Minutes of the CIBSE Lifts Group Annual General Meeting

16 February 2023, 1700-1900h

PRESENT

Refer Registered Attendees list.

APOLOGIES

John Carroll Nick Mellor Phill Pearson Richard Peters Rory Smith

DISTRIBUTION

Those present, apologies and web site



The Chartered Institution of Building Service Engineers 222 Balham High Road London SW12 9BS

Telephone 020 8675 5211 Facsimile 020 8675 5449 www.cibse.org

Ι.	Welcome and apologies		
	The meeting was opened by AS.		Note
2.	Minutes of previous meeting		
	The previous minutes were reviewed and acce	epted without amendment.	Note
3.	Matters arising		
	None.		Note
4.	Report for 2022		
	WCL presented a summary of the activities for after Covid. The slides for this presentation are		Note
5.	AGM Elections		
5.	AGM Elections NEW Nominations of 2023:		
5.	AGM Elections NEW Nominations of 2023: Chair	MICHAEL BOTTOMLEY	Note
5.	AGM Elections NEW Nominations of 2023: Chair Vice Chair	MICHAEL BOTTOMLEY PHILL PEARSON	Proposer :
5.	AGM Elections NEW Nominations of 2023: Chair Vice Chair Secretary	MICHAEL BOTTOMLEY PHILL PEARSON WEE CHUAN LIM	
5.	AGM Elections NEW Nominations of 2023: Chair Vice Chair Secretary Treasurer	MICHAEL BOTTOMLEY PHILL PEARSON WEE CHUAN LIM RICHARD PETERS	Proposer : Derek Finch Seconder:
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		1
6.	Events in 2023	
	GB reported that the Executive were planning the following seminars/events:	Note
	 AGM and Seminar 1, 16 Feb 2023 (London). Seminar 2 - Manchester, 6 June 2023 Lift and Escalator Symposium, 20-21 September 2023 (Northampton) Annual Seminar, 29 November 2023 (London) – May be combined with Build2Perform in December. AGM and Evening Seminar, 21 Feb 2024 (London) 	
	Full details of these events and instructions on how to book will be posted on the web site <u>www.cibseliftsgroup.org</u> .	
	AS extended an open invite to the group to suggest topics for future seminars.	
7.	Education, Training and CPD	
	 CIBSE + LEIA Collaboration Paul Clements to create regular posts via LinkedIn. 	Note
8.	Treasurer's report	
	A copy is attached to these minutes.	Note
9.	Standards and Regulations	
	AS and GB provided updates. Refer to attached slides for summary.	Note
10.	Any other business	
	None.	Note
11.	Next meeting	
	The next Lifts Group AGM and Evening Meeting will be on 21 February 2024 (confirmed details + information of the seminars mentioned above, will be available via CLG events page. <u>https://www.cibse.org/lifts-group/events</u>)	Note
12.	Close and Evening Seminars	
	AS: Thank you for the support and being members of the CLG. If anyone is interested and are not members, please encourage them to. It is free to join. The purpose is to share any useful information upskill and to share knowledge.	Note

END

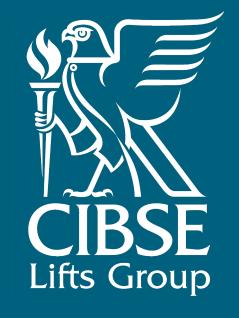


Annual General Meeting

16 February 2023

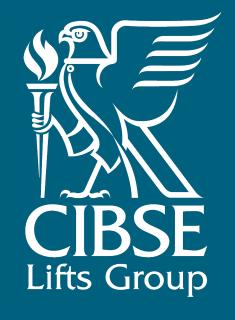
Agenda

- 1. Welcome and apologies
- 2. Minutes of previous meeting
- 3. Matters arising
- 4. Report for 2022
- 5. Election of officers
- 6. Events in 2023
- 7. Education, Training & CPD
- 8. Treasurer's report for 2022
- 9. Standards and regulations
- 10. Any other business
- 11. Date of next Annual General Meeting

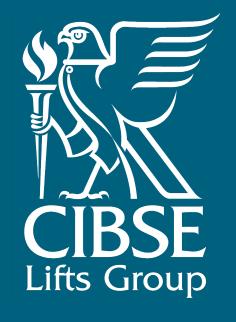


1. Welcome and Apologies

Adam Scott



2. Minutes of Previous Meeting



Lifts Group Minutes of the CIBSE Lifts Group AGM 2 February 2022



The Chartered Institution of Building Service Engineers 222 Balham High Road London SW12 9BS Telephone 020 8675 5211 Facsimile 020 8675 5449 www.cibse.org

PRESENT

Refer Registered Attendees list.

APOLOGIES

David Cooper WeeChuan Lim

DISTRIBUTION

Those present, apologies and web site

1. Welcome and apologies The meeting was opened by AS.

Minutes of previous meeting
 The previous minutes were reviewed and accepted without amendment.

3. Matters arising

4. **Report for 2021** RP presented a summary of the activities for 2021. The slides for this presentation are attached to these minutes.

5. AGM Elections

There had been no new officer nominations received following the AGM announcement. The following will remain for the 2022 Executive:

Chair & BSi RepresentativeADAM SCOTTVice ChairMICHAEL BOTTOMLEYSecretaryWEE CHUAN LIMTreasureRICHARD PETERSEvents Organiser (North of England)PHILL PEARSONEvents Organiser (South of England)GINA BARNEYTechnical Editor CIBSE Guide)JOHN BASHFORDTraining DevelopmetDAVID COOPERPress & PublicityPHIL PEARSONLEIA RepresentativeSTEFAN KACZMARCZYKVINVersity of Northampton RepresentativeSTEFAN KACZMARCZYKInternational Representative AUJOHN CARROLL

6. Events in 2022

GB reported that the Executive were planning the following seminars/events:

- Seminar and AGM 02 Feb 2022.
- Firefighters and Evacuation Lifts, 7 June 2022 (Manchester)
- Lift and Escalator Symposium, 21-22 September 2022
- Annual Seminar, 29 November 2022 (London)
- Evening Meeting and AGM (7 Feb 2023)

RP reported that the Symposium on Lift & Escalator Technologies will be held in person and online in 2022. 13 papers confirmed, will be a full programme. Registration is LIVE

Full details of these events and instructions on how to book will be posted on the web site www.cibseliftsgroup.org .

AS extended an open invite to the group to suggest topics for future seminars.

7. Education, Training and CPD

AS: Highlighted the changes to the CLG website with more information and knowledge sharing focus posted over the past year. developing the CLG website as a source of information. (Link to CLG Learning Portal: https://www.cibse.org/lifts-group/learning-portal)

GB: we have posted a number of youtube clips on the CLG pages for easy access. (Link to CLG Seminar 01: "Fire Fighters and Evacuation Lifts"

https://www.cibse.org/Lifts-Group/Learning-Portal/Presentation-and-Videos/CLG-Seminar-2022)

GB reminded the need to maintain CPD records. Approx. 10% of members are randomly selected to formally present their CPD records. If members fail to provide the records, they will be referred to the professional conduct committee (which GB is part of) and may be removed from the institution.

AS: training and education/knowledge will come into focus off the back of the upcoming Building Safety Bill. More formal requirements to demonstrate competence to practise will be likely.

8. Treasurer's report

A copy is attached to these minutes. Donation to the LES Education Trust to answer appeal when the LES was cancelled.

RP: not much activity in the past year. RP banked in £1 to keep the account open. have to rethink the account moving forward as HSBC has started charging monthly. Expect a significant addition from the proceeds of the 2 Feb 2022 Seminar with strong attendance.

9. Standards and Regulations

AS: Usually GB and AS will report the updates by this year. But the MHE/4 meeting this year was held 3 Feb 2022. Particular focus on updates to Fire fighters/ evacuation BS9999, BS9991 and EN 81-76.

Notes have been appended.

GB: Nick Millar (LEIA) and GB reviewing the BS7255.

10. Any other business

Nick Mellor highlighted:

- a. "Lift Apprenticeship End Point Assessment Organisation" is approved by Ofqual as of 30 Dec 2021, which a huge accomplishment. Will be offering first assessment in Spring 2022.
- b. LEIA wants to put strategy to the board. To do more for training but is constrained by the lack of people with the skill sets and expertise. If anyone wants to get involve with training. Please get in touch. GB: LEIA members should refer to the CLG material. NM: want to resource the initiative so as to explore in more depth.

