

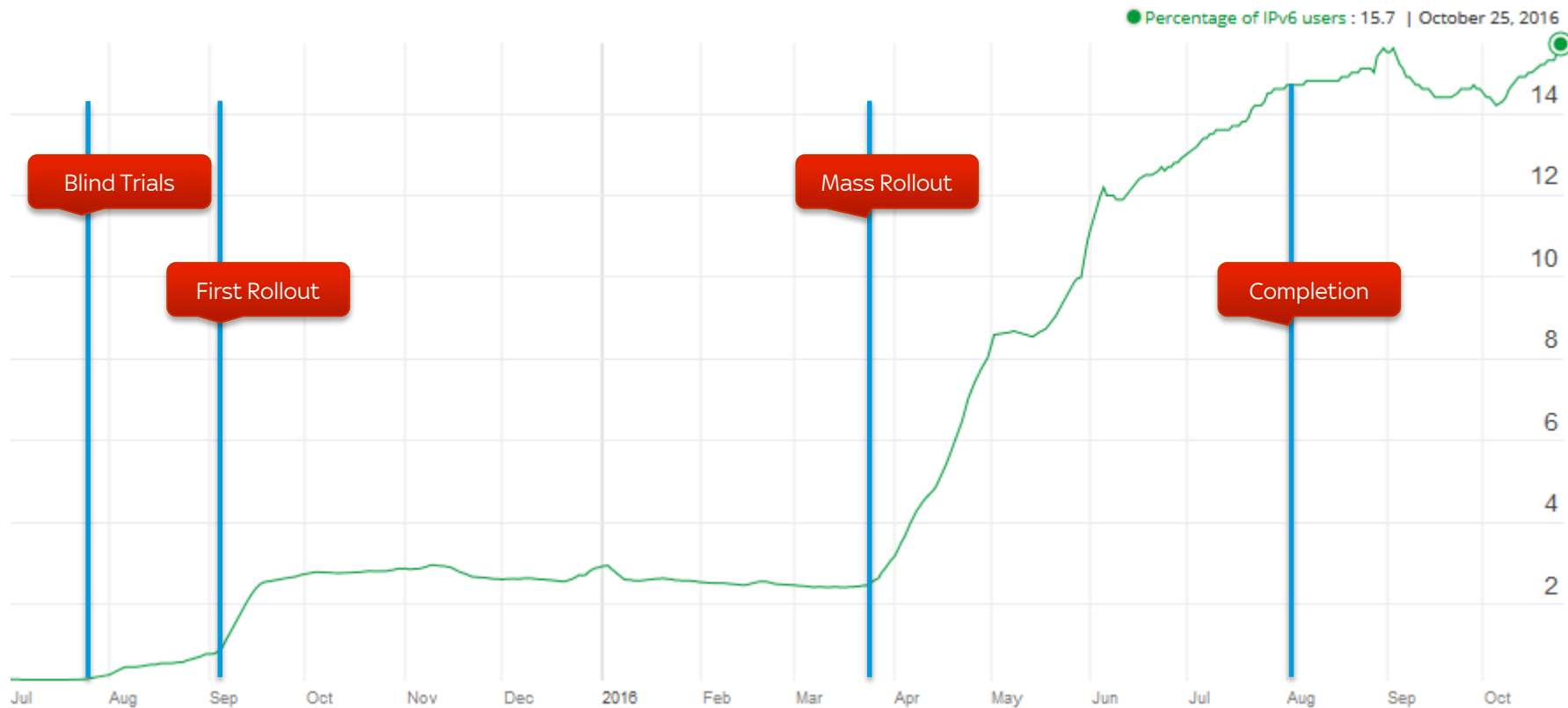


IPv6 Status

Ian Dickinson

3rd UK IPv6 Council Meeting - 31st