SDN-Based Security Services using I2NSF
(draft-jeong-i2nsf-sdn-security-services-05)

@IETF-97 I2NSF WG
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Proof of Concept by IETF-97 Hackathon

Security Controller

High-Level Policy → Low-Level Policy

Security Function

Switch Controller

NSFs
(Firewall, DPI)

I2NSF User

Consumer-Facing Interface (RestAPI)

NSF-Facing Interface (NETCONF/YANG)

Switch 1
Switch 2
Switch 3

(I2NSF Framework)

Software-Defined Network (SDN)

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Software-Defined Network (SDN)
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.