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All IP Update

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Openreach

March 2021

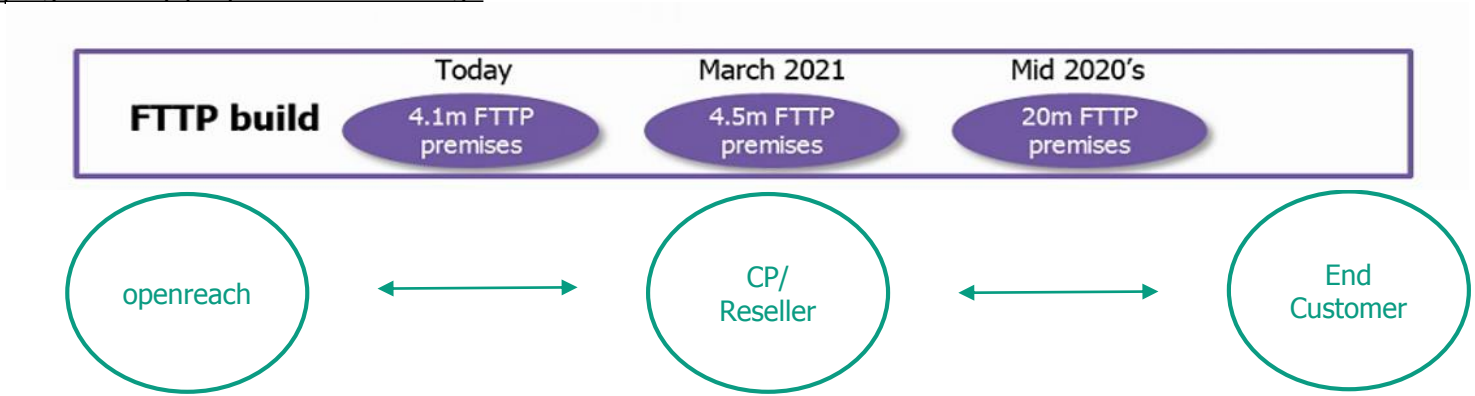
Who are we?

Openreach looks after the fibres, wires and cables that connect the country. So whether you're making calls, video conferencing with clients, sharing files, downloading music, streaming movies, or indulging in a bit of online retail therapy – it's most likely on our network.

We don't sell phone, broadband or TV services to end customers. Instead, we work on behalf of over 650 Communications Providers (CPs) (such as Sky, TalkTalk, Gamma, BT and Daisy) to maintain the local access network that's available to 31.8 million customers, supporting 300 million telephone calls and 350 million internet connections every day.

We are:

- Investing £3 billion to upgrade our network and £14 billion over the past 10 years
- Making sure that over 28.5 million homes and businesses already have access to superfast fibre broadband of over 30Mbps
- Adding over 42,000 Fibre lines every week.
- Helping Industry prepare for the change



What is the ALL IP Programme?

There are two parts of the programme: 1. The withdrawal of the WLR portfolio and 2. Roll-Out of FTTP

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WLR Withdrawal

- The UK PSTN network is reaching end of life, and will be shut down at the end of 2025
- The current portfolio of older lines that form the WLR product family will be withdrawn by the end of December 2025
- The WLR product family is made up of WLR analogue, ISDN 2, ISDN 30 and broadband that runs over analogue lines
- All end customers must move from the withdrawn products before the end of December 2025
- Currently there are around 15M lines and channels to minimise the scale of migration, a National WLR "Stop Sell" will be implemented in September 2023
- openreach will not provide a voice offering post WLR withdrawal

FTTP Exchange Upgrade

- FTTP is now being rolled out across whole exchange areas on a quarterly notification cycle.
- When FTTP coverage reached 75% of all premises in an exchange area, a "Stop Sell" will come into effect for all copper based services where the premises is enabled for FTTP. 220 Have already been identified and communicated to CPs
- "Stop Sell" means that there will be limitations for new supply and what can be done with existing lines.