October 2016

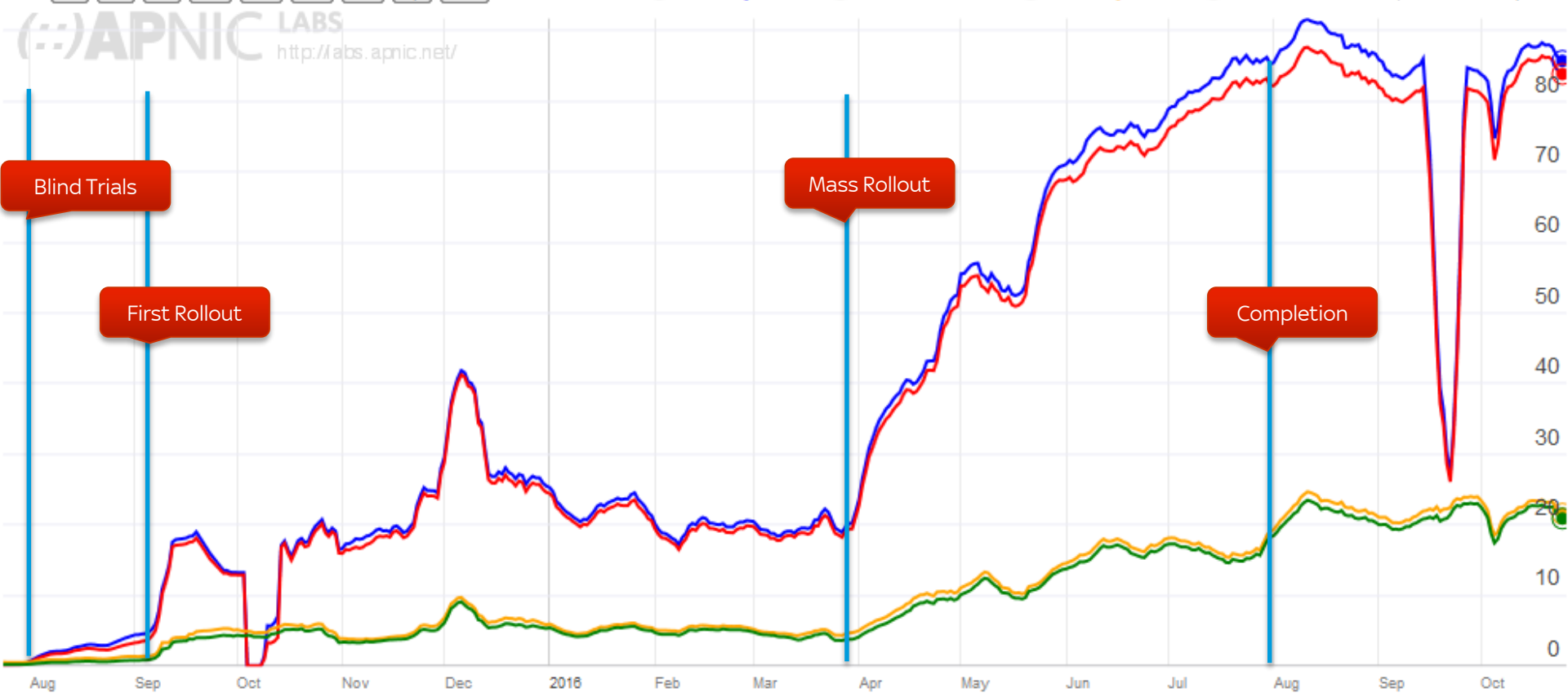
UK IPv6 User Percentage (from 6lab.cisco.com)



