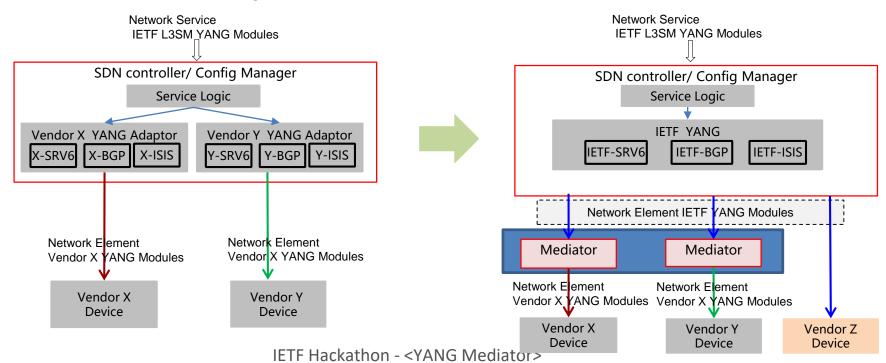
# SRv6 VPN YANG Mediator Hackathon

IETF 106
Nov. 16-17, 2019
Singapore



## Hackathon Plan

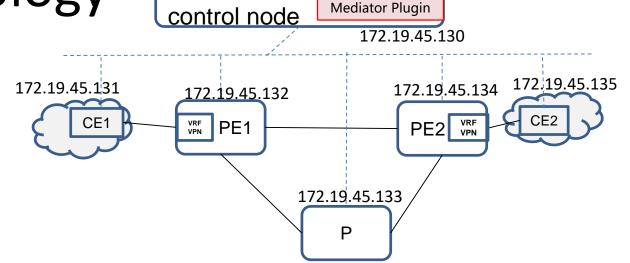
- YANG Mediator project assumption:
  - The SDN controller maps L3SM model to IETF SRv6 VPN device model
  - The SDN controller configures network devices via Mediator



# Network topology

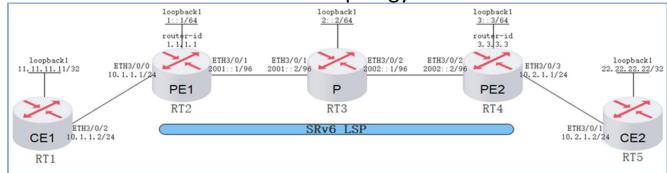
Assumption

 Each device contains some basic initial configuration to allow it be reachable from the Ansible control node with Mediator





Ansible



## Operational workflow

#### Steps

- CE configuration
  - Ip configuration
  - Interface configuration
- PE configuration
  - SRv6 Global Configuration
  - ISIS SRv6 Configuration
  - SRv6 VPN Configuration
- P configuration
  - SRv6 Global Configuration
  - ISIS SRv6 Configuration

#### **IETF** drafts:

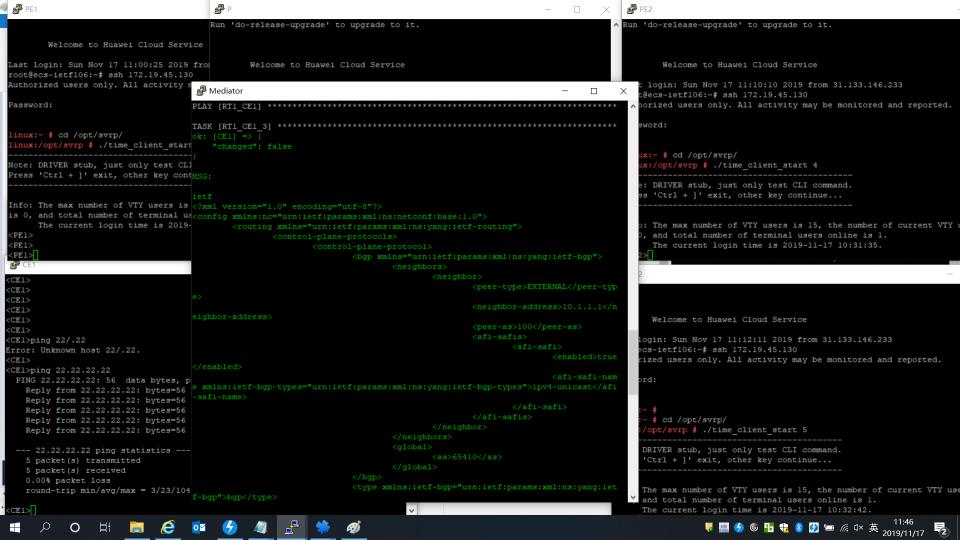
- a) https://tools.ietf.org/html/draft-raza-bess-srv6-services-yang-00
- b) https://tools.ietf.org/html/draft-hu-isis-srv6-yang-02
- c) https://tools.ietf.org/html/draft-ietf-bess-l3vpn-yang-03
- d) https://tools.ietf.org/html/draft-ietf-idr-bgp-model-07

#### **IETF YANG modules:**

- 1. iana-if-type.yang
- 2. ietf-inet-types.yang
- 3. ietf-interfaces.yang
- 4. ietf-ip.yang
- 5. ietf-network-instance.yang
- 6. ietf-routing.yang
- 7. ietf-bgp-l3vpn.yang
- 8. ietf-bgp-types.yang
- 9. ietf-bgp.yang
- 10. ietf-bgp-srv6-services.yang
- 11. ietf-isis.yang
- 12. ietf-isis-srv6.yang

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14. ietf-srv6-types.yang



## What We Learned

- Mediator is feasible to translate IETF standard model to native model, and could help IETF YANG to deploy in the actual network;
- Listen to feedback on modelling translation problem from OpenSource developers and users.
- Next step
  - SRv6 VPN network management operational verification
  - Other useful network service use cases

# Wrap Up

### Team members:

Guangying Zheng Weicheng Liu;

Huijun Dai;

Chong Feng;

Bo Wu

# Thanks!