

Public

Issue 75

*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

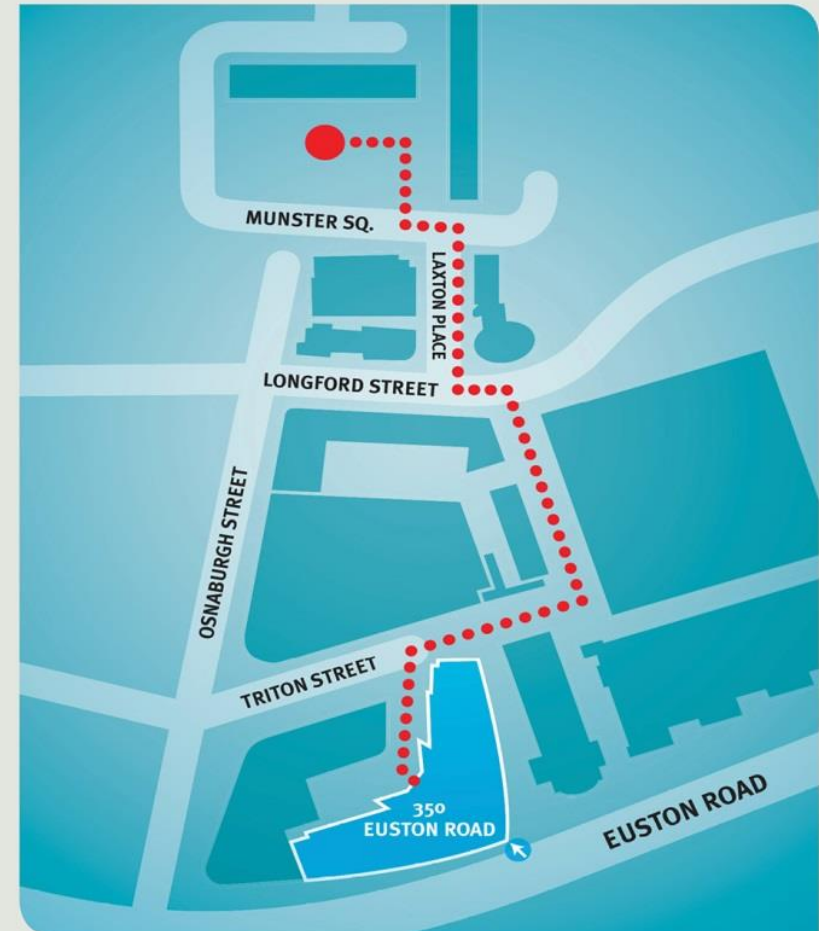
Evacuating 350 Euston Road

- 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.



Meeting objectives

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

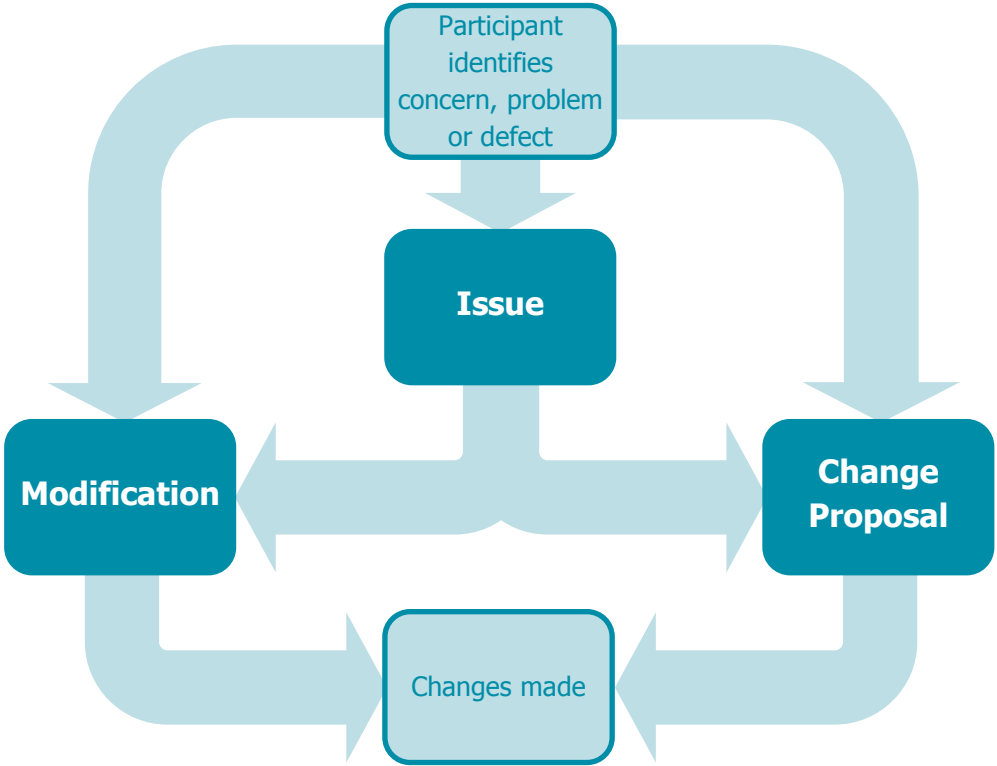


BSC Issue Process

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



BSC Issue Process

- 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)

CDCA – Use of IP Comms

- 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

Metering Communications

- 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

Issue 75: Summary and next steps

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