The impacts of Stop Sell

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- Stop Sell restricts the usage of certain products where there is a strategic aim to withdraw the product at a later date.
- Where the strategic product is available at the premises, order restrictions will be applied, prioritising use of the strategic product(s). Exceptions can apply.
- Where the premises has not been enabled for the new technology legacy products will still be available.

The following order scenarios will not be possible for products restricted by the Stop Sell:


New Supply


Working Line Takeovers


Start of Stopped Lines


Addition of lines and channels to existing installations


Migrations


CP Transfers


Bandwidth Modify


Addition of Broadband to Copper Voice Lines

What does this mean for you as a consumer?

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- If you use hardware that depends on a WLR line, this may not work when the line is converted to ALL IP
- Check that your CP is fully engaged in the ALL IP programme and understands what that means for you
- End customers using WLR and related products must migrate to alternative products based on Broadband
- In-building wiring may not continue to function.
- Carry out a lines inventory and determine how each are being used
- Develop a migration plan with your CP
- Start now!

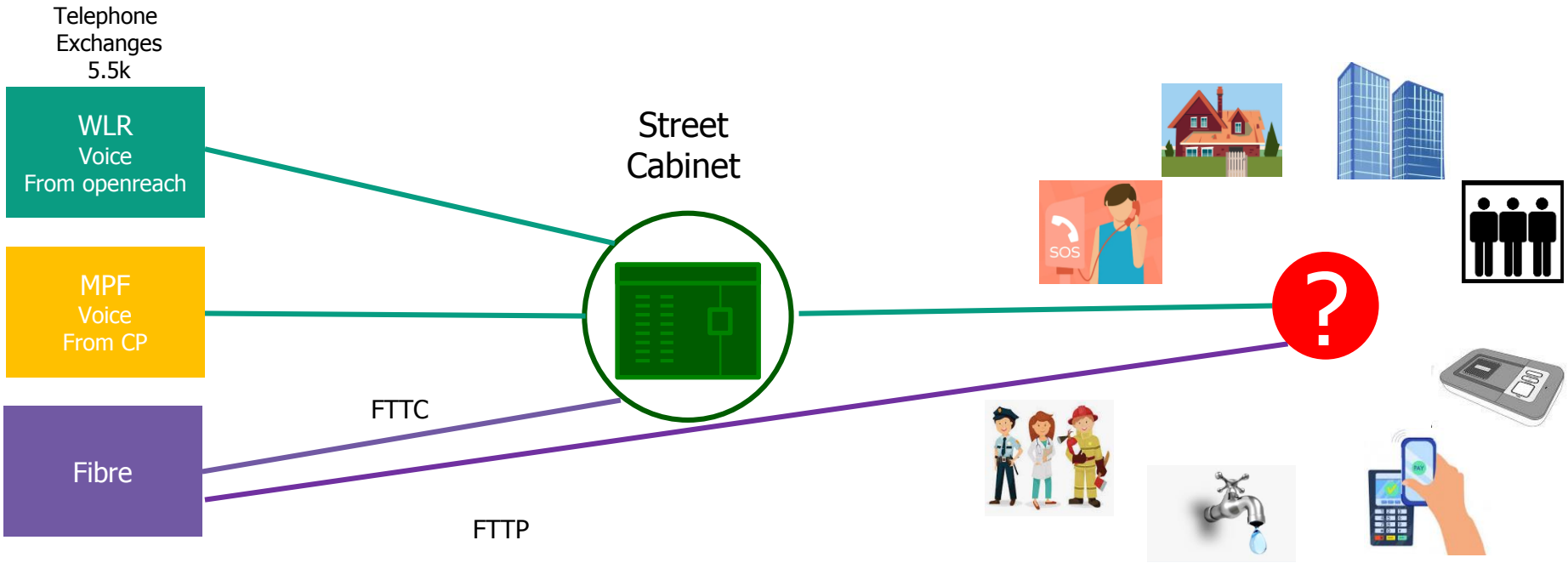
What does this mean for you as a supplier?

