

Telenor 5G VINNI Network Slicing

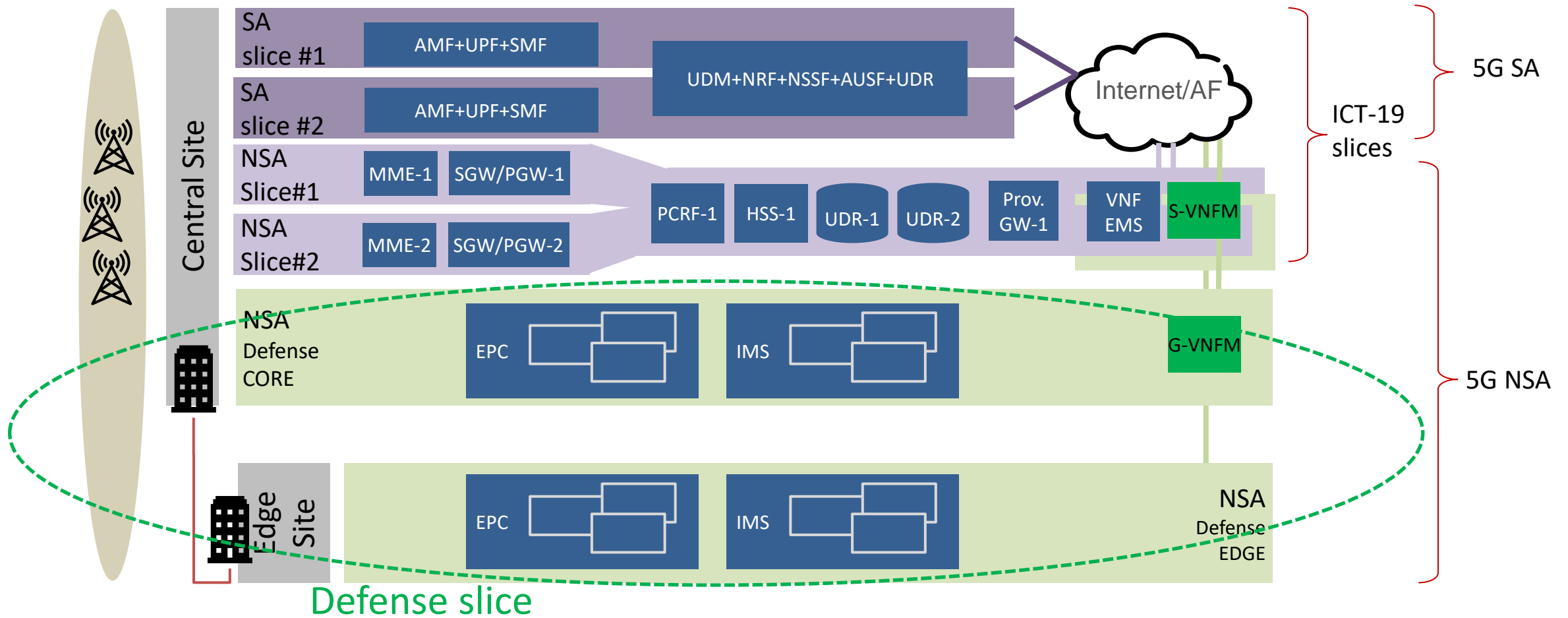
Antonios Dimitriadis (NOKIA)

