SEC
Smart Energy Code

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Smart Energy Code

DP131

‘Default maximum demand configuration conflict’

Modification Report

Version 0.2

23 June 2020

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About this document

This document is a draft Modification Report. It currently sets out the background, issue, proposed solution, impacts, costs, implementation approach and progression timetable for this modification, along with any relevant discussions, views and conclusions.

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This document also has one annex:

- **Annex A** contains the redlined changes to the Smart Energy Code (SEC) required to deliver the Proposed Solution.

Contact

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1. Summary

This proposal has been raised by Chun Chen on behalf of the Data Communications Company (DCC).

SEC Schedule 8 'Great Britain Companion Specification' (GBCS) Table 28d includes values for maximum demand configuration. Due to the implementation of the SEMP0018 'Standard Electricity Distributor Configuration Settings' solution, GBCS Table 28d is currently in conflict with Energy Network Association (ENA)-required default configuration, Smart Metering Equipment Technical Specifications (SMETS), GBCS use case, DCC User Interface Specification (DUIS) and the Message Mapping Catalogue (MMC).

This modification proposes that a correction to GBCS Table 28d is made to align the table with ENA-required default configuration.

2. Issue

What are the current arrangements?

SECMP0018 'Standard Electricity Distributor Configuration Settings' introduced a requirement for Device Manufacturers to populate Electricity Smart Metering Equipment (ESME) Devices with standard configuration settings. Electricity Network Parties have agreed a common set of configurations that should be set at installation. These configurations can be found using the Energy Network website links below:

https://www.energynetworks.org/electricity/futures/smart-meters.html

https://www.energynetworks.org/assets/files/ENA_EREC_M30_Issue_2.pdf

The solution for SECMP0018 resulted in the addition of GBCS Table 28d and includes default values for maximum demand configuration. Maximum demand monitoring occurs from 31 October to 29 February every year from Monday to Friday during a configured time of day.

What is the issue?

According to the SMETS, GBCS use case definitions, the DUIS and the MMC, values of week definition and date range cannot be configured; only the time of day can be configured via defined use case.

The Companion Specification for Energy Metering (COSEM) template (attached in GBCS Section 18.2 (use case ECS37)) also shows the date configuration for the maximum demand as below:

Maximum demand monitoring is daily in between configured time of day for its whole life.

1. *Value of week day is 0xFE*
2. *Value of begin date is 0x000001FFFF*
3. *Value of end date of 0xFFFFFFFFFF*

This means that as a result of SECMP0018's implementation, GBCS Table 28d is in conflict with the ENA-required default configuration and the SMETS, GBCS use cases, the DUIS and the MMC.

It is proposed that a correction is made to GBCS v3.2 Table 28d to align this with the ENA-required default configuration.

What is the impact this is having?

This conflict in the current SEC Technical Specifications is causing a barrier for Electricity Smart Metering Equipment (ESME) Manufacturers to develop GBCS compliant Devices.

3. Solution

Proposed Solution

The Proposed Solution is to make amendments to GBCS Table 28d. A number of values currently found in this table conflict with what is stated in the SMETS, GBCS use case definitions, the DUIS, the MMC and the COSEM. The proposed solution is to amend the table so that the current conflicting values are corrected to align with the other Technical Specifications. This will mean that, once implemented, meter Manufacturers will be able to build Devices that comply with the Technical Specifications, removing any confusion as to which Technical Specification to follow.

Which GBCS version will this solution be applied to?

If this solution is implemented in the November 2020 SEC Release (see section 6 below), it will be applied to the new GBCS version 4.0 being created by this release. Earlier version series will not be affected.

If this solution is implemented after the November 2020 SEC Release, it will be applied to a new GBCS version 4.x and any higher GBCS version series (5.x etc) that may also be in effect at that time.

4. Impacts

This section summarises the impacts that would arise from the implementation of this modification.

SEC Parties

SEC Party Categories impacted			
✓	Large Suppliers	✓	Small Suppliers
✓	Electricity Network Operators		Gas Network Operators
✓	Other SEC Parties		DCC

This modification will impact Other SEC Parties as meter Manufacturers will now be able to manufacture Devices that comply with the Technical Specifications as the maximum demand configurations will now be aligned across the specifications.

Suppliers are impacted by this modification as they must procure Devices from the Manufacturers. This modification will result in Suppliers installing Technical Specification-compliant ESME in Consumers' premises.

Electricity Network Operators will also see a benefit from this modification as the maximum demand data they will receive will be derived from ESME that comply with each of the Technical Specifications.