11. Next meeting

The next Lifts Group AGM and Evening Meeting will be on 7 February 2023 (confirmed details + information of the seminars mentioned above, will be available via CLG events page. <u>https://www.cibse.org/lifts-group/events</u>)

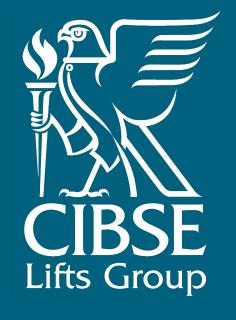
12. Close

AS: Thank you for the support and being members of the CLG. If anyone is interested and are not members, please encourage them to. It is free to join. The purpose is to share any useful information upskill and to share knowledge.

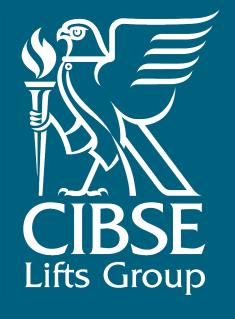
END

Page 4 of 4

3. Matters Arising



4. Report for 2022



2 February 2022

AGM and Seminar 1 - London Fire Fighters and Evacuation Lifts



The importance of firefighters and evacuation lifts within the broader Fire Strategy for a building

Farrokh Azad Associate Director Operations Manager Fire, SWECO

Update on Firefighters and



Nick Mellor MD of LEIA

Evacuation Lifts



The London Plan 2021 and its implications for lift system design

Adam Scott CLG Chair and Technical Director -Vertical Transportation, SWECO

7 June 2022

Seminar 2 - Manchester



Why did I sign up to get a CEng?

evacuation lifts (the London Plan)

Why should Manchester bother

CLG Chair and Technical Director -

Vertical Transportation, SWECO

Philip Pearson Pearson Consult

Dr. Gina Barney

Capacity calculation for

Gina Barney Associates

with the London Plan?







The Practical Problems in Providing Evacuation Lifts

Nick Mellor MD of LEIA

Adam Scott

29 November 2022

Annual Seminar - London



The technical challenges involved in lifting 40 tonne trucks using rigid chain technology in a confined space

Energy efficient buildings assessing the impact of lifts

Philip Pearson

Pearson Consult

Adam Scott



CLG Chair and Technical Director -Vertical Transportation, SWECO



Rated load and maximum available car area: a proposal to revise EN81-20, table 6

Dr. Gina Barney Gina Barney Associates



Exploring IoT applications for vertical transportation (VT) to tackle challenges in a modern world

Paul Clements Associate, D2E



Global dispatcher interface - initial prototype design

Jonathan Beebe Ltd.

21-22 September 2022

2022 - 13th Symposium on Lift and Escalator Technologies, Northampton



13TH SYMPOSIUM ON LIFT & ESCALATOR TECHNOLOGIES

Volume 13 September 2022 ISSN 2053-7225 (Print) ISSN 2052-7233 (Online)

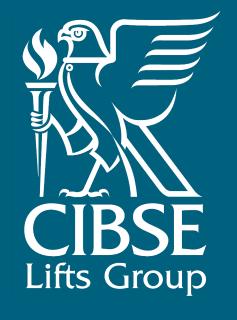
www.liftsymposium.org



CONTRACTOR DESCRIPTION OF A DESCRIPTIONO



5. Election of Officers



Chair - Michael Bottomley Vice Chair - Phil Pearson Secretary - Wee Chuan Lim Treasurer - Richard Peters Events Organiser (North) - Phil Pearson Events Organiser (South) & Technical Editor CIBSE Guide D - Dr Gina Barney BSi Representative - Adam Scott Event Exhibition - John Bashford Training Development - David Cooper Press and Publicity - Paul Clements LEIA Representative - Nick Mellor University of Northampton Representative - Stefan Kaczmarczyk SAFED Representative - Vince Sharpe International Representative USA - Rory Smith International Representative AU - John Carroll

6. Events in 2023



16 February 2023

AGM and Seminar 1 - London

6 June 2023*

Seminar 2 - Manchester

20-21 September 2023

14th Lift and Escalator Symposium, Hilton Hotel, Northampton

29 November 2023*

Annual Seminar - London



Digital Switch

Matt Davis AVIRE



Replacement of Landlines with Mobile (GSM) Gateways for Lift Emergency Communication

Jason Goodwin Regional Sale Manager, 2N In-Person Event.

Full Details and instructions to register will be posted on the CLG Website under EVENTS.

www.cibseliftsgroup.org



*Tentative date. Updates will be posted on CLG Website

7. Education Training and CPD









Paul Clements Associate, D2E

- Regular Postings and LinkedIn Updates
- Please use the contact form on the CLG website to send suggestions

liftsgroup@cibse.org

8. Treasurer's Report for 2022

Richard Peters



CIBSE Lifts Group Accounts 2022 Expenditure Income Balance brought forward as at 1 February 2022 £4,397.52 Eventbrite Registration fees from Annual Seminar 2 February 2022 £2,313.38 £6,710.90 HSBC - 25 February 2022 Monthly account fee £5.00 £6,705.90 HSBC - 25 March 2022 Monthly account fee £5.00 £6,700.90 Greater Manchester Chamber of Commerce - 20 April 2022 Room Hire for Meeting 7 June 2022 £528.00 £6,172.90 HSBC - 25 April 2022 £5.00 Monthly account fee £6,167.90 HSBC - 25 May 2022 £5.40 £6,162.50 Monthly account fee HSBC - 25 June 2022 Monthly account fee £5.00 £6,157.50 HSBC - 25 July 2022 Monthly account fee £5.00 £6,152.50 HSBC - 25 August 2022 £5.00 £6,147.50 Monthly account fee HSBC - 25 September 2022 £5.00 £6,142.50 Monthly account fee HSBC - 25 October 2022 Monthly account fee £5.00 £6,137.50 HSBC - 25 November 2022 Monthly account fee £5.00 £6,132.50 Eventbrite Registration fees from Annual Seminar 29 November 2022 £1,228.18 £7,360.68 HSBC - 25 December 2022 £5.00 £7,355.68 Monthly account fee HSBC - 25 January 2023 £5.00 Monthly account fee £7,350.68

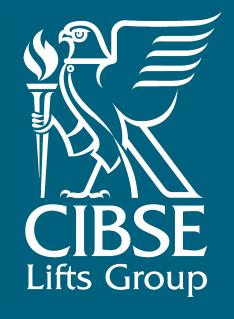
Balance as at 31st January 2023

£7,350.68

Richard Peters Treasurer.

9. Standards and Regulations

Adam Scott and Dr. Gina Barney



Evacuation Lifts

EN 81-76 has passed through public comment. Agreement on technical comment should be reached middle of this year, with publication early to mid 2024.

BS 9991 remains in draft and is linked to Part 76. Likely publication late 2023.

Accessibility

Updated **BS EN81-70 + A2** has now been published – harmonization (designation) scheduled Q2 2023.

Safe Working

BS 7255 about to come out for public comment with publication scheduled for end of this year.

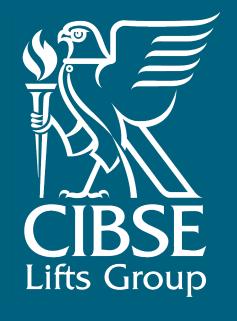
Alarms

BS EN81-28 revision well advanced and likely to come out for public comment middle of this year.

Modernization

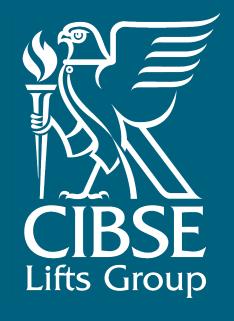
BS 5655-11/-12 work item started for revision – currently 2005!

10. Any Other Business



11. Date of next AGM

Tentatively 21 February 2024



Updates on CLG Website



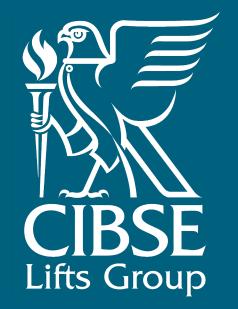
NA = AR CIBSE About CIBSE Journal 12 Certification 12 Login 😝 Search Q ← Back To Special Interest Groups Knowledge & Research + Membership & Registration + Training + Policy & Insight + What's On + Get Involved + Lifts Group CIBSE Lifts Group The CIBSE Lifts Group is formed of members who have an Events interest in vertical transportation. The group meets regularly Codes and Standards to promote technical standards, training and education, Learning Portal publications and various aspects of the industry. Lifts Group We have regular seminars which are traditionally well attended and deal with specific **Related content** Committee topics. Minutes of Past The group, although formal in structure and operation, is a friendly meeting place for Meetings those interested in lifts and escalators and everybody with an interest in vertical Content Contact the Lifts Codes and Standards transportation systems including: Group · Manufacturers, Suppliers and Installers · Building Owners and Operators Knowledge Insurers Escalators and moving walks - Top Tips 4 (2015) Consultants · Academics and Researchers Trade Press Knowledge As a member you will receive information on special visits, seminars and activities which Guide D: Transportation systems in buildings SE Guide 🧃 are arranged by the Group or are of interest to the Group, keeping you up to date with (2020) (pdf) industry and institutional activites. Members are encouraged to make attendance of the Group's AGM a priority. Knowledge As a body representing Building Services Engineers in all areas of building services GEEM Elevator & Escalator Micropedia, 6th engineering, the Institution's standing and, hence, that of the members, benefits from the Edition (Soft Cover) willingness of members who give time and expertise to the committees and panels who run the Institution and formulate the views of the profession. By indicating an interest in the vertical transportation and a willingness to participate, members facilitate this process.

