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Paper Reference:	TABASC_77_0704_04
Action:	For Discussion

MP184 Business Requirements

1. Purpose

This paper presents the business requirements for Modification Proposal [MP184 'Increase Smart Capability of SMETS2 Twin Element ESME to support Solar and Storage use cases'](#). We seek the Technical Architecture and Business Architecture Sub-Committee's (TABASC) views on whether the solution option is suitable for a Data Communications Company (DCC) Preliminary Assessment and whether the business requirements are clear and unambiguous.

2. Summary of the proposal

What is the issue?

The intent of this modification is to enable twin element meters to measure the exported energy on the secondary measurement element.

Currently, Smart Metering Equipment Technical Specification (SMETS)2 is fit for purpose when considering traditional requirements for twin element metering. The issue is the current specification is preventing innovations and alternative markets from using SMETS2 as a solution, due to the current limitations. By making these proposed changes, that will not require hardware changes to existing SMETS2 twin element meters in the market, SMETS2 and the DCC Ecosystem can be used more widely. To enable this innovation and use of SMETS2 for such products and services, MP184 is proposing: -

- Support for Active Export kilowatt-hour (kWh) register on the secondary element.
- Support for four Time of Use's (TOU) to support Active Export kWh on the secondary element.
- Support for an additional load profile channel specifically for the Active Export kWh on the secondary element.
- Support for an Export Meter Point Administration Number (MPAN) on the secondary element.

What is the proposed solution?

The solution will be applied to SMETS2 Devices. To enable support for solar panel and other microgeneration type applications, the proposal is to enhance the current UK SMETS specification to maximise the number of potential applications, by supporting the additional data.

3. Business requirements

Business Requirements	
Requirement 1	Active Export kWh register on the secondary element
Requirement 2	Four Time of Use (TOU) to support Active Export kWh on the secondary element.
Requirement 3	An additional load profile channel specifically for the Active Export kWh on the secondary element.
Requirement 4	An Export MPAN on the secondary element.
Requirement 5	Export data to be made available on the Home Area Network (HAN) so that In Home Devices (IHD) and Prepayment Interface Device (PPMID) manufacturers can also benefit and provide to the consumer.

The business requirements and solution details can be found in Appendix A.

4. Internal Impact Analysis

Our technical lead has now completed the impact analysis because of the change. MP184 will impact changes in SMETS, GBCS and DUIS. It is worth highlighting [MP152 'Consumption on Smart Polyphase Electricity Meters'](#) is also seeking for similar functionality as MP184, but on the polyphase meter. SECAS are working on progressing both modifications at the same time.

The full change impact analysis can be found in Appendix B.

5. Questions for the TABASC

We seek the TABASC's view on the following questions to feed into the business requirements before we request a Preliminary Assessment:

- Are the detailed business requirements for these options clear and unambiguous?
- Is the suitable to proceed to Preliminary Assessment?
- Do TABASC members have any concerns over the solution options?

6. Next steps

MP184 will be presented to the TABASC on 5 May 2022 before requesting the DCC Preliminary Assessment.

Timetable	
Event/Action	Date
TABASC feedback	3 Feb 2022
Request DCC Preliminary Assessment	9 May 2022 – 17 June 2022
Present to Working Group	6 Jul 2022
Present to CSC	19 July 2022

7. Recommendations

The TABASC is asked to:

- **PROVIDE** views on the suitability of the business requirements to proceed to Preliminary Assessment; and
- **PROVIDE** views on the delivery options for the solution.

Khaleda Hussain

SECAS Team

28 April 2022

Attachments:

- **Appendix A:** MP184 business requirements v0.2
- **Appendix B:** Solution Impact Analysis v0.2