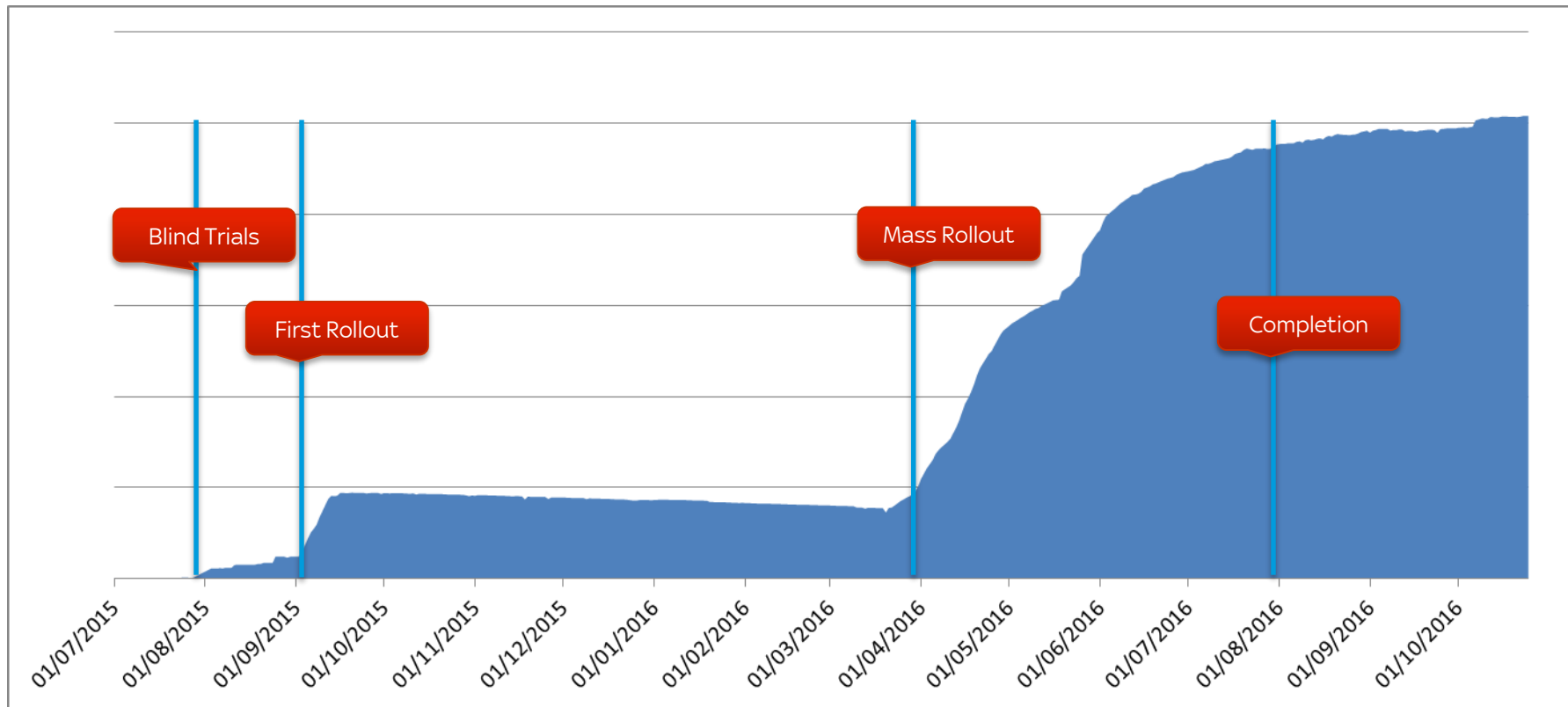
Sky IPv6 User Percentage (from APNIC)

Zoom: 1h 1d 5d 1w 1m 3m 6m 1y max

● AS IPv6 Capable : 85.72 ● AS IPv6 Preferred : 83.87 ● CC IPv6 Capable : 21.56 ● CC IPv6 Preferred : 20.87 | 01:00 October 25, 2016

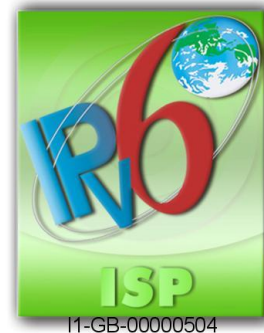
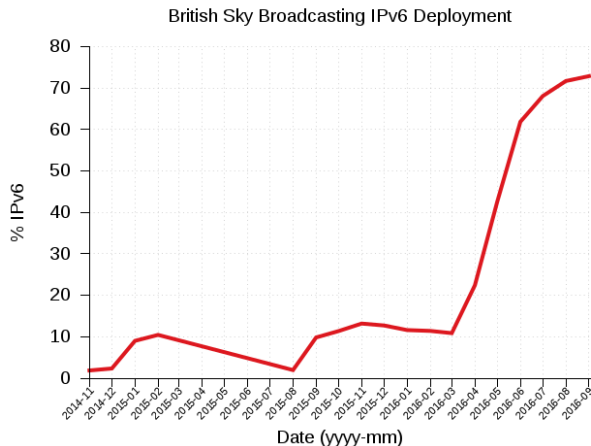


Sky IPv6 Active Dual-Stack Sessions




Sky is one of the largest IPv6 deployments globally

Show 10 ▾ entries		Search: 5607	
Rank ▲	Participating Network ▾	ASN(s) ▾	IPv6 deployment ▾
8	British Sky Broadcasting	5607	72.87%
Showing 1 to 1 of 1 entries (filtered from 272 total entries)			
First Previous 1 Next Last			



