

Stage 02: Initial Modification Report

What stage is this document in the process?



SECMP0005:

Include Tariff and Register Labels in SMETS2 Devices

The Proposer seeks to include Tariff Label and Register Labels in smart metering devices and to allow them to be published on the HAN for display to the customer via HAN devices (e.g. IHD).



The recommendation is that this Modification Proposal should be:

- progressed as a Path 2: Authority Determined Modification

This Modification Proposal should:

- be progressed through the Refinement Process



Medium Impact:

Changes to SMETS2, CHTS, GBCS, and DUIS are required and will affect Suppliers, Network Operators, Device Manufacturers, the DCC and other DCC Users.

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SECMP0005

Initial Modification Report

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Page 1 of 19

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Contents

1.	Summary of Modification Proposal	3
2.	Why Change?	5
3.	Proposed Solution	6
4.	Impacts & Costs	8
5.	Implementation	10
6.	Progression	11
7.	Panel Initial Assessment	16
8.	Further Information	17
9.	Glossary	18



Any questions?

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About this document

This document is an Initial Modification Report. It has been issued to the SEC Panel to enable the Panel to carry out its initial consideration of the Modification Proposal.

1. Summary of Modification Proposal

This section provides an overview of SECMP0005. For further details on the Modification Proposal please refer to subsequent sections.

Defined Terms and acronyms used in this document are listed for reference in the Glossary (Section 9) of this document.

1.1 Summary of Modification Proposal

The proposal seeks to include Tariff Label and Register Labels in smart metering devices and to allow them to be published on the Home Area Network (HAN) for display to the customer via HAN devices (e.g. an IHD).

1.2 Proposed Solution

The proposed solution is to include new data items within the Configuration Data sections in SMETS2 and amend GBCS, DUIS and MMC to align with these changes.

1.3 Impacts

The Proposer has identified that the Modification Proposal will likely impact Suppliers, Network Operators, Device Manufacturers, DCC Systems and other DCC Users.

Impacted SEC Subsidiary Documents are likely to include, inter alia:

- SMETS2¹ (Smart Metering Equipment Technical Specification 2);
- GBCS (Great Britain Companion Specification);
- DUIS (DCC User Interface Specification); and
- MMC (Message Mapping Catalogue).

1.4 Targeted Implementation Date

The proposal targets implementation in a release as soon as possible after DCC Live, and is considered for Release 2.0 scheduled for June 2017 or as soon as reasonably practicable thereafter. The Working Group will consider whether the implementation timetable is appropriate (see Supplementary Questions in the Terms of Reference in section 6.5 below).

1.5 Release Management and Testing Requirements

This Modification Proposal falls under the Panel's Release Management Policy. The testing requirements will be further informed in the Refinement Process and form part of the Working Group considerations.

Implications for Device testing or Assurance Certificates are the responsibility of the relevant SEC Party.

¹ It is acknowledged that some Subsidiary Documents are not yet designated. However, the DCC and industry are working to a baselined set and references here are to that baseline, where applicable. Similarly, some SEC text and Subsidiary Documents are pending revision, subject to consultation conclusions. It is anticipated that these baselined Subsidiary Documents and any future SEC changes will have been finalised by the time this Modification completes Refinement and the Modification will be applied to the version of the SEC/Subsidiary Document extant at the time of implementation.

1.6 Proposed progression

This Modification must go through the Refinement Process pursuant to SEC Section D3.9(c) as it affects the DCC Systems, User Systems and/or Smart Metering Systems.

Section 6 of this document contains a detailed timetable and the Working Group constitution and objectives.

2. Why Change?

2.1 Background

This Modification Proposal has previously been discussed and impact assessed by the DCC and DCC Users at the Technical and Business Design Group (TBDG) as RFC SMIP-RFC-027, which was raised by Energy UK. Additionally, following TBDG approval, DECC drafted a CRP (027) in May 2015. The CRP covered the changes required to SMETS2 and GBCS. It was intended for consideration by Technical Specification Issue Resolution Subgroup (TSIRS) in line with the DECC Issues Management Process.

2.2 What is the issue?

Under the current SEC, smart meters will not include Tariff and Register Labels. Accordingly, customers will not have the most user-friendly information available on their IHDs in regard to the product (i.e. tariff) configured on their smart meter.

