OSM DEMOS

Vanessa Little (Vmware) - OSM TSC
May 2nd 2017 – Layer 123 NFV Congress San Jose

OSM GAINING TRACTION

Open Source
MANO

Open Source MANO | **Year ONE by the Numbers** | For more information visit **OSM.ETSI.org** | Download Release ONE today!

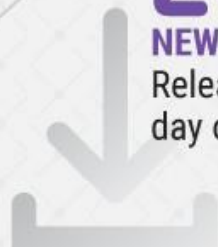Date of first OSM demo
Feb 22nd, 2016

1000+ lines of code committed per day

50+ participating companies in Open Source MANO

20+ NEW downloads of Release ONE per day of since release

Downloads from over **50** countries

Number of releases since first demo: **2**

Number of **validated VIM plugins: 3**
openstack   vmware   OpenVIM

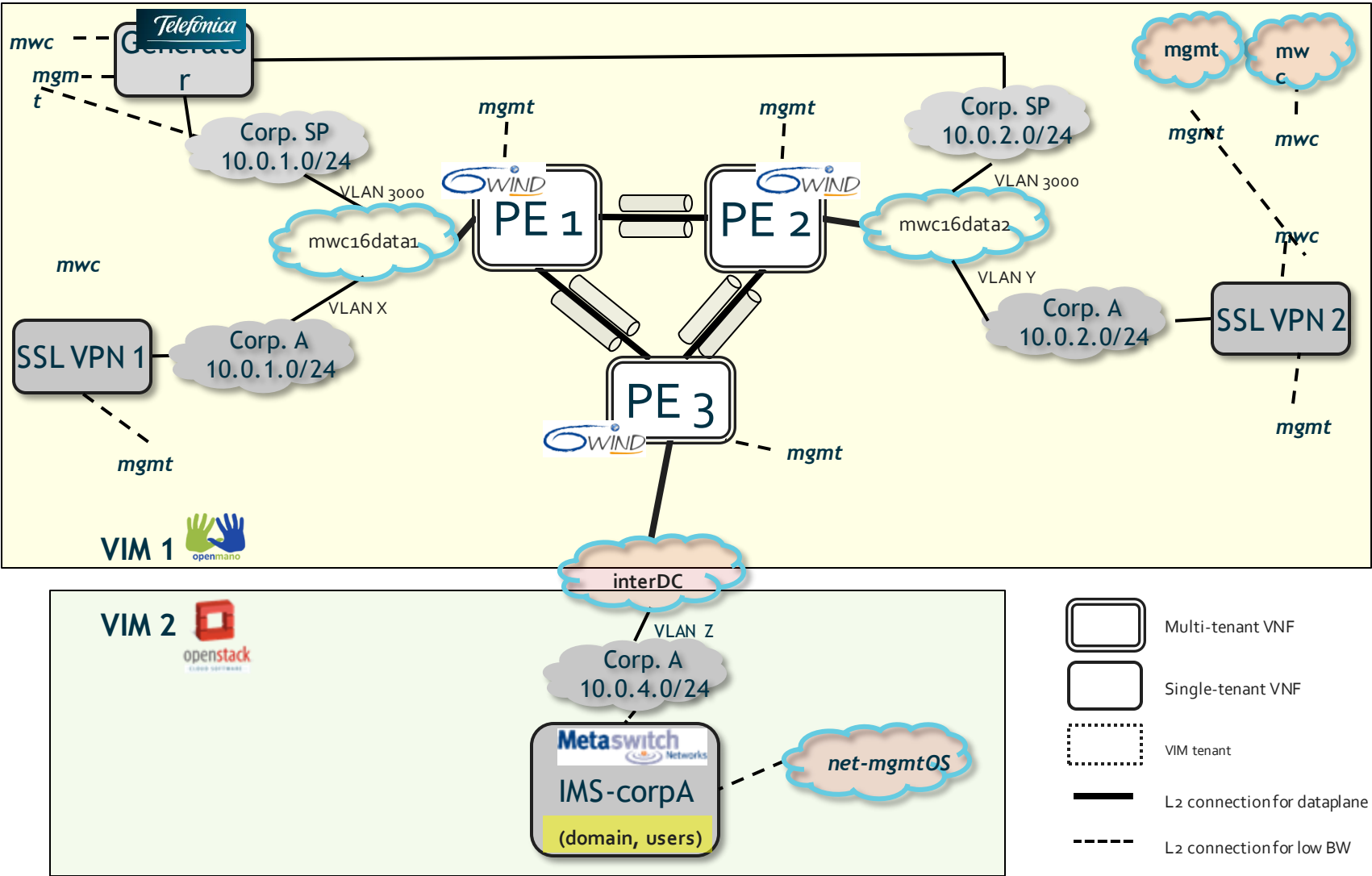Number of **validated SDN Controllers: 2**
OPENDAYLIGHT   FloodLight