Sky completes roll out of IPv6 becoming the first major UK Internet provider to future-proof its service for customers

06 September 2016

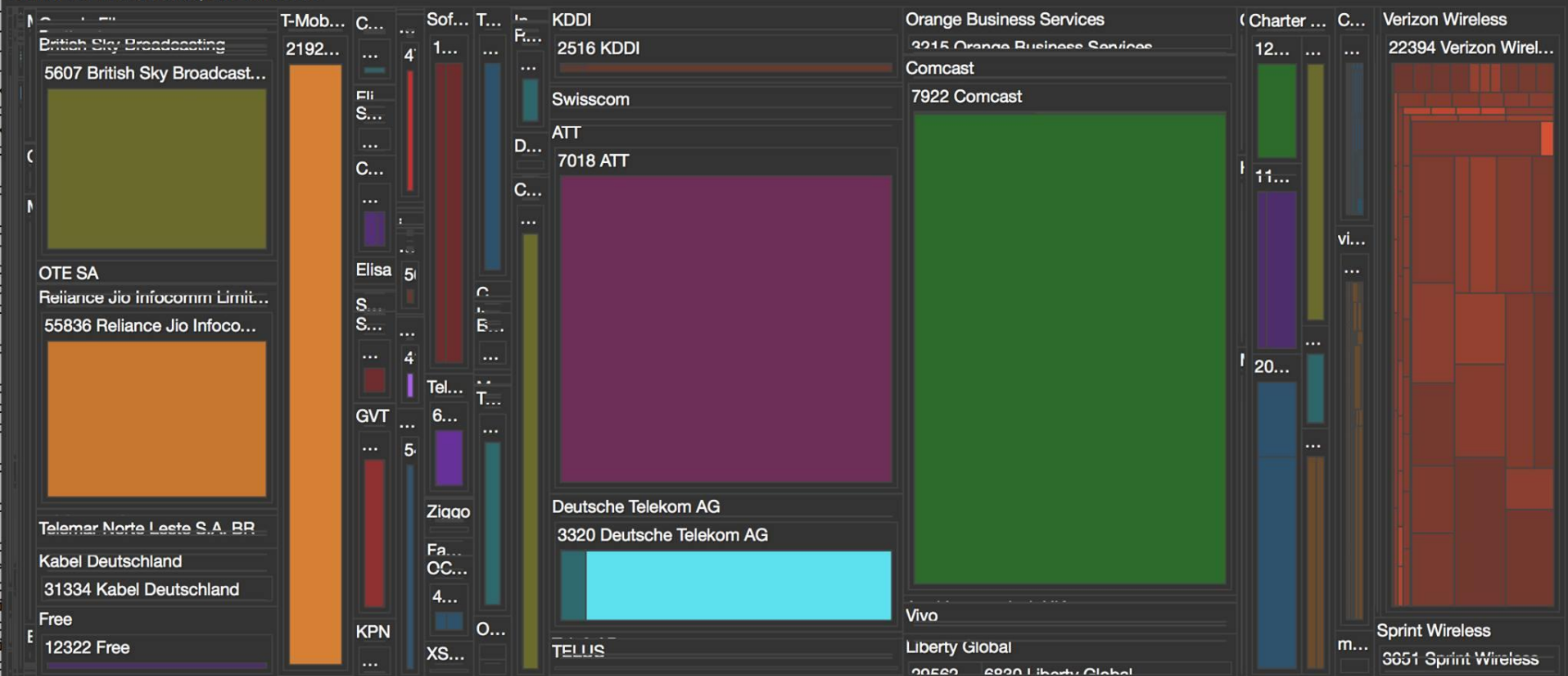
 Share



Sky today announces that over 90% of its broadband customers are now IPv6 enabled, future-proofing its network for millions of customers.

