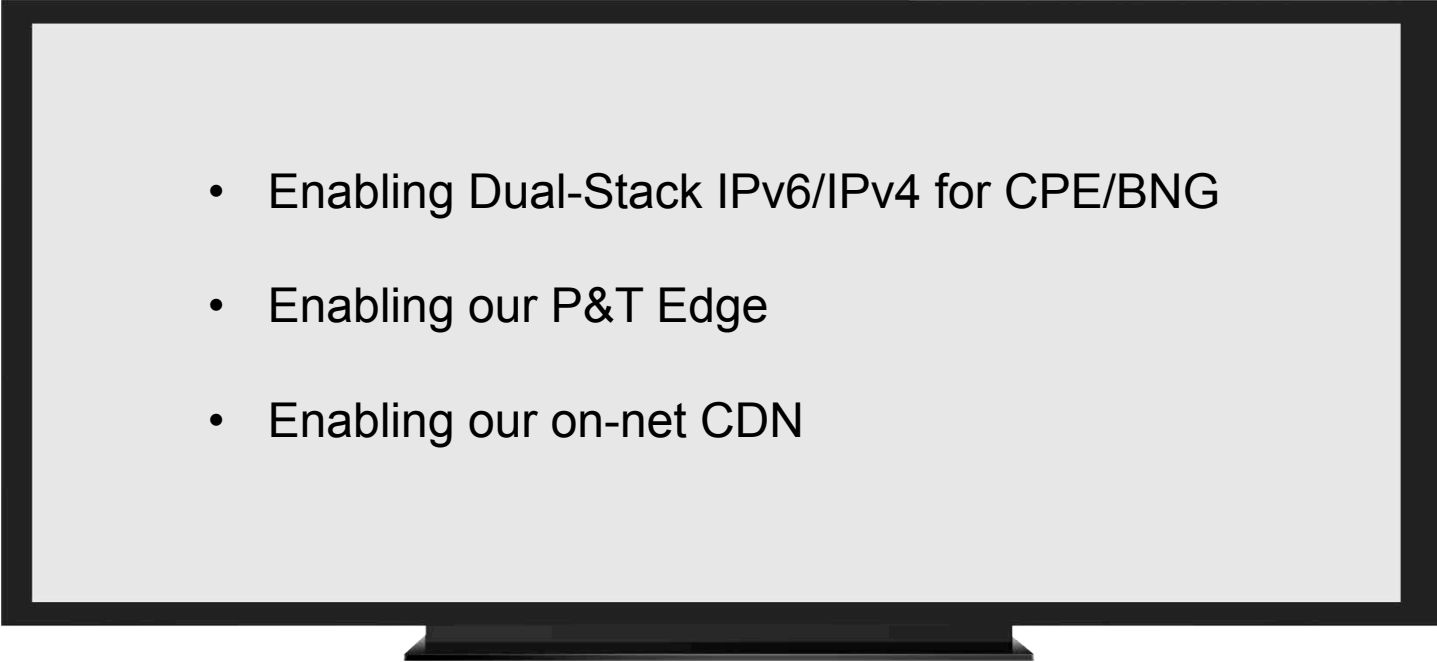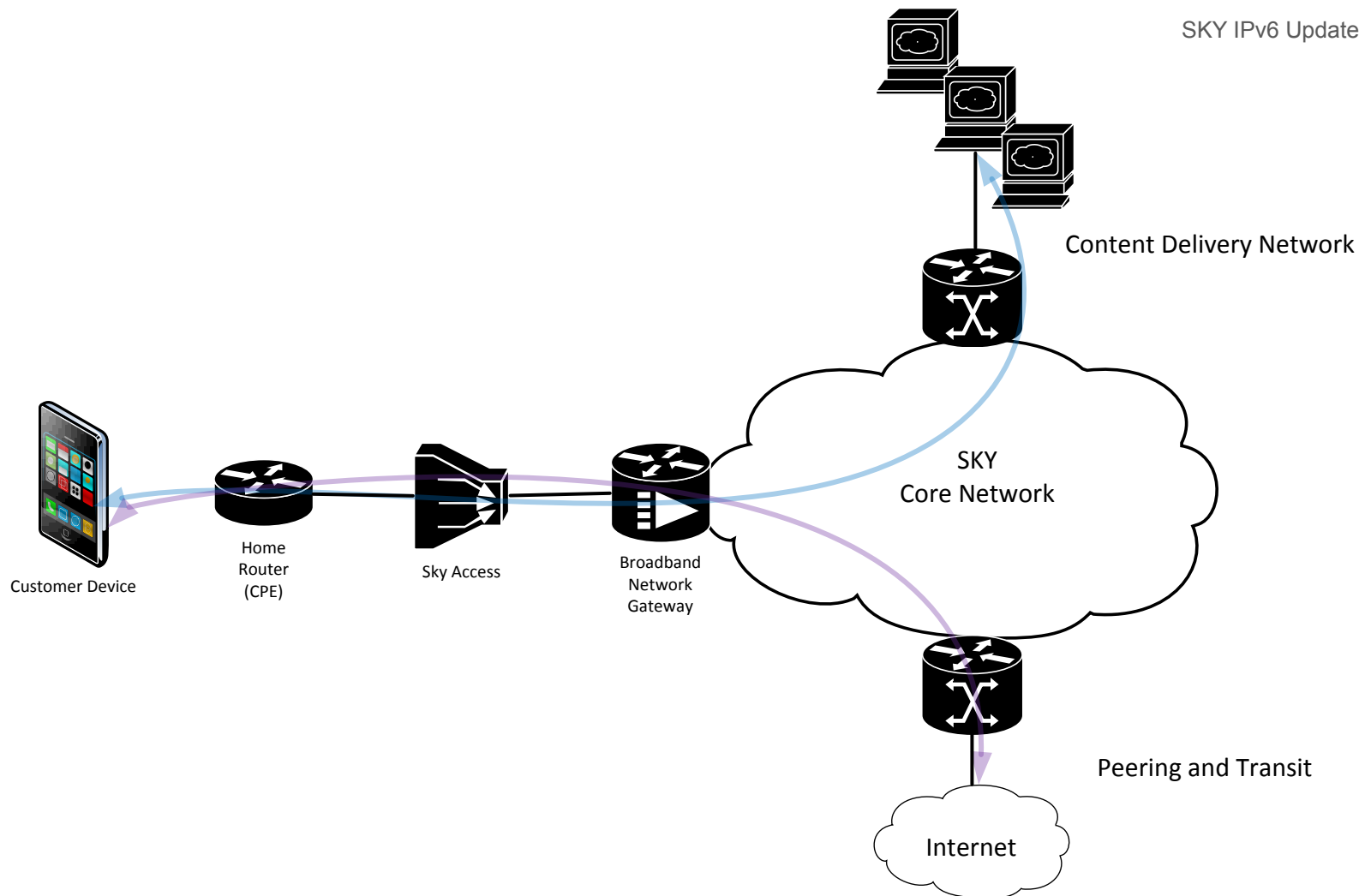IPv6 Update

