## SDN-Based Security Services using I2NSF

(draft-jeong-i2nsf-sdn-security-services-05)





Jaehoon Paul Jeong, H. Kim, J. Park, T. Ahn, and S. Lee.

ETRIKT

Proof of Concept by IETF-97 Hackathon **I2NSF** User **Consumer-Facing Interface** (RestAPI) **I2NSF Security Controller** Framework High-Level Policy → Low-Level Policy (NETCONF/YANG) **NSF-Facing Interface NSFs** (Firewall, DPI) (Restconf) **Software-Switch Controller Defined** (OpenFlow) alialia **Network** CISCO Switch<sub>1</sub> (SDN) Switch<sub>2</sub> Incoming packets Incoming packets **TP-LINK** Switch<sub>3</sub>

## **Plan and Next Step**

- This draft will be merged into the Draft of I2NSF Problem Statement and Use Cases (draft-ietf-i2nsf-problem-and-use-cases-03)
  - As a use case of SDN networks using I2NSF.

- We will keep enhancing our IETF-97 I2NSF Hackathon code by using
  - OpenStack,
  - Open vSwitch, and
  - OpenDaylight.