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SECMP0063 'Ensuring correct Network Operator Certificates are placed on Electricity Smart Meters'

Business requirements – version 2.1

About this document

This document contains the business requirements for this Modification Proposal. It provides detailed information on the business requirements for the Proposed Solution agreed by the Proposer, with input from the Data Communications Company (DCC). It also provides the considerations and assumptions for each business requirement with respect to this Modification Proposal.

1. Business requirements

This section contains the functional business requirements. Based on these requirements a full solution will be developed.

Business Requirements	
Ref.	**Requirement**
1	The DCC will validate that the Network Operator listed in the SMKI Certificate is the Network Operator for the ESME
2	The DCC will block the Certificate from going on the ESME if it fails DCC validation.
3	If the Certificate is incorrect, the Supplier Party will receive a response advising this.
4	The DCC will provide reporting to the SEC Panel showing the numbers of incidences Suppliers have attempted to place incorrect Network Certificates on ESMEs.

2. Considerations and assumptions

This section contains the considerations and assumptions for each business requirement.

2.1 Scope of the modification

This modification is expected to address the of issue incorrect Network Certificates being placed on Electricity Smart Metering Equipment (ESME) as a minimum and business requirements 1 to 4 are specific to them.

The Working Group have also proposed that for the purposes of validating Certificates for Gas Proxy Functions, that the DCC validate Network Certificates against the registration data held by the Registration Data Provider. The Working Group discussed the potential to validate Network Operator Certificates against the Meter Point Reference Number (MPRN) of the Gas Proxy Function. However, the Working Group were unsure if the MPRN could be mapped to the Network Party and with no Gas Network representatives present they were unable to answer this question.

If the DCC are able to fulfil business requirements 1 to 4 for Gas Proxy Functions as well as ESMEs we request that they detail the solution in their Preliminary Assessment.

2.2 Requirement 1: The DCC will validate that the Network Operator listed in the SMKI Certificate is the Network Operator for the ESME

The first two digits of the Meter Point Administration Number (MPAN) Core identify the Network Party Organisation for the ESME attached to the MPAN. It is proposed that the DCC validate the Network Operator listed in the Smart Metering Key Infrastructure (SMKI) Certificate (that the Supplier Party attempts to place on the ESME) against the first two digits of the MPAN Core.

The Working Group advised that Service Requests 6.15.1 'Update Security Credentials (KRP)' and 6.21 'Request Handover Of DCC Controlled Device' are used to update the security credentials for Smart Meters, but that Service Request 6.21 is used more commonly by Supplier Parties during the post-commissioning process. Taking this into consideration the Working Group proposed that an additional response code to Service Request 6.21 could be used to validate the Certificate against the first two digits of the MPAN, whilst ensuring the DCC would still be able to place recovery keys on the Smart Meter.

2.3 Requirement 2: The DCC will block the Certificate from going on the ESME if it fails DCC validation

Where a Network Operator Certificate fails validation, the DCC shall block the Network Operator Certificate from being placed on the ESME. In this scenario the Supplier Party will be required to make another attempt to comply with SEC Appendix AC, 5.2 (a) and place the correct security credentials for the Network Operator on the ESME within seven working days of commissioning the ESME.

However, this must not prevent Network Parties who are not associated with the MPAN from invoking Service Request 6.15.1.

2.4 Requirement 3: If the Certificate is incorrect, the Supplier Party will receive a response advising this

Where a Network Operator Certificate that a Supplier Party attempts to place on an ESME fails validation, the DCC shall respond with an error code notifying the Supplier Party.

2.5 Requirement 4: The DCC will provide reporting to the SEC Panel showing the numbers of incidences Suppliers have attempted to place incorrect Network Certificates on ESMEs.

The Working Group requested that as part of the solution the DCC provide Network Certificate reporting to the SEC Panel. This would include;

- The number of invalid Network Certificate error codes that are generated;
- The Supplier Party for which the error code(s) were sent to; and
- The quantities of each error code being sent to each Supplier Party.

The SEC Panel would consider the results and take action on a Supplier case by case basis where they deemed necessary.

3. Glossary

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

Glossary	
Acronym	**Full term**
DCC	Data Communications Company
ESME	Electricity Smart Metering Equipment
MPAN	Meter Point Administration Number
MPRN	Meter Point Reference Number
SMKI	Smart Metering Key Infrastructure