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CIBSE Lifts Group





EVENING MEETING

16 February 2023 CHAIR - Dr Gina Barney

Agenda

1. Digital Switch

– Matt Davies, AVIRE

2. Replacement of Landlines with Mobile (GSM) Gateways for Lift Emergency Communication

– Jason Godwin, 2N Regional Sales Manager

- 3. Q & A
- 4. Close



Déjà vu?

DD 265:2008

DRAFT FOR DEVELOPMENT

Protocol for communications between a lift alarm system and an alarm receiving station (rescue centre) – Specification

ICS 13.320; 91.140.90

This publication is not to be regarded as a British Standard.

It is being issued in the Draft for Development series of publications and is of a provisional nature because of future changes in telephone technology. It should be applied on this provisional basis, so that information and experience of its practical application can be obtained.

A review of this Draft for Development will be carried out not later than $2\ {\rm years}$ after its publication.

Notification of the start of the review period, with a request for the submission of comments from users of this Draft for Development, will be made in an announcement in the appropriate issue of Update Standards.

According to the replies received, the responsible BSI Committee will judge whether the Draft for Development can be converted into a British Standard or what other action should be taken.

Observations which it is felt should receive attention before the official call for comments will be welcomed.

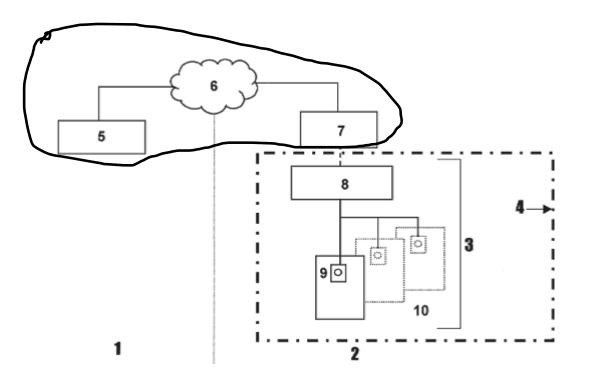
These should be sent to the Secretary of BSI Technical Committee MHE/4 at British Standards House, 389 Chiswick High Road, London W4 4AL.



British Standards

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EN81:28 Boundary - schematic



Key

- 1. rescue service
- 2. site
- 3. alarm system
- 4. boundary of this standard
- 5. reception equipment
- 6. communication network
- 7. transmitter
- 8. alarm equipment
- 9. alarm initiation device
- 10. lifts



We are interested how the alarm gets to/from the rescue centre



"How do you send text messages?"





Mobile



Fibre

Telegraph

Updates on CLG Website



NA = AR CIBSE About CIBSE Journal 12 Certification 12 Login 😝 Search Q ← Back To Special Interest Groups Knowledge & Research + Membership & Registration + Training + Policy & Insight + What's On + Get Involved + Lifts Group CIBSE Lifts Group The CIBSE Lifts Group is formed of members who have an Events interest in vertical transportation. The group meets regularly Codes and Standards to promote technical standards, training and education, Learning Portal publications and various aspects of the industry. Lifts Group We have regular seminars which are traditionally well attended and deal with specific **Related content** Committee topics. Minutes of Past The group, although formal in structure and operation, is a friendly meeting place for Meetings those interested in lifts and escalators and everybody with an interest in vertical Content Contact the Lifts Codes and Standards transportation systems including: Group · Manufacturers, Suppliers and Installers · Building Owners and Operators Knowledge Insurers Escalators and moving walks - Top Tips 4 (2015) Consultants · Academics and Researchers Trade Press Knowledge As a member you will receive information on special visits, seminars and activities which Guide D: Transportation systems in buildings SE Guide 🧃 are arranged by the Group or are of interest to the Group, keeping you up to date with (2020) (pdf) industry and institutional activites. Members are encouraged to make attendance of the Group's AGM a priority. Knowledge As a body representing Building Services Engineers in all areas of building services GEEM Elevator & Escalator Micropedia, 6th engineering, the Institution's standing and, hence, that of the members, benefits from the Edition (Soft Cover) willingness of members who give time and expertise to the committees and panels who run the Institution and formulate the views of the profession. By indicating an interest in the vertical transportation and a willingness to participate, members facilitate this process.

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CIBSE Lifts Group



CIBSE Lifts Group Accounts 2022						
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Balance as at 31st January 2023

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Richard Peters Treasurer. WWW.AVIRE-GLOBAL.COM

The Impact of the Digital Switch on Lift Alarms CIBSE Lifts Group 15/02/23





What is the 'digital switch'? Nationwide mass upgrade of analogue copper telecoms

infrastructure, to latest fibre based digital technology

- Also referred to as 'Fibre To The Premises' (FTTP)
- data
- switch telephone network (PSTN, aka "Landlines"):
 - 48V power on phones lines removed
 - signalling)
- by 2025
- now...

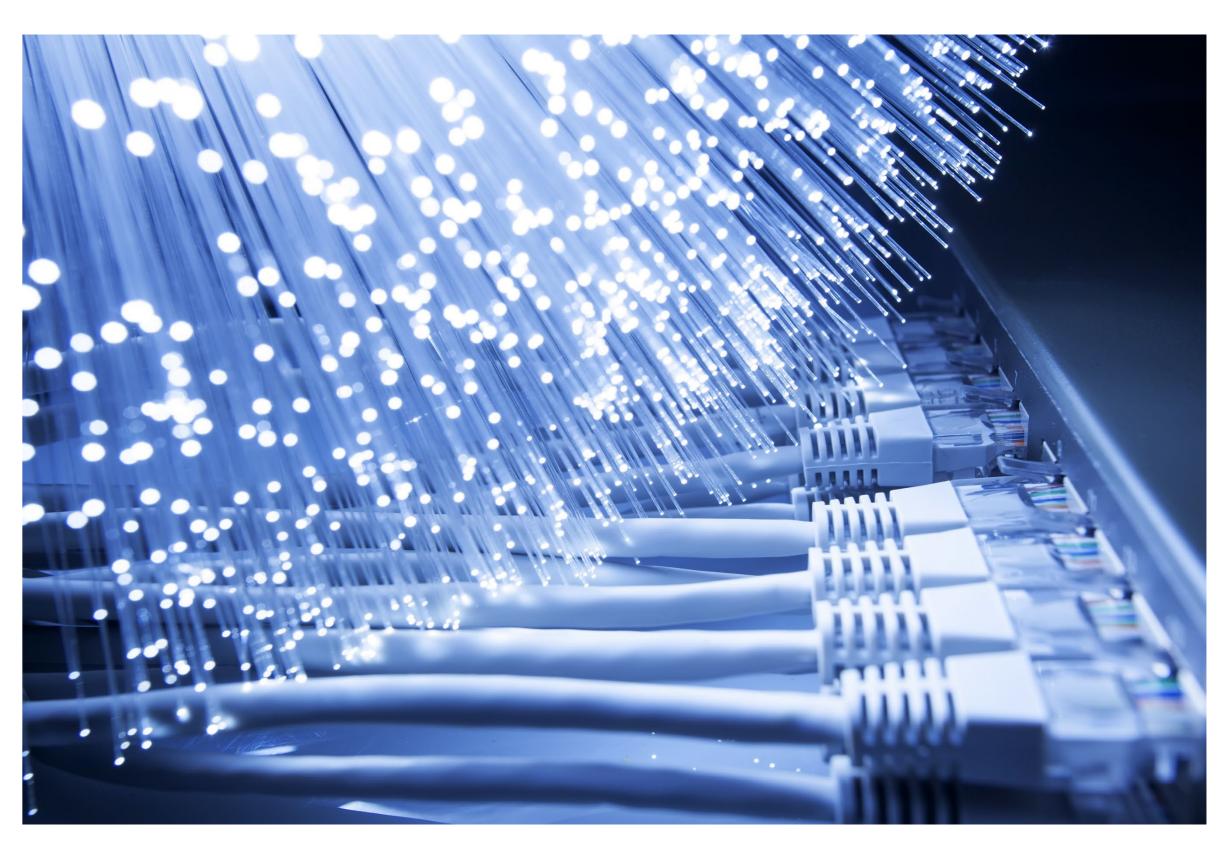
• Copper network is no longer fit for purpose so needs to be upgraded to fibre optic due to our ever increasing demand for

 This also means the end of analogue support on the public • Reduction in, then removal of, support for analogue signalling (specifically 'dual tone multi-frequency', DTMF,

• Full fibre will deliver an estimated £59bn boost to UK productivity

Previous changes to the PSTN have not affected lift alarms until





ONENCO

An estimated 257k lift alarms in the UK are still connected to landlines

- is required for 3-day test calls
- Communication Providers (CPs) today
- network in Dec 2025
- increase the pace of the roll out/impact

Impact on Lift Alarms

• Vast majority of the lift alarms installed are analogue devices, so need analogue signalling to operate correctly - DTMF signalling

Current analogue support on fibre lines varies between

Analogue support will be completely withdrawn across the UK

"Stop Sell" of analogue services in Sept 2023 will further





Pace of change 7 million premises and

counting...

