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Paper Reference:	**SECP_68_1005_09**
Action:	**For Decision**

SECMP0055 Modification Report

1. Purpose

SECMP0055 'Incorporation of multiple Issue Resolution Proposals into the SEC' has undergone the Refinement Process and the Working Group has now completed its assessment of the areas requested by the Panel and prepared the Modification Report. We are recommending that this modification be progressed to the Report Phase and that the Panel approves the Modification Report, the implementation approach, and that SECMP0055 is a Self-Governance Modification.

This paper provides a high-level summary of the key points. Full details can be found in the draft Modification Report in Appendix A.

2. Summary of the proposal

What is the issue?

BEIS have managed a process of assessing issues raised by industry concerning Technical Specifications, including Smart Metering Equipment Technical Specifications (SMETS), Great Britain Companion Specification (GBCS) and DCC User Interface Specification (DUIS). Where necessary, these have resulted in Issue Resolution Proposals (IRPs) that typically clarify, correct or align the Technical Specifications to current practice. Responsibility for implementing IRPs is passing from transitional governance to SEC governance. This modification was raised to agree a batch of these approved IPRs for implementation in the SEC.

What is the Proposed Solution?

SECMP0055 has produced an agreed list of IRPs to be implemented in the SEC. None of these changes will require changes to the DCC systems – such IRPs will be picked up under a separate modification at a later date.

3. Proposed progression

The Working Group believes that this modification is now ready to progress to the Report Phase.

Determination approach

The Panel originally designated this as a Self-Governance modification; we do not believe this view has changed.

Implementation approach

The Working Group recommends an implementation approach of:

- 7 November 2019 (November 2019 SEC Release) if a decision to approve is received by 23 October 2019.

4. Recommendations

The Panel are requested to:

- **AGREE** that SECMP0055 should be progressed to the Report Phase;
- **APPROVE** the Modification Report;
- **APPROVE** the implementation approach; and
- **AGREE** that SECMP0055 should be progressed as a Self-Governance Modification.

Harry Jones

SECAS Team

2 May 2019

Attachments:

- **Appendix A:** SECMP0055 Modification Report
  - **Annex A:** SECMP0055 legal text
  - **Annex B:** SECMP0055 legal text (GBCS changes)
  - **Annex C:** IRP inclusion list
  - **Annex D:** Working Group Consultation responses

SEC
Smart Energy Code

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Smart Energy Code

SECMP0055

'Incorporation of multiple Issue Resolution Proposals into the SEC'

Modification Report

Version 0.3

About this document

This document is the Modification Report for SECMP0055 'Incorporation of multiple Issue Resolution Proposals (IRPs) into the SEC'. It provides detailed information on the background, issues, solutions, costs, impacts and implementation approach. It also summarises the discussions that have been held and the conclusions reached with respect to this Modification Proposal.

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This document also has four annexes:

- **Annex A** contains the redlined changes to the Smart Energy Code (SEC) required to deliver this modification.
- **Annex B** (attached separately) contains the redlined changes to SEC Schedule 8 required to deliver this modification.
- **Annex C** contains the full list of Issue Resolution Proposals (IRPs).
- **Annex D** contains the Working Group Consultation responses.

1. Summary

The Department for Business, Energy & Industrial Strategy (BEIS) have managed a process of assessing issues raised by industry concerning the Technical Specifications, including the Smart Metering Equipment Technical Specifications (SMETS), the Great Britain Companion Specification (GBCS) and the Data Communications Company (DCC) User Interface Specification (DUIS). Where necessary, these have resulted in IRPs that typically clarify, correct or align the Technical Specifications to current practice. Responsibility for implementing IRPs is passing from transitional governance to SEC governance.

SECMP0055 proposes to implement a set of these IRPs that have arisen from this process which do not impact on the DCC Systems.

This modification is expected to impact manufacturers but is not expected to impact on any other SEC Parties. Implementation costs are expected to be limited to Smart Energy Code Administrator and Secretariat (SECAS) time and effort in updating the SEC. If approved, this modification is targeted for the November 2019 SEC Release.

2. Background

What are Issue Resolution Proposals?

In the early stages of the Smart Metering Implementation Program, BEIS took the lead in developing the Technical Specifications that sit under the SEC. As part of this, BEIS also took responsibility for receiving and responding to issues raised internally, by the DCC, and by other interested industry parties. Since its inception, several hundred issues have been raised in relation to technical specifications under the SEC through the Technical Specification Issue Resolution Sub-Group (TSIRS). In some cases, these queries have been resolved by providing an explanation of the specifications, whilst some have resulted in proposed amendments to the specifications in the form of IRPs.

BEIS has implemented IRPs required for the initial DCC Releases and has begun handing over those not required for initial releases for implementation through the SEC Modification Process.

What is the issue?