Telco Cloud Solution Architect
Cloud and Network Services
Global Services - COS

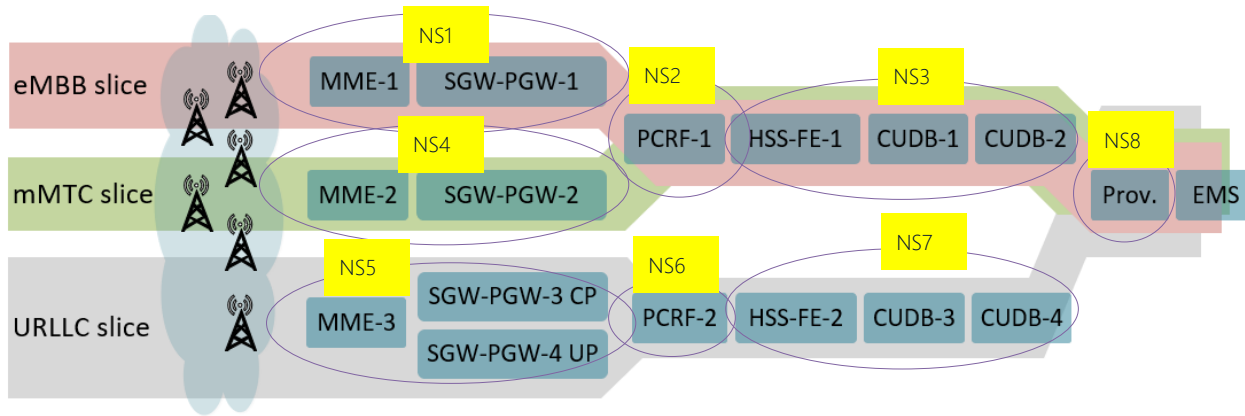
Tirthankar Ghosh (NOKIA)

Orchestration Solution Architect
Cloud and Network Services
Market Services – Digital Operations

Norway NSA and SA slices



Network Services and Slices mapping



NFVO View

NS1: MME-1, SGW-PGW-1

NS2: PCRF-1

NS3: HSS-FE-1, CUDB-1, CUDB-2

NS4: MME-2, SGW-PGW-2

NS5: MME-3, SGW-PGW-3 CP, SGW-PGW-4 UP

NS6: PCRF-2

NS7: HSS-FE-2, CUDB-3, CUDB-4

NS8: Provisioning GW

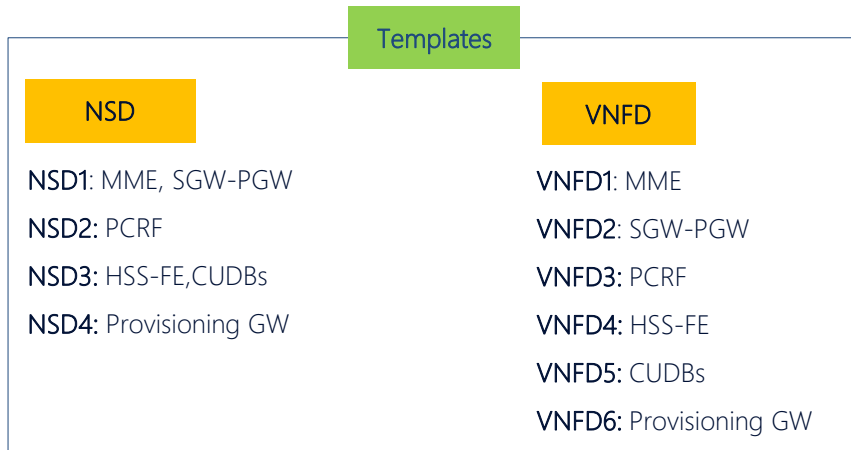
* ENM/EMS could be onboarded from VNFM only (management)