Number of **steps to install: 1**

DEMO 1: OSM MWC16 E2E ORCHESTRATION

- **BY:** 6Wind, Canonical, Indra, Intel, Metaswitch, Rift.IO and Telefónica

- **SCOPE:** A network core composed by 3 PE routers (multi-tenant VNF) is deployed with EPA characteristics and automatic dataplane underlay connectivity

- Multi site L3 VPN service with value added services

- A carrier VPN is provisioned and used to demonstrate 10 GbE line rate performance using a traffic generator.

- IMS Service deployed in a separate data center and call pinned up

- Video Available at: https://www.youtube.com/watch?v=JJlxwJStkTk&t=105s

DEMO 1 TOPOLOGY

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DEMO 2: LIFE CYCLE MANAGEMENT OF VIMS WITH OSM

- **BY:** xFlow Research, Metaswitch

- **Scope:** Deployment of Clearwater All-in-1 vIMS using OSM R#1 on OpenStack

- Deployment, configuration and management of full virtual IMS solution.

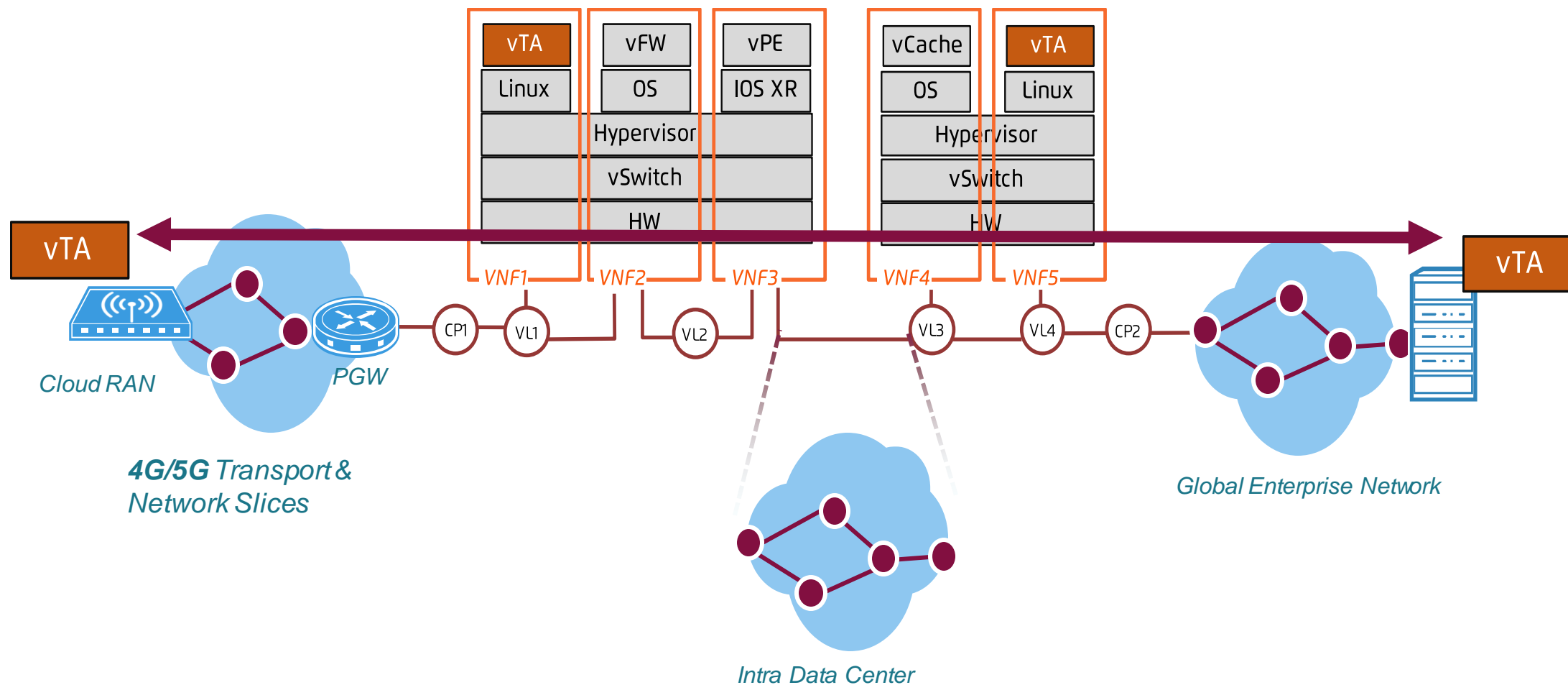- vIMS NS/VNF package creation and deployment on OpenStack

