

Public

## Issue 75

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*Use of Internet Protocol (IP) address  
based communication methods for  
Central Volume Allocation (CVA)  
Metering Systems*

31 January 2019  
ELEXON

**ELEXON**

# Health & Safety

## In case of an emergency

An alarm will sound to alert you. The alarm is tested for fifteen seconds every Wednesday at 9.20am

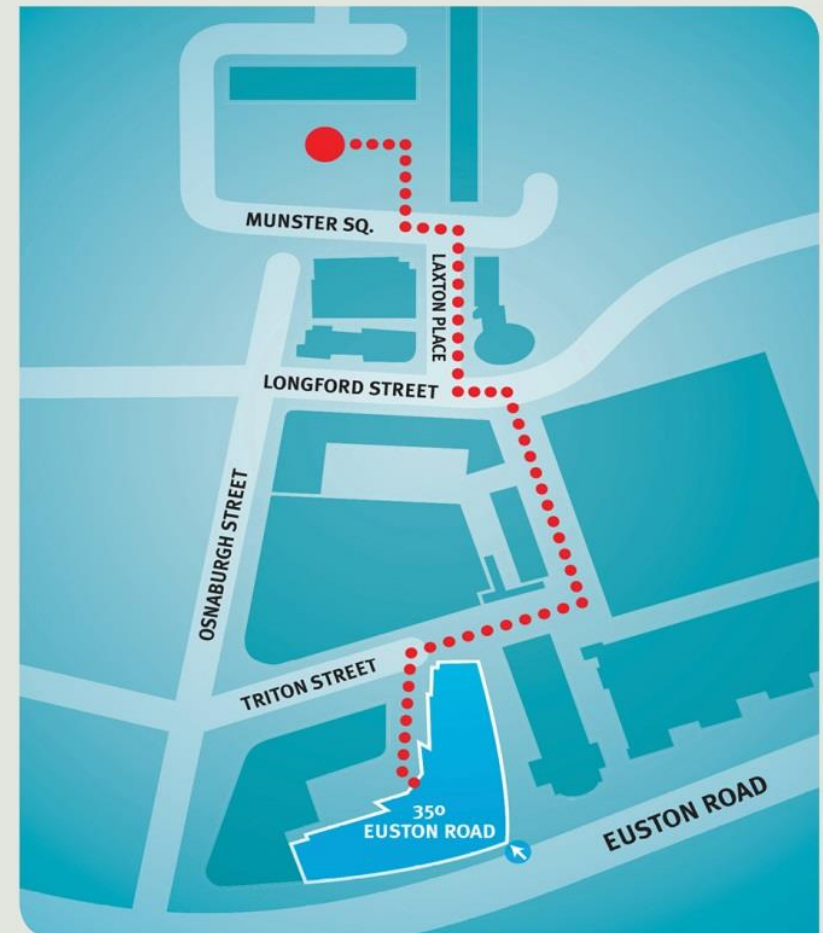
## Evacuating 350 Euston Road

- If you discover a fire, operate one of the fire alarms next to the four emergency exits.
- Please do not tackle a fire yourself.
- If you hear the alarm, please leave the building immediately.
- Evacuate by the nearest signposted fire exit and walk to the assembly point.
- Please remain with a member of ELEXON staff and await further instructions from a Fire Warden.
- For visitors unable to use stairs, a Fire Warden will guide you to a refuge point and let the fire brigade know where you are.

## When evacuating please remember

- Do not use the lifts.
- Do not re-enter the building until the all clear has been given by the Fire Warden or ground floor security.

**Our team on reception is here to help you, if you have any questions, please do ask them.**



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## Meeting objectives

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- Identify the scale/impact of the Issue
- Explore potential solutions
- Agree next steps and Issue summary

