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## MP085 ‘Synchronisation of smart meter voltage measurement periods’

### October 2020 Working Group – meeting summary

#### Attendees

Attendee	Organisation
Ali Beard	SECAS
Bradley Baker	SECAS
Joe Hehir	SECAS
Emmanuel Ajayi	SECAS
David Walsh	DCC
Chun Chen	DCC
Robin Seaby	DCC
Jonathan Sharp	DCC
Sasha Townsend	DCC
Dean Florence	DCC
Gary Williams	DCC
Pal Abhijit	DCC
Simon Trivella	British Gas
Allan Row	British Gas
Alex Hurcombe	EDF Energy
Ali Raza	EDF Energy
Robert Williams	E.ON
Julie Geary	E.ON
Elias Hanna	Landis & Gyr
Alistair Cobb	Landis & Gyr
Daniel Davies	Utiligroup
Mahfuzar Rahman	Scottish Power
Matthew Alexander	SSEN
Emslie Law	SSE/OVO
Rachel Norberg	Utilita
Gemma Slaney	WPD
Lynne Hargrave	Calvin Capital
Ferenc Vanhoutte	Geo Together

## Overview

The Smart Energy Code Administrator and Secretariat (SECAS) provided an overview of the issue identified by MP085, the Proposed Solution, the draft legal text and the Dta Communications Company (DCC) Preliminary Assessment.

### Issue:

- Root Mean Squared (RMS) voltage readings do not start at consistent times as per Half-Hourly consumption data
- Requirement not explicitly codified in the Technical Specifications and the requirement has been interpreted differently by different Manufacturers
- Synchronised data must be recreated via setting a more granular recording period (1 min), downloading the more granular data, then calculating the required synchronised data. This requires transmitting 30x more data.
- Conservative, less efficient network investment decisions due to lack of data alignment

### Proposed Solution:

- Electricity Smart Metering Equipment (ESME) to commence calculating average RMS voltage reading at 00:00 or 00:30
- Measurement period to have a maximum duration of 1,800 seconds
- ESME to retain any existing entries in the Average RMS Voltage Profile Data Log relating to the period before the ESME was energised or a change in measurement period

### Draft legal text:

- Amend SEC Schedule 9 'Smart Metering Equipment Technical Specifications 2' sections 5.5.12 for Single Phase and Twin Element ESME and 5.17.2 for Poly-phase ESME

### DCC Preliminary Assessment:

- SEC Appendix AD 'DCC User Interface Specification' (DUIS) updated schema to be provided in the DCC's Impact Assessment
- Data Services Provider (DSP) change only
- Anticipated lead time of 2-months
- Design, build and Pre-Integration Testing (PIT) costed between £100,000 to £200,000
- DCC Impact Assessment costed at £8,645.12

## Working Group discussions

### Proposed Solution

SECAS summarised the issue identified by the Proposer and the Working Group had no further comments.

SECAS noted Consumers impacts of this modification. In summary, the more accurate the data, the better Network Parties can provide a consistent and reliable service. The Proposed Solution will allow Network Parties to accurately monitor performance and will allow for the process of identifying issues on the systems more efficiently.

SECAS presented the Proposed Solution to the Working Group and provided information regarding a table containing 11 values. These values can be chosen to measure an RMS voltage measurement period and range from ten seconds to 30 minutes. All are factors of 1,800 seconds (30 minutes).

### Which Devices are in scope?

The Working Group noted that in order to address the issue for Devices currently installed, a firmware update would have to be issued by each meter Manufacturer. To do this, all existing versions of the SMETS would have to be end dated. Concerns were raised due to the potential high costs involved and where meters that cannot be updated would be left non-compliant. SECAS will discuss this with the Proposer to decide whether this modification only affects newly manufactured ESME after the modification's implementation, or if the functionality should be given to all ESME currently installed as well.

### DCC's Preliminary Assessment

SECAS provided a summary of the main points of the DCC Preliminary Assessment. Questions were raised as to why the Proposed Solution includes a change to the DSP systems. This is because of the introduction of a new validation for 11 different permissible average RMS voltage measurement period values. All other values will be rejected with a new error code which requires an updated schema. The rest of the solution relates to changes within the Device itself.

SECAS will discuss the outcomes of the Working Group with the Proposer, Network Party representatives and the DCC to decide whether this modification relates exclusively to newly manufactured Devices or to also include Devices currently installed. Once this has been decided SECAS will issue the Refinement Consultation.

## Next Steps

The following actions were recorded from the meeting:

- SECAS to refine solution with the Proposer, Network Parties and the DCC
- SECAS to issue Refinement Consultation