- Video Available at: https://www.youtube.com/watch?v=x9zWQyRU2zY

- **BY:** xFlow Research

- **Scope:** Deployment of sample NS (CirrOS, VyOS) on Amazon Web Sevices using OSM Release1

- Explanation of various available components in AWS

- Comparison of AWS components with OpenStack components

- Deck available for download here: https://docbox.etsi.org/OSG/OSM/05-CONTRIBUTIONS/2017/OSM(17)000045_Public_cloud_-_AWS.pptx

- **BY:** Telenor, Arctos Labs, Cisco, Intel, Netrounds, and RIFT.io

- **SCOPE:** Automation of active testing through DevOps approaches to network management during 5G network slice deployment.

- Dynamic control of virtual services and 5G network slices.

- Using OSM for advanced orchestration of virtual test agents as part of network service design (NSD) for full SLA assurance.

DEMO 4: TOPOLOGY

Open Source MANO

vTA | Linux | Hypervisor | vSwitch | HW — VNF1
vFW | OS — VNF2
vPE | IOS XR — VNF3
vCache | OS | Hypervisor | vSwitch | HW — VNF4
vTA | Linux — VNF5

vTA

Cloud RAN

PGW

CP1 · VL1 · VL2 · VL3 · VL4 · CP2

4G/5G Transport & Network Slices

Intra Data Center

Global Enterprise Network

vTA

- **BY:** RADCOM

- **SCOPE:** OSM to deploy and configure MaverIQ vProbes

- Create and instantiate a vProbe via OSM

- Capture and monitor network traffic

- Verify vProbe's packet reception

DEMO 6: NETWORK SERVICES WITH INTEGRATED VNF VERIFICATION

- **BY:** Ixia, Canonical, DataArt Solutions, and Sonus

- **SCOPE:** Network Services with Integrated VNF Verification

- Automated deployment and execution of carrier-grade network testing and monitoring

- Packaging and modelling with OSM and Juju

- Using Ixia's Phantom Virtual Tap for network visibility

- Using Ixia's IxLoad Virtual Edition for comprehensive network testing

- Sonus Session Border Controller Software Edition to operate across diverse virtualized infrastructure

HOW TO SUBMIT AN OFFICIAL OSM POC

Process Highlights:

- 1. Join ETSI OSM

- 2. Present PoC proposal to the TSC with the purpose to
  - 1. Inform the OSM community
  - 2. Get feedback from the OSM community3

- 3. Get approval to be listed as a OSM PoC

- 4. Send relevant information to OSM MARCOM for publishing on OSM website.

- 5. Present PoC results in TECH meetings with the purpose to:
  - 1. Regularly provide updates to OSM community and get feedback
  - 2. Complete the PoC - videos and supporting documentation

For more details, see the OSM wiki at: https://osm.etsi.org/wikipub/index.php

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QUESTIONS?