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- Check your products and services in the installed base to ensure they will work in an ALL IP Environment. e.g. 50v no longer supplied from Telephone Exchange
- There will be Test Labs in future for you to test your products in an ALL IP environment Assume they wont work!
- Be careful with your procurement strategy and beware of buying equipment that isn't ALL IP ready.
- Extension sockets may not continue to work, so your customer's hardware may need to be moved
- Communications providers will be in touch with their customers so you need to make sure your ready for queries on this from your customers
- There is a tendency to put off the testing and decision making, but what you do now could affect you and your customers for years to come.

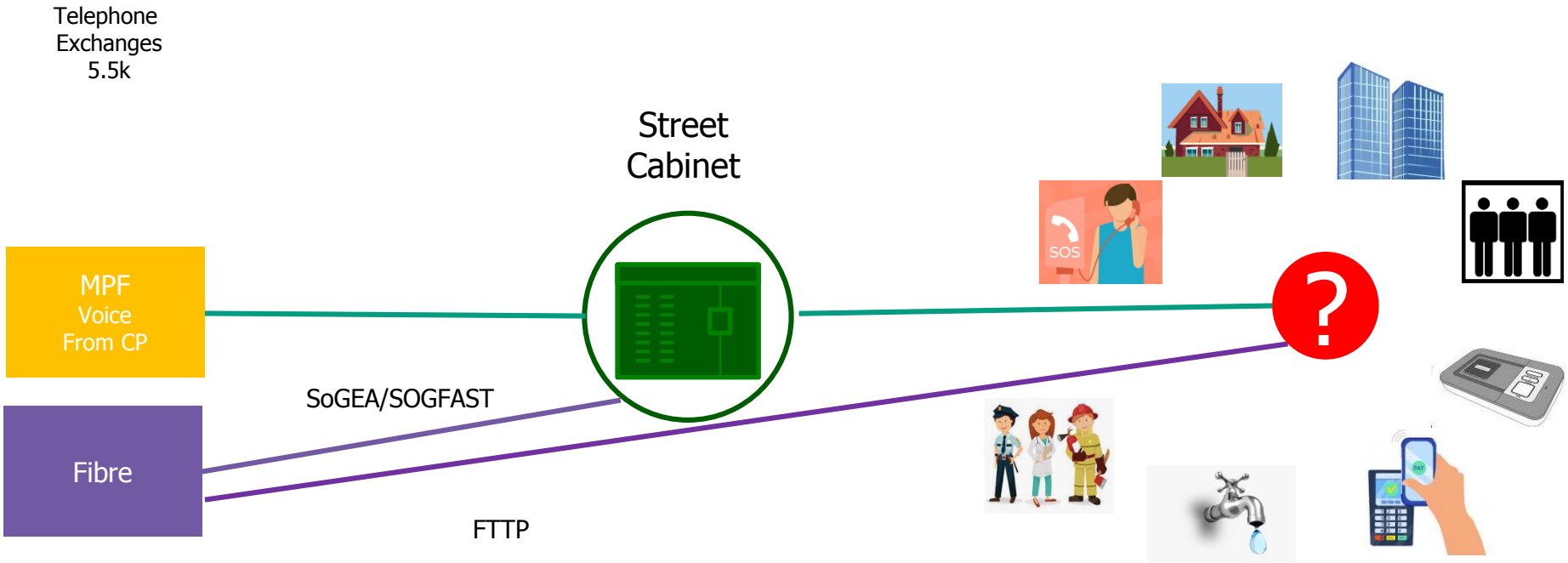
What's changing?

The Network Today



What's changing?

