#### NSF-triggered Traffic Steering in I2NSF Framework (draft-hyun-i2nsf-nsf-triggered-steering-01)



SUNG KYUN KWAN Z

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S. Hyun, S. Woo, Y. Yeo, J. Jeong and J. Park











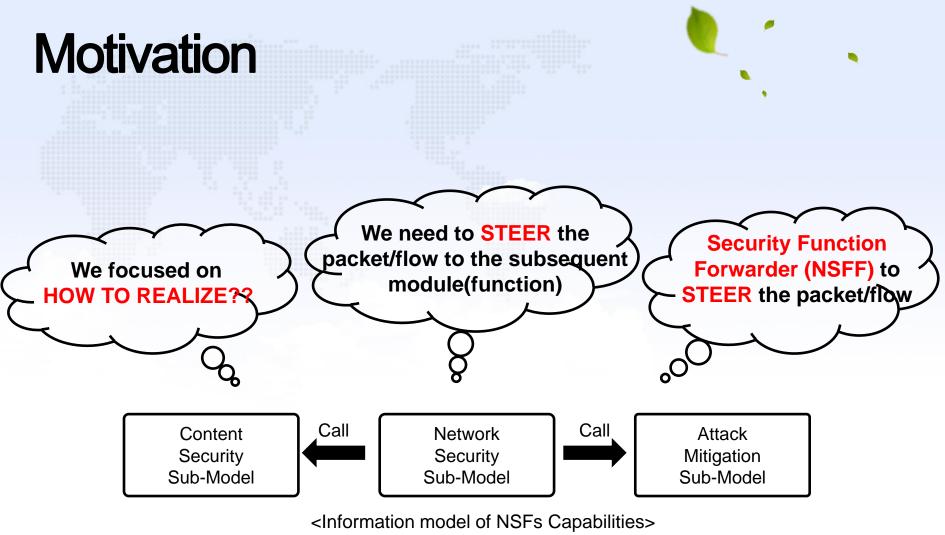






#### Introduction

- This document describes an architecture of the I2NSF framework to enable traffic steering between NSFs.
- Such traffic steering enables composite inspection of network traffic through various types of NSFs.
- It can also provide load balancing over NSF instances combined with dynamic NSF instantiation with NFV.
- Our traffic steering is based on NSF Capability Information Model.

