IETF 94 SFC Hackathon Kick-off

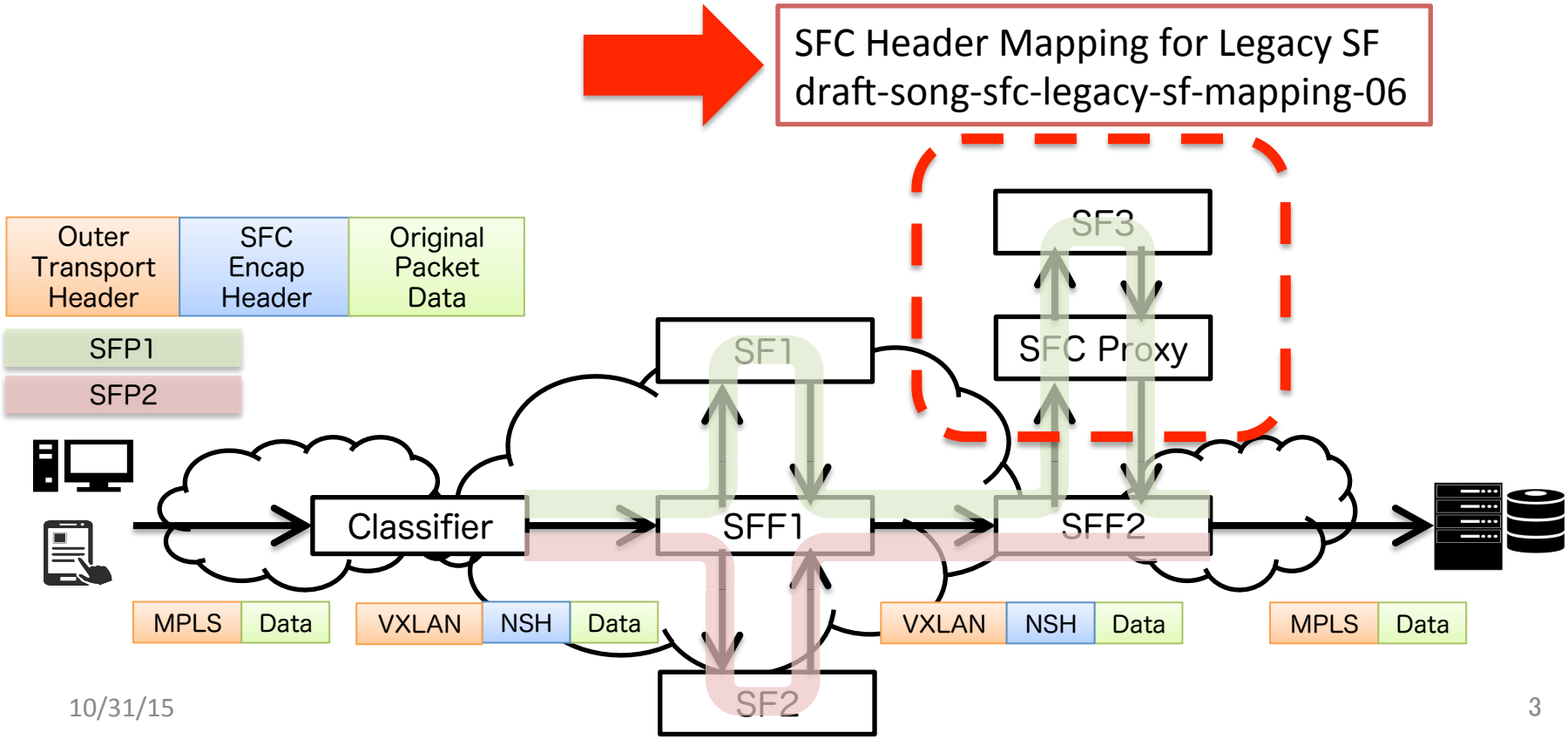
Katsuhiro Horiba
Next NSP Consortium

Motivation

- NSH[1] aware SF is not available right now.
- To provide the SFC mechanism for Legacy SF, **SFC Proxy** 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)



