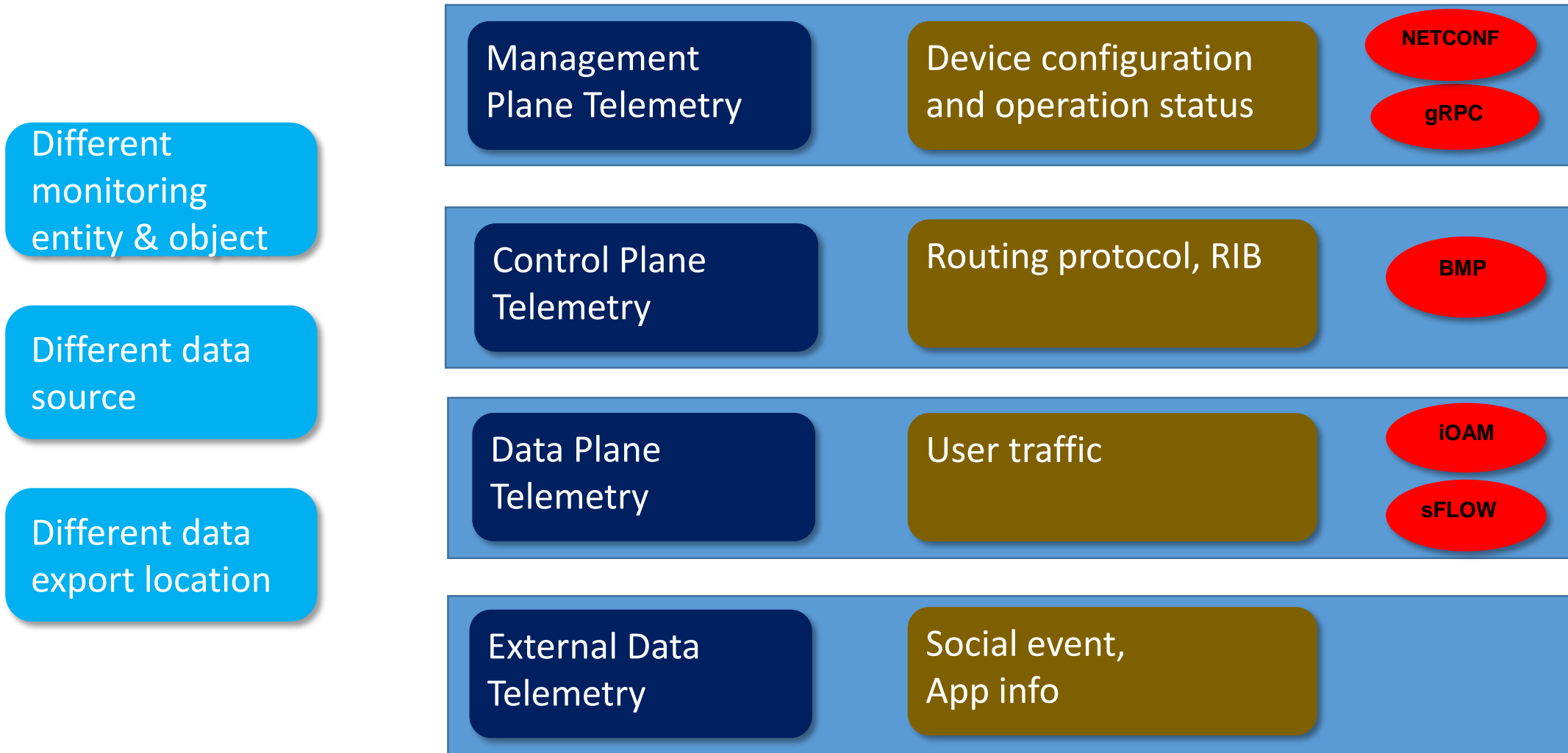Haoyu Song, Tianran Zhou, Zhenbin Li (Huawei)

Zhenqiang Li (China Mobile)

Pedro Martinez-Julia (NICT)

Laurent Ciavaglia (Nokia)

Aijun Wang (China Telecom)

# Recap the Network Telemetry Framework

Different monitoring entity & object

Different data source

Different data export location

| Management Plane Telemetry | Device configuration and operation status | NETCONF gRPC |

| Control Plane Telemetry | Routing protocol, RIB | BMP |

| Data Plane Telemetry | User traffic | iOAM sFLOW |

| External Data Telemetry | Social event, App info | |

# Clarify the Purpose and Scope of the Draft

- Show the trend and clarify misunderstandings
    - Not only for management plane, but also for control plane and data plane
    - Not only for data export (e.g., streaming), but also for data generation, processing, encoding, storage, and analysis
- Map existing protocols/techniques and identify challenges/gaps
- Not mean to deprecate conventional OAM, but to complement it and  enhance network visibility and operation
    - Acknowledge that protocol/technique is also evolving

# What's new

- Revise and restructure based on comments and suggestions from Adrian Farrel, Randy Presuhn, Uri Blumenthal, Daniel King, Joe Clarke, and many others
  - Add a new introduction section
  - SNMP trap notification with two references
  - Interaction between different planes
  - Many other minor modifications
- Evolution of Network Telemetry System
  - Static $\rightarrow$ Dynamic $\rightarrow$ Interactive $\rightarrow$ Closed-loop

# Discussion and Next Steps

- Discussion
  - Is this work useful?
  - What need to be modified or corrected?
  - What else need to be included?
- TBD
  - Security considerations
- Call for WG adoption