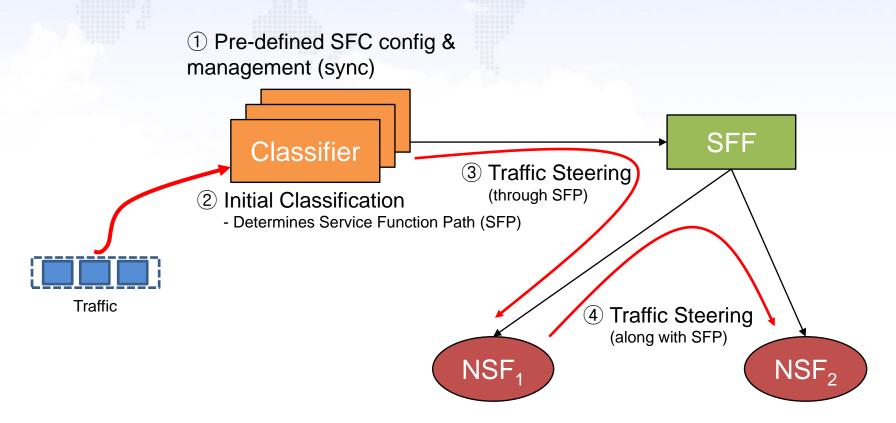


Reference: draft-xibassnez-i2nsf-capability-00

## Motivation

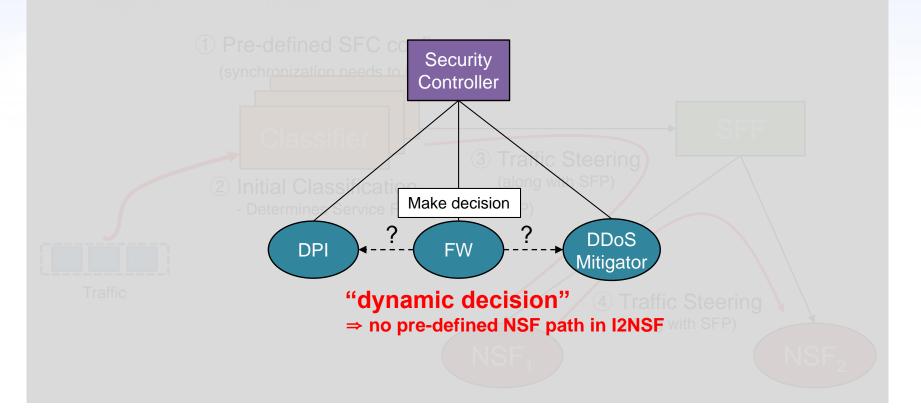


Existing Service Function Chain (SFC) Architecture
 In [draft-hyun-i2nsf-sfc-enabled-i2nsf-01], we integrated SFC arch into I2NSF framework.