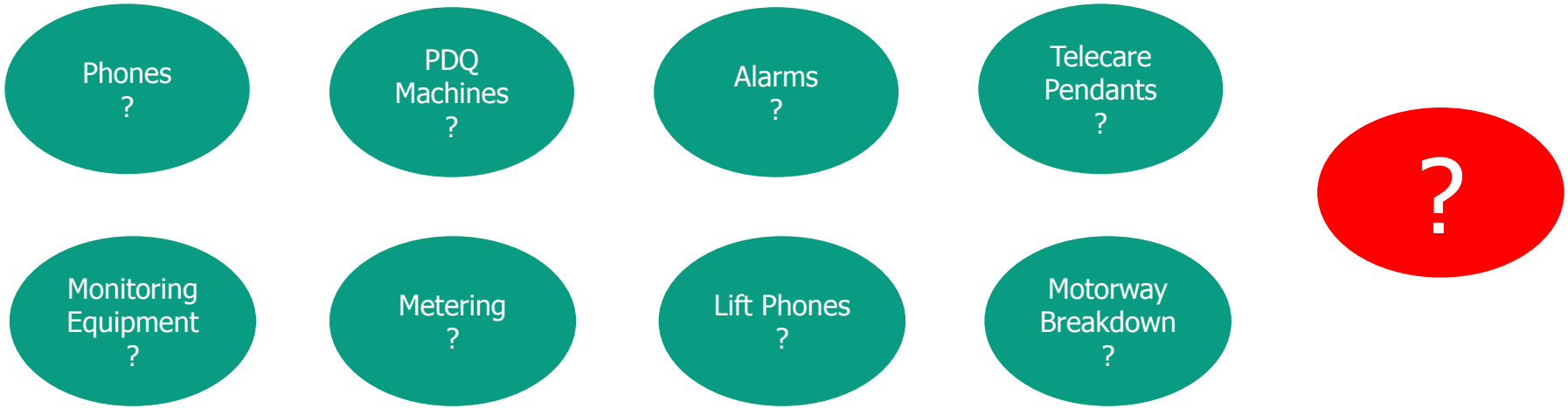
The Network Today



What products might not work?

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If you have products connected today into a telephone line these may not work when the line is changed migrated to ALL IP



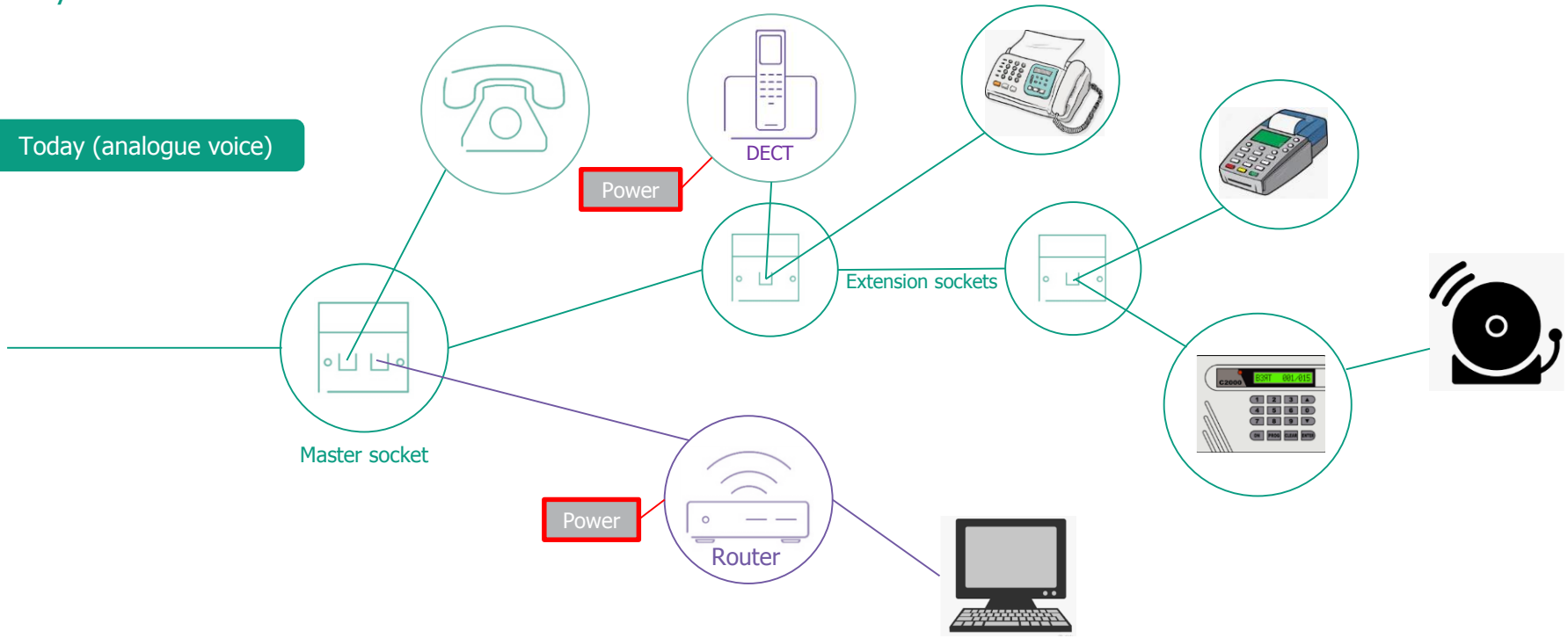
You know your business better than anyone. Take the lead in protecting your business and your customers