A number of IRPs agreed by the TSIRS are ready to be implemented in the SEC. To improve efficiency, it was agreed these changes should be batched and progressed under a single Modification Proposal.

SECMP0055 was raised by the DCC on 2 May 2018 to resolve this issue.

3. Solution

Proposed Solution

This modification proposes to implement 32 IRPs that have been developed and agreed by the TSIRS.

As part of this modification's assessment, SECAS, the Proposer and the Working Group considered each of the 32 candidate IRPs for inclusion. The final list of IRPs for this modification excludes any IRP where there has been a DCC System impact identified. The excluded IRPs will be the subject of a future modification.

The proposed solution for each of the IRPs typically:

- Clarifies requirements in the affected Technical Specification document (meaning, implementing the IRP reduces the risk of the end-to-end solution failing to work as expected); or
- Aligns the affected Technical Specification to the end-to-end solution as currently implemented (meaning, implementing the IRP reduces the risk that the implemented solution needs adjusting to align to the Technical Specification or that a part of the solution is deemed non-compliant).

The specific changes are those that were developed as part of the IRP process, led by BEIS. The final list of IRPs can be found in Annex C.

Legal text

The changes to the SEC required to deliver the proposed solution can be found in Annexes A and B. We will develop the changes to SEC Schedule 11 'TS Applicability Tables' in conjunction with the Technical Architecture and Business Architecture Sub-Committee (TABASC) as part of this modification's implementation.

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

No Supplier Parties or Network Parties should be impacted by this modification, due to simply making clarifications to documents or aligning them to existing solutions with no functional changes.

Other SEC Parties will be impacted as the DCC have assessed the IRPs only for impacts relating to the SEC and their systems, not accounting for a manufacturer perspective. This opinion was sought as part of the Working Group Consultation (WGC) and later by contacting the British Electrotechnical and Allied Manufacturers Association (BEAMA) and Energy and Utilities Alliance (EUA) where it was confirmed some manufacturers will need to accommodate changes made under this modification.

The DCC will be impacted by this modification: although no functional changes will be made, they will need to accommodate the new versions of GBCS and the Technical Specifications that are delivered under the proposed solution.

DCC System

There are no impacts to the DCC Systems for this modification.

SEC and subsidiary documents

The following parts of the SEC will be impacted:

- SEC Schedule 8 ‘GB Companion Specification’
- SEC Schedule 9 ‘SME Technical Specifications 2’
- SEC Schedule 10 ‘CH Technical Specifications’
- SEC Schedule 11 ‘TS Applicability Tables’

Other industry Codes

There are no impacts on other Industry Codes.

Greenhouse gas emissions

There are no impacts to Greenhouse Gas Emissions anticipated.

5. Costs

DCC costs

There are no DCC costs expected in implementing this modification.

SECAS costs

The estimated SECAS implementation cost 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

No cost should be incurred by SEC Parties due to the changes proposed in this modification.

6. Implementation approach

Recommended implementation approach

The Working Group is recommending an implementation date of:

- **7 November 2019** (November 2019 SEC Release) if a decision to approve is received on or before 23 October 2019.

This is the next available SEC Release where other changes to GBCS and the Technical specifications are being made.

The original intention was to implement this modification in the June 2019 SEC Release. However, following conversation between BEIS, the DCC and SECAS, it was agreed to align the changes proposed under this modification to other changes being made in November 2019, to prevent multiple updates to these documents being implemented within a short space of each other.

The proposed document version changes to come into effect in November 2019 are listed below:

- SMETS 3.1 to SMETS 4.X
- GBCS 2.1 to GBCS 3.3

With new sub-versions of GBCS, SMETS, and CHTS being created as part of this modification, the TS Applicability Tables will be amended accordingly.

7. Discussions and development

Are the solutions identified in each IRP still necessary?

The Working Group considered the full list of candidate IRPs that were approved by the TSIRS. Each of these IRPs is considered beneficial to the industry in resolving ambiguities or aligning with existing practice.

Are there any unintended consequences in implementing these IRPs?

The Working Group considered the candidate list of IRPs. The DCC identified two IRPs considered to be DCC Systems-impacting, and these IRPs have been removed from the list to enable the remaining IRPs to progress through this modification.

The Working Group sought feedback from Parties to reaffirm that the IRPs do not have any unintended adverse impacts. Each IRP with potentially unintended impacts was removed from the final list and have been highlighted to be considered in a future IRP inclusion modification. Three in total were removed from the list following WGC responses.

Is there any reason not to implement each of these IRPs as part of a single change?

Where no potential DCC System or Party impact has been identified the Working Group considered that each IRP in the original Modification Proposal and the additional IRPs subsequently closed by TSIRS should be included in a single change, as it is considered most economic to include these IRPs in a single release.

Is November 2019 an appropriate Release for this modification?