Nick Chettle – BSKYB

Oz the Great and Powerful

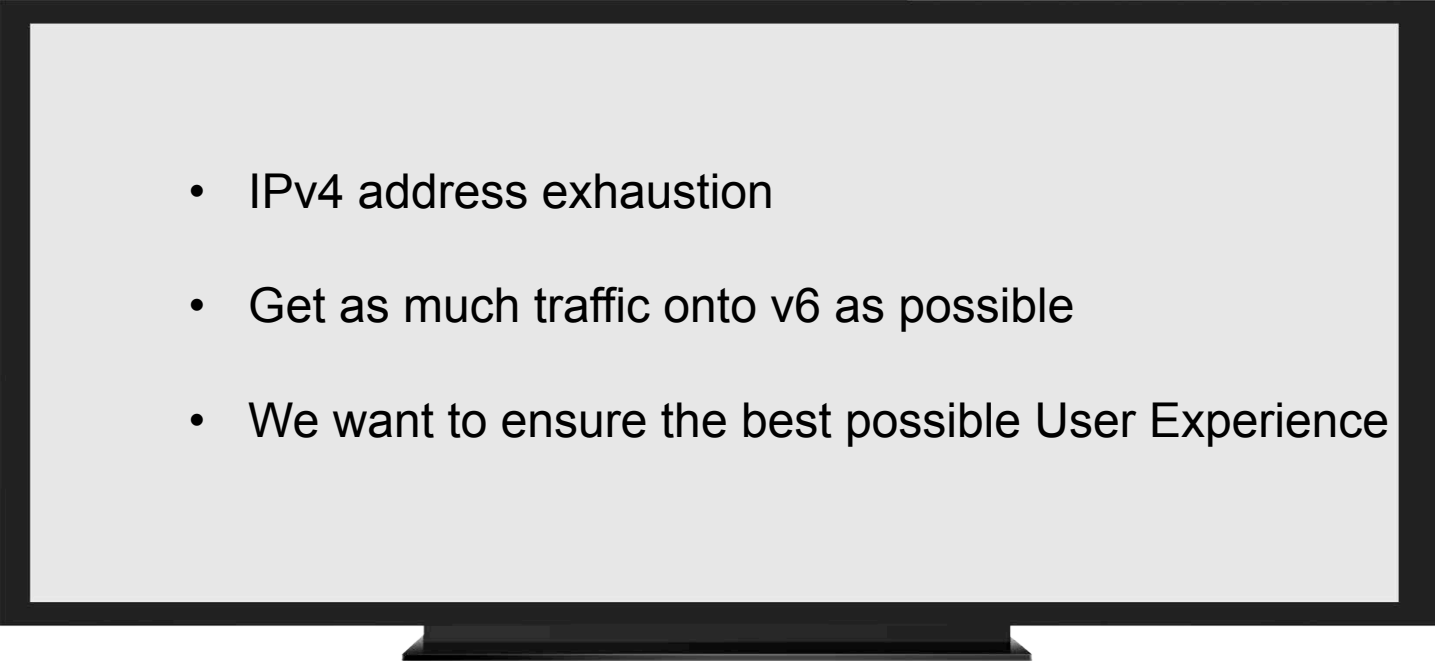# What are we doing?