- 2019 685k premises served by fibre
- reach 10 million by the end of the year

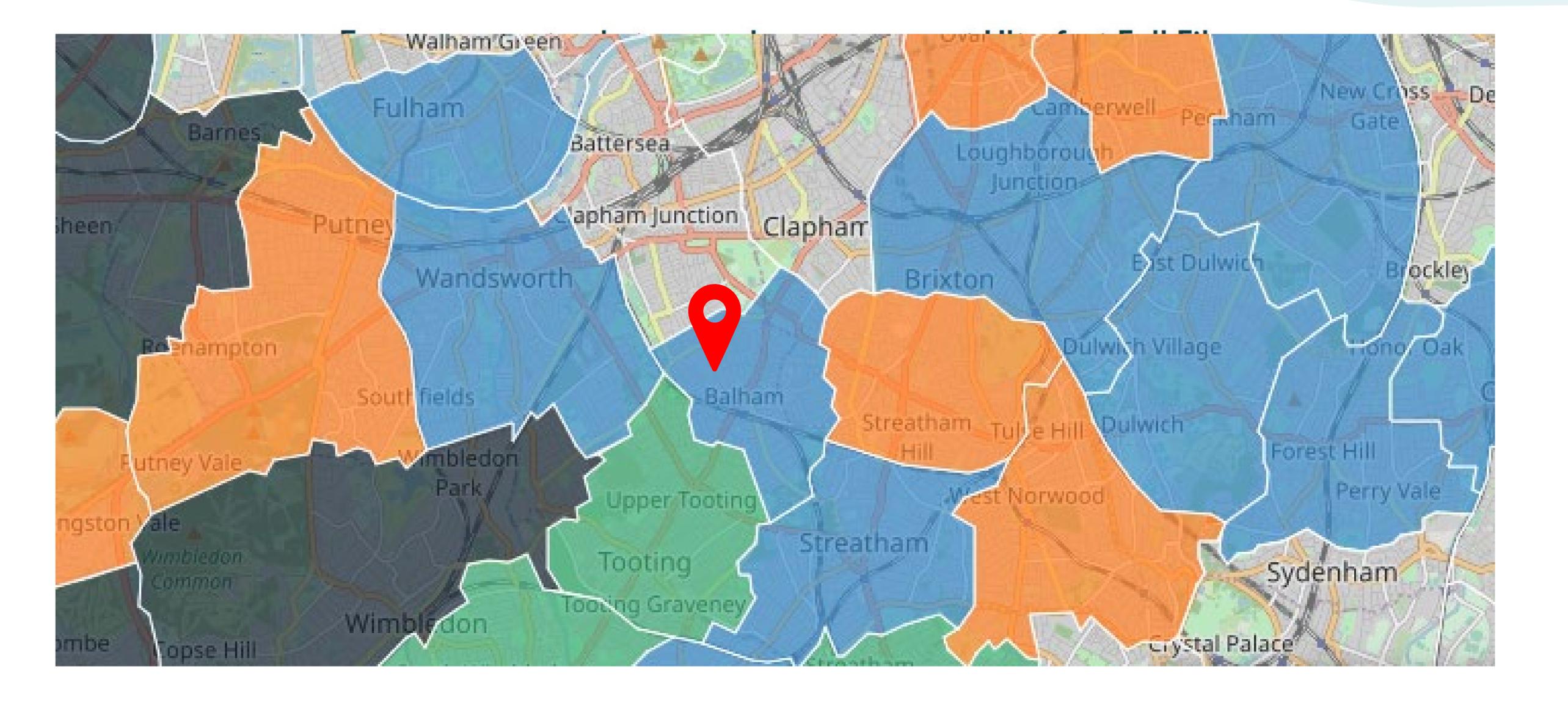
 'Stop Sell' program aka "Stealth Copper Migration" • When an exchange reaches 75% fibre, no new analogue services can be ordered **Definition of "new"** is very broad, including:

- - Change of CP
 - Working line take over

Targeting 3 million premises by end of 2020 – 4.8 million

• Fibre now serves 7 million premises in the UK, projected to

• 658 exchanges are currently under Stop Sell September 2023 the UK will enter a National Stop Sell



OMENCO

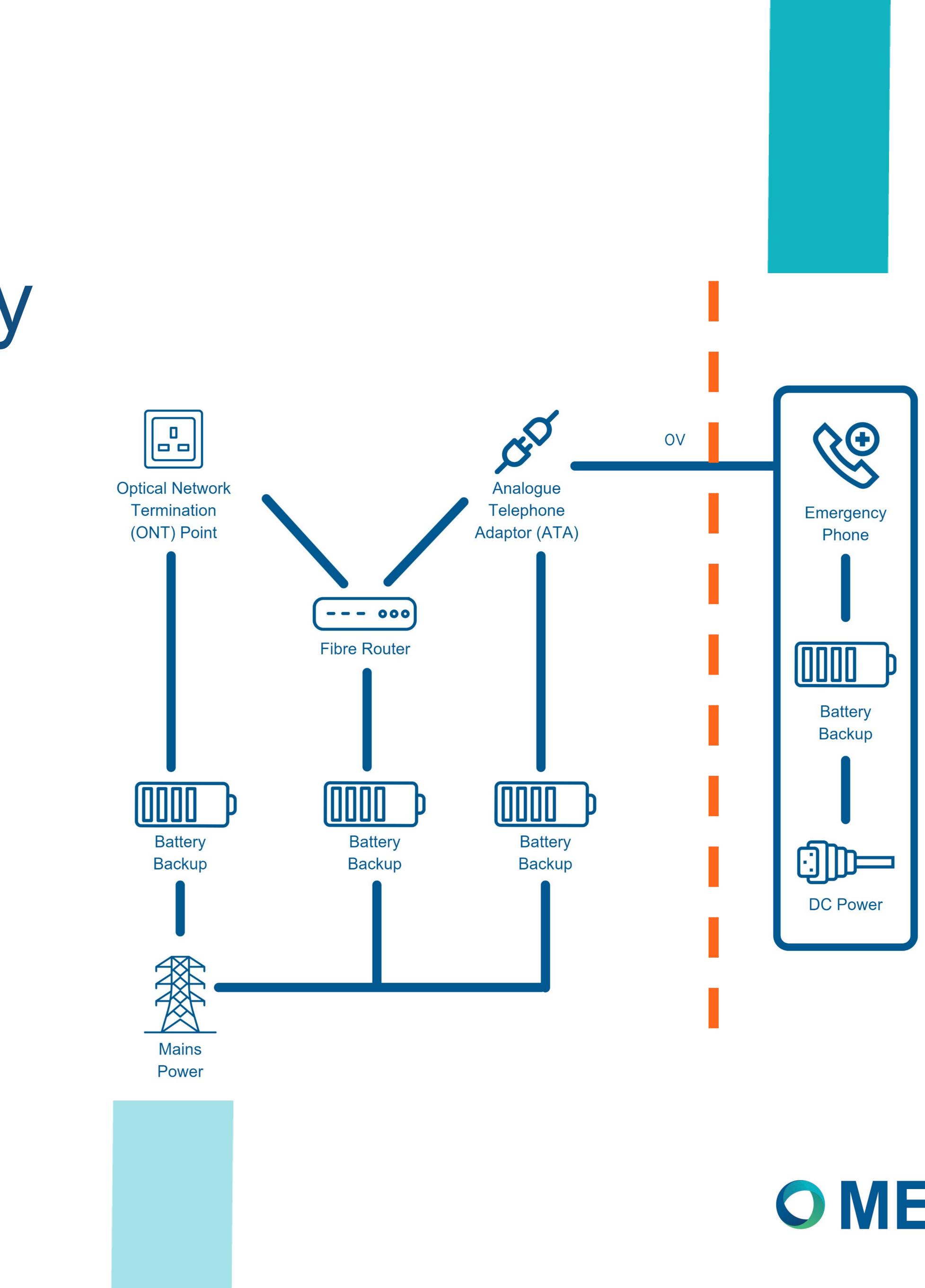
Testing current technology **Test Labs and Field Trials**

- Network Terminal (ONT) and a fibre router
- Vodafone, Zen
 - Sky and Virgin Media labs
- (sponsor) and Galliard Homes
 - about fibre lines:
 - Lifts
 - Sewage pumps
 - Site offices
 - adequately', however...