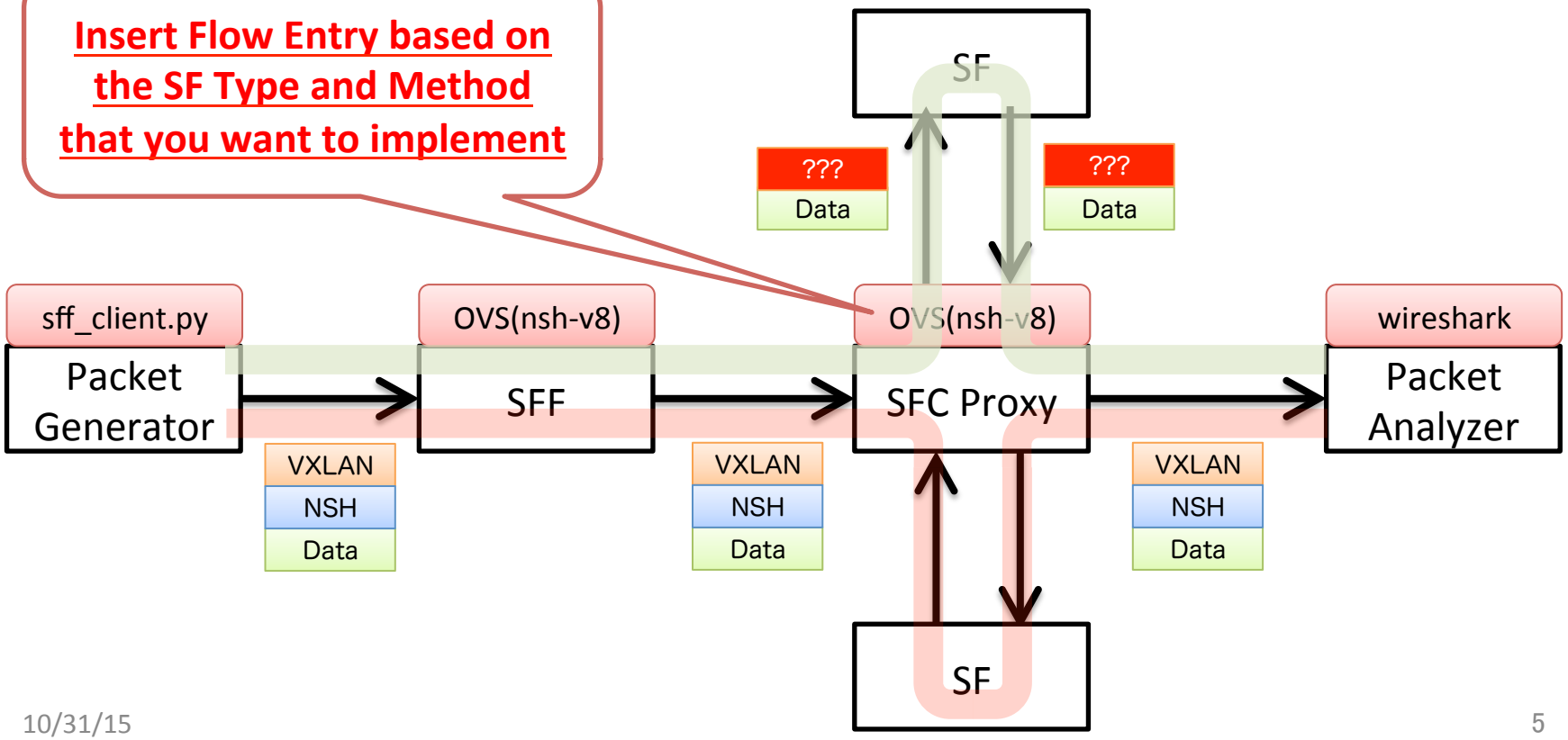
In this Hackason

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

SF Type classification by
draft-song-sfc-legacy-sf-mapping-06

Logical Topology



Developing Environment

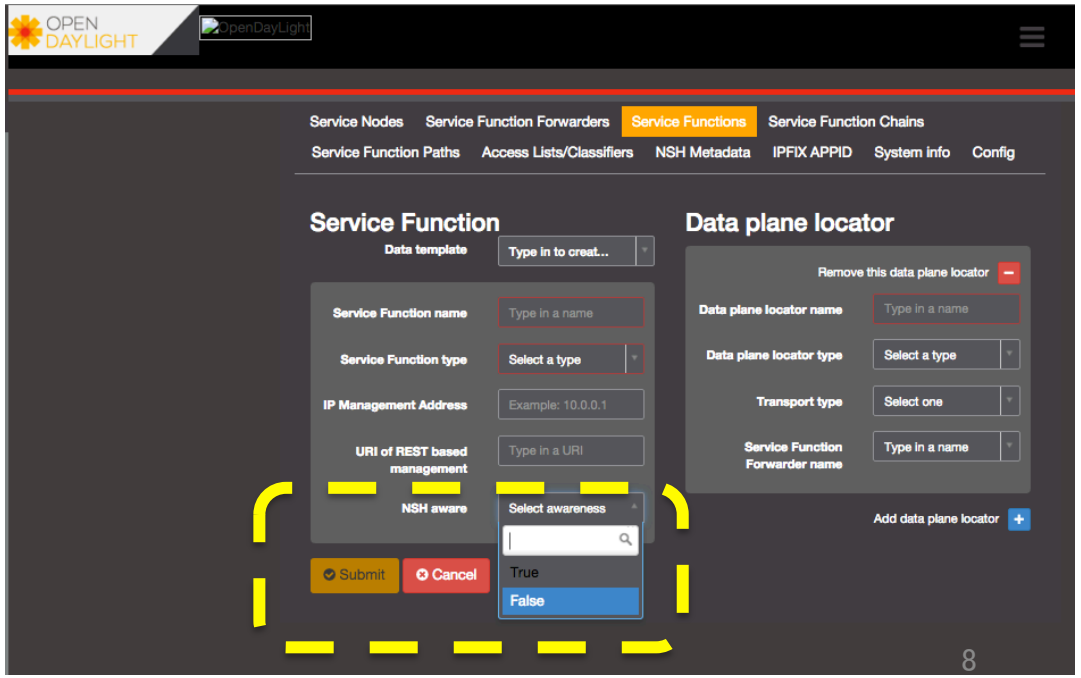
- We prepared github repository
  - https://github.com/toshirin/sfcpxy
  - You can download vagrant image(around 3GByte).
  - In venue, we'll provide this image via USB Memory.
- Champions help you
  - Katsuhiro Horiba qoo@sfc.wide.ad.jp
  - Toshiyuki Kubo toshiyuki.kudo@alaxala.net
  - Kengo Naito k.naito@nttv6.jp

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