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DP255

‘WAN issues during Smart Meter installations’

Modification Report

Version 0.1

14 November 2023

Corporate member of
Plain English Campaign
Committed to clearer
communication

592



About this document

This document is a draft Modification Report. It currently sets out the background, issue, and progression timetable for this modification, along with any relevant discussions, views and conclusions. This document will be updated as this modification progresses.

Contents

1. Summary.....	3
2. Issue.....	3
3. Assessment of the proposal	4
Appendix 1: Progression timetable	5
Appendix 2: Glossary	5

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1. Summary

This proposal has been raised by Emslie Law of OVO.

The Smart Energy Code (SEC) assumes that once a Communications Hub has connected to the Smart Metering Wide Area Network (SMWAN) that all Devices in that Smart Metering System (SMS) can also connect and be commissioned. The Proposer has experienced cases where the Communications Hub 'births', but there is insufficient WAN to enrol the other Devices in the SMS with the Data Communications Company (DCC). Due to the way the SEC is drafted, even if only the Communications Hub connects to the SMWAN this is still seen as a successful installation.

The Proposer would like to alter the relevant sections of the SEC to ensure that a successful installation involves all Devices in the SMS being connected to the SMWAN.

2. Issue

What are the current arrangements?

SEC Appendix AC 'Inventory Enrolment and Decommissioning Procedures' sets out the steps SEC Parties need to follow when installing SMS.

Section 4.1 'Commissioning of Communications Hub Functions' states:

"Where the DCC receives a communication originating from a Communications Hub Function which does not have an SMI Status of 'commissioned' confirming that it has connected to the SMWAN, the DCC shall update the SMI Status of the Communications Hub Function to 'commissioned'".

Once the Communications Hub Function (CHF) is set to commissioned, it is assumed that there is sufficient SMWAN for all other associated Devices in that SMS to complete the rest of the Install and Commission procedures to enrol Devices in the DCC Service. All other Devices are set to commissioned in the Smart Metering Inventory (SMI) even though there is insufficient WAN to complete the process.

What is the issue?

Currently, the SEC is drafted on the assumption that if the Communications Hub births, all other associated Devices are connected to the SMWAN and can be commissioned. The Proposer has experienced cases where only the Communications Hub connects to the SMWAN and there is insufficient SMWAN for all the other Install and Commission activities to take place. This means that although only the Communications Hub is connected to the SMWAN, the installation is still seen as successful.

When this occurs, the installing Party will follow a path within the DCC and SEC where this is viewed as a WAN incident, which will be investigated by Communication Service Providers (CSPs). The Proposer notes that in these scenarios there is no obligation on Suppliers to leave Communications Hubs at the property, however for the incident to be investigated a Communications Hub must be left at the site despite no other Devices being installed.

What is the impact this is having?

This issue is leading to partial or failed installs where not all Devices have been commissioned. In these circumstances, Devices are not visible to the DCC, CSPs or DCC Users.

Impact on consumers

This is leading to a poor consumer experience of the Smart Metering Implementation Programme (SMIP). The consumer will not have a working SMS which leaves them with no benefits from having a Smart Meter installed and would require further visits to try and commission the Devices.

3. Assessment of the proposal

Areas for assessment

What would the Proposer like to achieve?

The Proposer would like to identify the scenarios when all Devices cannot be commissioned. In addition, the Proposer would also like to alter the relevant sections of the SEC to ensure that a successful installation includes not only communicating to the Communications Hub but all Devices in the SMS also operating fully.

Install and Leave

The Proposer has experienced issues when there is insufficient WAN to install all other Devices, but the appointment is not classed as an Install and Leave because the Communications Hub has connected to the SMWAN. The Proposer believes clarity on what constitutes an Install and Leave installation should take place.

Issues with Devices

SECAS notes that there may be technical issues with Devices which are causing them not to connect to the SMWAN, rather than an issue with the SMWAN itself. This will be explored throughout the modification to ensure that WAN issues are clearly identified, with no overlap of faulty Devices.

Sub-Committee input

SECAS will engage the Chairs from the Operations Group (OPSG), the Technical Architecture and Business Architecture Sub-Committee (TABASC), the Security Sub-Committee (SSC) and the Smart Metering Key Infrastructure Policy Management Authority (SMKI PMA) to confirm what input is required from these forums. SECAS believes the following Sub-Committees will need to provide the following input to this modification:

Sub-Committee input	
Sub-Committee	Input sought
OPSG	How will this modification impact reporting of successful installations?

Managed by

Sub-Committee input	
SMKI PMA	Not anticipated to have any input from this forum.
SSC	Not anticipated to have any input from this forum.
TABASC	Will this require any changes to the DSP and CSPs?

Appendix 1: Progression timetable

Timetable	
Event/Action	Date
Draft Proposal raised	14 Nov 2023
Presented to CSC for initial comment	21 Nov 2023

Italics denote planned events that could be subject to change

Appendix 2: Glossary

This table lists all the acronyms used in this document and the full term they are an abbreviation for.

Glossary	
Acronym	Full term
CSP	Communication Service Provider
OPSG	Operations Group
SECAS	The Smart Energy Code Administrator and Secretariat
SEC	Smart Energy Code
SMI	Smart Metering Inventory
SMIP	Smart Metering Implementation Programme
SMKI PMA	Smart Metering Key Infrastructure Policy Management Authority
SMS	Smart Metering System
SMWAN	Smart Metering Wide Area Network
SSC	Security Sub-Committee
TABASC	Technical Architecture and Business Architecture Sub-Committee