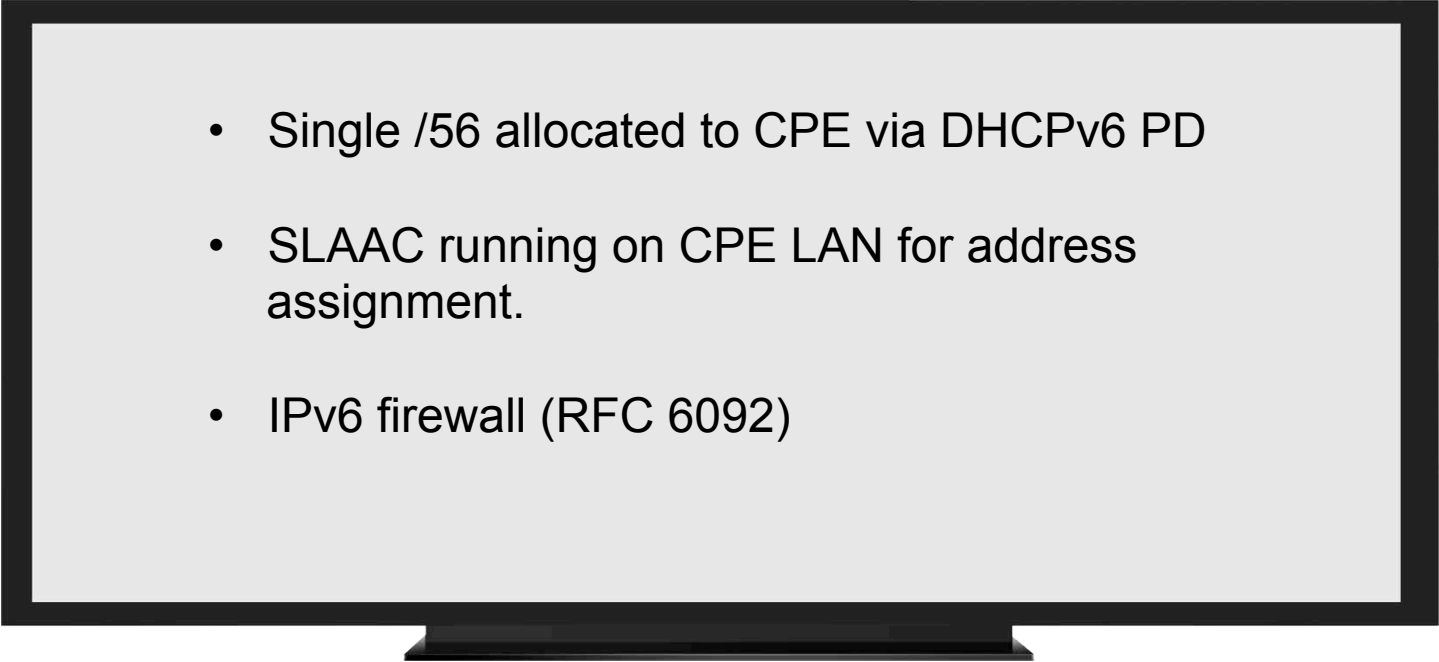- Enabling Dual-Stack IPv6/IPv4 for CPE/BNG

- Enabling our P&T Edge

- Enabling our on-net CDN

Content Delivery Network

SKY
Core Network

Customer Device

Home
Router
(CPE)

Sky Access

Broadband
Network
Gateway

Peering and Transit

Internet

Why are we doing this?