• 'Master socket' ("phone socket") will be replaced with an Optical Avire have tested our equipment at the Openreach digital services lab which includes the following CPS: BT, TalkTalk, Sky,

• Avire has also run extended testing at the BT, TalkTalk, • Field trial was conducted between Avire, Sky, Openreach Part of work being done to assuage Galliard's concerns

Case study published by Openreach – 'fibre worked



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Testing

- - Performance varies between CPs
 - concern
- Provision of battery backups is still unclear
 - lines*

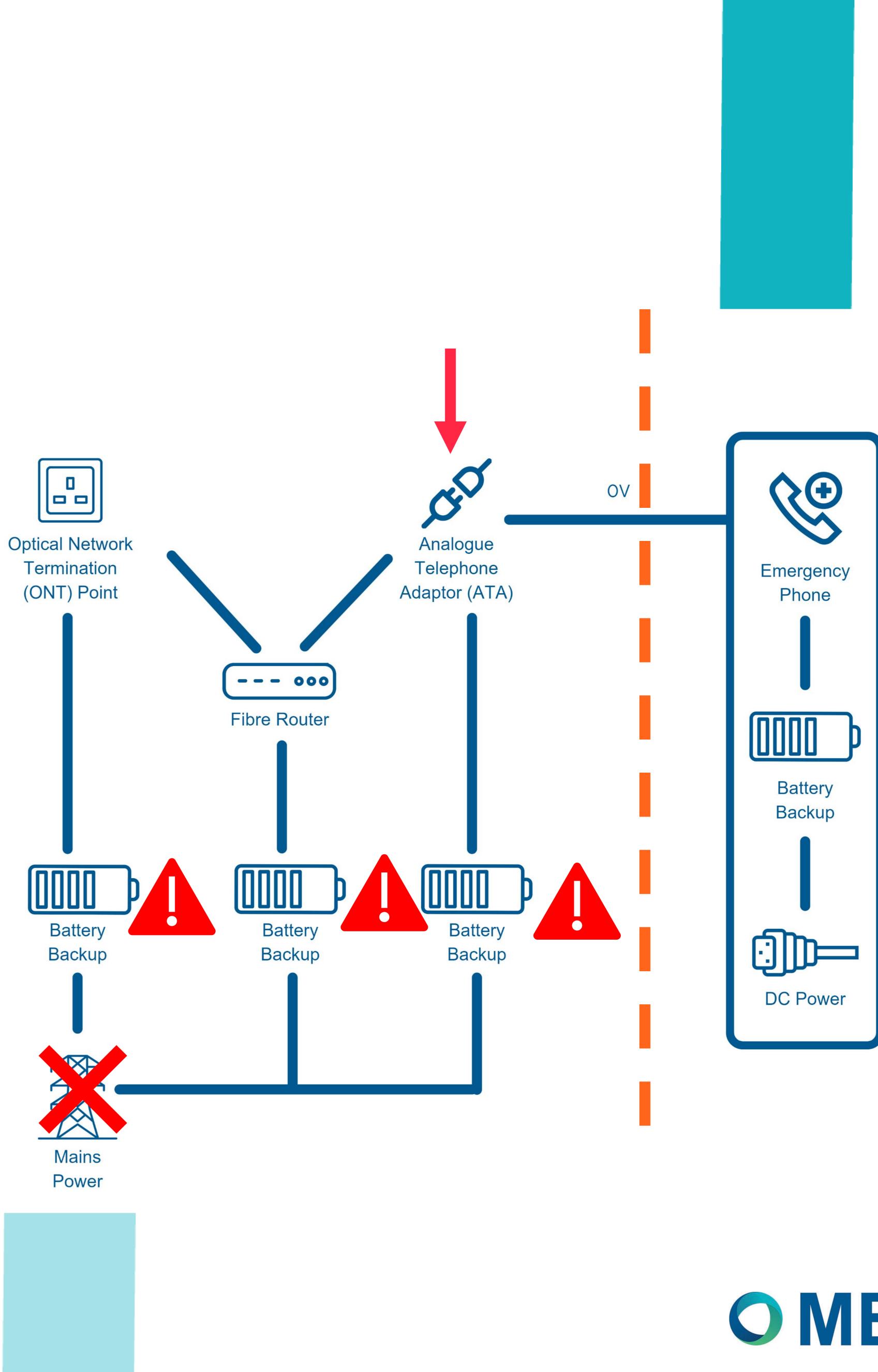
*Ofcom only require battery backups to be provided for 'vulnerable customers' and, even then, only to place 999 calls – not suitable for lift alarms

Battery Backups and ATAs

 Some CPs are using analogue telephone adaptors (ATAs) to allow existing analogue devices to connect to fibre lines **Disruption of alarm calls** has been seen which is a

• Battery backups will <u>not</u> be provided as standard on fibre

 Lack of remote monitoring for battery backups means that on site visual inspection will be required; risk of battery backup failing and the fault not being detected



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Solutions Fixed Line versus Gateways

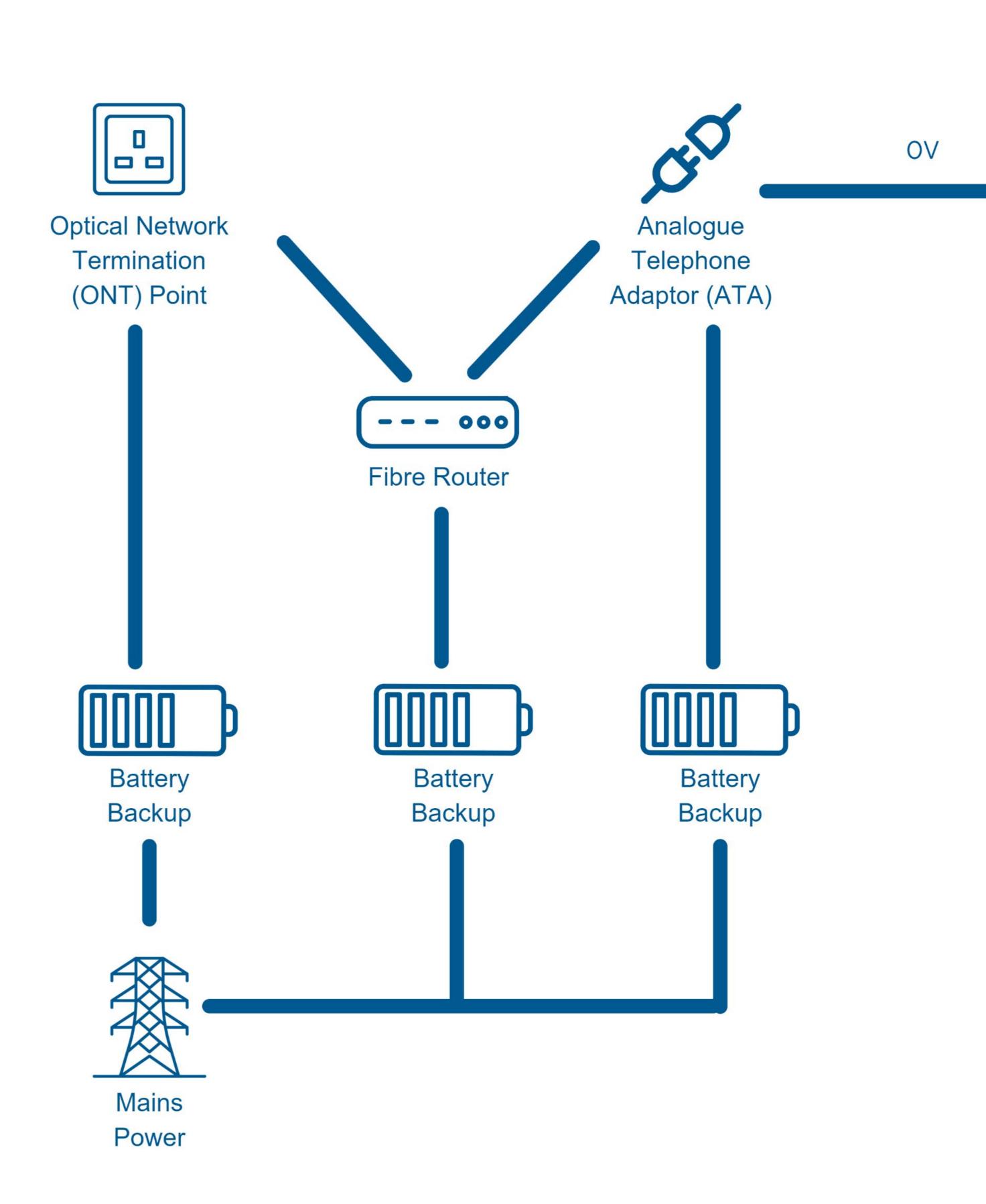
- Provision of a fixed line sits with the lift owner
- Australia and Switzerland lift industries moved 100% to
- Alternative to a fixed line is a 4G gateway which can be

