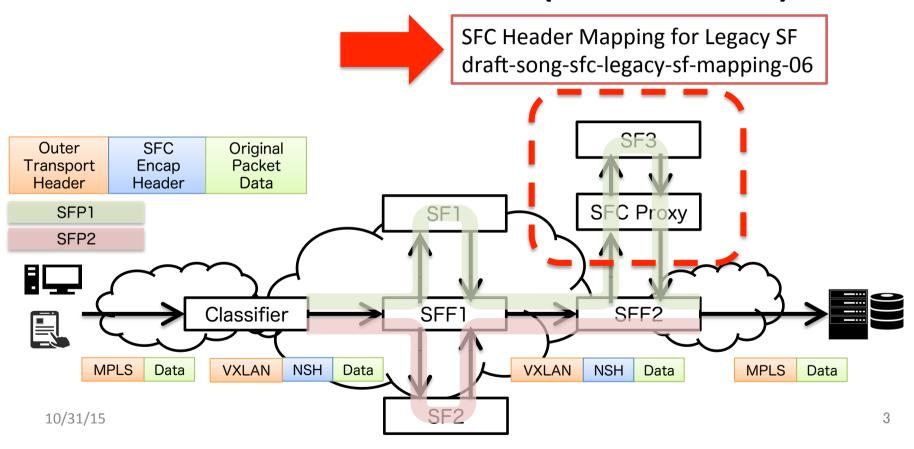
### IETF 94 SFC Hackathon Kick-off

Katsuhiro Horiba Next NSP Consortium

### Motivation

- NSH[1] aware SF is not available right now.
- To provide the SFC mechanism for Legacy SF, <u>SFC</u>
  <u>Proxy</u> is defined in SFC Architecture[2].
- The behavior of SFC Proxy is defined in SFC Header Mapping for Legacy SF[3].
- Now we need an implementation of SFC Proxy.
- [1] draft-ietf-sfc-nsh-01
- [2] RFC 7665
- [3] draft-song-sfc-legacy-sf-mapping-06

## SFC Architecture(RFC 7665)



### In this Hackason

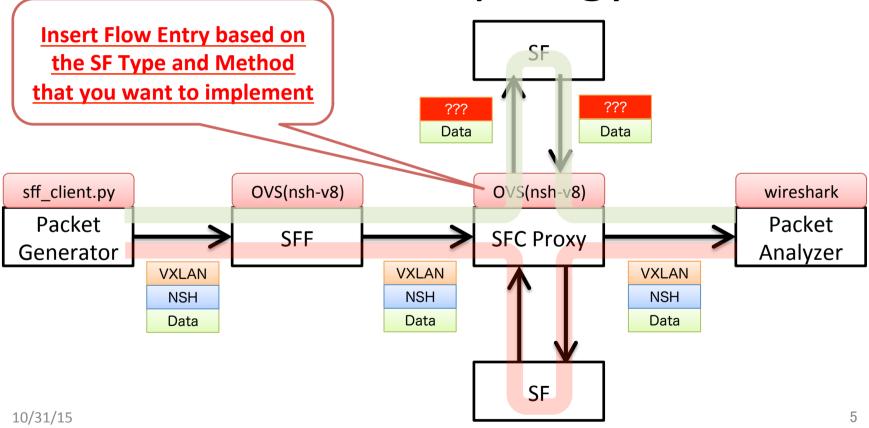
- 1. Discuss the most realistic situation from list
- 2. Pick up your project
- 3. Implement in OVS
- 4. Verify
- 5. Publish the result

SF Type	Methods
Transparent	MAC
	VLAN
	Q-in-Q
	VXLAN
	5-Tuple
Non Transparent	TBD

10/31/15

4

# Logical Topology



## **Developing Environment**

- We prepared github repository
  - https://github.com/toshirin/sfcpxy
  - You can download vagrant image(around 3GByte).
  - In venue, we'll provide this image via USB Memory.
- Champions help you
  - Katsuhiro Horiba <u>qoo@sfc.wide.ad.jp</u>
  - Toshiyuki Kubo <u>toshiyuki.kudo@alaxala.com</u>
  - Kengo Naito <u>k.naito@nttv6.jp</u>

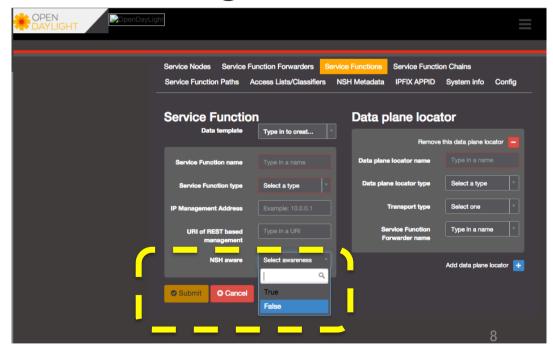
## **Important Links**

- Github to upload your work
  - https://github.com/toshirin/sfcpxy
- Documents
  - https://github.com/toshirin/sfcpxy/blob/master/sfc\_proxy.pdf
- RFC and Internet-Draft
  - https://tools.ietf.org/html/draft-song-sfc-legacy-sf-mapping-06
  - https://tools.ietf.org/html/rfc7665
  - https://tools.ietf.org/html/draft-ietf-sfc-nsh-01

### Extra Theme

OpenDayLight SFC Module Plugin

Deploy SFC Proxy
 when you deploy
 NSH unaware SF
 from ODL SFC.



#### Other Extra Themes

- NSH Metadata Support
- Performance Improvement
- IBN Support
  - draft-dolson-sfc-hierarchical