



# Early Adopter of NFV? Mitigate Risk! UKNOF 34 - Manchester

Anthony Magee, 21<sup>st</sup> April 2016  
Global Business Development

# What are we trying to do?



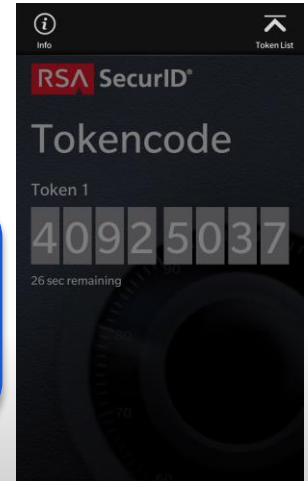
PNF

Physical Network Function



VNF

Virtual Network Function



Physical network devices can be replaced  
with software versions

# Benefit of Virtualisation: Choice of Hardware

Physical Network Appliances become VNFs



Residential Gateway



Deep Packet Inspection



Intrusion Detection



Network Address Translation



Network Firewall



Digital PBX



Content Delivery/Encryption Cache



Load Balancer



Basic Traffic Management



Traffic Management



Application Acceleration



Session Border Controller



SIP Gateway



Test Set



Router

Compute, Storage, Server Infrastructure

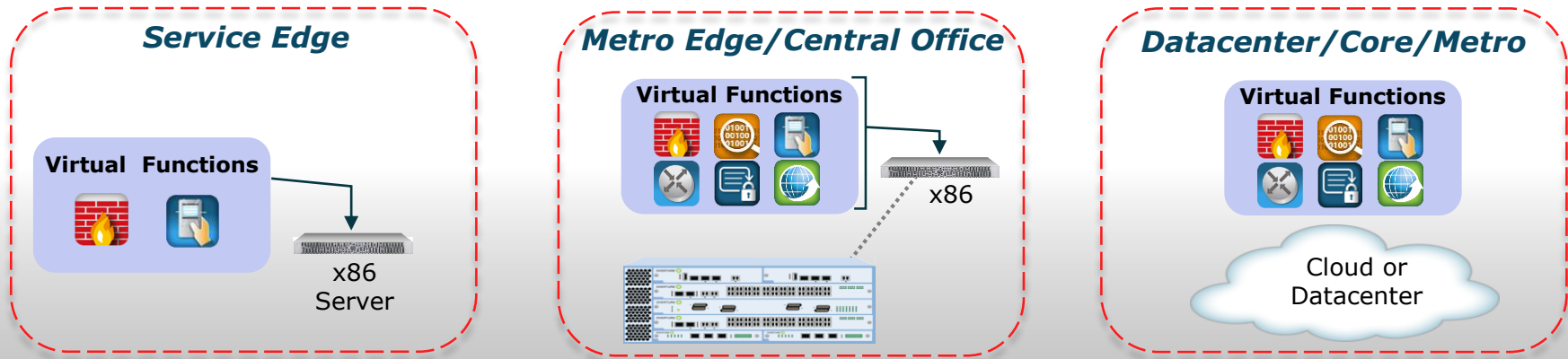


Choose any platform or brand

# Benefit of Virtualisation : Choice of Location

**Virtualization** choice in deployment locations

VNFs placed **where needed**



# Caveat: Not everything can/should be virtualised

## Where Virtualization Works

- Limited life-time/elastic services
- Flexible parameters / algorithms
- Moderate processing load

e.g. CPE devices

## Dedicated Hardware Preferred

- Static, always on, high volume
- Performance and delay-critical
- Synchronization

e.g. Core  
Routers...for now



# Avoiding problems/mitigating risk



- Some Examples...
- Early adopters need more visibility
  - Server Failures
  - Software instability
  - Latency challenges
- Marketing Challenges
  - "I've virtualised your UNI!"
    - *"But I pay for a physical UNI"*

Assured NFV Minimizes Risk

# Edge Virtualization



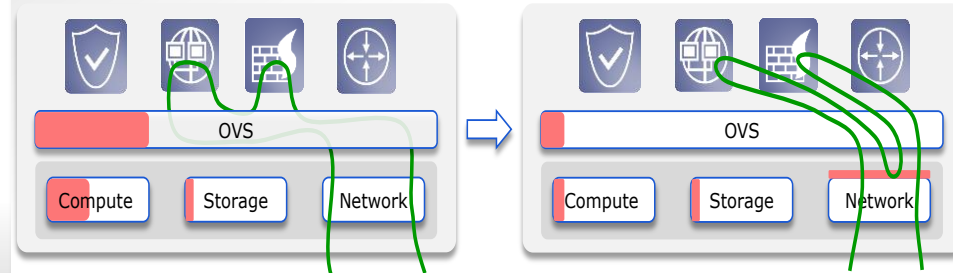
## Pure-Play

- COTS Hardware
- Choice of brand



## Assured

- Tight integration Compute / Forwarding plane
- Acceleration of Open Virtual Switch
- Efficient use of NFV resources



Pure-Play and Assured balance flexibility and performance

# Choices, Choices, Choices...



- Choice of...
  - Appliances to virtualise
  - Location to place VNFs in
  - Platforms to host VNFs on
  - PurePlay vs Assured
- Above all...
  - **Openness and Interop!**
- Demos during breaks and after event
- It's not virtual, its real, and it's here today!





# Thank You



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