DCC System

There are no impacts on DCC Central Systems.

SEC and subsidiary documents

The following parts of the SEC will be impacted:

- Schedule 8 'GB Companion Specification'
- Schedule 11 'TS Applicability Tables'

The changes to the SEC required to deliver the proposed solution can be found in Annex A.

Consumers

If approved, this modification will result in Technical Specification-compliant ESME being installed in Consumers' premises. More so, the maximum demand data collected by Electricity Network Operators will allow them to facilitate a more consistent and efficient service for Consumers.

Other industry Codes

There are no impacts on other industry Codes.

Greenhouse gas emissions

There are no impacts on greenhouse gas emissions.

5. Costs

DCC costs

There are no anticipated DCC implementation costs to implement this modification.

SECAS costs

The estimated Smart Energy Code Administrator and Secretariat (SECAS) costs to implement this modification is two days of effort, amounting to approximately £1,200. The activities needed to be undertaken for this are:

- Updating the SEC and releasing the new version to the industry.

SEC Party costs

There will be no costs to SEC Parties.

6. Implementation approach

Recommended implementation approach

The Smart Energy Code Administrator and Secretariat (SECAS) is recommending an implementation date of:

- **5 November 2020** (November 2020 SEC Release) if a decision to approve is received on or before 22 October 2020; or
- **4 November 2021** (November 2021 SEC Release) if a decision to approve is received after 22 October 2020 but on or before 21 October 2021.

The Panel has already baselined the scope of the November 2020 SEC Release, but can choose to add further modifications by exception if it is deemed either necessary or efficient to do so.

As the Proposed Solution impacts the GBCS, the modification should be implemented in a SEC Release that includes an uplift to this to prevent more than one change in a calendar year. The November 2020 SEC Release is the earliest such release this modification can be targeted for. If this modification is not included in the November 2020 SEC Release, it will be targeted for the November 2021 SEC Release, which is when the next uplift to the GBCS is expected. However, if an earlier uplift occurs in 2021, MP131 may be able to be incorporated into the uplift at the same time.

7. Assessment of the proposal

Solution development

The Proposed Solution was developed between SECAS and the DCC. The Proposer for SECMP0018 was also consulted. The Proposed Solution was agreed as the most effective method of ensuring that meter Manufacturers produce ESME that comply with the Technical Specifications in regards to maximum demand configuration. An option was initially explored where GBCS Table 28d would be removed from GBCS altogether; however it was agreed that this could cause further issues relating to the operability of ESME.

The views of the Change Sub-Committee (CSC) on the issue will be sought on 30 June 2020.

Views against the General SEC Objectives

Proposer's views

The Proposer believes that this modification will better facilitate SEC Objective (a)[1] as once implemented, ESME that supports ENA-required default configuration will be installed in Consumers' premises.

They also feel that this modification will better facilitate SEC Objective (c)[2] as the ESME will provide maximum demand data that meets the Technical Specifications.

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[1] Facilitate the efficient provision, installation, operation and interoperability of smart metering systems at energy consumers' premises within Great Britain.
[2] Facilitate energy consumers' management of their use of electricity and gas through the provision of appropriate information via smart metering systems.

Appendix 1: Progression timetable

This Proposal was raised on 21 May 2020. Initial comments and feedback will be gathered before being taken to the next Change Sub-Committee (CSC) meeting for recommendation. The proposal will then be taken to the SEC Panel to convert the proposal into a Modification Proposal and proceed directly to the Report Phase.

Timetable	
Event/Action	**Date**
Draft Proposal raised	21 May 2020
Legal text developed with the Proposer	Jun 2020
Presented to CSC for initial comment and recommendations	30 Jun 2020
Panel converts Draft Proposal to Modification Proposal	17 Jul 2020
Modification Report approved by Panel	17 Jul 2020
Modification Report Consultation	20 Jul 2020 – 7 Aug 2020
Change Board Vote	26 Aug 2020

Appendix 2: Glossary

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

Glossary	
Acronym	**Full term**
COSEM	Companion Specification for Energy Metering
CSC	Change Sub-Committee
DCC	Data Communications Company
DUIS	DCC User Interface Specification
ENA	Electricity Network Association
ESME	Electricity Smart Metering Equipment
GBCS	Great Britain Companion Specification
MMC	Message Mapping Catalogue
SEC	Smart Energy Code
SECAS	Smart Energy Code Administrator and Secretariat
SMETS	Smart Metering Equipment Technical Specifications