Introduction to E-CORD and China Unicom plan

China Unicom
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Service provider’s customers: “C E O”

- Enterprises
  - OA and ICT
  - Leased Line
  - VPN

- Consumers: R+M
  - Voice
  - MBB+FBB
  - Video

- OTT Providers
  - IDC
  - DCI
  - QoS

Enterprises and OTTs are the focuses of E-CORD projects
E-CORD: Win-Win for Enterprises & Providers

Virtualized Net on Demand
Customer Control
Innovative Services

SDN WAN, Simple on-prem
Observe, Control, Adapt
Security, policy control, ...

SDN Control Plane ONOS
NFV Orchestration XOS

SDN Fabric

Carrier-grade Network as a Service
Built on an open platform
Bring data center economy and cloud agility
Use case: Elastic VPN services

1. SDN based VPN to create elastic tunnel

   Elastic tunnel
   Bandwidth on Demand: eg. 10M to 100M

   Rigid tunnel
   Fixed Bandwidth: eg. 10M

2. Centralized control to build cross-networking capability

3. IT and cloud support system to shorten innovation period

   Step 1: Developing
   Step 2: Testing
   Step 3: Updating OSS
   Step 4: Updating equip
   Step 5: Services Config

   Access network       IP network       IDC network
**E-CORD plan in china Unicom**

- **COs renovated as edge DCs**
  - COTS + white boxes + openStack + open controller

- **Access: vCPE and IP access**
  - Thin CPE+ white boxes + open orchestrator + APP

- **Backbone: OTN, IP+Optical, DCI**
  - ONOS-based SD-OTN
  - IP/Optical convergence

- **Service: elastic VPN, cloud VPN, enterprise ICT**
  - Cloud VPN: integrated cloud-networking services
  - VNFs for enterprise ICT services
Thanks!