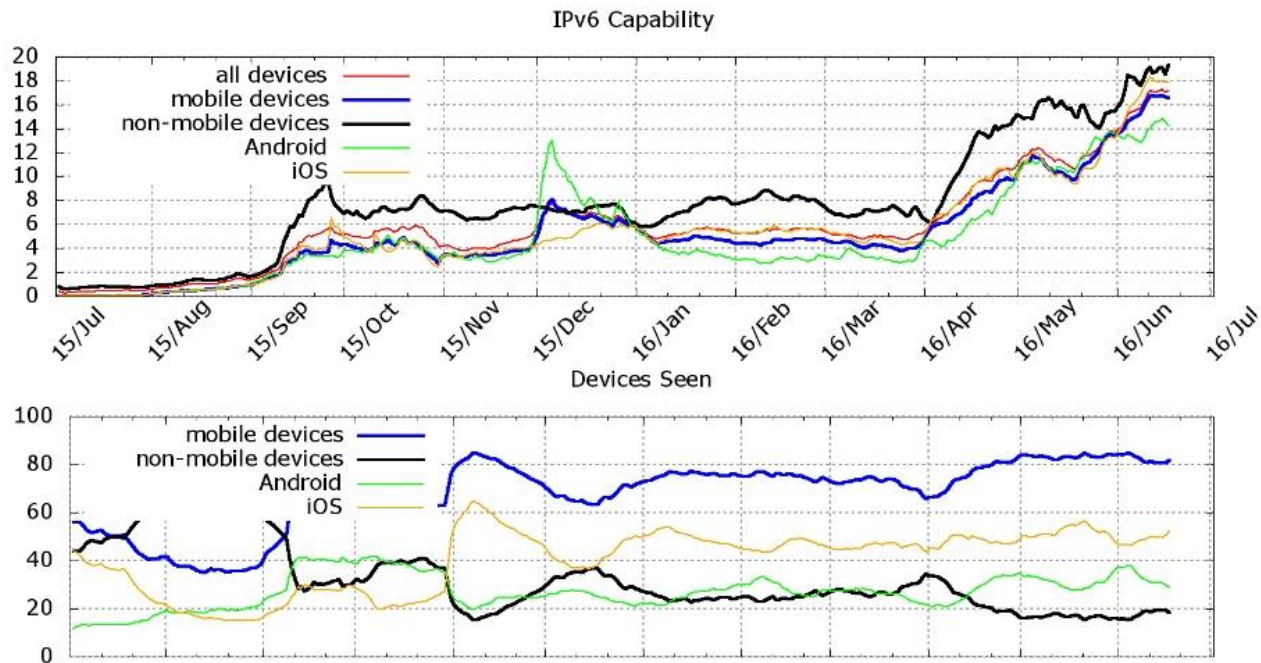
IPv6 Web Requests by Address (from Facebook)