So what's changing inside the premises ?

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Today

Today (analogue voice)

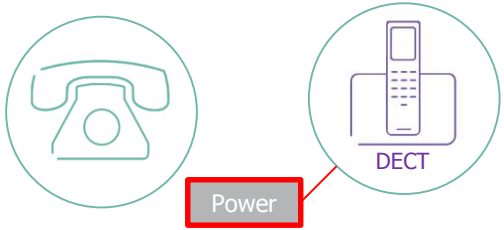


So what's changing in the premises ?

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The Future-Services are provided by the Router **not** the wall socket

Tomorrow (digital IP voice)

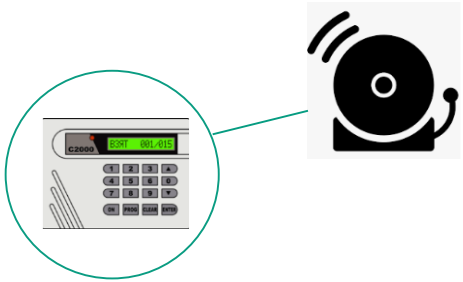




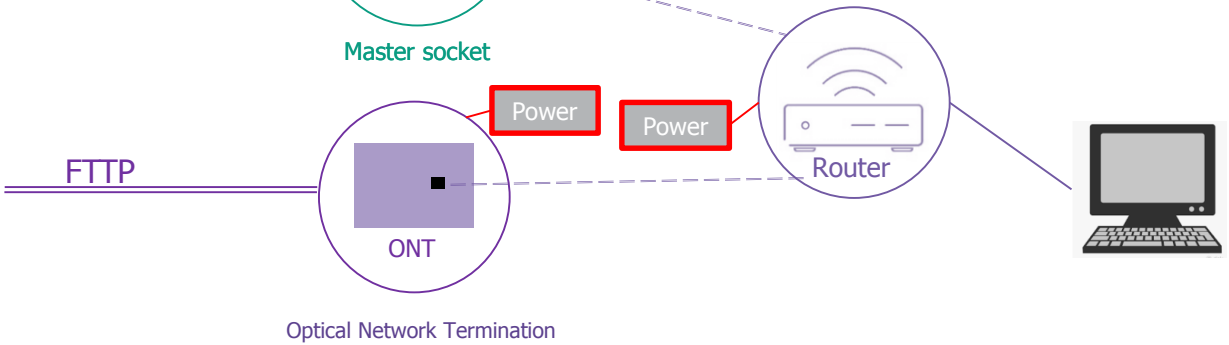


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Connectivity?
Battery Back Up?
Extension Sockets?
50V
VRI?



