



# IPv6 @ BT

The past, the present, and the future.



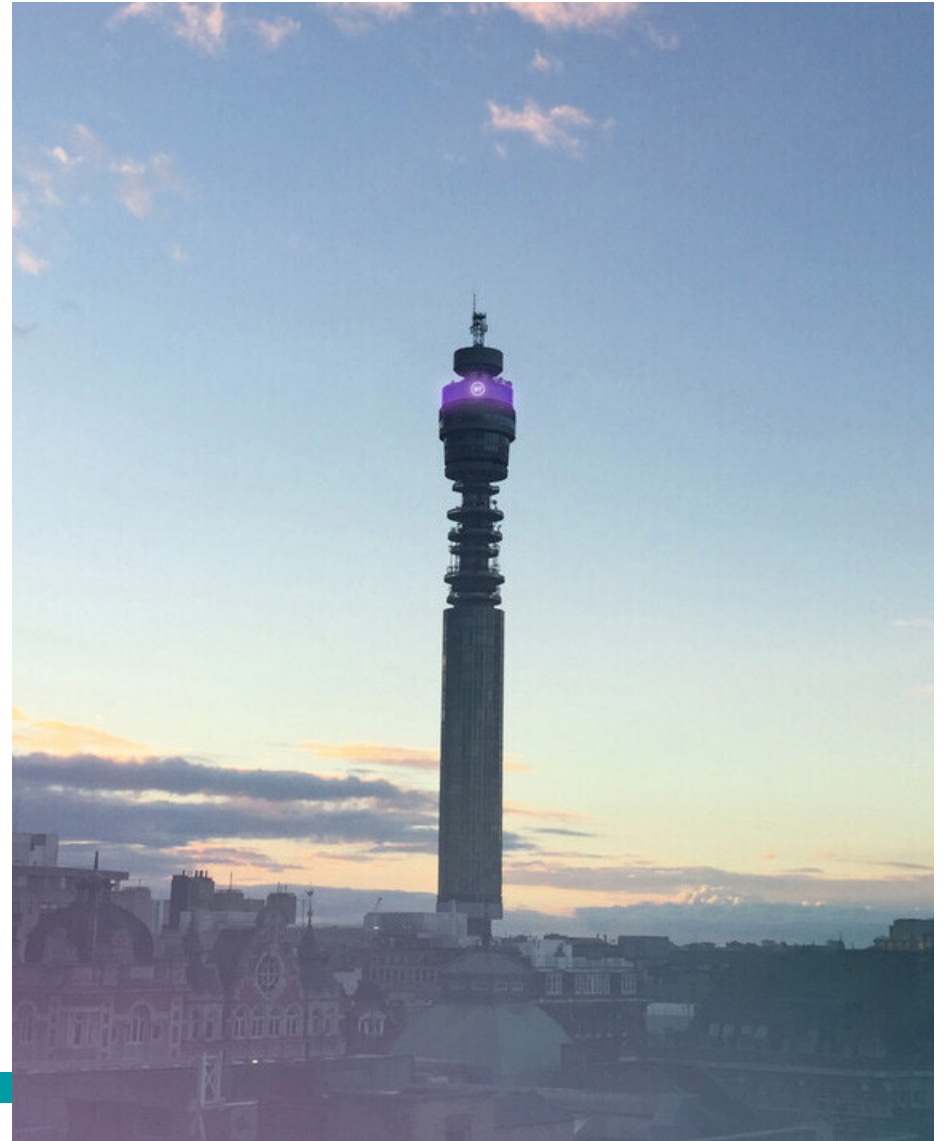
Tom Hill, Network Architect  
The UK IPv6 Council meeting  
18<sup>th</sup> November 2025

**BT Group**



# Welcome to BT Tower

Thank you all!