The Working Group queried whether the November 2019 SEC Release was an appropriate release to target for this modification. November 2019 is the first SEC Release after Release 2.0 where GBCS is expected to be amended and implementing this modification along with other GBCS changes is expected to be the most economic method of implementing this change. Originally the June 2019 SEC Release was the target date for this modification, but after further discussion between SECAS, BEIS and the DCC, it was agreed that it would be preferable to include these changes alongside other extensive changes in the November 2019 SEC Release to align them, rather than result in multiple document versions being created.

Why was a Working Group required?

The Working Group discussed whether a Working Group was required for this change, given the process that has been followed by the TSIRS. Considering that this is the first modification of its kind, it was considered good practice to provide additional scrutiny via a Working Group, although the expectation had been that a relatively quick Refinement Process would be followed.

Alternative implementation approaches considered?

As part of refining the legal text with the selected IRPs, discussions took places as what would be the best method to implement the legal text over different sub-versions of the Technical Specifications.

An alternative approach was considered where existing versions of the SMETS and GBCS would be incremented to new versions as listed below:

- SMETS 2.0 to SMETS 2.1
- GBCS 1.1 to GBCS 1.2

This differs to the proposed approach because it includes amending previous versions of the Technical Specifications. The rationale for this approach was that due to the TS Applicability Tables still having an undetermined maintenance applicability period these versions will likely still be in use and should therefore be updated to ensure these changes are implemented for devices currently using the older versions. This approach will require more work on the part of SECAS and SEC Parties to deliver. Comments on this approach were sought as part of the Refinement Process. The Working Group and consultation responses were not in favour of this alternative approach. Therefore, this approach was not selected as the recommended implementation approach for SECMP0055.

What were the views of the TABASC?

The TABASC was consulted on the modification three times during the Refinement Process to ensure that due process had been followed over how the IRPs had been allocated to the modification's solution and challenge over any they felt were detrimental to the modification.

After the industry consultation had been completed, the TABASC requested further meter manufacturer input to assess the impacts on them, given no responses from that group of organisations had been received. After receiving feedback from meter manufacturers after directly contacting BEAMA and the EUA, the TABASC noted manufacturers' concerns over some of the IRPs that had been included. Following further communication with BEIS, it was felt the original list consulted on should be left unchanged as industry respondents had agreed the list in principle and the TABASC had felt the manufacturers' concerns over certain IRPs could be addressed by giving clarifications rather than removing them from the list. The Proposer agreed with this view.

The TABASC advised to remove TS0 770, a typographical error, from the candidate list on the grounds that it needed further investigating to deliver a solution before being added to this modification's overall solution with other IRPs. SECAS agreed with this approach and removed TABASC members also wanted to see the title and a small summary of the IRPs in any future modification, so that members are sure of what change is being made and which Technical Specification is being affected.

8. Conclusions

Benefits and drawbacks

The Proposer and the Working Group have identified the following benefits and drawbacks in implementing this modification:

Benefits

- This change would resolve ambiguities in the Technical Specifications, which will help new entrants, systems developers and manufacturers to develop a working end-to-end system. It will also reduce the risk that existing Parties, system developers and manufacturers implement unintended changes.

Drawbacks

- No drawbacks have been identified by the Working Group.

Proposer's rationale against the General SEC Objectives

Objective (a)[1]

The Proposer believes that SECMP0055 will better facilitate SEC Objective (a) as incorporating the selected IRPs into the SEC will reduce the risk of future operational issues arising if the solution proposed in the IRP is not implemented consistently across each affected party.

Objective (b)[2]

The Proposer believes that SECMP0055 will better facilitate SEC Objective (b) as formalising these solutions, where they align with the DCC's or Devices' implementation, avoids an inefficient redesign by various parties or perceived or real compliance issues.

Objective (g)[3]

The Proposer believes that SECMP0055 will better facilitate SEC Objective (g) by providing efficiency in the form of incorporating the IRPs into the core SEC text rather than requiring additional documentation to address these issues.

Working Group members' views

The Working Group unanimously agreed with the Proposer's views that General SEC Objectives (a) and (b) are better facilitated due to SECMP0055, for the same reasons. A minority of the Working

[1] (a) Facilitate the efficient provision, installation, operation and interoperability of smart metering systems at energy consumers' premises within Great Britain.
[2] (b) Enable the DCC to comply at all times with the objectives of the DCC and to discharge the other obligations imposed upon it by the DCC License.
[3] (g) Facilitate the efficient and transparent administration and implementation of the SEC.

Group believed that General SEC Objective (g) is better facilitated due to SECMP0055, but the rest felt it was neutral.

Consultation respondents' views

When the modification was sent out for Working Group Consultation, the responses back were mainly positive with only one response initially disagreeing. The respondent changed their opinion after amendments had been made to the IRP list and once the implementation approach had been changed to the November 2019 SEC Release.

