

MP211 ‘Aligning the SMI with the CPL’

Annex A

Business requirements – version 0.1

About this document

This document contains the business requirements that support the solution for this Modification Proposal. It sets out the requirements along with any assumptions and considerations. The Data Communications Company (DCC) will use this information to provide an assessment of the requirements that help shape the complete solution.

1. Business requirements

This section contains the functional business requirements. Based on these requirements a full solution will be developed. This section contains a must-have, should-have, could-have, won't-have (MoSCoW) analysis for the different requirement components to be considered as part of the solution.

Business Requirements		
Ref.	Requirement	MoSCoW analysis
1	Where a Device's Device Model does not have a current entry on the Central Products List (CPL), that Device shall not have a Smart Metering Inventory (SMI) status set	M
2	For Devices that are already on the SMI with a Device Model that does not have a current entry on the CPL, the DCC must 'suspend' the Device	M
3	For Devices that are already on the SMI with a Device Model that does not have a current entry on the CPL, the SMI shall be updated to reflect the actual firmware version that is returned by the Device	M

Key

- M = Must have
- S = Should have
- C = Could have
- W = Won't have

2. Considerations and assumptions

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

2.1 General

This solution will be applied to Smart Metering Equipment Technical Specifications (SMETS)1 and SMETS2 Devices.

2.2 Requirement 1: Where a Device's Device Model does not have a current entry on the CPL, that Device shall not have an SMI status set

Currently, the DCC is required to 'suspend' Devices that have a firmware version that has been marked as 'Removed' on the CPL. The intended security objective is for Devices that do not have a matching Device Model on the CPL to be prevented from communicating with the DCC.

2.3 Requirement 2: For Devices that are already on the SMI with a Device Model that does not have a current entry on the CPL, the DCC must 'suspend' the Device

It has been identified that a situation could arise where a firmware version is updated on a Device that has never been recorded on the CPL. In this event, the DCC is currently unable to 'suspend' the Device and therefore a security risk remains as the Device has an invalid firmware version but can still communicate on the DCC network.

2.4 Requirement 3: For Devices that are already on the SMI with a Device Model that does not have a current entry on the CPL, the SMI shall be updated to reflect the actual firmware version that is returned by the Device

The DCC currently validates Device firmware version against entries on the CPL. Where a Device is found to have a firmware version that is not on the CPL, the DCC sends an '*N51 Invalid Firmware Version*' Alert to the Supplier. When a firmware version is identified that is not recorded on the CPL, the DCC is currently unable to record that firmware version on the SMI. The fact that the firmware version is not updated on the SMI is misleading as the Device will continue to display its previous firmware version.

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
CPL	Central Products List
DCC	Data Communications Company
SMETS	Smart Metering Equipment Technical Specifications
SMI	Smart Metering Inventory