2.3 Why Change?

The Proposer considers that it would be highly beneficial to consumers to provide clarity for the tariff they are on in a plain English description. This is because it allows them to be better informed about their tariff and energy usage by simplifying the information available to them on the IHD. This is what this Modification Proposal seeks to achieve.



What's the issue?

Information on IHDs for items such as tariffs is not displayed in a customer friendly format.

3. Proposed Solution

The Proposer seeks to include Tariff Label and Register Labels in smart metering devices and to allow them to be published on the HAN for display to the customer via HAN devices (e.g. an IHD). The Tariff Label will allow suppliers to label the product and ensure the product is displayed on the HAN devices (e.g. an IHD) so that the customer is always aware of the product configured on the smart meter. Similarly, Register Labels allow suppliers to give smart meter registers a customer friendly name such as 'Day' or 'Night' or 'Weekend' rather than R1, R2 or R3.

3.1 Legal Text

SMETS2, GBCS, DUIS and MMC will need to be amended.

SMETS2: ESME and GSME sections

The Proposer seeks to include new data items with the Configuration Data section for both the ESME and GSME (new data items are underlined):

Tariff Label

The name of the tariff in operation e.g. "Economy 7"

Tariff TOU Register Names

GSME:

A 1 x 4 matrix containing names for Time-of-use registers.

ESME:

A 1 x 48 matrix containing names for Time-of-use registers.

These new data items should be included within the Set Tariff command for ESME and GSME. The Proposer expects that these data items would be made available on the HAN by the ESME and GSME (via the Gas Proxy Function). The Proposer has considered the option of updating these into existing data items but they believe the option recommended above is more appropriate.

The Proposer notes:

- The ESME and GSME do not need to display the Tariff Label and Register Labels on their display. They just need to be able to publish the information on the HAN for the IHD to get.
- The messages required to update the IHD are HAN only.

The Proposer has discussed this proposal with manufacturers through EUA and BEAMA. They understand that devices and the protocols can deliver the change required.

GBCS

GBCS would need to be amended to reflect and align any changes in SMETS2.

DUIS and MMC

DUIS would need to be amended to reflect these new data items (within the relevant Service Requests for updating tariff / price information and reading them) to align with GBCS and SMETS2.



What's the solution?

Tariff and Register Labels will allow Suppliers to give their products more customer friendly names on smart metering devices.

3.2 Applicable SEC Objectives

The below table presents the applicable SEC Objective identified in the proposal and the Proposers view on how the Modification would better facilitate the achievement of these objectives.

How the Modification Proposal would better facilitate achievement of the SEC Objectives	
General SEC Objective (C1.1)	Proposers views
(c) the third General SEC Objective is to facilitate Energy Consumers' management of their use of electricity and gas through the provision to them of appropriate information by means of Smart Metering Systems;	The SMIP will herald a new level of interaction between consumers, their energy use and their suppliers. Including Tariff and Register Labels for display on the IHD will allow consumer to better understand their tariff and their usage, and to better understand and be able to reconcile with their cost of consumption and ultimately their bill. This would help better simplifying the information available to customers and delivering the expected IA benefits. The impacts of not doing this will not support the delivery of these benefits.



Are there any impacts?

Yes - there would be an impact on DCC and User Systems because GUIs and GBCS would need to be amended.

4. Impacts & Costs

The following section sets out the initial assessment of the likely impacts arising from SECMP0005. Additional impacts may be identified by the Working Group, in the Refinement Process.

4.1 Impacts

Material Impact on Greenhouse Gas Emission

The Proposer envisages little impact.

Impact on Parts of Smart Energy Code or SEC Subsidiary Documents

SEC Sections, Schedules of Appendices (Subsidiary Documents) likely impacted

Potential Impact

SMETS2: ESME and GSME sections

Include new data items with the Configuration Data section for both the ESME and GSME to include new data items 'Tariff Label' and 'Tariff TOU Register Names'.

GBCS

GBCS will need to be amended to reflect and align any changes in SMETS2.

DUIS and MMC

DUIS will need to be amended to reflect these new data items (within the relevant Service Requests for updating tariff / price information and reading them) to align with GBCS and SMETS2.

Impact on other Codes and documents

The Proposer envisages little impact on other Codes and documents.