Sub-Committee views

The TABASC were sent the list of IRPs and to review at multiple stages during the development of the modification to seek their input and approval on the final meeting. The TABASC are in agreement with the final list of IRPs included under SECMP0055.

It was also suggested by the TABASC that the implementation approach should be changed from the June 2019 SEC Release to the November 2019 SEC Release for greater alignment with other modification and technical specification changes.

Appendix 1: Glossary

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

Glossary	
Acronym	**Full term**
BEAMA	British Electrotechnical and Allied Manufacturers Association
BEIS	Department for Business, Energy & Industrial Strategy
CHTS	Communications Hub Technical Specifications
DCC	Data and Communications Company
DUIS	DCC User Interface Specification
EUA	Energy and Utilities Alliance
GBCS	GB Companion Specification
IRP	Issue Resolution Proposal
MRC	Modification Report Consultation
PIT	Pre-Integration Testing
SEC	Smart Energy Code
SECAS	Smart Energy Code Administrator and Secretariat
SIT	Systems Integration Testing
SMETS	Smart Metering Equipment Technical Specifications
TABASC	Technical Architecture and Business Architecture Sub-Committee
TSIRS	Technical Specification Issue Resolution Sub-Group
UIT	User Interface Testing
WGC	Working Group Consultation

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SECMP0055 'Incorporation of multiple Issue Resolution Proposals into the SEC'

Annex A

Legal text – version 0.1

About this document

This document contains the redlined changes to the SEC that would be required to deliver this Modification Proposal.

These changes have been drafted against SEC Version 6.12.

Schedule 8 'GB Companion Specification'

The changes to this document are provided in Annex B.

Schedule 9 'SME Technical Specifications' version 4.1

Amend Section 4.4.7.2 as follows:

4.4.7.2 Prepayment Mode

Where an Adjust Debt Command is to reduce the amount in a Debt Register and the amount in the Command is greater than the amount in the Debt Register, GSME shall be capable of setting the amount in the Debt Register to zero then applying the difference in the amounts in the following order:¶

xvi. → recovering debt accumulated in the *Accumulated Debt Register(4.6.5.1)*;¶
xvii. → repaying Emergency Credit activated and used by the Consumer and so increasing the *Emergency Credit Balance(4.6.5.8)* accordingly; and¶
xviii. → increasing the *Meter Balance(4.6.5.11)*.¶

In executing the Command GSME shall if Emergency Credit activated and used by the Consumer is fully repaid, deactivate Emergency Credit so that it is capable of activation when GSME is operating in Prepayment Mode where Emergency Credit is available (as set out in *Section 4.4.7.2)*.¶

Amend Section 4.5.2.2 as follows:

4.5.2.2 Add Credit

In executing the Command, GSME shall be capable of applying the credit added in the following order:¶

xii. → recovery of payment-based debt of an amount defined by *Debt Recovery per Payment(4.6.4.8)* from the *Payment Debt Register(4.6.5.13)* subject to the *Debt Recovery Rate Cap(4.6.4.10)*; ¶
xiii. → recovery of debt accumulated in the *Accumulated Debt Register(4.6.5.1)*;¶
xiv. → repayment of Emergency Credit activated and used by the Consumer and so increasing the *Emergency Credit Balance(4.6.5.8)* accordingly; and¶
xv. → adding remaining credit (the credit after deduction of *(xii)*, *(xiii)* and *(xiv)* above) to the *Meter Balance(4.6.5.11)*.¶

In executing the Command GSME shall if Emergency Credit activated and used by the Consumer is fully repaid, deactivate Emergency Credit so that it is capable of activation when GSME is operating in Prepayment Mode where Emergency Credit is available (as set out in *Section 4.4.7.2)*.¶

Amend Section 4.5.3.3 as follows:

4.5.3.3 Add Credit

In executing the Command, GSME shall be capable of applying the credit added in the following order:

xii. recovery of payment-based debt of an amount defined by *Debt Recovery per Payment(4.6.4.8)* from the *Payment Debt Register(4.6.5.13)* subject to the *Debt Recovery Rate Cap(4.6.4.10)*;

xiii. recovery of debt accumulated in the *Accumulated Debt Register(4.6.5.1)*;

xiv. repayment of Emergency Credit activated and used by the Consumer and so increasing the *Emergency Credit Balance(4.6.5.8)* accordingly; and

xv. adding remaining credit (the credit after deduction of *(xii)*, *(xiii)* and *(xiv)* above) to the *Meter Balance(4.6.5.11)*.

In executing the Command GSME shall if Emergency Credit activated and used by the Consumer is fully repaid, deactivate Emergency Credit so that it is capable of activation when GSME is operating in Prepayment Mode where Emergency Credit is available (as set out in *Section 4.4.7.2*).

