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| <b>Paper Reference:</b> | <b>TABASC_90_0106_11</b> |
| <b>Action:</b>          | <b>For Discussion</b>    |

## MP202 DCC Impact Assessment

### 1. Purpose

MP202 'Enduring Solution for SMETS1 and SMETS2+ PPMIDs' is currently undergoing the Refinement Process. The purpose of this paper is to seek the Technical Architecture and Business Architecture Sub-Committee's (TABASC's) feedback on the Impact Assessment completed by the Data Communications Company (DCC).

### 2. Summary of MP202

This section summarises the key points of this Modification Proposal. More information is available in the Modification Report in Appendix B.

#### 2.1 What is the issue?

Some models of PPMID can be used as both a SMETS1 and SMETS2+ PPMID, however the SEC is drafted so that a Device can be either SMETS1 or SMETS2+, but cannot act as both. The DCC has been approached by several Users who would like to be able to use the same PPMID model across all installations.

Currently, upon receiving a Service Request for these Devices, the DCC is unable to determine for these whether to construct a Great Britain Companion Specification (GBCS) command for a SMETS2+ Device or forward the Service Request to the SMETS1 Service Provider (S1SP) for a SMETS1 Device.

#### 2.2 What is the Proposed Solution?

The Proposed Solution involves having two rows of the same firmware version for a Device Model included in the Central Products List (CPL): one row for SMETS1 and the other for SMETS2. The data received via CPL is stored in the Firmware Version table in the Smart Metering Inventory (SMI). Currently, the Primary Key (comprising of Firmware Version, Device Model, Device Type and the Manufacturer ID) held in the table can only accept one record for each firmware version.

The data model changes to the SMI will involve changing the primary key constraints. This will extend the Primary Key of the Firmware Version table by including a new SMETS1 Indicator field. The value of the SMETS1 Indicator field will be derived from the GBCS Version.

Processing Service Reference Variant (SRV)11.1 'Update Firmware' will be amended such that, in the case of PPMIDs only, where there is a record for both a SMETS1 and SMETS2 Firmware Version (indicating a dual mode PPMID), then the SRV11.1 Update Firmware request will be rejected with a new DCC User Interface Specification (DUIS) error code E110106 indicating that this firmware cannot be applied to a SMETS1 PPMID installation. (For backwards compatibility, this will be mapped to an existing error code E110101 for older DUIS versions).

Processing of SRV11.2 'Read Firmware', SRV11.3 'Activate Firmware' and Alert 0x8F8B 'Firmware activation alert' for PPMIDs will be amended such that, if there are multiple firmware versions available, the relevant one will be determined based on the SMETS version of the associated Communications Hub.

### 3. DCC Impact Assessment

#### 3.1 Summary

- Total cost of Design, Build, and PIT cost to implement is £393,552 (if implemented in June 2024 SEC Release).
- The timescale to complete the implementation to Production is 11 months.
- MP202 should be included as part of the June 2024 SEC Release.

#### 3.2 Benefits

- Reduces the complexity of installation and commissioning of dual mode PPMIDs capability and increases the efficiency of metering operations.
- Suppliers would need to uplift to a new DUIS version to benefit from the proposed solution and make internal changes to accommodate this.

#### 3.3 Modification Costs

- If MP202 was a standalone Modification in a SEC Release this would cost £758,522.
- As MP202 is assigned to the June 2024 SEC Release, it will be implemented alongside MP162. As such, the June 2024 SEC Release contains two components of the Market-Wide Half Hourly Settlement (MHHS), the new MDR User Role and the capacity uplift associated with the new MHHS functionality.
- The DCC believes there will be significant post-PIT costs for the SEC Release, with a corresponding significant reduction in post-PIT costs for this modification.

### 4. Scale of the issue

- SECAS received figures that there are 200,700 unmigrated devices with "bilingual" PPMIDs.
- During the modification process two Large Suppliers noted that there could be up to six million Devices impacted by this issue.

- SECAS received one response to the Request for Information to determine what issues Parties were experiencing with the current DCC Tactical Interim Solution. Two Parties noted they did not experience issues with the current process. One Party impacted by the issue identified in MP202 noted that due to the time and effort involved in updating firmware on relevant Devices, segregating Devices for installs and receiving replacement Devices for customers they would like to see the Proposed Solution implemented.

## 5. Questions for the TABASC

We seek the TABASC's views on the following questions to feed into the discussions with the Working Group and Change Sub-Committee:

- Does the high-level solution architecture satisfy the stated aims of the Proposed Solution?
- Do you have any further comments on the Impact Assessment?

## 6. Next steps

SECAS will present MP202 to the Working Group and Change Sub-Committee. A modification report consultation will then be issued before being presented to the Change Board for final vote.

## 7. Recommendations

The TABASC is asked to:

- **CONFIRM** that the Impact Assessment fulfils the Proposed Solution, and;
- **PROVIDE** views and feedback on the DCC's high-level technical solution.

Ben Giblin

SECAS Team

24 May 2023

### Attachments:

- **Appendix A:** MP202 DCC Impact Assessment
- **Appendix B:** MP202 Modification Report