

# INT Management Architecture: ONOS INT Service and XDP

Jonghwan Hyun, Tu Van Nguyen, James Won-Ki Hong (ONF, POSTECH)

## Open-source implementation of INT management architecture

- ONOS INT Service
  - ONOS service to control INT-capable devices
  - Define a network-level API to orchestrate the generation and collection process of telemetry data
  - Expose common interface for both P4-capable and non-P4-capable devices
- INT Collector: XDP with Prometheus
  - XDP: Processes INT reports at the lowest level of the kernel
  - Sends only useful information to the monitoring server
    - e.g., network events, traffic statistic
  - Supports Prometheus and InfluxDB as a monitoring server

