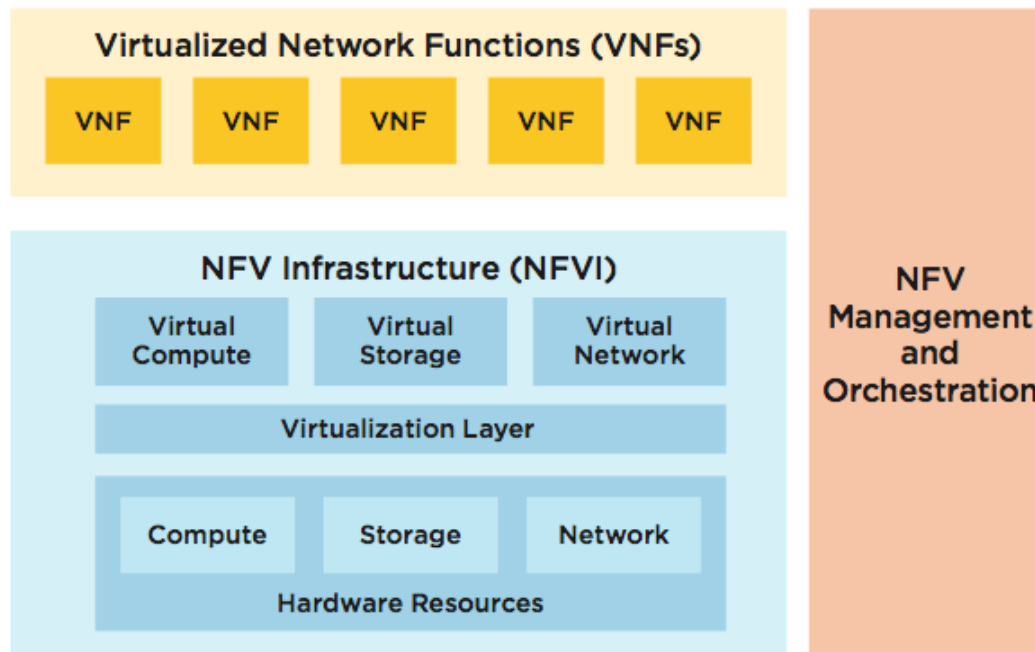# ONAP Short Overview

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**2019**

# What is ONAP

- ONAP is the platform above the infrastructure layer

- launched in 2017 by Linux Foundation with AT&T, China Mobile and other vendors

- merge of ECOMP and Open-O projects

- VNF/SDN solution

# What is a VNF?

- Service consist of VNFs which consist of VFs

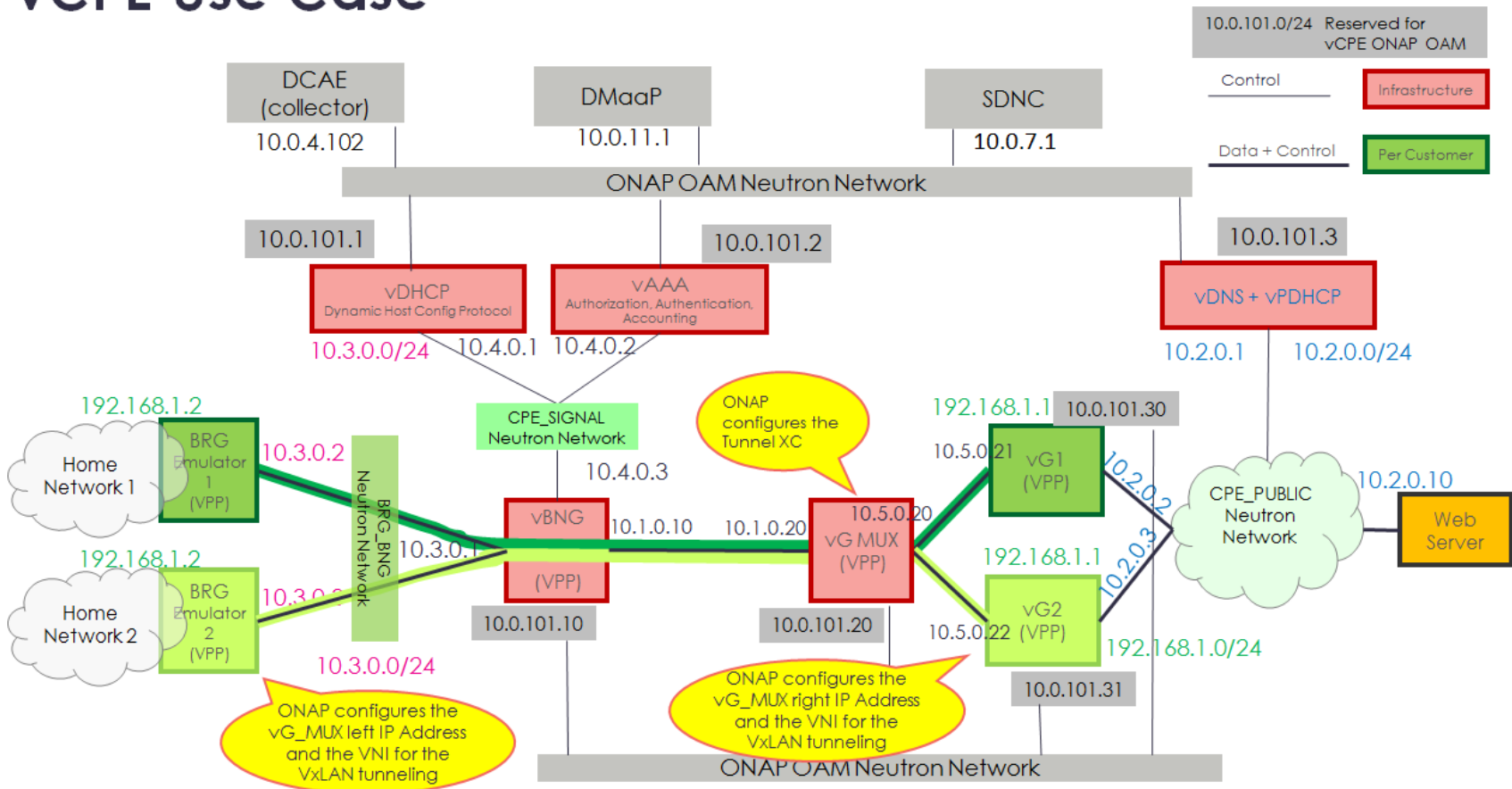- services modeled in TOSCA



HIGH LEVEL NFV FRAMEWORK

