CORD Perspective
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CORD from a Historical Perspective

The Original Cases
- Residential
- Mobility
- Enterprise

The Add-Ons
- Platform
- XOS
- Analytics
CORD from a Historical Perspective

First Relationship to OCP
- Servers
- Switches
- New Specs

The AT&T Field Trial
- Foundry
- vBNG
- Birth of VOLTHA
Hardware Peripherals

GPON OLT

G.Fast DPU

XGS-PON OLT
Economies of a datacenter
Infrastructure built with a few commodity building blocks using open source software and white boxes

Agility of a cloud provider
Software platforms that enable rapid creation of new services
CORD After the First Year

Carrier Desires:
- Commodity NFV Infrastructure
- Robust Switching and Aggregation
- Simple IO Modules that work with Fabric
- Flexible, Scalable, Available Control Plane
- Diverse types of Virtual Network Functions
  - Re-useable VNFs
  - 3rd Party Services
  - Multi-Tenancy
- Open Orchestration
- High-Level Service Composition Environment
- Community Ecosystem
- Optional Vendor Support, Maintenance, Customization

CORD Delivers:
- Open Compute Project (OCP) Servers
- Fabric from OCP Switches and OVS
- vOLT, vG.Fast, vCE (MEF), (vNB)
- Open Network Operating System (ONOS)
- KVM, Docker
- vSG, vRouter, Fabric, vOLT
- CDN, Parental Controls
- Cloud Tenants and Network Slicing
- Open Stack
- XOS
- Open CORD community
- Multiple Vendor support for CORD and extensions
AT&T’s Current Engagement in CORD

AT&T Open Sources ONAP

R-CORD

M-CORD

Right and Light Infrastructure

VOLTHA
Virtual OLT Hardware Abstraction (VOLTHA): One Microservice for Many Peripherals

VOLTHA northbound

VOLTHA core

VOLTHA southbound adapters

Common control and management framework shared by all OLTs & ONUs

G.fast in V2.0
Where Should CORD Go?

Flexibility for Adopting Environments

Focus more on Community

Form Stronger Relations with Others
- OCP, ONAP, OPNFV,

Shepherd Commercial Support