World IPv6 Launch Participants sans 6to4

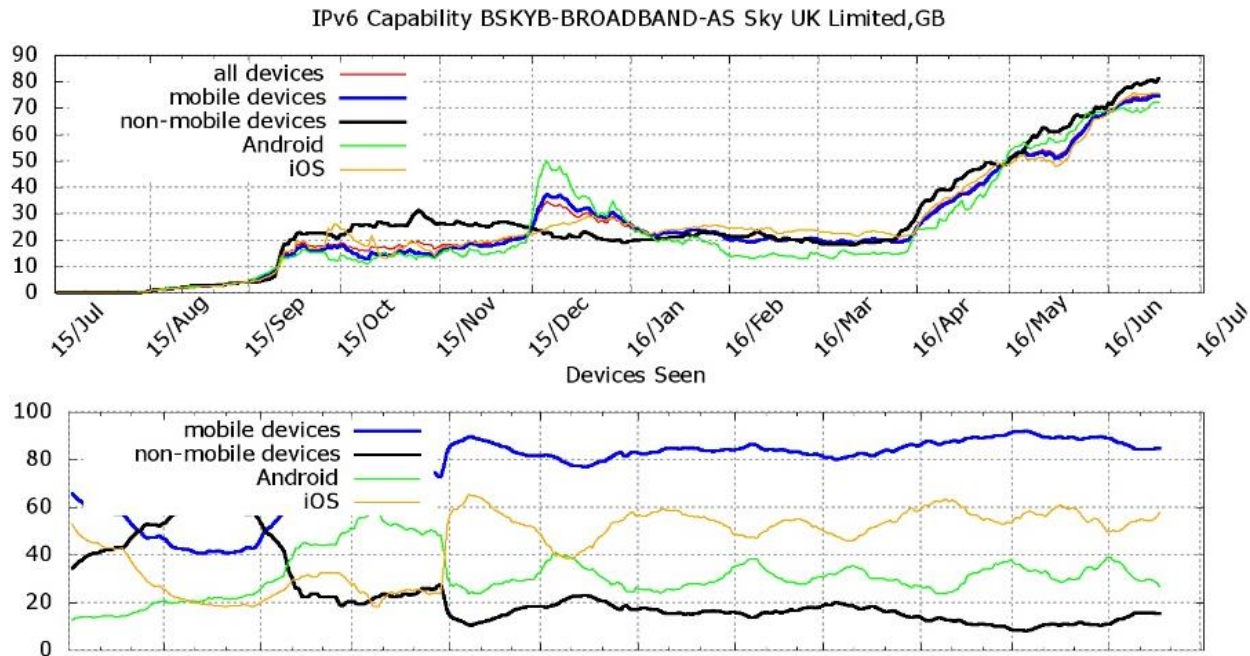




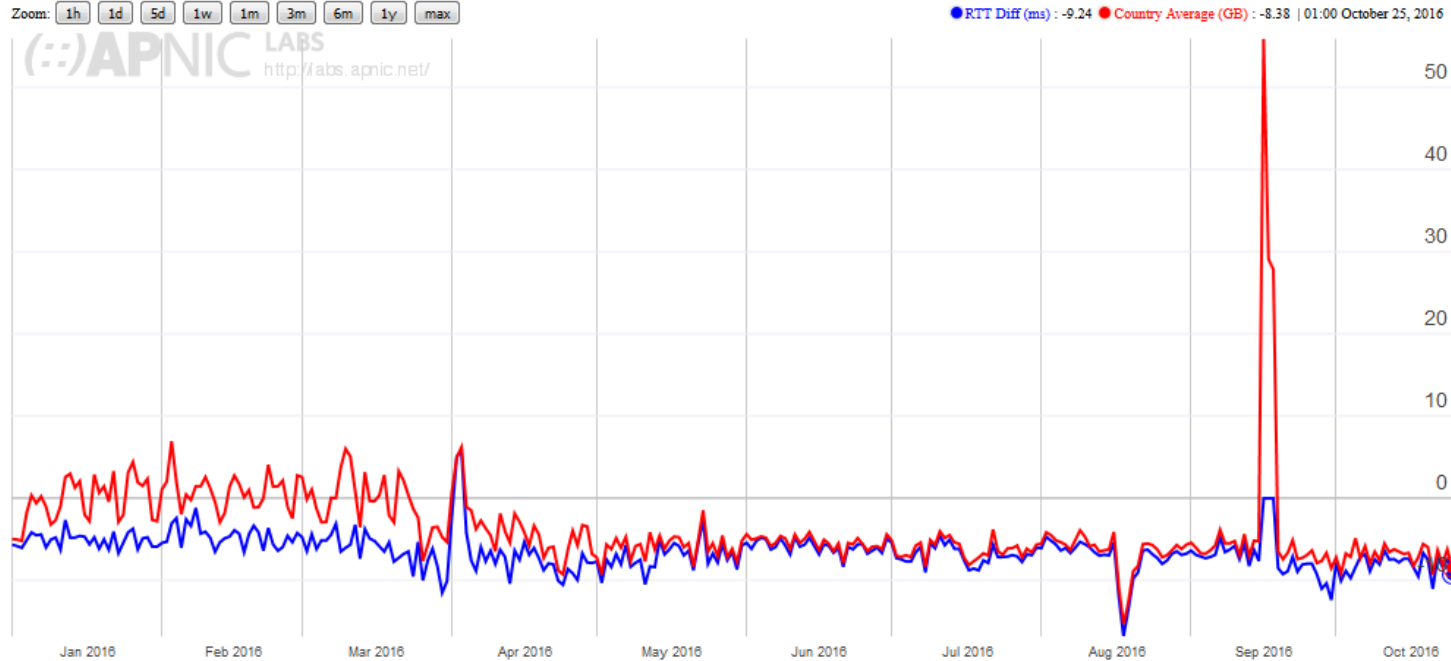
UK IPv6 by Device Type (from APNIC)