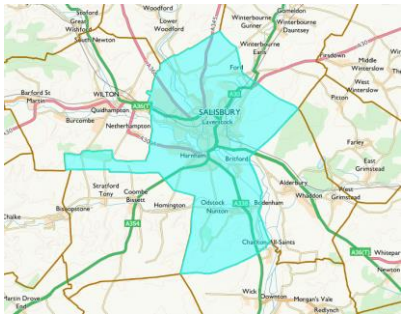




Salisbury and Mildenhall trials

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Salisbury, Wiltshire



FTTP transition

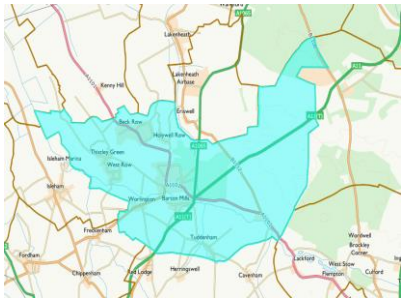
Single exchange area

- 20.5k residential premises
- 1.5k business premises
- The exchange is an OHP
- WLR and MPF will be subject to stop sell

Trial dates are firm:

Milestone	Date
Trials start	6 Jan 2020
Salisbury Products Stop Sell	1 Dec 2020
Mildenhall Products Stop Sell	4 May 2021
Salisbury Products withdrawal	5 Dec 2022
Mildenhall Products withdrawal	5 Dec 2022
Trials Closure	16 Dec 2022

Mildenhall, Suffolk



SOGEA transition

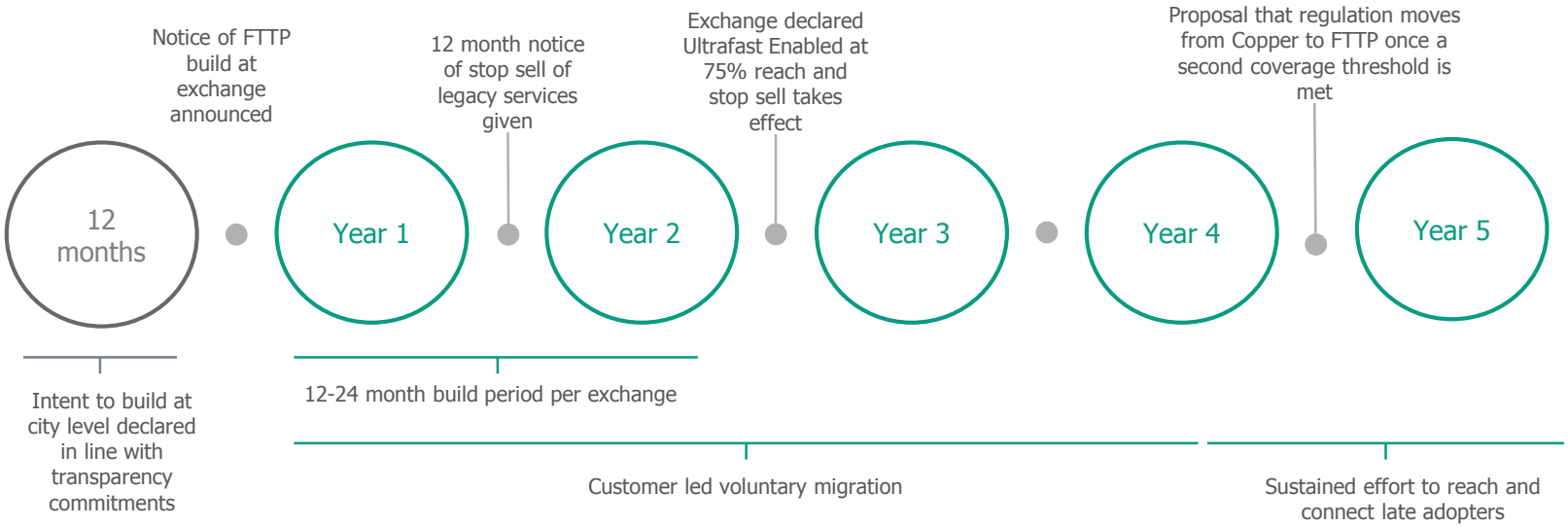
- 7.5k residential premises
- 750 business premises
- OHP at Newmarket
- WLR and MPF will be subject to stop sell