Service Orchestrator View

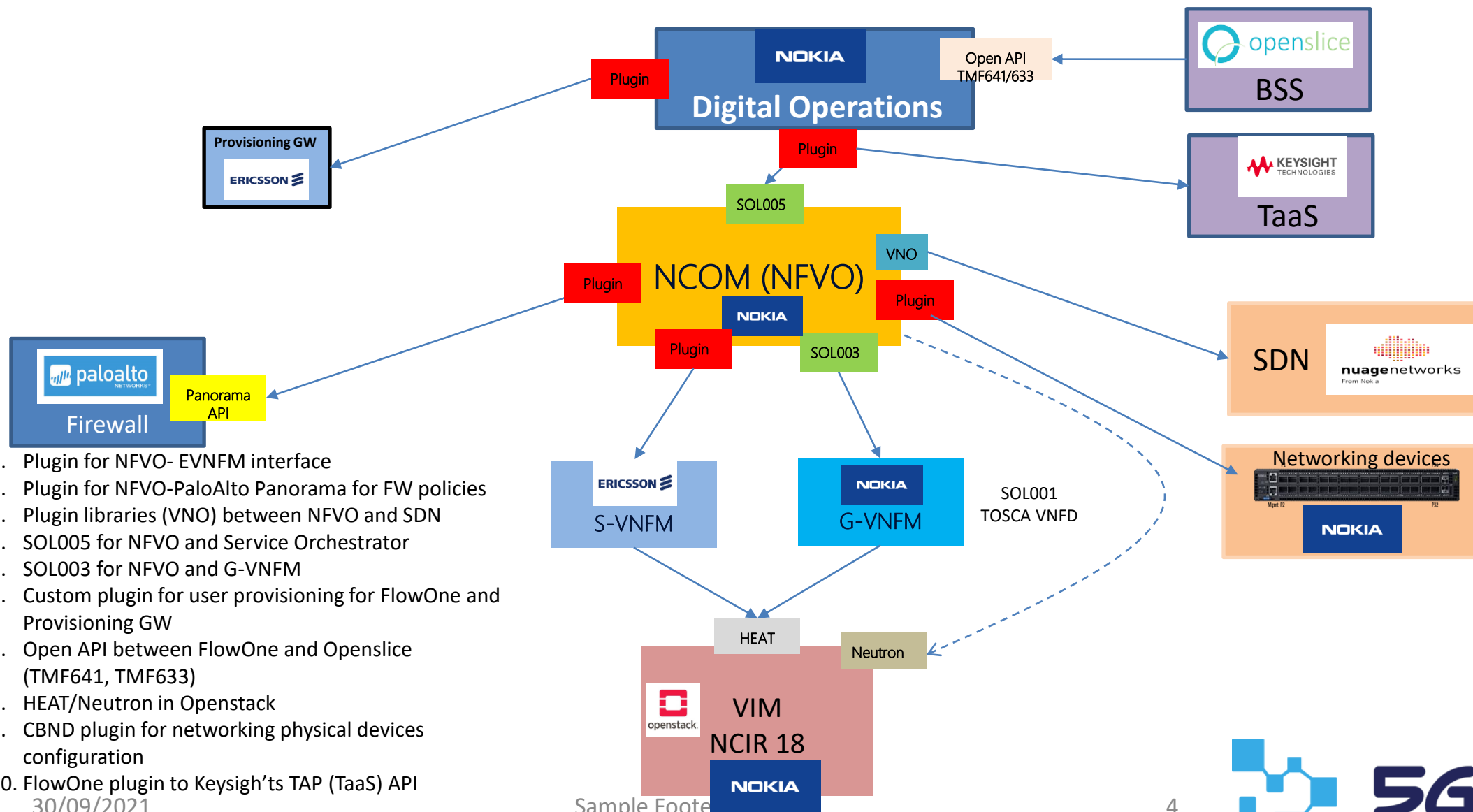
Slice_1: NS1+NS2+NS3+NS8

Slice_2: NS4+NS2+NS3+NS8

Slice_3: NS5+NS6+NS7+NS8



Automation and Interfaces | Multi-vendor

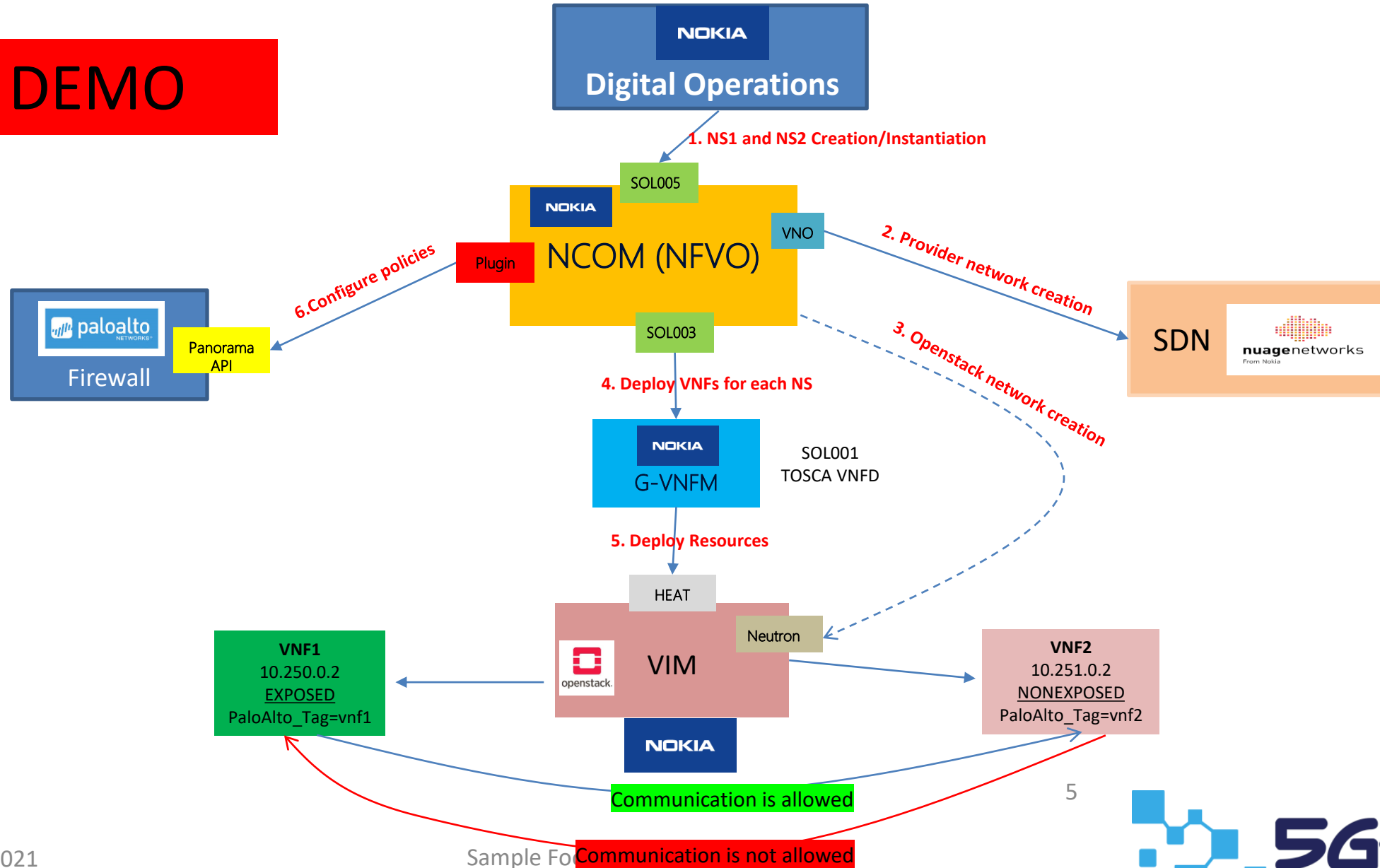


30/09/2021

Sample Foote

Deploy a slice with 2 Network Services (NS) in different security zones

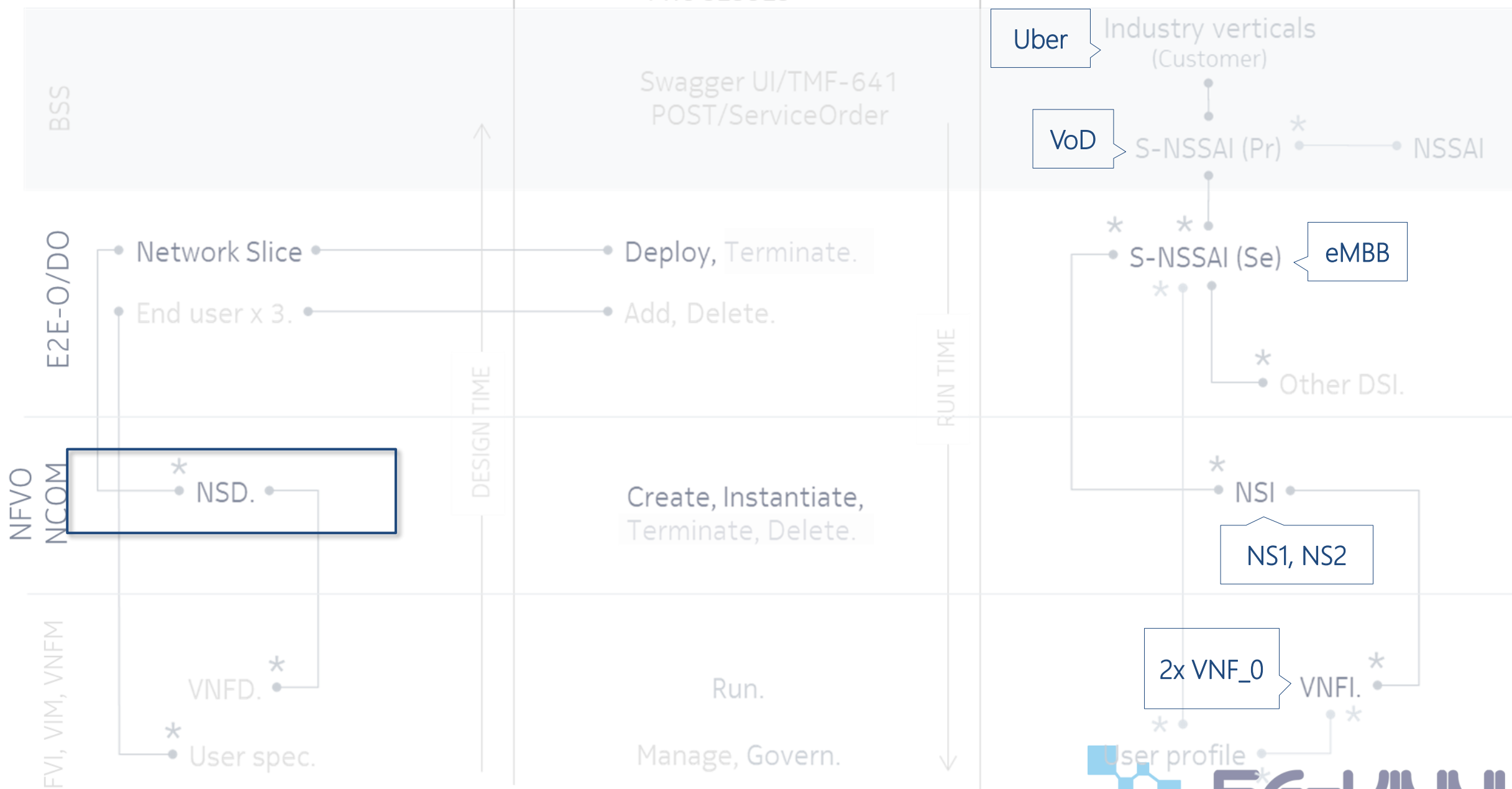
DEMO



CATALOG

PROCESSES

INVENTORY



*E2E-SO = E2E Service Orchestrator | NFVO = Network Function Virtualization Orchestrator | VNFM = VNF Manager | VIM = Virtual Infrastructure Manager | NFVI = Network Function Virtualization Infrastructure



BACK UP SLIDES

E2E Slice Onboarding Automation (NSA)



User/BSS

1. Deploy Slice

NOKIA Service Orchestrator

2b. Deploy Edge NSD

2a. Deploy Core NSD

NOKIA NFVO NCOM

Plugin

3. Create Nuage subnet/static routes

5. Configure FW

nuagenetworks VSD

API paloalto NETWORKS

5. Configure FW

4. Create provider network

NOKIA G-VNFM Ericsson S-VNFM

6. VNF instantiation

API paloalto NETWORKS

4. Create Openstack network/subnet with nuagenet

5G Core IMS

Virtualization NCIR 19

Neutron

HEAT

HW OpenEdge OE 19



Z9100

Edge Site

7. Deploy Resources

3. Configure provider network/GW in Z9100 (otherwise manually pre-configured).

7. Deploy Resources

IMS 5G Core HSS

Virtualization NCIR 18

HW Airframe OR 18

Core Site

8. Provision users in HSS (DÉCOR) via Prov. GW

