Industrialize Open Source for Network Transformation

Lingli Deng
China Mobile
Industrialize Open Source for Network Transformation
Open Source Industrialization Transformation
R&D Investment in Network Transformation

Next Generation OSS

Cross Domain Controller
- Domain Controller (TN)
- Domain Controller (IP)
- Domain controller (DC)

VNFM
EMS

VIM
NFVI

SDN Switch
White-box Switch

NovoNet Architecture

Orchestrator Related
SDN Related
CloudOS Related

Management Layer
Application Layer
Infrastructure Layer
Industrialization:
Commercial solution based on Open Source? – YES & NO

**AERO**
OpenDayLight based

Interacts with 7 types of devices from 13 vendors
Deployed in Jiangxi for Private Cloud

**NFVO+**
ONAP based

Based on ONAP Beijing Release (part of VF-C module)
To be tested in Shanxi as part of NFV trial in 2018Q4
Industrialization of Open Source

Reference Architecture

De Facto Standard

Commercial Code Base

ODL Case: 3
OPNFV Case: 1->2
ONAP Case: 1->2->3
Proactive Industrialization Collaboration Promotion

SDO - Standards Developing Organization
Cert - Interoperability Certification Testing

Past

Document Driven
Iterates in years
Proactive Industrialization Collaboration Promotion

SDO - Standards Developing Organization
Cert - Interoperability Certification Testing
OSS - Open Source Software

Code Driven
Iterates in months
Proactive Industrialization Collaboration Promotion

- Spec
- Cert

Community Driven
Self-contained loop

SDO - Standards Developing Organization
Cert - Interoperability Testing
OSS - Open Source Software
ONAP-Powered Connectivity Service: CCVPN Demo
Cross Operator, Cross Domain, Cross Layer VPN Service

Visit CCVPN at LFN Demo Booth #6 for more details.
Thank you!