Amend Section 4.5.3.19 as follows:

4.5.3.19 Reset Meter Balance

A Command to reset the *Meter Balance(4.6.5.11)* to zero.

In executing the Command, GSME shall reset the *Accumulated Debt Register(4.6.5.1)*, the Emergency Credit activated and used, and the *Emergency Credit Balance(4.6.5.8)*~~.~~, and shall deactivate Emergency Credit so that it is capable of activation when GSME is operating in Prepayment Mode where Emergency Credit is available (as set out in *Section 4.4.7.2*).

Amend Section 4.6.4.20 as follows:

4.6.4.20 Non-Disablement Calendar

A Switching Table comprising a set of rules specifying periods during which the Supply will not be Disabled due to the combined credit of the *Meter Balance(4.6.5.11)* and, where Emergency Credit is activated, the *Emergency Credit Balance(4.6.5.8)* falling below the *Disablement Threshold(4.6.4.12)* when GSME is operating in Prepayment Mode.

The rules stored within the table shall specify which of five Day Profiles should be used to specify Non-Disablement Periods for each day according to:

i. where the day is one of 20 Special Days, the Day Profile specified for that day; or
ii. where the day is not a Special Day, the Day Profile specified by the active Season Profile and Week Profile.

A Day Profile shall contain up to one contiguous time period during which the Supply may be Disabled due to the combined credit of the *Meter Balance(4.6.5.11)* and, where Emergency Credit is activated, the *Emergency Credit Balance(4.6.5.8)* falling below the *Disablement Threshold(4.6.4.12)* when GSME is operating in Prepayment Mode.

Amend Section 5.5.7.2 as follows:

5.5.7.2 Prepayment Mode

Where an Adjust Debt Command is to reduce the amount in a Debt Register and the amount in the Command is greater than the amount in the Debt Register, ESME shall be capable of setting the amount in the Debt Register to zero then applying the difference in the amounts in the following order:¶

xvi. → recovering debt accumulated in the *Accumulated Debt Register [INFO](5.7.5.1)*;¶
xvii. → repaying Emergency Credit activated and used by the Consumer and so increasing the *Emergency Credit Balance [INFO](5.7.5.15)* accordingly; and¶
xviii. → increasing the *Meter Balance [INFO](5.7.5.22)*.¶

In executing the Command ESME shall if Emergency Credit activated and used by the Consumer is fully repaid, deactivate Emergency Credit so that it is capable of activation when ESME is operating in Prepayment Mode where Emergency Credit is available (as set out in *Section 5.5.7.2)*.¶

Amend Section 5.5.9.4 as follows:

5.5.9.4 Consumption data

ESME shall be capable of recording to:

i. the *Cumulative and Historical Value Store [INFO](5.7.5.12)* in kWh:

   a) Consumption on the Day up to the Local Time;
   b) Consumption on each of the eight Days prior to such Day;
   c) Consumption in the Week in which the calculation is performed;
   d) Consumption in each of the five Weeks prior to such Week;
   e) Consumption in the month in which the calculation is performed; and
   f) Consumption in the thirteen months prior to such month.

ii. the *Daily Consumption Log [INFO](5.7.5.14)* in kWh, the Consumption on each of the 731 UTC days~~Days~~ prior to the current UTC day~~Day~~.

Amend Section 5.5.9.8 as follows:

5.5.9.8 Daily Consumption data

ESME shall be capable of calculating and storing Consumption for the previous ~~Day~~ UTC day together with a UTC date stamp in the *Daily Consumption Log [INFO](5.7.5.14)* every ~~Day~~ day at midnight UTC.

Amend Section 5.6.2.2 as follows:

5.6.2.2 Add Credit

In executing the Command, ESME shall be capable of applying the credit added in the following order:

xii. recovery of payment-based debt of an amount defined by *Debt Recovery per Payment [INFO](5.7.4.11)* from the *Payment Debt Register [INFO](5.7.5.23)* subject to the *Debt Recovery Rate Cap [INFO](5.7.4.13)*;

xiii. recovery of debt accumulated in the *Accumulated Debt Register [INFO](5.7.5.1)*;

xiv. repayment of Emergency Credit activated and used by the Consumer and so increasing the *Emergency Credit Balance [INFO](5.7.5.15)* accordingly; and

xv. adding remaining credit (the credit after deduction of *(xii)*, *(xiii)* and *(xiv)* above) to the *Meter Balance [INFO] (5.7.5.22)*.

In executing the Command ESME shall if Emergency Credit activated and used by the Consumer is fully repaid, deactivate Emergency Credit so that it is capable of activation when ESME is operating in Prepayment Mode where Emergency Credit is available (as set out in *Section 5.5.7.2)*.