 - availability and strength

gateways after their digital switches – too many concerns about the resilience of fibre lines in the event of power outages

provisioned & maintained by the lift maintenance provider: In-build battery* with remote monitoring Roaming (non-steered) SIM cards to maximise signal

BS EN81-28:2022 Safety rules for the construction and installation of lifts — Lifts for the transport of persons and goods. Part28: Remote alarm on passenger and goods







Mobile Network Sunsets End of 2G/3G by 2025!

- proven not to be valid
- O2 expected to announce this year*
- signalling (DTMF) are sharply declining
- to replace it in 2025
- 2025

Previous projections that 2G/3G would last until 2030-2033 have

• UK sunset for 2G is now Dec 2025 for EE and Vodafone, with

• In the mean time previous levels of support for analogue

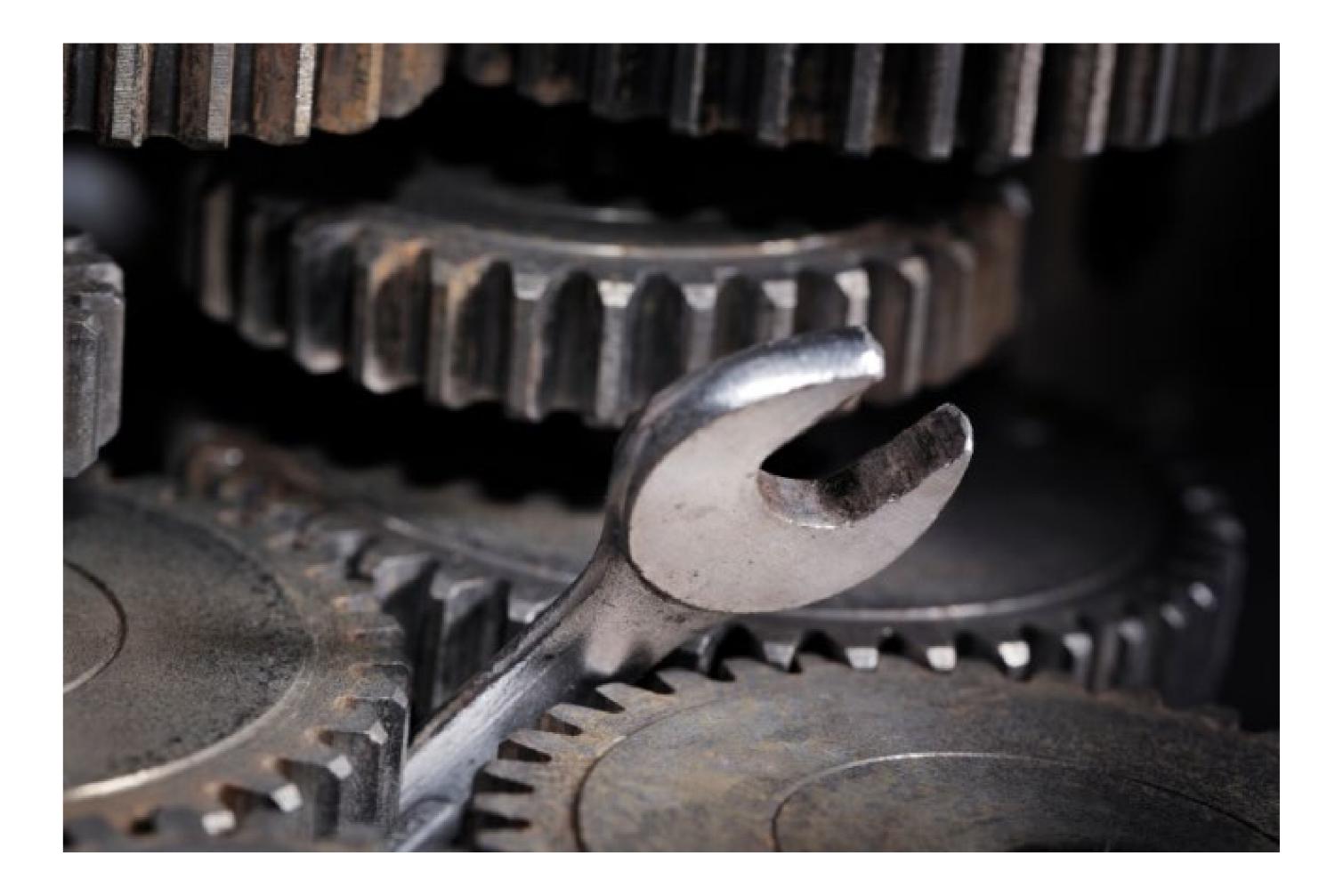
Don't get caught out fitting a cheap 2G gateway today only

 Many 4G gateways currently run their voice channel through the 2G/3G bands – these gateways will have to move to Voice Over LTE (VoLTE) to continue operating after

Impacts choice of SIM card as well as gateway

 Loss of DTMF support will be critical – to keep lift alarms in service opt for a 4G gateways which can convert DTMF to data

Territory	Operator	2G closure date	3G closure date
UK	EE	31/12/2025	31/12/2022
UK	Hutchison-Three	n/a	31/12/2024
UK	02	TBC	TBC
UK	Vodafone	31/12/2025	31/12/2023



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Solutions

Fixed Line versus Gateways

- Key Concerns:
 - efforts
 - and coverage
 - even a few years ago
- connection service:

1. Mobile switch off in the event of a disaster? – Reports after 'July 7th' and 'Manchester Arena' attacks noted that switching off the mobile network hampered the rescue

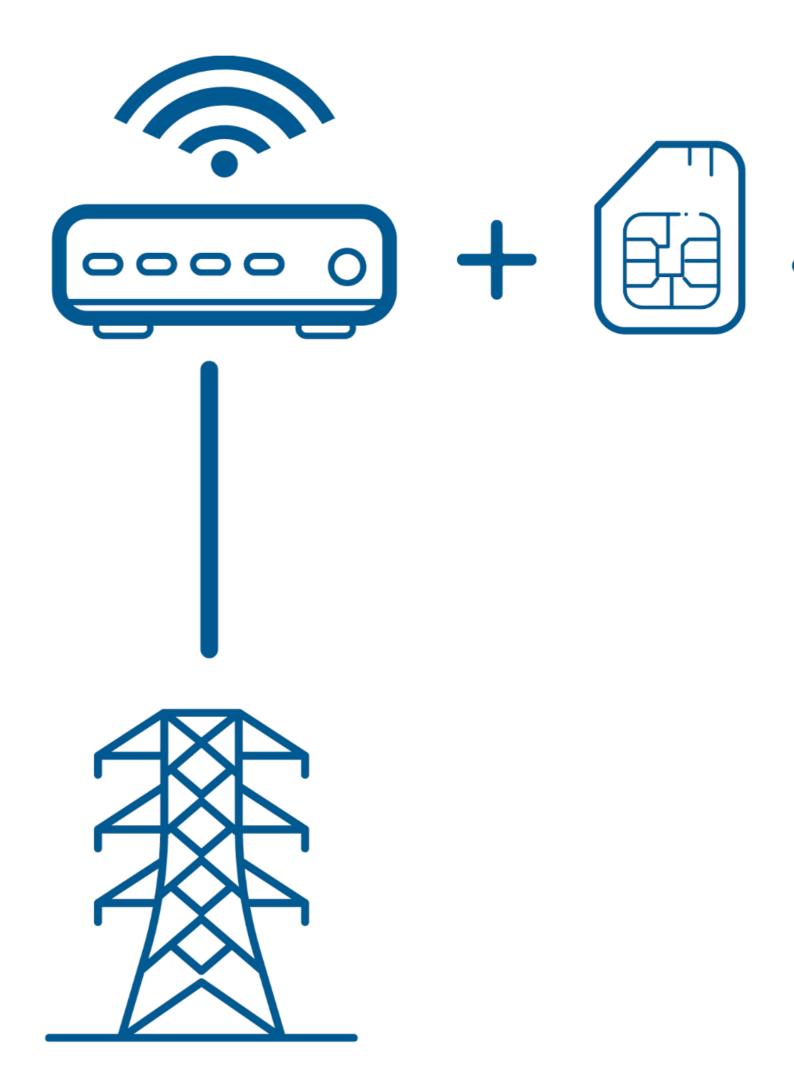
2. Mobile network congestion – Possible, but the mobile network operators are constantly investing in bandwidth

