



## IPv6 Update

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UK IPv6 Council – Dec 2021



# IPv6 @ Sky

## Sky UK (AS5607):

- IPv6 default-on for all customers since ~2016
  - Network-side disablement not actively used.
- Brownfield deployment
- Dual Stack
  - /56-sized Prefix Delegation
  - 70% IPoE. DHCPv4+v6
  - 30% PPPoX + DHCPv6
- VoIPv6 service launched in 2019
  - ATA <-> SBC

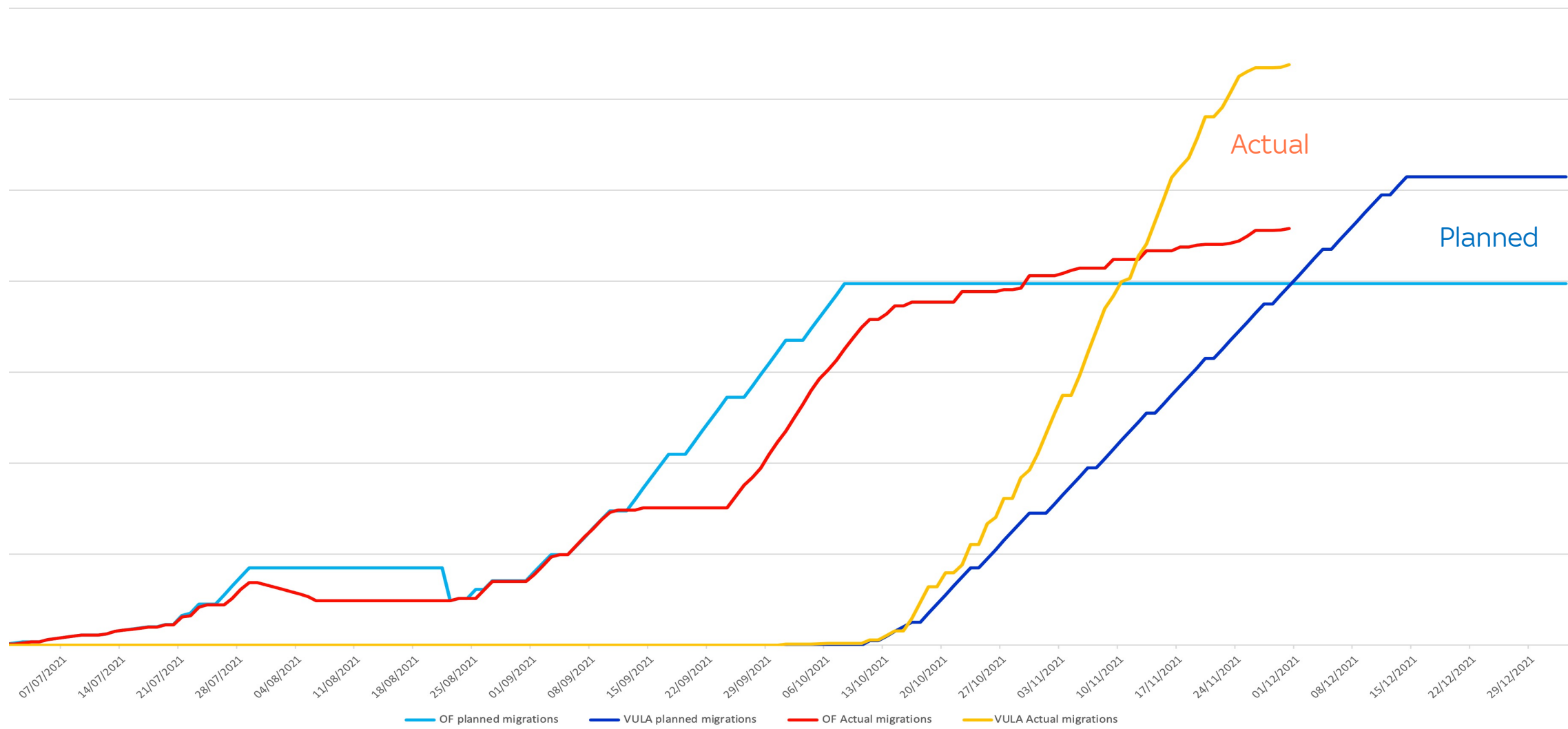
## Sky Italia (AS210278):

- Greenfield fixed-line broadband network launched in 2020.
- IPv6-only Recursive DNS
- VoIPv6
- /48-sized Prefix Delegation
- Initially Dual Stack
- Migrated to 100% IPv4aaS by end of 2021
  - Using MAP-T (RFC7597)
  - DHCPv4 Server will be disabled



# Sky Italia's Migration to IPv4aaS (MAP-T)

Planned vs Actual



# Sky Italia's Migration to IPv4aaS (MAP-T)

- MAP-T enabled by default for all new customers.
- >99% of existing customers running MAP-T
  - >95% w/ IPv4 address sharing ratio 16:1
  - <4% w/ IPv4 address sharing ratio 1:1
- <1% remaining in Dual Stack
  - 3<sup>rd</sup> party CPE devices excluded from initial migrations.
  - Most will be migrated before Christmas.
  - Remaining mopped-up by end of January.



# IPv6 Per-Country Deployment for AS5607: BSKYB-BROADBAND-AS, United Kingdom of Great Britain and Northern Ireland (GB)