Amend Section 5.6.3.3 as follows:

5.6.3.3 Add Credit

In executing the Command, ESME shall be capable of applying the credit added in the following order:

xii. recovery of payment-based debt of an amount defined by *Debt Recovery per Payment [INFO](5.7.4.11)* from the *Payment Debt Register [INFO](5.7.5.23)* subject to the *Debt Recovery Rate Cap [INFO](5.7.4.13)*;

xiii. recovery of debt accumulated in the *Accumulated Debt Register [INFO](5.7.5.1)*;

xiv. repayment of Emergency Credit activated and used by the Consumer and so increasing the *Emergency Credit Balance [INFO](5.7.5.15)* accordingly; and

xv. adding remaining credit (the credit after deduction of *(xii)*, *(xiii)* and *(xiv)* above) to the *Meter Balance [INFO] (5.7.5.22)*.

In executing the Command ESME shall if Emergency Credit activated and used by the Consumer is fully repaid, deactivate Emergency Credit so that it is capable of activation when ESME is operating in Prepayment Mode where Emergency Credit is available (as set out in *Section 5.5.7.2)*.

Amend Section 5.6.3.29 as follows:

5.6.3.29 Reset Meter Balance

A Command to reset the *Meter Balance [INFO](5.7.5.22)* to zero.

In executing the Command, ESME shall reset the Accumulated Debt Register *[INFO](5.7.5.1)*, the Emergency Credit activated and used, and the *Emergency Credit Balance [INFO](5.7.5.15)*-, and shall deactivate Emergency Credit so that it is capable of activation when ESME is operating in Prepayment Mode where Emergency Credit is available (as set out in *Section 5.5.7.2*).

Amend Section 5.7.1.5 as follows:

5.7.1.5 Randomised Offset Number

A randomly generated value between 0 and 1. Detailed information on the size and format of this data item is to be found in the relevant use case in section 19.3 of the applicable version of the Great Britain Companion Specification.

Amend Section 5.7.4.30 as follows:

5.7.4.30 Non-Disablement Calendar [INFO]

A Switching Table comprising a set of rules specifying periods during which the Supply will not be Disabled due to the combined credit of the *Meter Balance [INFO](5.7.5.22)* and, where Emergency Credit is activated, the *Emergency Credit Balance [INFO](5.7.5.15)* falling below the *Disablement Threshold [INFO](5.7.4.15)*, when ESME is operating in Prepayment Mode.

The rules stored within the table shall specify which of five Day Profiles should be used to specify Non-disablement Periods for each day according to:

i. where the day is one of 20 Special Days, the Day Profile specified for that day; or
ii. where the day is not a Special Day, the Day Profile specified by the active Season Profile and Week Profile.

A Day Profile shall contain up to one contiguous time period during which the Supply may be Disabled due to the combined credit of the *Meter Balance [INFO](5.7.5.22)* and, where Emergency Credit is activated, the *Emergency Credit Balance [INFO](5.7.5.15)* falling below the *Disablement Threshold [INFO](5.7.4.15)*, when ESME is operating in Prepayment Mode.

Amend Section 5.11.2.2 as follows:

5.11.2.2 Prepayment Mode

Where an Adjust Debt Command is to reduce the amount in a Debt Register and the amount in the Command is greater than the amount in the Debt Register, ESME shall be capable of setting the amount in the Debt Register to zero then applying the difference in the amounts in the following order:¶

xvii. → recovering debt accumulated in the *Accumulated Debt Register [INFO](5.7.5.1)*;¶
xviii. → repaying Emergency Credit activated and used by the Consumer and so increasing the *Emergency Credit Balance [INFO](5.7.5.15)* accordingly; and¶
xix. → increasing the *Meter Balance [INFO](5.7.5.22)*.¶

In executing the Command ESME shall if Emergency Credit activated and used by the Consumer is fully repaid, deactivate Emergency Credit so that it is capable of activation when ESME is operating in Prepayment Mode where Emergency Credit is available (as set out in *Section 5.11.2.2)*.¶

Amend Section 5.11.4.4 as follows:

5.11.4.4 Consumption Data

ESME shall be capable of calculating Consumption via the primary and secondary measuring elements of its Electricity Meter and recording:

i. to the *Cumulative and Historical Value Store [INFO](5.7.5.12)* in kWh:

   a) Consumption on the Day up to the Local Time;
   b) Consumption on each of the eight Days prior to such Day;
   c) Consumption in the Week in which the calculation is performed;
   d) Consumption in each of the five Weeks prior to such Week;
   e) Consumption in the month in which the calculation is performed; and
   f) Consumption in the thirteen months prior to such month.

ii. the *Daily Consumption Log [INFO](5.7.5.14)* in kWh the Consumption on each of the 731 ~~Days~~ UTC days prior to the current ~~Day~~UTC day.