3. "Can't get signal" – Use of roaming SIMs, high gain antennas, signal boosters and "don't install the gateway top of car!" massively mitigate signal issues compared to

These risks can be mitigated by moving to a managed

Provisioning of communication equipment Signal monitoring, remote diagnostics and fault alerts Battery monitoring and lifecycle replacements

BS EN81-28:2022 Safety rules for the construction and installation of lifts — Lifts for the transport of persons and goods. Part28: Remote alarm on passenger and goods







Call to Action

Understand, Review, and Respond

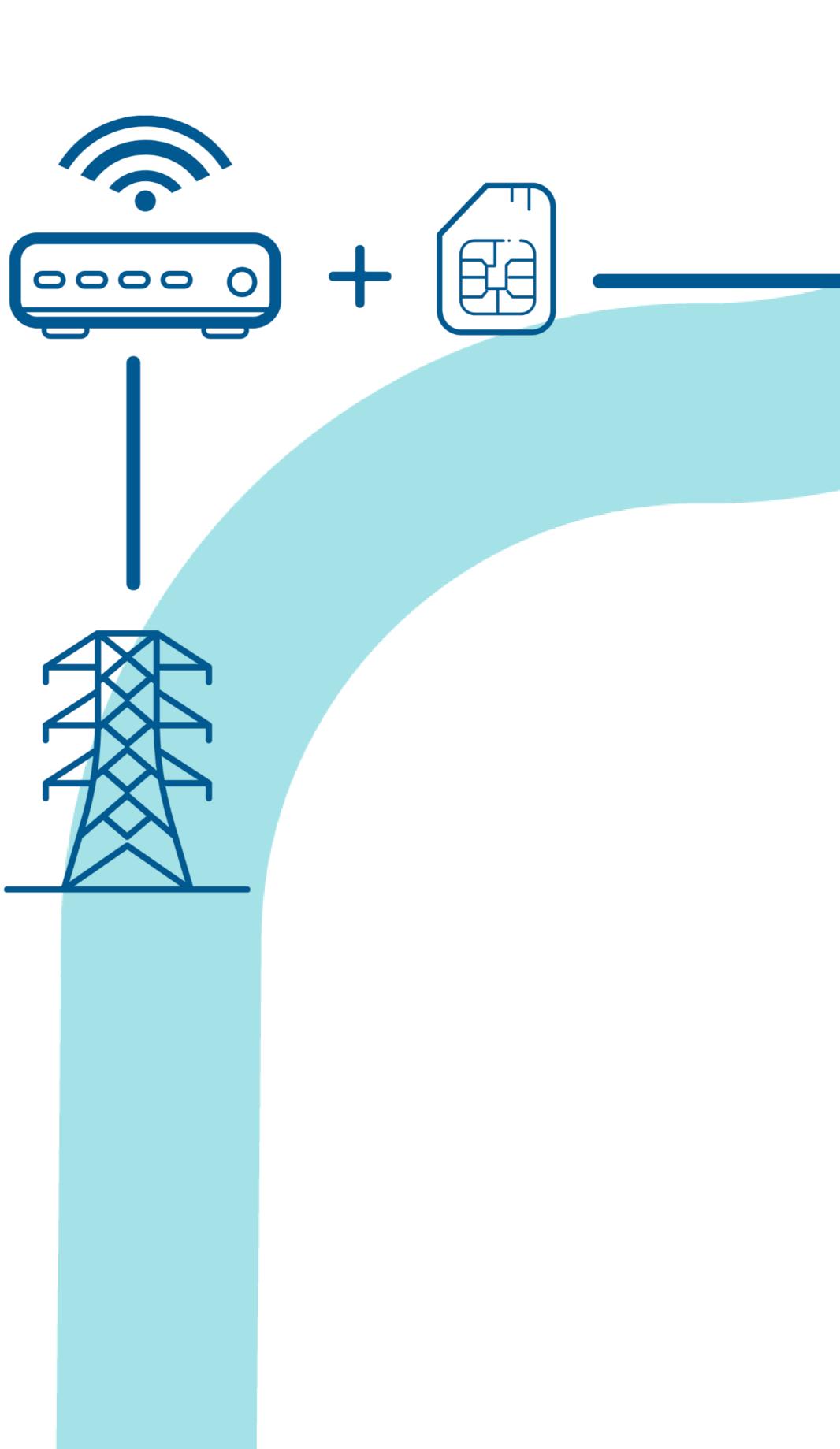
- Lift owners need to understand the following:
 - Alarm equipment currently installed
- Upgrade to a resilient solution:
 - Avoid 2G/3G gateways
 - Avoid unmonitored batteries
 - keep existing lift alarms in service
- Lift owners need a long term plan for their connectivity: on 4G
- 'communication means' matches lifetime of lift

• Compatibility with a fibre line? • Fibre roll out status (especially STOP SELL) in their area

Gateways with DTMF to data conversion capabilities to

• Network sunsets will continue – we will not get 30 years

Consider a managed connection service to ensure lifetime of





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2N



Emergency Lift Communication DTMF and Mobile (GSM) Gateways

Jason Godwin, 2N Regional Sales Manager Thursday 16 February 2023

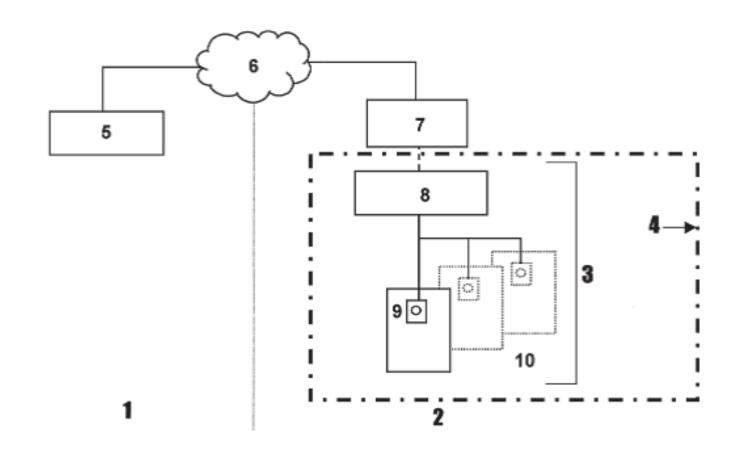
www.2n.com

Content

Preamble

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- 3. Landline obsolescence
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- 5. DTMF Proprietary solution
- 6. DTMF Open solution
- 7. What is SIP
- 8. Recommendation
- 9. Final thought Lifts without DTMF





Preamble -EN81:28 2019 -What it covers

- 1. rescue service
- 2. site
- 3. alarm system
- 4. boundary of this standard
- 5. reception equipment
- 6. communication network
- 7. transmitter
- 8. alarm equipment
- 9. alarm initiation device
- 10. lifts

1. Introduction

- Mobile (GSM) gateways provide an easy, cost-effective alternative to obsolete phone landlines and are being widely adopted in the lift industry
- The suitability and performance of GSM gateways in respect of DTMF is not great
- DTMF has been integrated into lift communications for the identification of lifts during a call, communication-related alerts, as well as automating 3-day test calls and remote phone autodialler configuration
- EN 81:28 Clause 4.2.1 (Availability / reliability) requires that test calls are "Using the same connection means used for an alarm"
- Industry feedback suggests a significant amount of DTMF signals and calls are lost or distorted and this is a cause for concern and maybe a call to action

