An exploration of UK full fibre broadband

Simon Hunt



For a few dollars more

A tale of:

- Grabbing the money
- Self-inflicted wounds
- Twists and turns
- Winning

But no engineering......



UK Full Fibre Broadband

For a few dollars more

A tale of:

- Grabbing the money
- Self-inflicted wounds
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Told with some economic and engineering and insight.....





Infrastructure

Grabbing the money and self-inflicted wounds

- 29m UK Homes, not evenly distributed
 - 68%* Gigabit capable
 - 37%* FTTP
- Two incumbents Openreach and VMO2
 - Homes passed
 - 8m Openreach
 - 2m VMO2
 - 6m 100+ Altnets
- Plans to cover 55m homes passed





Infrastructure

An access network needs a core and metro networks too

ISPs and London Internet Exchange See Record UK Data Traffic

9 Comments

Thursday, Oct 20th, 2022 (2:15 pm) - Score 1,896

Email | Link News Internet traffic across UK broadband ISPs surged last night on the back of several Premier League football matches streamed on Amazon, which resulted in data usage across the London Internet Exchange (LINX) reaching a new record peak of 7.179Tbps (Terabits per second) and TalkTalk hitting 9.105Tbps. The new peak record of 9.105Tbps was set on TalkTalk's network last night at 9:20pm, overtaking their previous record of 8.715Tbps set on April 27th. A similar surge was also witnessed by other ISPs

and can be seen by viewing yesterday's aggregated traffic data from LINX, which handles a key chunk of UK and global data traffic through their switches via around a thousand members (broadband ISPs, mobile operators etc.).

However, LINX does not provide a complete overview of the internet traffic flow from all ISPs, but they do give a useful indication of how much extra traffic is flowing around when compared with normal conditions.



Infrastructure

Its not all about networks

Operating model is key

- Retail is more complex than wholesale Systems are key
- Low automation holds back growth







Service

The customer perspective





Service Innovation

Service Provider Engineer

Marketing

Sales Dropout Activation Early Life In Life Churn



Importantly, 42 of our CP customers have already signed up to the Equinox pricing deal on our full fibre platform. And we continue to strengthen our CP relationships. For example, Sky's engineers can now connect their customers to our network directly



Service Innovation

Service Provider Engineer



Contract for your own installation work



Feel The Speed

You get what you measure



Figure 12: Average 24-hour download speeds, by broadband package: March 2022 (Mbit/s)

TalkTalk 500 Mbit/s FTTP	451.6 406.4	
BT 300 Mbit/s FTTP	303.9 300.1	
TalkTalk 150 Mbit/s FTTP	159.9 155.1	
Sky 145 Mbit/s FTTP	150.2 144.3	
BT 145 Mbit/s FTTP	148.7 146.9	
TalkTalk 67 Mbit/s FTTP	80.0 80.5	
Virgin 1.1 Gbit/s cable		1137.5 1121.8
Virgin 516 Mbit/s cable	\$40.7 531.5	
Virgin 362 Mbit/s cable	380.3 371.6	
Virgin 213 Mbit/s cable	217.9 212.4	
Virgin 108 Mbit/s cable	110.8 109.2	

Google X 🖖 💿 🔍 slow full fibre speed Q All 🕞 Videos 🧷 Shopping 🗉 News 🛄 Images 🗄 More Tools About 14,100,000 results (0.52 seconds) Traffic policing 0 Traffic shaping

Ofcom broadband speeds published October 2022

The Final Scene

- Embrace uneasy partnerships
- Beware the twists and turns
- Be prepared to disrupt
- Don't be fooled by illusions

But there are a few dollars more to be found in full fibre broadband

Questions

