

IETF-106 Hackathon for I2NSF Framework

**IETF-106, Singapore
Nov. 16-17, 2019**



Introduction (1/2)

Goals of IETF-106 I2NSF Hackathon

1. Previous Implementation of the I2NSF Framework for NSF in OpenStack Environment with
 - ✓ Registration Interface via NETCONF/YANG
 - ✓ Consumer-Facing Interface via RESTCONF/YANG
 - ✓ NSF-Facing Interface via NETCONF/YANG
 - ✓ Security Policy Translation in Security Controller
2. I2NSF NSF Monitoring in IETF-106 Hackathon
 - ✓ NSF Monitoring between NSFs and Security Controller via NETCONF/YANG

Introduction (2/2)

Build Environment

1. OS

- Ubuntu 18.04 LTS



2. ConfD

- 6.6 Version



3. OpenStack

- Mitaka

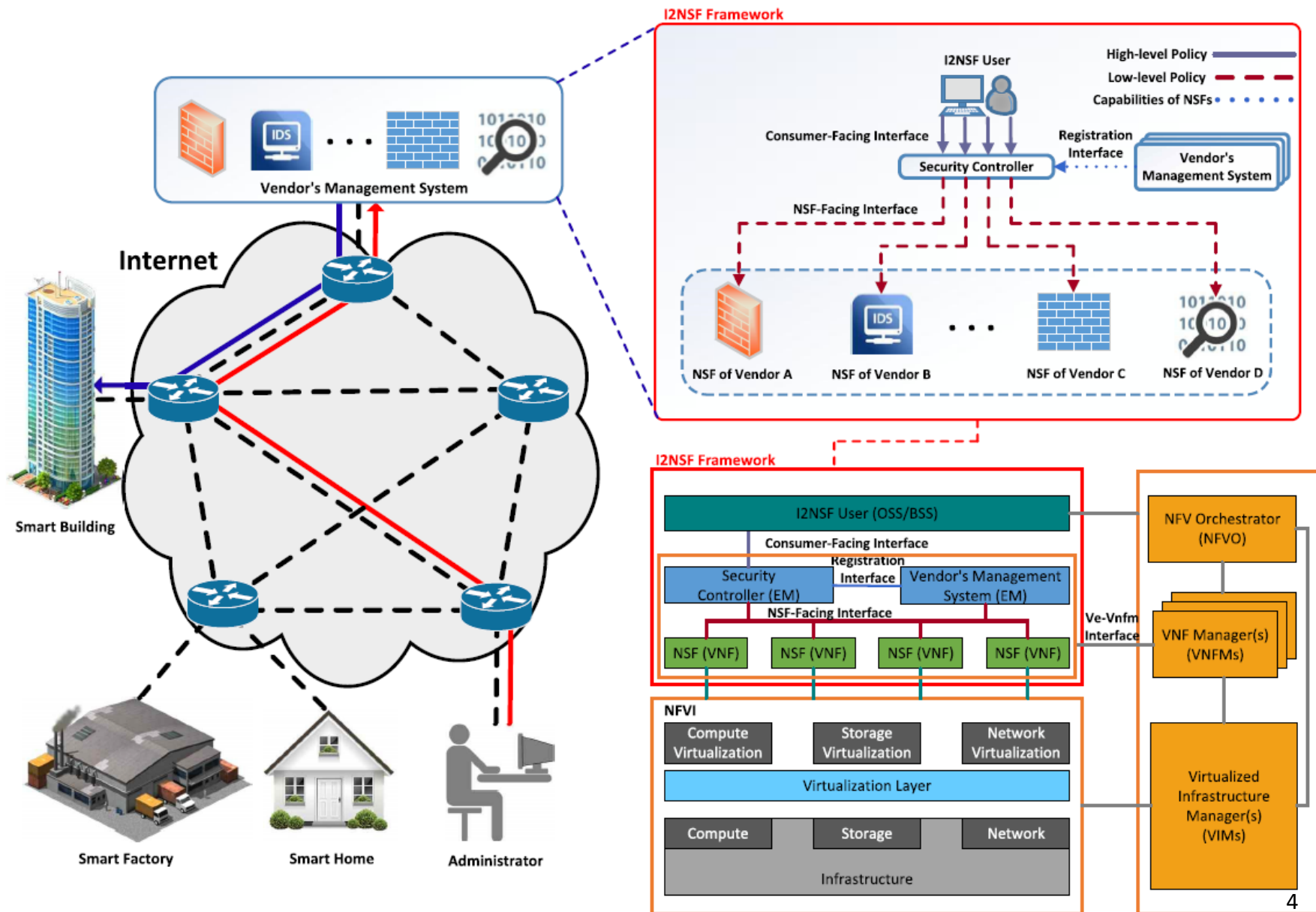


4. Suricata

- 3.2.1 RELEASE

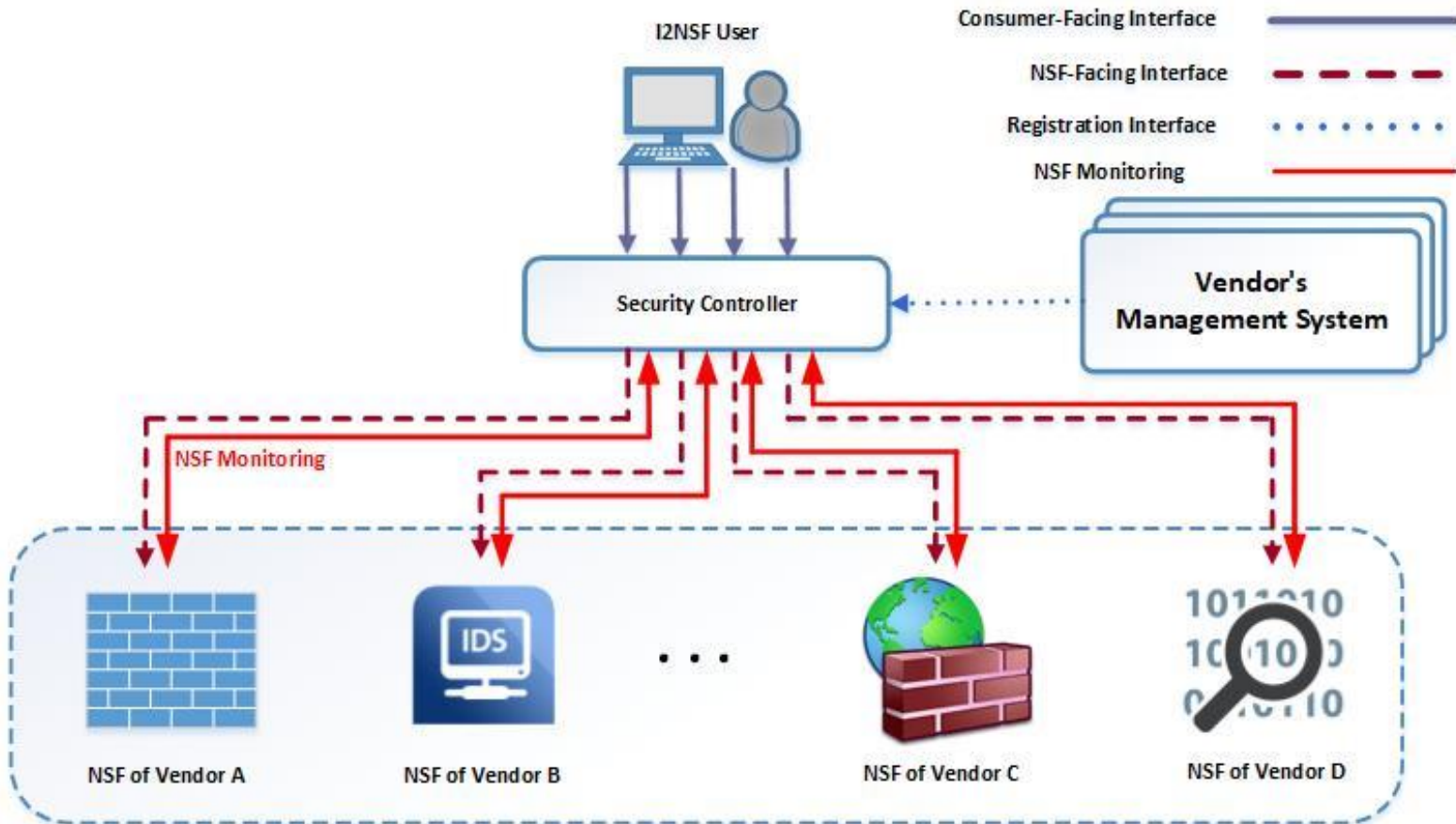


I2NSF System using NSF Framework



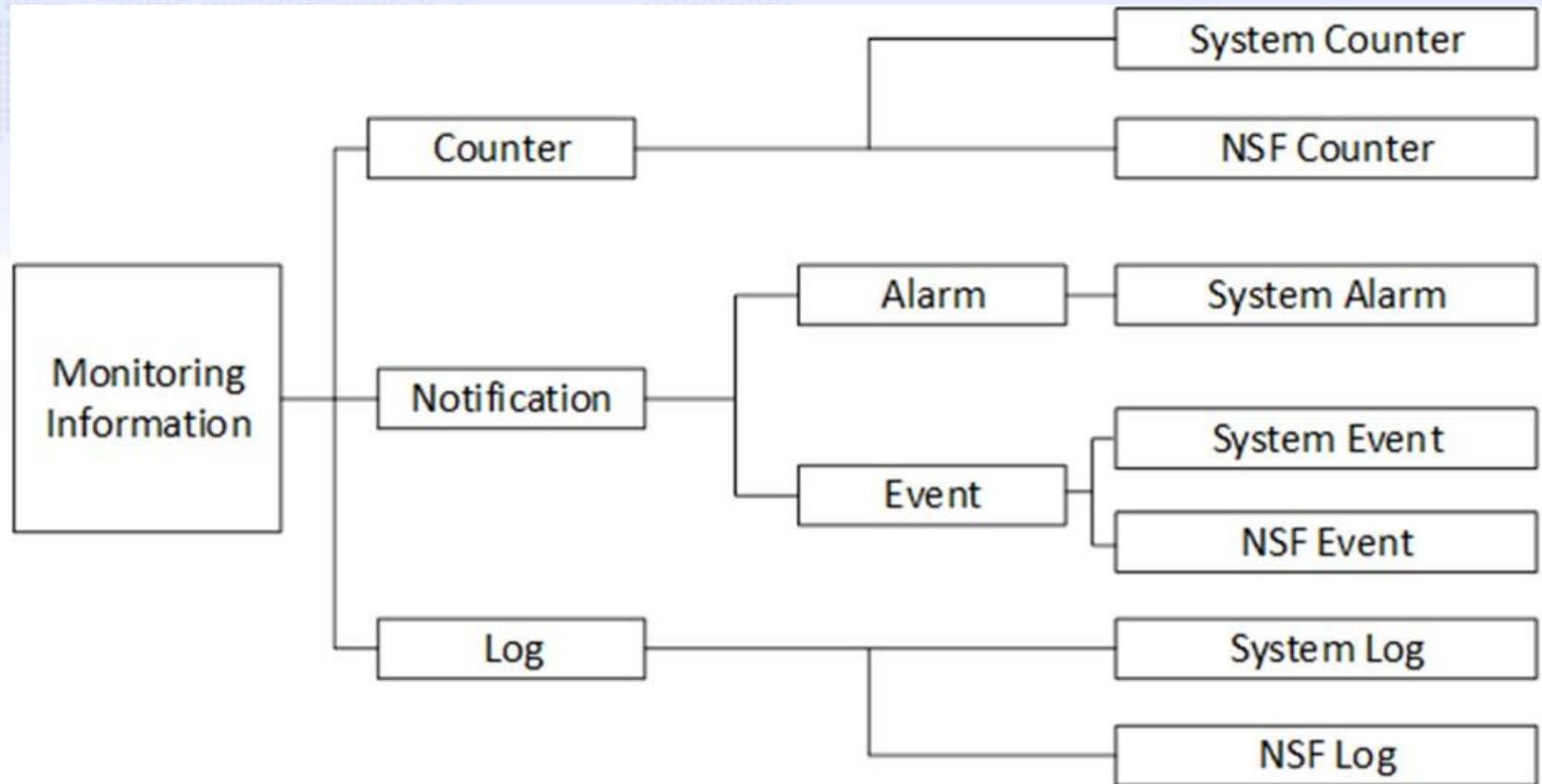
Implementation of I2NSF Hackathon Project (1/2)

I2NSF Framework



1. Application of I2NSF Monitoring (on going)

Implementation of I2NSF Hackathon Project (2/2)



2. NSF Monitoring Data Model

<https://tools.ietf.org/html/draft-ietf-i2nsf-nsf-monitoring-data-model-02>

Lessons from IETF-106 Hackathon

- **Proof of Concept (POC) of I2NSF Framework**
 - I2NSF Interfaces (Consumer-Facing, NSF-Facing, and Registration Interface)
 - I2NSF Security Policy Translator

- **Direction of NSF Monitoring Implementation**
 - Application of I2NSF NSF Monitoring
 - We got the direction of implementation of NSF Monitoring.
 - This is the last-piece Data Model draft in I2NSF's current charter.