Commercial offer in place

Exchange upgrade programme

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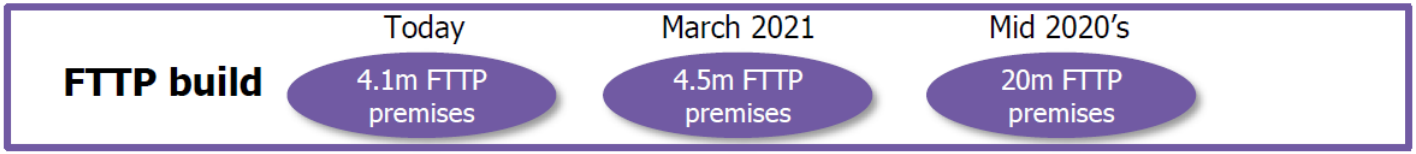
A planned 5/6 year cycle per exchange for FTTP deployment and transition



220 FTTP exchanges are already under stop sell notification (c. 2.2M premises)

Update on progress in transitioning to All IP

Stop Sell locations are growing quickly as FTTP build grows



Salisbury is now live and we will be announcing additional FTTP stop sell exchanges every quarter

National WLR Stop Sell	September 2023
Salisbury Stop Sell implemented	1 December 2020
Mildenhall	Stop sell May 2021
Tranche of FTTP exchange Stop Sell	Notified on 25 January 2021
Ongoing quarterly Stop Sell exchange announcements	

As announced, the Stop Sell implementation rollout across exchanges will begin in June 2021

29 June 2021 Stop Sell for:	**117 FTTP exchanges** **1.2m premises**
5 October 2021 Stop Sell for:	**51** FTTP exchanges **511k** THP coverage
25 January 2022 Stop Sell for:	**51** FTTP exchanges **429k** THP coverage
Total announced so far:	**220** FTTP exchanges **2.2m** THP coverage

So, what should I do now ?

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- Think about the services provided over your customer's lines and your own.
- Will they work on an All IP network ?
- What about local powering and battery back-up ?
- What will you say to your customers and when ?
- How will your and your end customer migrations be performed ?
- Plan – there seems to be plenty of time to complete the change, but there is so much to do
- Talk to Communication Providers
- Keep tabs on our Industry Web Site https://www.openreach.com/upgrading-the-UK-to-digital-phone-lines/industry
- Register for our newsletter https://www.openreach.com/wlr-withdrawal-newsletter-subscription-form
- Test at our lab (current launch date July 2021)

Thanks

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To contact us about the All IP Programme please email

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Programme Summary

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- The UK PSTN is reaching end of life, and needs to be replaced
- WLR and related products will be withdrawn at the end of December 2025
- National WLR stop sell - no new supply from September 2023
- Openreach will not provide a voice offering post WLR withdrawal
- All end customers must move from the withdrawn products before the end of December 2025
- >15 Million Lines/channels to be transferred

Products to be withdrawn:
WLR3 analogue
ISDN 2, ISDN 30
LLU SMPF, SLU SMPF
Narrowband Line Share
Classic



‘Destination’ products:
GEA FTTP
SOGFAST
SOGEA
SOTAP
MPF

- Industry working groups in place co-chair Office of the Telecommunications Adjudicator (OTA)
- https://www.openreach.co.uk/orpg/home/products/wlrwithdrawal/wlrwithdrawal.do