# Real-world example vCPE

- virtualizes connectivity and broadband services for enterprises and individuals

- Internet access, IPTV, VoIP

- routers, set-top boxes, VPNs, DHCPs, firewalls

- VNFs representing the network elements hosted at customer site or externally (e.g. cloud)

# Real-world example vCPE

# Design time environment

- VNF validation

- service design

- analytics

- policy (access control, affinity)

- workflows (business processed e.g. upgrades)
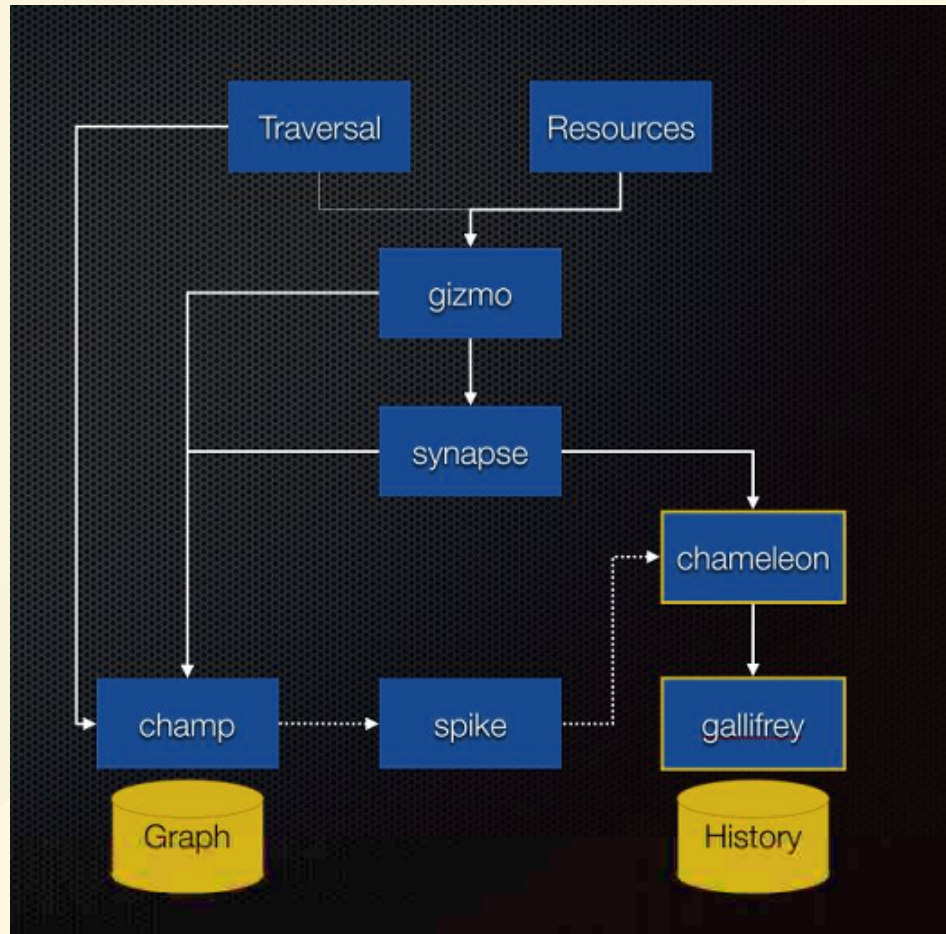
# Run time environment