### Motivation

In I2NSF framework: Information model for NSFs capabilities



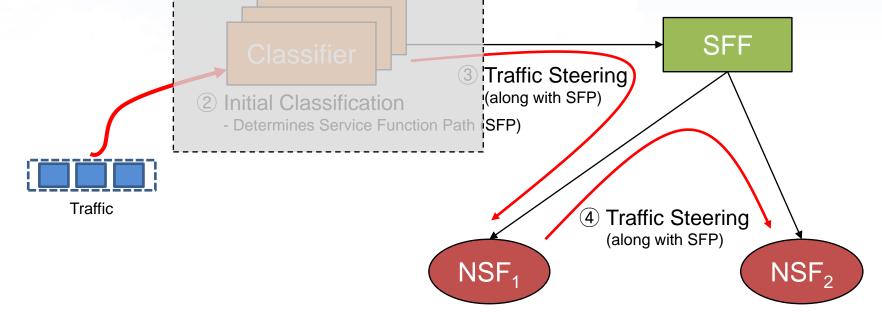
#### Motivation

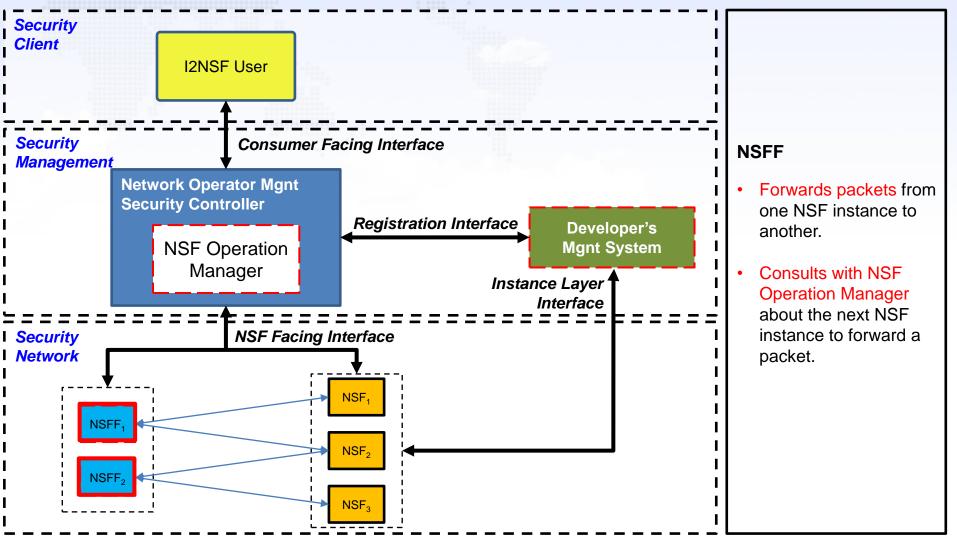


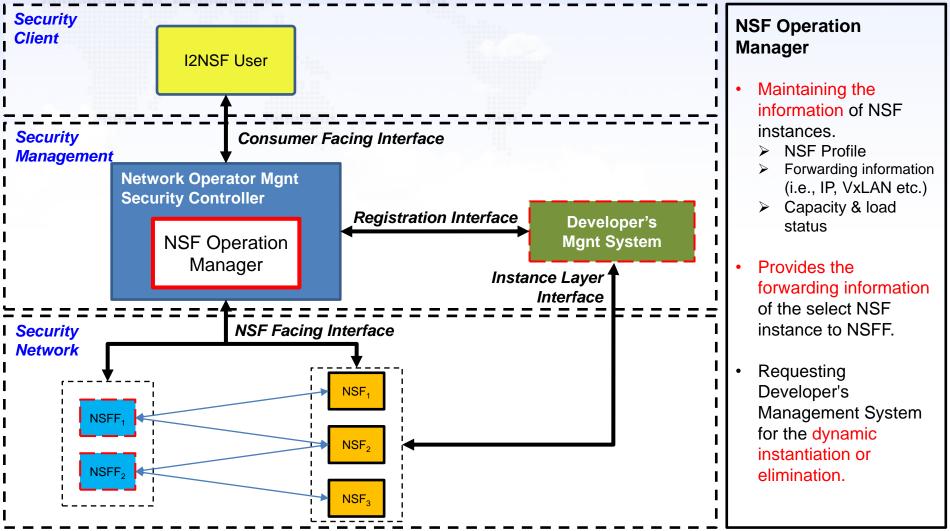
#### Can skip this part!!

1 Pre-defined SFC config

(synchronization needs to be provided)







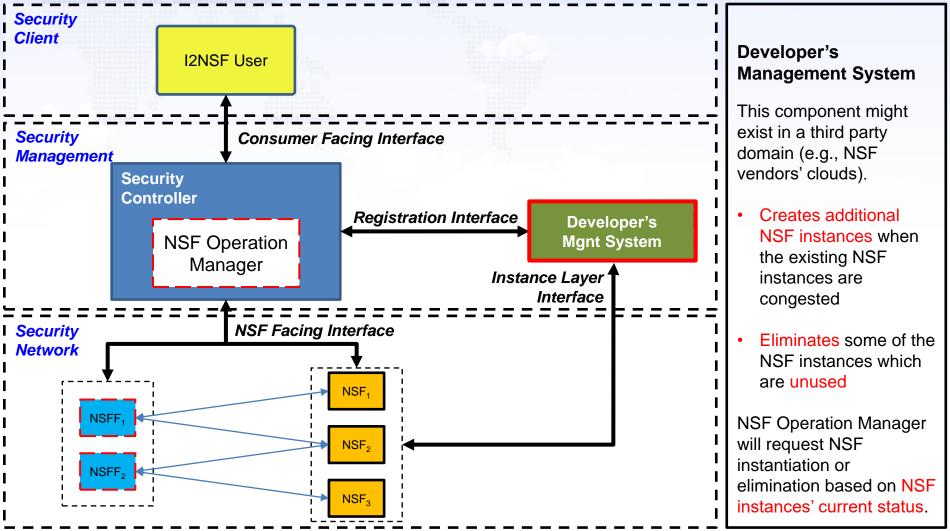
#### Summary & Next Step

Discussion on the existing SFC approach vs. Ours

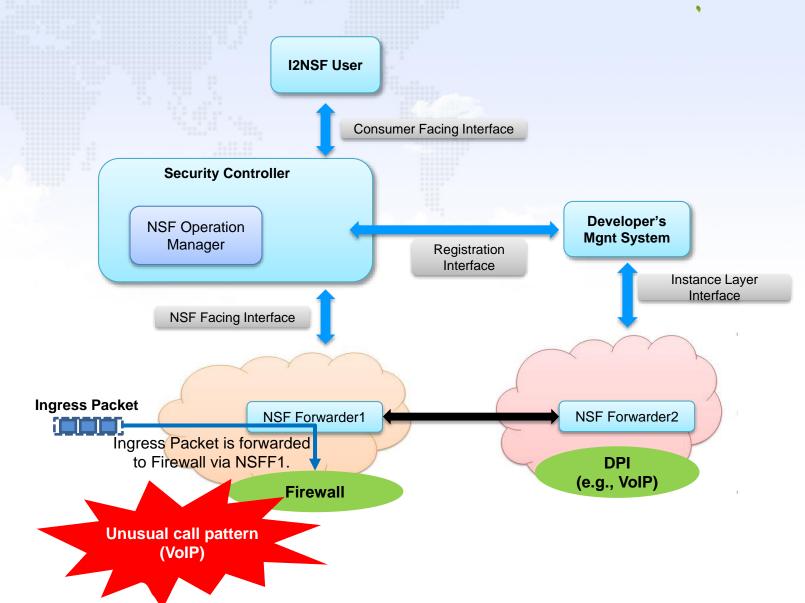
SFC Architecture-Friendly Approach	I2NSF Framework-Friendly New Proposal
<ul> <li>✓ Existing standard</li> <li>✓ Good for enforcing a static s ervice function path</li> </ul>	<ul> <li>✓ No pre-defined NSF path co nfiguration &amp; management</li> <li>✓ No classifier and initial class ification required</li> <li>✓ No re-classification required</li> </ul>

