TELCO CLOUD TRANSFORMATION

Red Hat Summit 2017
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5G & IOT USE CASES

- **HIGH MOBILITY**
  - Low Data Volumes
  - High Data Volumes
  - High Mobility
  - Low/No Mobility

- **LOW DATA VOLUMES**
  - 10-100X Connected Devices
  - 10X Battery Life
  - 5X Lower Latency

- **HIGH DATA VOLUMES**
  - 10-100X End-user Data Rates
  - 1000X Mobile Data Volumes

- **LOW/NO MOBILITY**
  - 10X Battery Life
  - 5X Lower Latency
  - 10-100X End-user Data Rates
  - 1000X Mobile Data Volumes
The Journey to NFV
Operators will deploy NFV/SDN.

- 89% service providers will adopt NFV within this or next year.
- 95% service providers will adopt SDN within this or next year.

Revenues for new services and cost reduction are service provider’s main drivers for NFV/SDN adoption.

Source: TBR NFV/SDN Customer Adoption Study H2 2016
NETWORK EVOLUTION TO 5G

Integrated nodes

Virtualized deployment

Cloud deployment

5G Core

Network application

Enterprise

Massive MTC

Critical MTC

Mobile Broadband

Mobile Broadband

Massive MTC

Critical MTC

Enterprise
THE BEST FROM TWO WORLDS

- End-to-end NFVI solution support
- Carrier Grade
- Unified O&M (Fault and performance management)
- Advanced networking
- Software Defined Infrastructure
- Common management interface

A FLEXIBLE, SCALABLE, CLOUD PLATFORM FOR ENTERPRISES AND TELCOS

- Industrialized OpenStack Solution
- Support SLA for RHEL workloads
- Software Defined Storage (CEPH)
THE NFVI GLUE

- Red Hat Openstack Platform (RHOSP)
- Increased number of supported workloads
- Customers chose the platform(s) they want
- Multi vendor
- No lock-in
- Pure open-source player, upstream first
ERICSSON TARGET OPERATING MODEL

- Partners & Alliances
- KPI
- Tools & Technology
- Organisation & Governance
- Strategy
- Process
- People & Competence
TELCO TRANSFORMATION SERVICES

Optimised SDN/NFV Solution Design

NFV Test and DevOps framework

Accelerated Delivery & Integration

Business Benefits
EARLY DEPLOYMENT EXPERIENCE

- Telecom grade readiness
- VNF requirements on NFVi
- Operational and LCM processes
- ETSI NFV interface maturity for multivendor testing
CUSTOMER CHALLENGES IN NFV

- VNF Onboarding is Time Consuming and Costly
- Manual VNF Validation is Time Consuming and Costly
- Lifecycle Management is Complex
CUSTOMER CHALLENGES IN NFV

- Dimensioning (weeks)
- Ordering (days)
- HW delivery and installation (weeks)
- Migration of subscribers (hours)
- Acceptance testing (weeks)
- Live validation (days)
- Orchestration/configuration of node (days)
- Orchestration/configuration of node (hours)
- SW delivery and Installation (days)
- SW installation (days)
ERICSSON FACTORY
Accelerate verification & on-boarding

Self Service Web Portals

Workflow Driven Automation

Test Management

Dashboards

Services

- Onboarding and Test Strategy
- Onboarding and Test Automation
- Onboarding and Test Execution
- Vendor Management
NFV IMPACT ON SERVICE VELOCITY

Manual Operations

- Add capacity: 60 days
- Activate new service: 21 days

Automated Operations

- 7 staff
- 2 hours
- 15 min

ERICSSON NFVI Automation

GUI
NFV IS MAINSTREAM

Drivers:
- New Business
- Modernization
- Transformation
- Capacity Build-out
- Automation

Services:
- VoLTE
- Wi-Fi calling
- MBB
- Enterprise
- IoT

20+ Deployments LIVE
90+ Commercial Customers

Ericsson VNF
WHY ERICSSON NFVI?

12 LIVE NETWORKS

>70 CONTRACTS

Modular
Certified Solution
End-to-end Support

Swisscom
Telefonica
NTT DoCoMo
Softbank
Telstra
Vodafone
CUSTOMER CASES

Swisscom
Telefonica
NTT DoCoMo
Softbank
Vodafone
Telstra