Amend Section 4.4.3.1.1 as follows:

4.4.3.1.1 Gas Consumption and Energy Consumption data

The GPF shall be capable of using the GSME Cumulative and Historical Value Store and the GSME Cumulative Current Day Value Store (received from GSME as set out in *Section 4.5.2*) to calculate and store to:

i. the *GPF Cumulative and Historical Value Store [INFO](4.6.3.6)*:

   a) Energy Consumption on the Day up to the Local Time;
   b) Energy Consumption on each of the eight Days prior to such Day;
   c) Energy Consumption in the Week in which the calculation is performed;
   d) Energy Consumption in each of the five Weeks prior to such Week;
   e) Energy Consumption in the month in which the calculation is performed;
   f) Energy Consumption in the thirteen months prior to such month; and

ii. the *GPF Daily Gas Consumption Log [INFO](4.6.3.7)*, the Gas Consumption on each of the 731 ~~Days~~ UTC days prior to the current ~~Day~~UTC day.

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SECMP0055 'Incorporation of multiple Issue Resolution Proposals into the SEC'

Annex C

IRP inclusion list – version 1.0

IRP List	
IRP No.	**Issue Title**
IRP542	ECS24 (Read Tariff) clarification for message response
IRP543	UTRN Message Identifier Clarification
IRP544	SEC subjectUniqueID - Subject Unique ID inconsistency
IRP545	PCS02 Command Issue Date - Time Field
IRP546	GCS21f units of measure description
IRP548	Randomised Offset Number
IRP549	ChannelChangePending Clarification
IRP551	Confirmation of alerts for DBCH with associated triggers
IRP552	Query Alert-Event 8F70
IRP553	Warning Alert - Ambiguity in Zigbee payload
IRP557	Correct SMETS & CHTS references in GBCS 7.4
IRP558	Resolving issues raised from SAD review
IRP559	Alert for 0x810E - Credit Added Locally is missing
IRP560	Prepayment Clarifications
IRP561	Define currentSeqNumber
IRP562	Possible inconsistency regarding alert configuration
IRP563	Clarification on IRP477
IRP564	Part II - Clarification on IRP477
IRP565	Clarification on IRP525
IRP566	Which logs should be based on Local Time?
IRP568	Observation on IRP563 bit setting with GCS15c
IRP570	32 most significant bits of seqNumber
IRP572	Future dated CoS Command Query
IRP574	Additional cluster support
IRP575	Usage of otherInformation field in an Alert Payload

IRP List	
IRP No.	**Issue Title**
IRP576	UTRN Counter Cache on installation
IRP577	OTA WAIT_FOR_DATA
IRP579	Use of Alert Code 0x8012
IRP580	Variant message category in Table 20
IRP581	HAN Request for GSME Proxy Log - Security & Event Log
IRP583	Provider Change Control value
IRP584	Clarification on what to set CommodityType on GPF

Issues ID Log Changes

TS0 List	
TS0 No.	**TS0 Title**
TS0715	Additional Header Frame Counter for GCS16b
TS0797	Correct Reference for EU Notification & Inforce Date
TS0798	Typo in DLMS Template Encoded Length field
TS0800	Definition of Supplementary Remote Party 0_2
TS0804	Addition of Ref to the SRO tab in Section 20
TS0837	Error in FIPS external reference
TS0846	Active Tariff Price in GCS21f
TS0860	Clarify trigger for the Event / Alert Code 8F69
TS0880	Typo error in GBCS 13.7.4.5.5 Section Ref
TS0912	Clarification of DLMS Fixed length fields
TS01006	Very minor typo in GBCS 10.2.2.2
TS01087	Correct Currency Units in GCS21f

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SECMP0055 'Incorporation of multiple Issue Resolution Proposals into the SEC'

Annex D

Working Group Consultation responses

About this document

This document contains the full collated responses received to the SECMP0055 Working Group Consultation.

Question 1: Do you agree with the solution put forward?

Question 1			
Respondent	**Category**	**Response**	**Rationale**
SSE	Large Supplier	Yes	
Smartest Energy	Small Supplier	Yes	The proposed solution will help organisations to develop a working end-to-end system and offers a reduction in risks when making unintended changes
DCC	DCC	No	DCC agrees with what the proposed solution is intended to achieve. However, we have identified that three of the Issue Resolution Proposals (IRPs) currently included in the scope of SECMP0055 set out in Appendix B of this consultation will have an impact on DCC Systems. We consider that these IRPs should be removed from the scope of SECMP0055 in order to restrict the impact of the Modification Proposal to that of a document-only release. We have also identified a further four IRPs which were expected to have an impact on DCC Systems which will not. We consider that these should be added to the scope of SECMP0055. An amended version of the list of IRPs contained in Appendix B has been included alongside this document as part of DCC's response.

