Issue 93 Workgroup 2 Summary

Summary

1 Meeting Objectives

The Chair welcomed attendees and presented the following meeting objectives to WG Members:

- Reconvene the Issue 93 workgroup.
- Review redlining completed to date
- Share prioritisation scores
- Agree next steps

2 Reconvene the Issue 93 workgroup

2.1 Elexon reconvened the WG and gave a reminder of the aspects associated with Issue 93.

2.2 The proposer introduced a new aspect to clarify the requirements and lessons learnt from recent CVA issues where someone slices through all secondary metering cables at once and how this affects sub-racks & single points of failure.

3 Review Updated redlining

3.1 Elexon presented redlining changes to the WG and welcomed comments.

3.2 Elexon asked the WG whether anyone was installing electromechanical meters and could the standard for electromechanical meters be removed. The WG confirmed that as you would also have to install a separate Outstation with the electromechanical meter no one would be installing electromechanical meters.

3.3 WG agreed to remove the requirements from CoPs that refer to BS EN/IEC 62053-11 (Electricity metering equipment (a.c.). Particular requirements. Electromechanical meters for active energy (classes 0.5, 1 and 2))

4 A_09 Tightening the minimum accuracy classes for Meters (CoP5) and CTs (CoPs 3,5 and 10)

4.1 Elexon confirmed there was no intention to constrain the requirements to LV metering only.

4.2 Elexon highlighted to the WG that the IEC standards do not recommend using ‘S’ class CTs with a non-‘S’ class meter. This was due to the ‘S’ class CT being rated to operate accurately down to 1% of the rated current but a meter that was not ‘S’ class only being rated to operate accurately down to 5% of the rated current.

4.3 The WG agreed to progress the change but required further information around the standard CT ratios used by LDSOs.

4.4 The WG discussed raising a separate aspect to review the appropriateness of CT ratios (e.g. match to circuit capacity as opposed to agreed capacity) – LDSOs will be contacted in the first instance to understand what bands are currently being used and make them aware of the proposal to use class 0.5s CTs going forward.

4.5 The appropriate burden was raised as being material to the accurate measurement as set out in the IEC standards, yet the BSC made little mention. The WG agreed there may need to be a requirement in the BSC to ensure the appropriate burden is connected.

4.6 A WG member shared information on the connected burdens required on measurement transformers to maintain accuracy from work they had been doing in the Netherlands and whether it would be appropriate to be used in this aspect (Note: taken from Google translate)

B3.2.6.12 The load on a measuring transformer is between 25% and 100% of its rated load.

B3.2.6.13 The load of a current transformer is preferably as close as possible to its rated load.

B3.2.6.14 The load of a current transformer with a rated load of less than 4 VA is at least 1 VA and is preferably the 5rated load of the current transformer.

5 A_11 Future proofing changes to IEC Standards

5.1 Elexon to confirm drafting when IEC Standards are updated and the related lead times prior to implementation.

5.2 Elexon agreed to remove “Purchased” from redlining to make solution clearer.

6 A_15 Monitoring of Voltage failure alarms

6.1 Elexon to remove last paragraph of proposed redlining and edit penultimate paragraph to “must”

6.2 WG confirmed requirement would only impact new sites (and material changes) and not existing ones.

6.3 Proposer recommended updating clause 5.5 to include the relevant Data Collector and remove manned point.

6.4 Terminology needs to be aligned across the CoPs and specifically within CoP2 e.g. CDCA

7 Prioritisation Process

7.1 Elexon to prioritise the following aspects and provide updated redlining for the next WG:

- A_07 Consideration of DMP vs AMP – Metering Dispensations and the need to compensate (if necessary)
- A_08 Number of measuring elements
- A_10 Accuracy of Active Energy for sites providing Reactive Energy Services (e.g. Stability Pathfinder project)
- A_11 Relevant CoP for embedded circuits

8 A_16 Obsolete Metering Equipment

8.1 The WG wanted to understand if a process should be put in place for Elexon to periodically check if Metering Equipment is still supported and, where appropriate had spares and calibration services available.

8.2 The WG discussed the need for this requirement to trigger a recognition of a higher risk of failure at end of life and potentially a non-compliance. The exact mechanism for initiating metering equipment change was not determined. The WG agreed that at the lower end of the market, meters are a consumable item and can promptly be replaced on failure. In the higher volume SVA & CVA market, changing metering equipment can result in long replacement lead times, as evidenced in recent trading disputes, this is a BSC Risk that needs addressing.

8.3 The WG group suggested an annual confirmation to find out if Metering Equipment is still sold, still supported (what specifically does this mean, spares, repairs (implies spares available) and confirmation about firmware versions on the BSCP601 compliance list.

8.4 The length of time meter faults remain outstanding was considered. For the CVA market, BSCP06 has an SLA of 95% in 5WD, the WG wanted to understand if/how this was monitored and/or enforced.

9 Next Steps

- Next WG meeting aimed to be held in late July/early August.

10 Actions

- Elexon to update redlining as per notes above to reflect WG discussions.
- Dawn Matthews and Richard Brady to contact LDSOs to understand what CT ratios are currently being used in off the shelf units.
  - Also to confirm whether LDSOs were aware that class 0.5s CTs might be mandated.
- Elexon to review CoP4 & BSCP27 to confirm if any updates are required in relation to tightening the minimum accuracy classes.
- Elexon to confirm number of MPANs in CoPs 6,7,8 & 9 in order to confirm requirement for these CoPs to continue.
  - Any identified to be sent to MOPs to confirm if these are accurate
- Elexon to provide initial redlining for aspects A_07, A_08, A_10 & A_11
- Elexon to obtain technical specifications of Metering Equipment from Network Operators
- Elexon to confirm what obsolete Metering Equipment is on BSCP601 CoP Compliance and Protocol Approval list.
- Elexon to find out if Meters removed for Calibration are treated as faulty Meters by the CDCA and reported as such to the MOA and Registrant.
- Elexon to investigate which CVA MOAs are complying with the 5WD SLA in CDCA.

- Elexon to speak with Alan Toule and CDCA to understand how to encourage Registrants to remove Metering Equipment (Meters and Outstations) that were no longer sold, and the manufacturer no longer had spares for.