- IPv4 address exhaustion

- Get as much traffic onto v6 as possible

- We want to ensure the best possible User Experience

Some details on the configuration we are trialing

- Single /56 allocated to CPE via DHCPv6 PD

- SLAAC running on CPE LAN for address assignment.

- IPv6 firewall (RFC 6092)

What have we achieved so far?
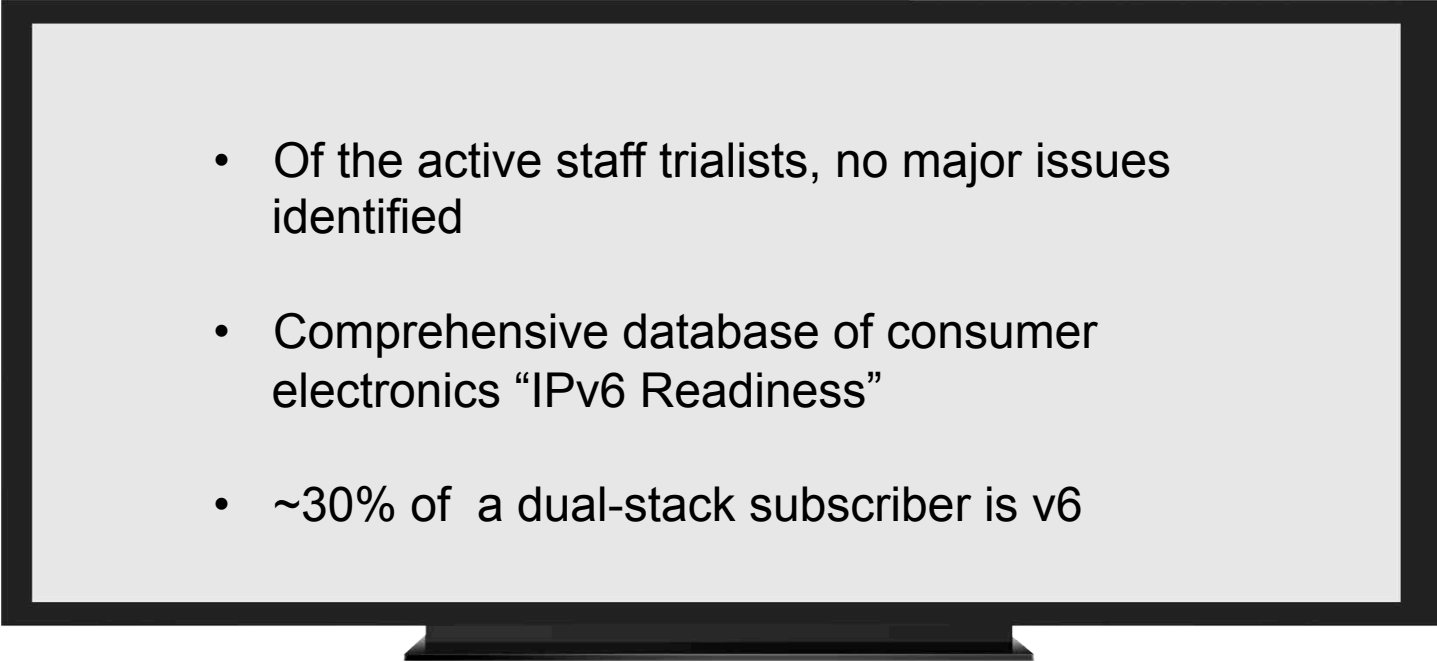
National IPv6 staff trial

~Actively updating CPE's to be "v6 ready"

Major internet properties now accessible via native IPv6

6

What have we learnt?

- Of the active staff trialists, no major issues identified

- Comprehensive database of consumer electronics "IPv6 Readiness"

- ~30% of a dual-stack subscriber is v6

What's next?

- Continue to expand staff trial to test E2E product

- Continue to prepare front-line support staff

- Aiming for customer trial first half of 2015

Questions?