OPNFV — Open Platform for NFV OPNFV is a open source project that realizes carrier-grade, integrated platform for NFV. The OPNFV software platform is comprised of lot of projects and components related to NFV technologies.

The architectural framework consists of the following 4 components. enumerate

N etwork Functions Virtualization Infrastructure (NFVI): (NFVI) has hardware and software part. Hardware NFVI corresponds to physical hardware such as servers, storage and network hardware. Software NFVI has virtual compute component which provides datapath for running VMs such as KVM, virtual network such as OVS and virtual storage.

V irtual Infrastructure Management (VIM): (VIM) is in charge of managing infrastructure resources such as virtual compute and virtual storage. OpenStack, one of the largest open source projects in the world, is used as VIM in OPNFV. OpenStack itself is an umbrella project, containing numerous projects underneath. For example, Nova project for virtual compute service and Cinder project for virtual storage service are used in OpenStack.

N FV Management and Orchestration (MANO) : As the name indicates, MANO manages and orchestrate virtual compute, networking, storage and VM resources. MANO has the following two parts. enumerate

N FV Orchestrater: Responsible for loading new Network Services and monitoring its lifecycle, and global resource management. It is connected with VNF Manager, VIM and OSS/BSS (Operation Support System / Business Support System). OSS/BSS is an interface that service provider operates through.

V NF Manager: Monitors lifecycle of VNF. It is connected with VNF, VIM and MANO as well.