- Service orchestration (mapping service <-> VNFs)

- VNF Controller (lifecycle of VNFs like deployment, configuration, self-healing, scaling)

- SDN Controller

- Data collection and analytics

- Inventory Storage

# ONAP architecture
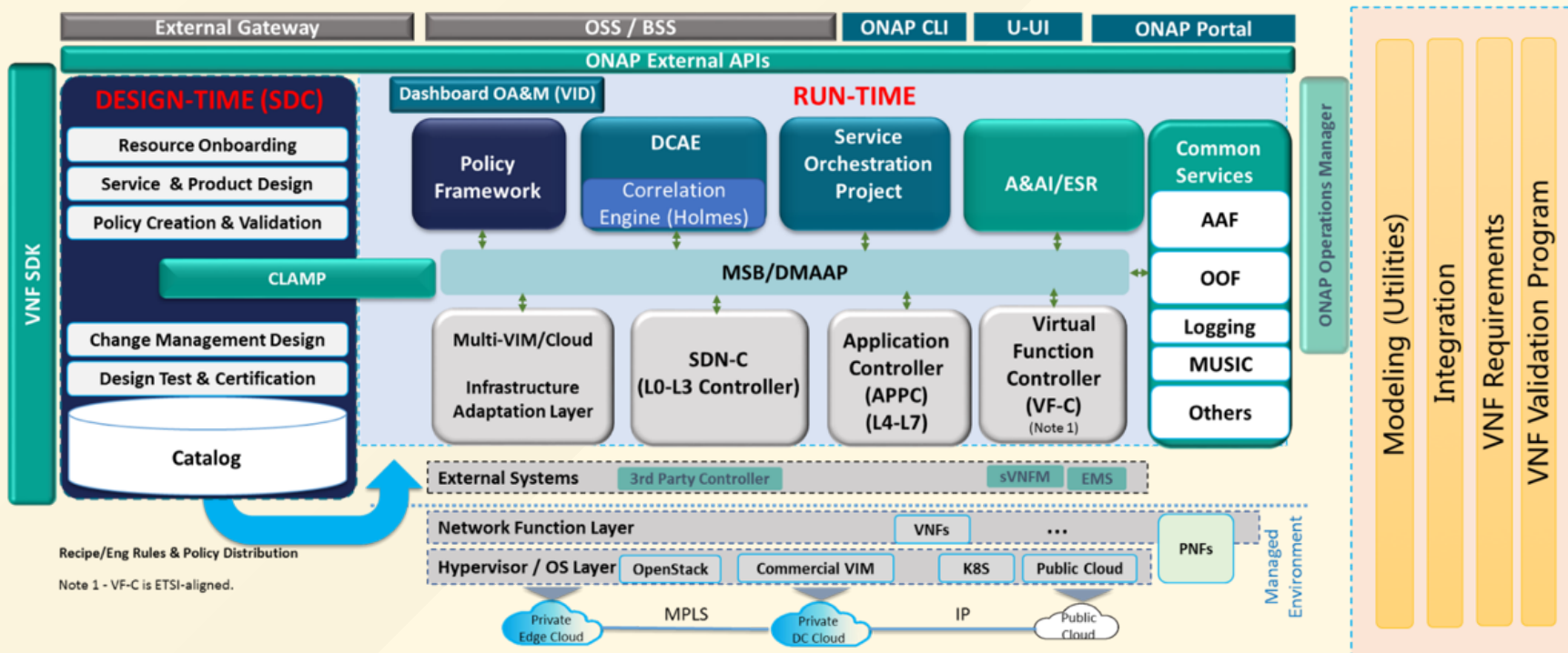
# Inventory system architecture

# Questions?