ETSI NFV Conference

Evolving NFV towards the Next Decade
Celebrating the 10th Anniversary of ETSI NFV

BT plc – NFV Past, Present and Future

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Leslie Willis BT

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ETSI NFV SEC Chair

BT's history with NFV

In the beginning…

BT's Don Clarke, Peter Willis & Andy Reid along with members from 12 other operators produced a white paper on NFV.

This lead to the creation of the ETSI NFV ISG.

And then…

BT has been a constant contributor to ETSI NFV over the past 10 years, from Bob Briscoe being Chair of NFV SEC, then later Alex Leadbeater, to Don Clarke being the chair of the Network Operators Council.

BT deploys and managed uCPE and NFVI across the globe on behalf of customers.

And now…

Andy Reid is still involved after 10 years, he is currently the Vice Chair of the NOC.

BT continues to roll out NFVI across the UK and globally.

Along with Canonical and Juniper we've built a private NFV infrastructure across the UK for 5G and fixed line networks.

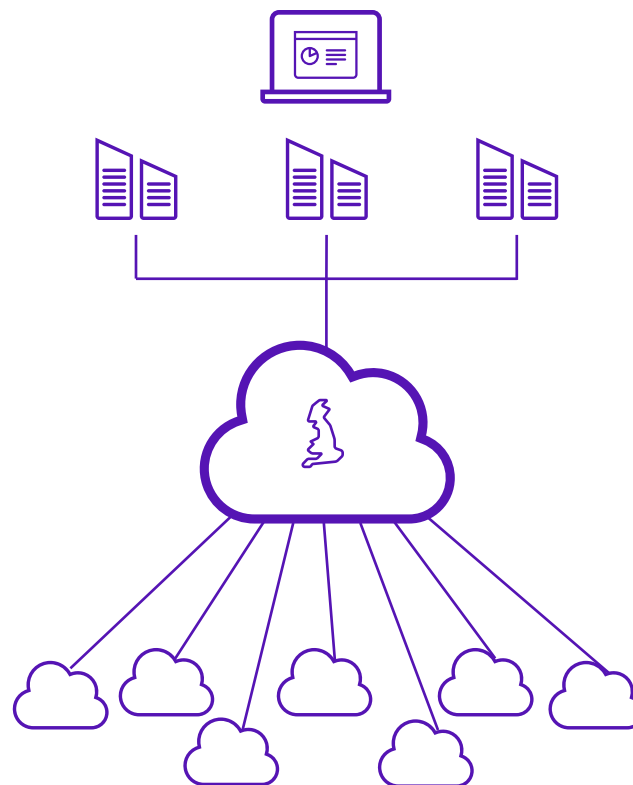# NFV is a key component of our network architecture and 5G strategy

BT's Network Cloud

In 2019 BT announced a key partnership with Canonical and Juniper for a private cloud NFV infrastructure.

Data Centre Hub sites for MANO

NFVi Sites for VIMs and VNFs

A growing number tenants, including our 4G/5G Mobile Cloud Core and fixed network control plane.

BT's Network Cloud – where are we now

Development and test facilities at Adastral Park Ipswich, Borehamwood and Bristol.

User plane and Control plane sites all over the UK.

>35 NFVI sites around Britain

~1000 switches

~3000 servers

~170,000 cores

>1 Petabyte of RAM

And many petabytes of physical storage

5G >50% 4G/5G (Non-Standalone) mobile data being carried over our NFV Mobile Cloud Core

Into the future

Beyond Virtualisation to Containerisation	Maximising Performance	Global Buildout	VNFs on CPE	Network Cloud Expansion
Bulk of our VNFs containerised	Dynamic scaling (cloudification) of VNFs to maximise efficiency	Further global deployment of NFV at the edge	Deploying more VNFs to SD-WAN CPE	PNF & VNF MANO & regulatory compliance

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