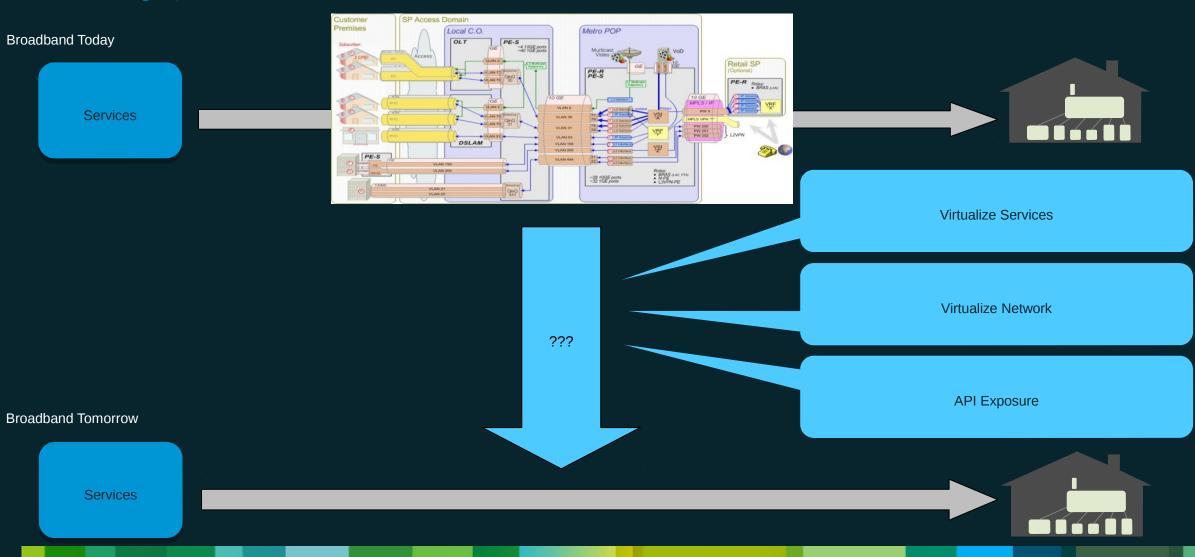
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March 4, 2014

# Introducing Q-vBN

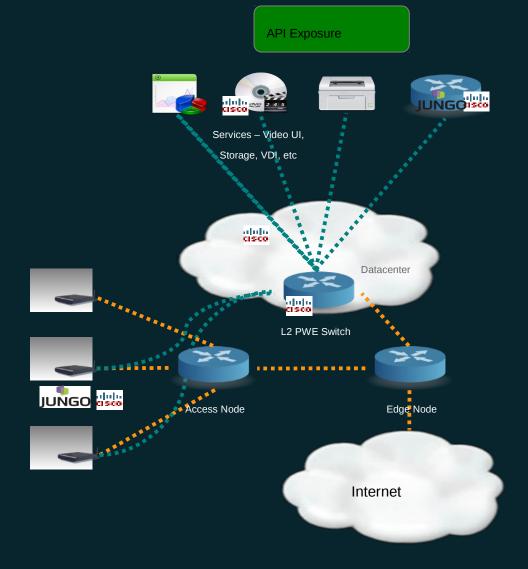


#### Q-vBN: What is it?

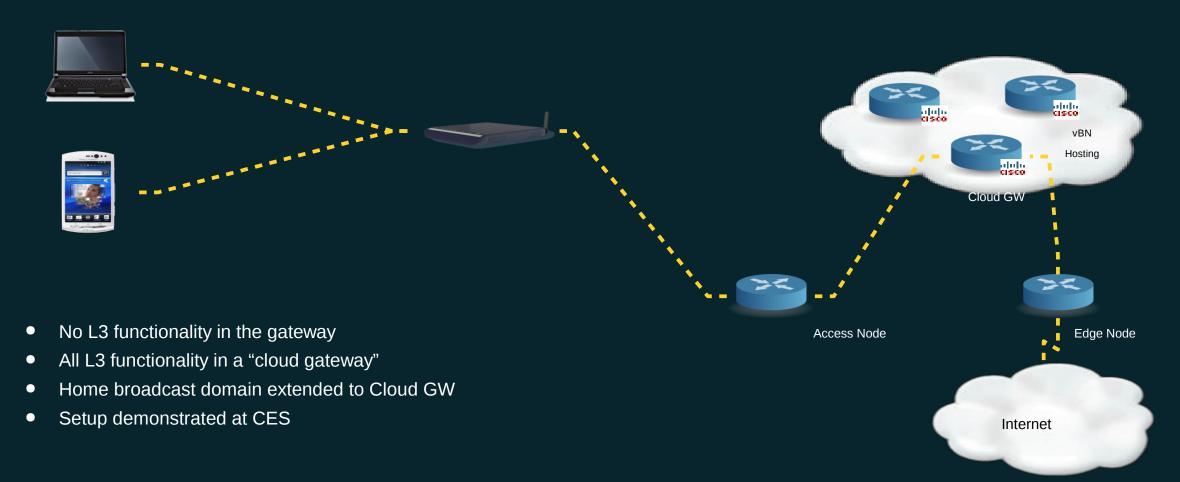
A software based virtualization system that runs standard broadband CPE code and services in the cloud