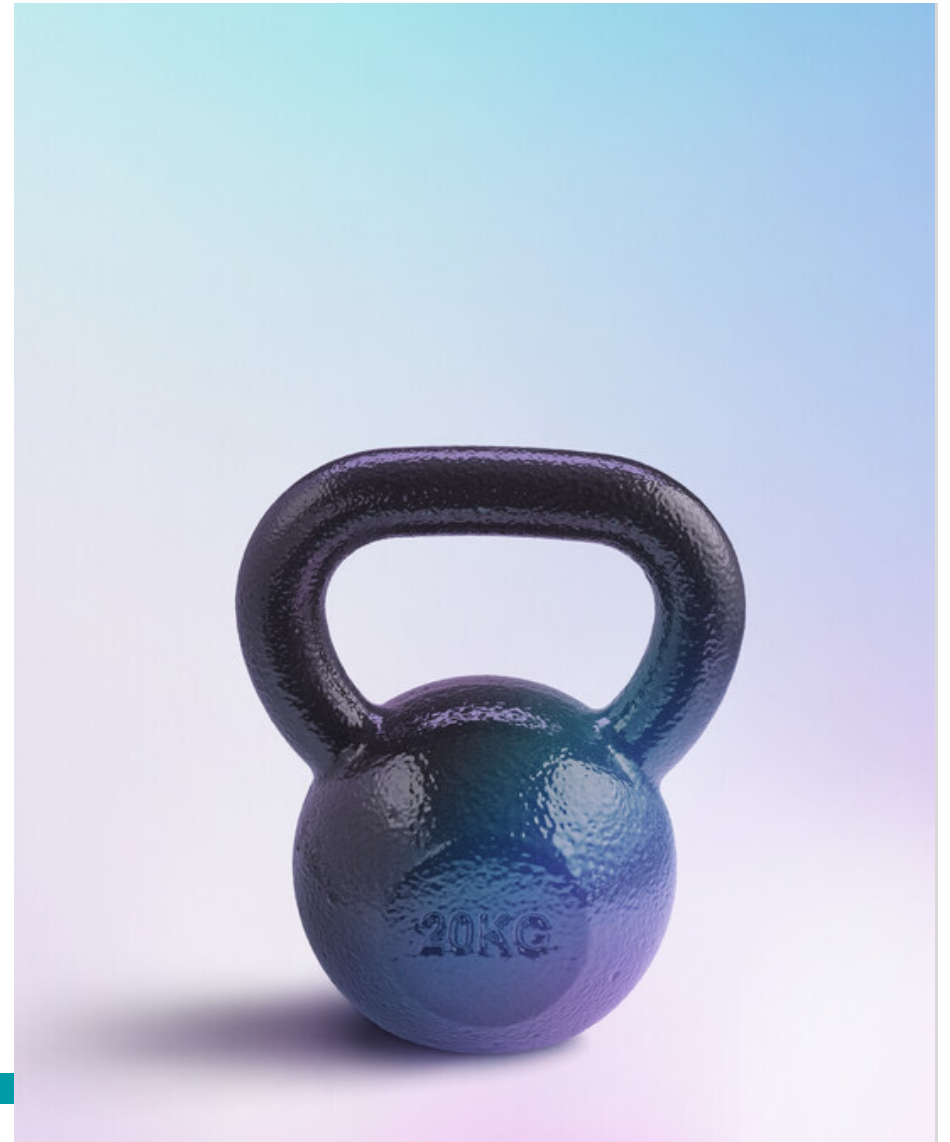


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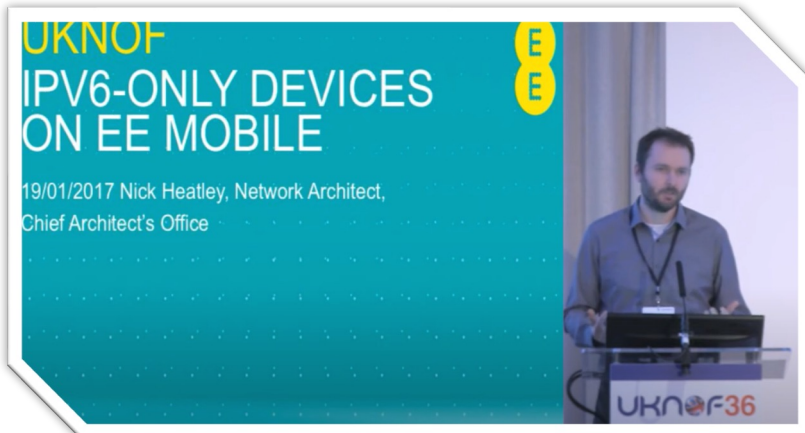
# The Past

IPv6?!



# A long time ago, in a network very nearby...

```
aut-num: AS1752
as-name: BT-CIN-AND-ADASTRAL
descr: Used by BT IP networks for Intranet Test and Development
tech-c: BTR1-RIPE
remarks: Used primarily for IPv6 development work
remarks: Also used in private peering with other Telcos
status: LEGACY
mnt-by: BTENT-MNT
created: 1970-01-01T00:00:00Z
last-modified: 2021-04-08T13:11:05Z
source: RIPE # Filtered
```



We've been working on these things for a long time now. The best part of a decade in anger, and much longer if you count the research work!



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# The Present

IPv6!



# Things happening now



IPv6 transport for DNS resolvers  
(yes, including the hubs).

We're seeing lower demand for  
IPv4 addresses internally.  
That means our investment in  
IPv6 is working.



We're tracking a bunch of standards  
development in the IETF, 3GPP, the ITU-T, etc.  
IPv6 is very much a focus of a number of SDOs.



The Plusnet trials continue, now with staff on both low & and high-touch networks.

Our new authoritative DNS service (for bt.com, bt.net, et al.) has IPv6 glue!  
Simlutaneously, we've begun making use of IPv6 reverse DNS zones.



BT International's Global Fabric has IPv6 baked-in from the very beginning.

... and a few more things we *can't* speak about, just yet.

Key takeaway: internal working groups, soft steering, soapbox evangelism, these are all  
things that *do work*, even in enormous organisations. This has to remain ongoing!



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# The Future

IPv4 who?!



# Things we're thinking about

Much of the work is done from the customer's perspective – IPv6 is working. But there are infill features/updates to behaviours to keep tracking, and entire products and platforms that also require IPv6 enablement.



More emphasis on encouraging equipment manufacturers and vendors to avoid holes in their support for IPv6.

Our internal networks!



We have 464XLAT, but what about broadband? MAP is very interesting, and we've been having a play.



We have so many, and some improvements are happening now that staff in many areas are seeing the benefits – no more overlapping RFC1918!

Our own office networks – IPv6 Mostly?



BT & EE WiFi?

All of this is to say, we have some great momentum across many teams, and we need to maintain it. There are some exciting things left to do in IPv6 land!





# Thank you!

Any questions\*?

\* that aren't about dates, or moles

# Bonus round

Some informal solicitation of information for the Council's benefit.



Hands up if you're not yet deploying IPv6 in the networks or applications that you're responsible for?



Hands up if you're considering deploying (or have deployed) IPv6 Mostly in a LAN environment?



Hands up if – tomorrow morning – now that you've been to the UK IPv6 Council meeting and are now clearly an expert, the boss asks you to deploy IPv6 next week. Are you prepared?