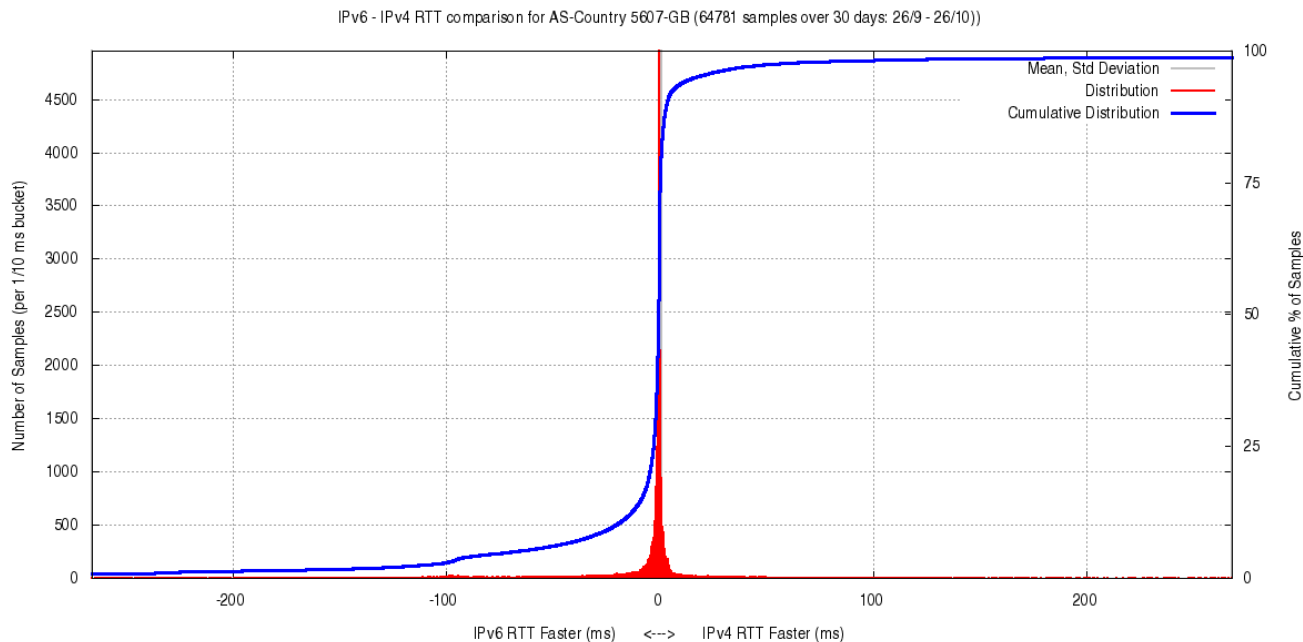
Sky IPv6 by Device Type (from APNIC)



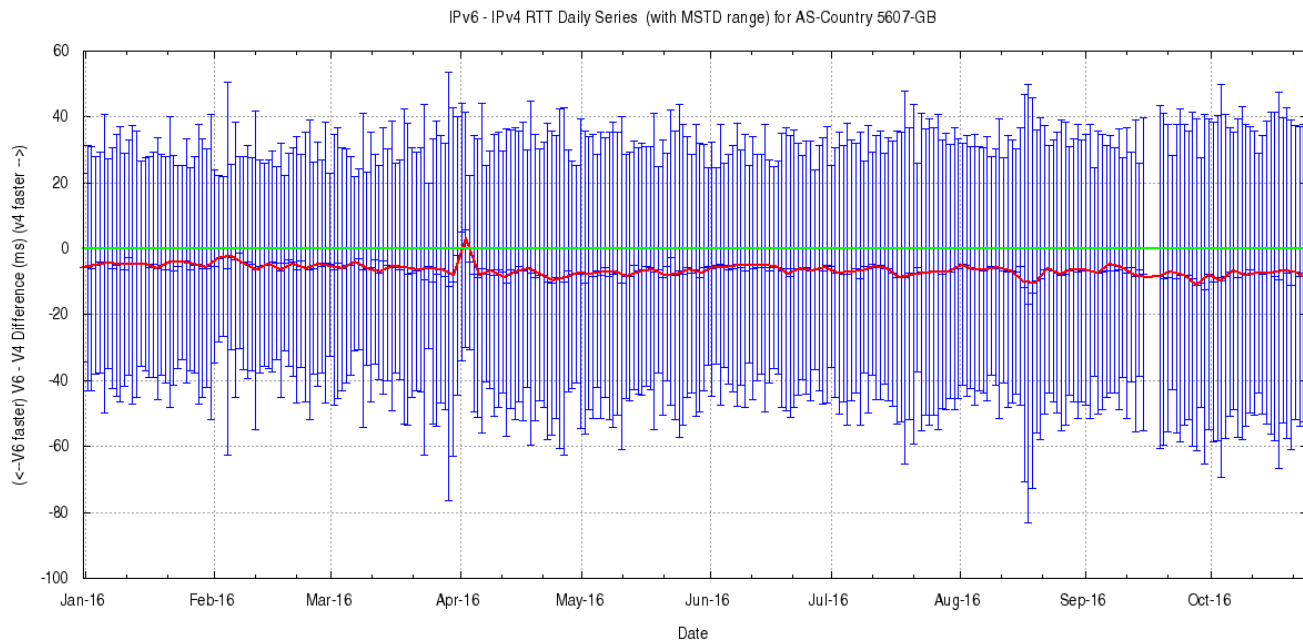
Sky IPv6 RTT Difference (from APNIC)