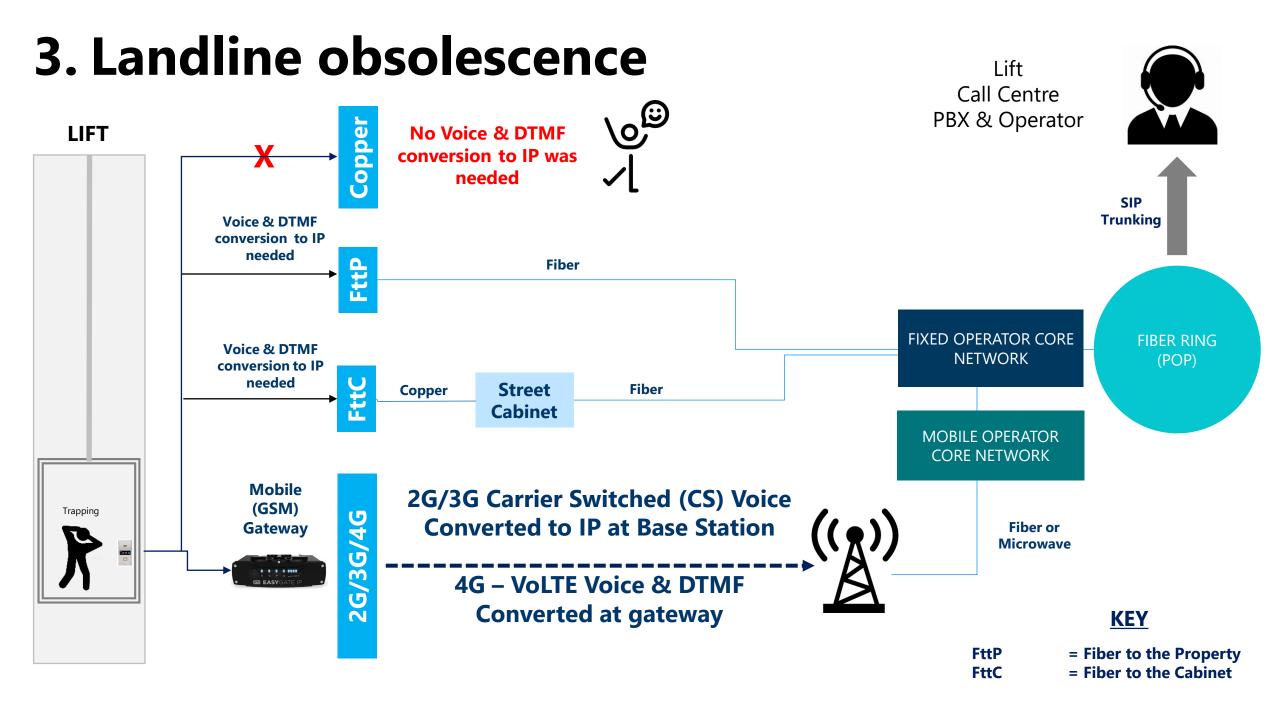


2. Industry feedback

"When receiving DTMF from a mobile solution we see characters being dropped and/or corrupted."

Darren Fahy, Technical Architect Thames Valley Controls, UK "Up to 20% of emergency and technical calls are impacted by distortion from the DTMF transmission protocols used by lift alarm manufacturers. "

Thibault Beaucornu, Sales Director Sérénité 24h24, France





4. Key Issues

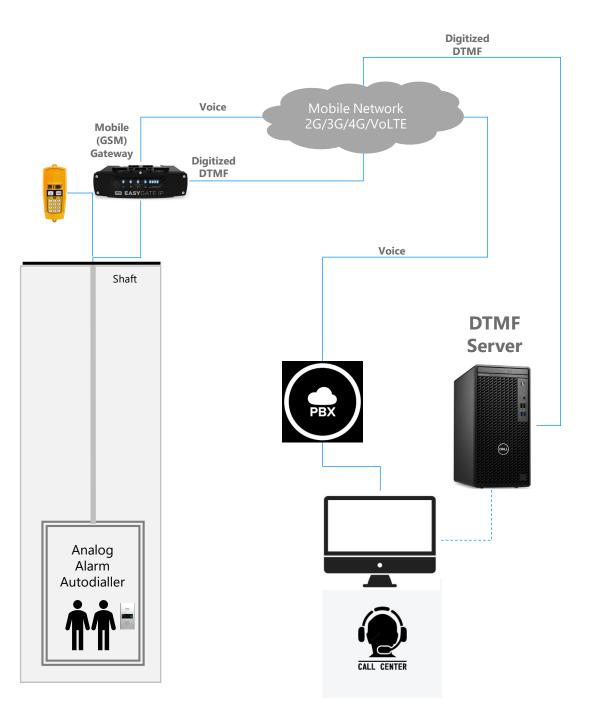
- 2G will be switched off (operators saying end of 2025) so no more CS voice from gateway
- VoLTE (a form of VoIP) will then remain only option unless data calling is utilised
- Often calls (inc. DTMF) pass through multiple operators, creating and compounding problems
- Test calls using DTMF are **NOT** using same channel (means) as voice, if going via a data
- VoLTE, although VoIP, requires a **voice plan** from a mobile operator
- Data requires a data plan from a mobile operator

5. DTMF: Proprietary solution

DTMF can be digitalised by the gateway and sent **separate to a voice call** (CS or VoLTE) then a server decodes and logs the DTMF call. However the use of different connections requires **separate configuration parameters** on the gateway plus there's inherent difficulty to combine it back to the voice call for the call centre needs (e.g. Lift ID).

EN81:28 Conformity:

Connection means for emergency alarm voice calls	Voice Call
Connection means for DTMF strings and separate DTMF test calls	Data
Same connection means for test calls as used for an alarm (EN 81 28:2018 Clause 4.2.1)	No



6. DTMF: Open solution

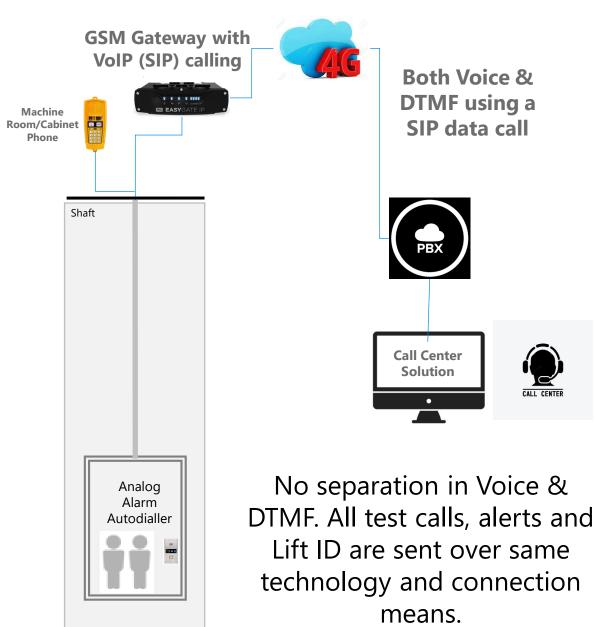
Digitalizing DTMF is the best option, but the voice call **must also be digitalized** at the same endpoint (gateway) to comply with the standard. The solution is to send voice and DTMF over data-calling using an open, secure, end-to-end **protocol known as SIP**. That will allow DTMF to be utilized for many years to come.

Conformity:

Connection means for emergency alarm voice calls	Data
Connection means for DTMF strings and separate DTMF test calls	Data
Same connection means for test calls as used for an alarm (EN 81 28:2018 Clause 4.2.1)	Yes

Benefits:

Clear voice, excellent DTMF and only a data SIM needed



7. What is SIP

- Session Initiation Protocol (SIP) is a very robust signaling protocol that supports unified communications, voice calls (including DTMF), video conferencing, instant messaging, and media distribution.
- SIP is proven, trusted and used by us all every day.
- Think of it as a quality-assured, communication VPN between two points.







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8. Recommendation

To avoid confusion and an untidy changeover in 2025 with the possible health and safety consequences that might arise - could the CIBSE Lifts Group make a request to the BSI Lift Committee to produce a British Standards Development Draft (DD) in a similar style and process to the creation of DD265:2008 to provide guidance and recommendations?

This would not affect the integrity of BS EN81-28 which deals solely with the requirement for remote alarms for lifts and not the means to communicate between the end points of lift and rescue centre.

Such a DD would receive the scrutiny of the whole lift community through BSI's procedure for public comment.





9. Final thought - Lifts without DTMF

Adoption of the recommendation would open the door to removing the use of DTMF entirely in years to come because as SIP gains traction and acceptance, the P100/CPC DTMF signaling protocol used by DTMF today, could be replicated with simpler SIP INFO header messaging as the medium.

Such a move would provide a reliable, open technological platform (SIP) that is guaranteed to facilitate 100% accurate transmission of relevant lift information and 3-day test calls for decades to come thereby taking full advantage of SIP and removing DTMF considerations forever.



Thank you!

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