#### Q-vBN Environment

- Network Overlay
  - CPE tunnel to Data Center where services are located
- Virtualization Infrastructure
  - CPE lifecycle can be extended as intelligence moves to the cloud
  - Allows for rapid deployment of broadband services
- Enable Service Orchestration
  - API driven service control plane
  - Integrated control of vCPE, overlay and services using APIs



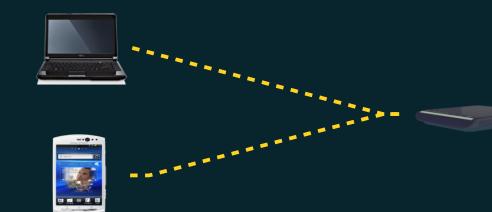
#### Q-vBN for Minimal Virtual CPE Application



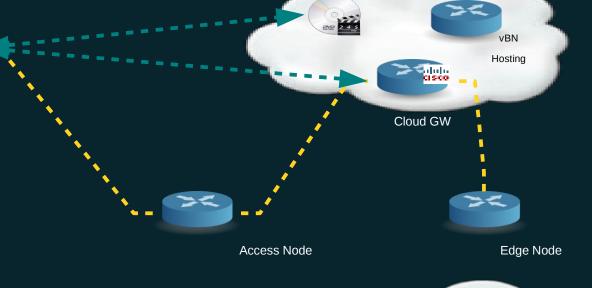
## Q-vBN: LAN Extension to the Cloud

API Exposure

Internet

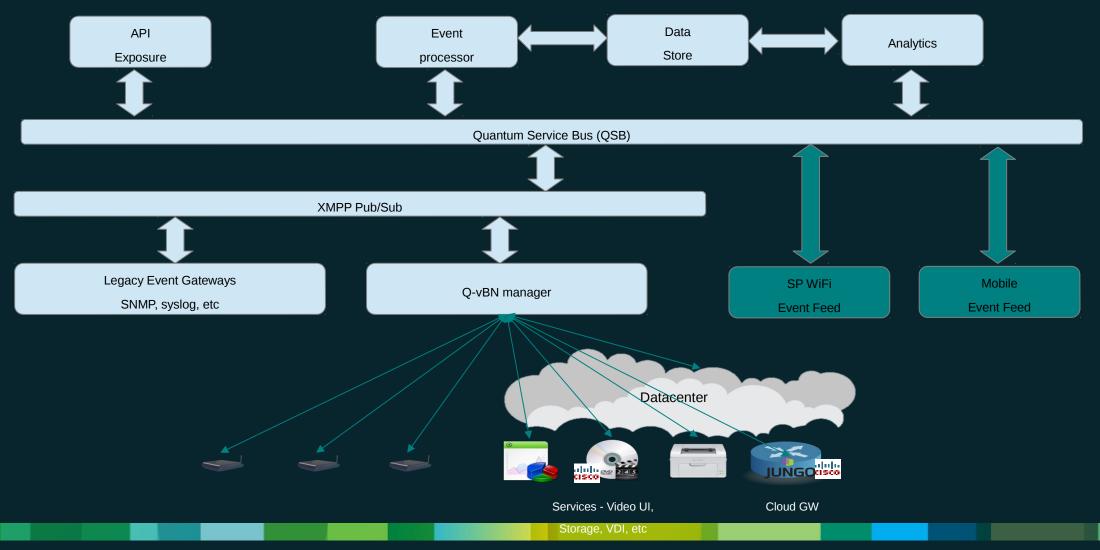


- Network design unchanged no forklift
- Home LAN extended to a Service
- Storage (NAS) Backup
- IPv6 as a service/v4
- Individual device management
- M2M

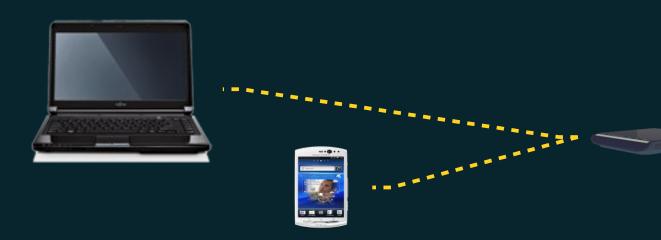


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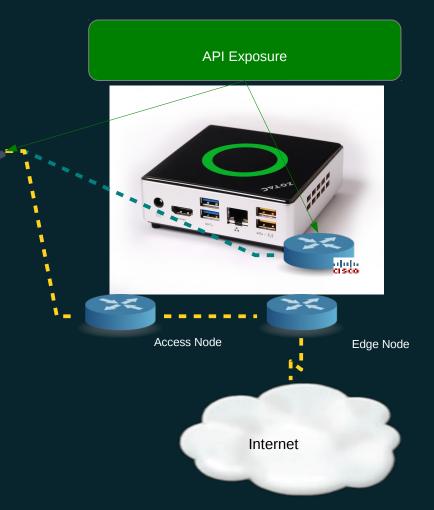
#### **Control Plane**



### Demo Setup



- QvBN + Control Plane Zotac A12, AMD E1700, 8G RAM, SSD
- Test cases VMs using direct overlay attachment on a generic laptop
- Demos
  - VCPE Firewall, NAT, QoS
  - Virtual Storage



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