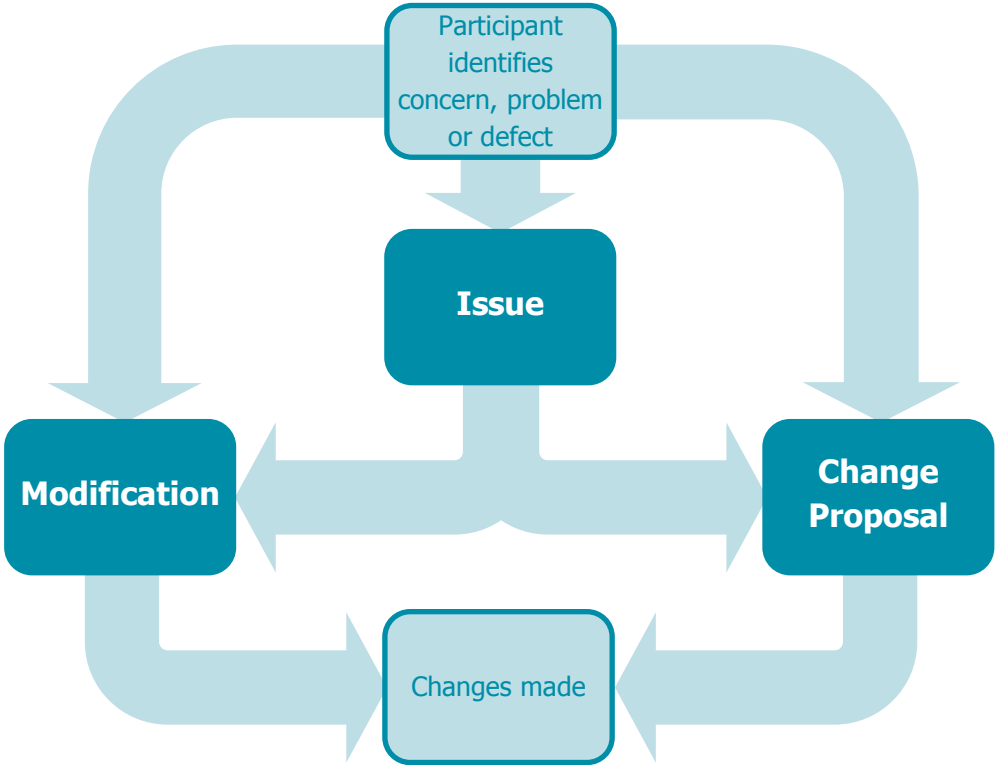


# BSC Issue Process

Craig Murray

# BSC Change Process

		Will my solution amend the BSC?	
		Yes	No
Do I have a clear solution?	Yes	Modification	CP
	No	Issue	Issue



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## BSC Issue Process

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- Raised if participant wants to discuss an issue or concern;
- Issue Group convened to discuss the Issue;
- More of an informal, ad-hoc approach;
- Group will consider any ways forward;
  - e.g. solution (any BSC Party can take forward the outcomes of an Issue e.g. BSC Modifications);
  - extra guidance;
  - no change
- Prepare a final Issue report for the BSC Panel



# Background to Issue 75

Chris Day (ELEXON)/Haydn Wyllis (SSE)

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# CDCA – Use of IP Comms

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- No change to Codes of Practice (CoPs) required
  - ‘The actual media employed shall be in accordance with the requirements of the CDCA for CVA Metering Systems and the Supplier for SVA Metering Systems.’
- What will require change?
  - Contracts
  - Systems
- Define CDCA Requirements
- Potential solutions available
  - Public IP vs Private IP?
  - Cost/Amount of VPNs?
  - Technical Challenges?
- Should SVA Metering be considered?



# Potential Solutions



## **Wider issues**

# Future of Communications Technology

- Majority of data retrieved remotely is obtained via one of the following:
  - Public Switched Telephone Network (PSTN)
  - Global System for Mobile Communications (GSM):
    - Circuit Switched Data (CSD) – 2G
    - General Packet Radio Service (GPRS) – “2.5G”
  - “Fixed” Internet Protocol” (IP)
  - Paknet
- Between 2020 and 2025 majority of these will become unreliable
- PSTN will cease service in 2025
- CSD will become increasingly unreliable as it is replaced for 4G/5G
- Unknown when 2G will be switched off but, will likely be unreliable by 2025
- Unknown if GPRS over the 2G network also cease/become unreliable?
- Paknet is old technology. Unknown if it will continue to be supported or will cease
- Fixed IP will continue to operate reliably

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# Metering Communications

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- Most current technology won't support over the air (OTA) upgrades to newer technology (4G/5G)
- Site visits may be required en-masse to replace redundant technology
- Unclear what future technical solutions will look like.
  - Narrow Band – Internet of Things?
  - CAT M?
  - Other types of communications?



**Next steps**

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## Issue 75: Summary and next steps

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- Circulate notes post meeting
- Conduct analysis if required
- Propose dates for next meeting/Present Issue 75 report 14 March 2019