- We proved the feasibility of our NSF-triggered traffic steering in IETF-97 I2NSF Hackathon Project.
- We will design more details of information that should be exchanged
  - ✓ between NSFF and NSF Operation Manager and
  - ✓ between NSFF and NSF.

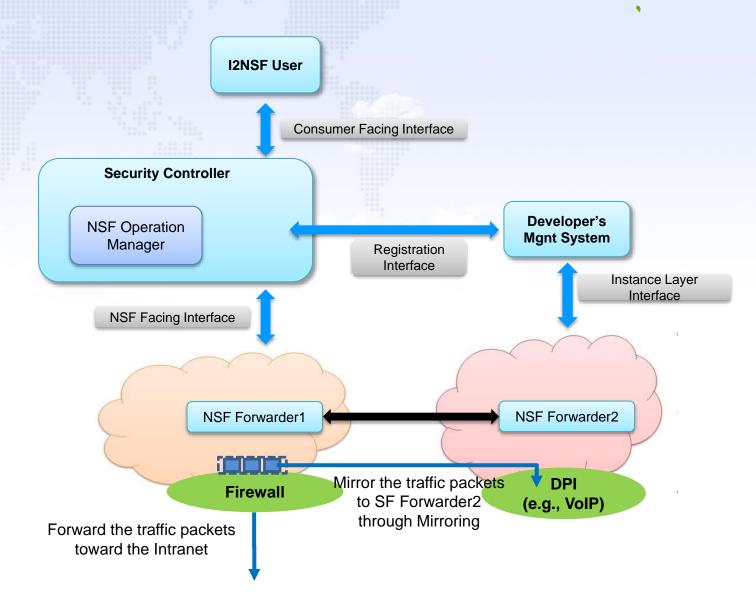
## Appendix



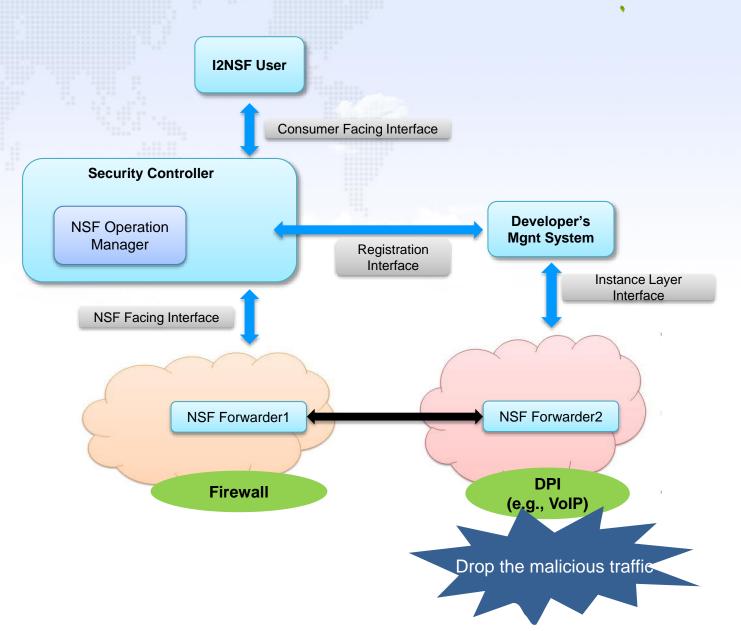
## Use Case of VoIP/VoLTE (1/4)



# Use Case of VoIP/VoLTE (2/4)



## Use Case of VoIP/VoLTE (3/4)



# Use Case of VoIP/VoLTE (4/4)