Sky IPv6 RTT Distribution (from APNIC)



Sky IPv6 RTT Series (from APNIC)



The New Normal

- ~95% IPv6 availability - Default on for new provides
 - Connectivity programme is complete
- ~3% CPE too old – still the case
 - Normal hardware replacement and churn will fix this
- ~1% technology problems - reduced
 - One old platform retired – only off-net remains
- <1% on non-Sky CPEs
 - Fixes for some systems e.g. pfsense

Current Activity

- Enable CPE-facing services
- ISP Platform underway
 - DNS (score 10/10)
 - NTP
 - TR-69
 - Firmware upgrade server
- Remove the necessity for supporting broadband via IPv4

Next Phase

- Enable Subscriber-facing services
- Set Top Box
- Sky Go
- Now TV
- Web

End Game

- Enable Enterprise services
 - Corporate Network
- Enable management plane
- Migrate from native Dual Stack to IPv4aaS
 - Probably MAP
- Mop up

IPv6 Forum Worldwide Deployment AWARD

THIS CERTIFICATE IS AWARDED TO



JIM BOUND
AWARD

FOR SUCCESSFULLY ACHIEVING DOUBLE DIGITS IPv6
PENETRATION AND IS RECOGNIZED AS:

IPv6 WORLD LEADER 2016

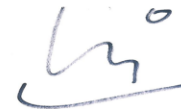


June 21, 2016

<http://www.ipv6forum.com/>

IPv6 Forum Copyrights

IPv6 Ready & Enabled (©) The IPv6 Forum, 1999-2016

A handwritten signature in blue ink, which appears to be 'Latif Ladid'.

Latif Ladid
President
IPv6 Forum



Latif Ladid

@Latifv6

Follow

Sky awarded the Jim Bound IPv6 Award for its IPv6 Leadership in the UK: Ian Dickinson, IPv6 Architect at Sky .





Latif Ladid

@Latifv6

Follow

Sky awarded the Jim Bound IPv6 Award for its IPv6 Leadership in the UK: Ian Dickinson, IPv6 Architect at Sky .



There is
still more
work to
be done



Kevin Otte @nivex · Oct 18

The @nanog 68 agenda has two talks on getting more IPv4 space from the market and nothing on #IPv6. :(



1



Dave Temkin @dtemkin · Oct 18

@nivex @nanog what remains to be said about IPv6 aside from "do it!"? We've had enough "what I did last summer" stories I'd say...



nethope @nethope · Oct 19

@dtemkin @nivex @nanog I'd love to hear someone @twitter tell us what roadblocks to IPv6 they see! We'll either feed @ipv6excuses or help!



Dave Temkin @dtemkin · Oct 19

@nethope @nivex @nanog @twitter @ipv6excuses sure, but hopefully we've evolved past shaming people.



IPv6 Excuses

@ipv6excuses



Follow

@dtemkin @nethope @nivex @nanog
@twitter apparently not: twitter.com/tweetsix/with_...

2:55 pm - 25 Oct 2016



Questions?