Question 2: Will there be any impact on your organisation to implement SECMP0055?

Question 2			
Respondent	**Category**	**Response**	**Rationale**
SSE	Large Supplier	No	
Smartest Energy	Small Supplier	No	N/A
DCC	DCC	Yes	Some of the IRPs within the scope of SECMP0055 require the Great Britain Companion Specification (GBCS) to be updated. There is a minor consequential impact on DCC Systems every time a new version of the GBCS is released as the DSP will need to update reference data items in the Smart Metering Inventory. If such updates are not made, the DSP will reject any entries in the Certified Products List (CPL) which contain GBCS versions that are unknown to it and will consequently fail to recognise any Devices operating with firmware supporting a new version of GBCS.

Question 3: Will your organisation incur any costs in implementing SECMP0055?

Question 3			
Respondent	**Category**	**Response**	**Rationale**
SSE	Large Supplier	No	
Smartest Energy	Small Supplier	No	N/A
DCC	DCC	Yes	Although DCC will not incur any direct costs as a result of the implementation of SECMP0055, there will be a small consequential cost associated with updating reference data items in the Smart Metering Inventory, as described in response to Question 2.

Question 4: Do you believe that SECMP0055 would better facilitate the General SEC Objectives?

Question 4			
Respondent	**Category**	**Response**	**Rationale**
SSE	Large Supplier	Yes	We agree with the working group's view that Objectives A and B will be better facilitated as a result of this change.
Smartest Energy	Small Supplier	Yes	This modification better facilitates SEC Objectives: (a), (b) & (g) - Incorporating the selected IRPs into the SEC reduces the risk of future operational issues arising if the solution proposed in the IRP is not implemented consistently across each affected party. The mod will also provide efficiency by including the IRPs into the SEC text instead of additional documents
DCC	DCC	Yes	Objective (a): DCC agrees that SECMP0055 will better facilitate SEC Objective (a) because incorporating the selected IRPs into the SEC will the reduce the risk of future operational issues arising if a consistent approach is not implemented by each affected Party. Objective (b): DCC agrees that SECMP0055 will better facilitate SEC Objective (b) because the proposed solution should avoid an inefficient redesign by various Parties, along with avoiding any perceived or real compliance issues.

Question 5: Noting the costs and benefits of this modification, do you believe SECMP0055 should be approved?

Question 5			
Respondent	**Category**	**Response**	**Rationale**
SSE	Large Supplier	Yes	
Smartest Energy	Small Supplier	Yes	There are no costs to any other parties and the working group were able to find no draw backs
DCC	DCC	Yes	DCC considers that SECMP0055 should be approved once the scope outlined in Appendix B has been amended to remove any remaining system-impacting IRPs, and the draft legal text has been updated to reflect the changes.

Question 6: Do you agree with the proposed implementation approach?

Question 6			
Respondent	**Category**	**Response**	**Rationale**
SSE	Large Supplier	Yes	
Smartest Energy	Small Supplier	Yes	The changes being made are non-functional
DCC	DCC	No	DCC considers that a better approach would be to limit the number of uplifts to the GBCS to one each year as this would ensure that any associated DCC costs incurred in a more efficient manner, along with limiting the number of times that market participants need to make any consequential changes. We currently anticipate that there will be three uplifts to the GBCS required during 2019 to accommodate BEIS led changes, SECMP0055 and changes proposed as part of the November 2019 DCC Release.

Question 7: Do you agree with the alternative implementation approach?

Question 7			
Respondent	**Category**	**Response**	**Rationale**
SSE	Large Supplier	-	We agree that the alternative presented is a viable approach, however without an assessment in this consultation of the impacts, costs and timescales of this solution, we're unable to provide a view on which solution is preferable.
Smartest Energy	Small Supplier	Yes	As the TS Applicability Tables still having an undetermined maintenance applicability period, these versions are likely to still be in use and should therefore be updated to ensure these changes are implemented for devices currently using the older versions.
DCC	DCC	Yes	DCC considers that the alternative implementation approach reflects good practice. However, due to the additional effort required by market participants we believe that the decision to adopt the alternative implementation approach should be led by them.

Question 8: Do you agree that the legal text will deliver SECMP0055?

Question 8			
Respondent	**Category**	**Response**	**Rationale**
SSE	Large Supplier	Yes	
Smartest Energy	Small Supplier	Yes	Changes to be made to show updates/changes
DCC	DCC	No	The draft legal text will need to be amended to reflect the fact that some of the IRPs included in the scope of the SECMP055 have been identified as having an impact on DCC Systems and will therefore need to be removed.

Question 9: Please provide any further comments you may have

Question 9		
Respondent	**Category**	**Comments**
SSE	Large Supplier	
Smartest Energy	Small Supplier	
DCC	DCC	None.