Impact on Smart Energy Code Party Categories

Potential Impact

Party Category

- Suppliers are the DCC Users who are eligible to use the relevant Service Request(s) to update tariff / price information on the ESME and GSME (and GPF). Suppliers and Other Users can also use the relevant Service Request(s) to read tariff / price information from the ESME and GSME (or GPF).
- Other SEC Parties, such as meter and or device manufacturers, need to be aware of the

- Large Suppliers
- Small Suppliers
- Other SEC Parties
- Large Suppliers

Impact on Smart Energy Code Party Categories

Potential Impact	Party Category
requirement for the meters to send the HAN messages and for IHDs to display this new customer-centric information.	- Small Suppliers - Other SEC Parties

Impact on DCC Systems (Subject to DCC assessment)

Area of DCC impacted	Potential Impact
DCC	Suppliers will need to be able to populate the data in the relevant Service Request and keep the information up to date and accurate in line with their customer billing systems. As GUIS and GCBS will need to be amended, the DCC would need to support the drafting of these changes, through input into the Working Group discussions.
Data Service Provider (DSP)	To be informed through the Refinement Process
Communications Service Providers (CSP)	To be informed through the Refinement Process
Trusted Provider	To be informed through the Refinement Process

Impact on other Systems

Area of impact	Potential impact
User Systems	Meters (and GPF) need to receive and hold the new data and to send the HAN messages to the IHDs to display.
Smart Metering Systems	Meters (and GPF) need to receive and hold the new data and to send the HAN messages to the IHDs to display.
Other (e.g. Security and PKI)	To be informed through the Refinement Process

4.2 Costs

The costs of implementing SECMP0005 will be identified as it progresses through the Refinement Process. These costs will capture indicative DCC implementation costs as provided in their impact assessment responses and any SEC Party costs (where provided during the relevant consultations).

5. Implementation

The Proposer has requested that this Modification Proposal be implemented in June 2017 as part of SEC Release 2.0.

During the Refinement Process, it may become clearer whether June 2017 is achievable under the implementation timetable. In this event, the Working Group should identify this as part of their deliverables and this has been incorporated into the supplementary considerations in section 6.5 below.

5.1 Modification Testing Requirements

The Panel Release Management Policy notes that, as part of the Panel's considerations of a Modification Proposal and the associated implementation timetable and date, the Panel will consider what testing is required and who will be eligible to participate. SEC H14 requires the DCC to make provision for Modification Proposal implementation testing as part of its Testing Services.

The testing requirements under the Panel Release Management Policy are yet to be fully defined. It is anticipated that this Modification Proposal may require testing consistent with the SEC section T arrangements for:

- i. DCC testing (Systems Integration Testing - SIT); and
- ii. Interface Testing (IT) with a representative number of Users and DCC to demonstrate the capability of the DCC solution to interoperate with User Systems.

In both cases, the approach for SIT and IT will be informed during the Refinement Process, hence SECAS has added this aspect to the considerations of the Working Group (see section 6.5 below).

It is noted that the final testing scope and arrangements will be integrated under the Panel Release Management Policy approach for "R2".



When would the modification be implemented?

June 2017

6. Progression

6.1 Modification Path

Based on the initial review of the Modification Proposal and subsequent discussion with the proposer, SECAS recommends that the appropriate Modification Path is: Path 2 - Authority Determined.

6.2 Progression route

The Refinement Process is required for this Modification Proposal as the Proposer has identified that it affects DCC Systems, User Systems, and Smart Metering Systems, which are the SEC criteria for following the Refinement Process (see SEC Section D3.9(c)).

The Refinement Process (SEC Section D6) requires that a Working Group is established by the Panel to undertake the Refinement Process. In outline, the objectives of the Working Group is to:

- Consider the effects of the Modification Proposal on participants, Emissions and Other Energy Codes;
- Evaluate, develop and refine the content of the Modification Proposal, including where the Working Group considers an Alternative Proposal may be relevant, prepare and submit this into the Refinement Process with the Proposers Modification Proposal;
- Evaluate, and amend if applicable, the proposed implementation timetable of the Modification Proposal including with regard to consistency with the Panel Release Management Policy;
- Obtain and take into account the views of other relevant Sub-Committees (TBSC, SSC, PMA);
- Obtain assessments from the DCC as to the impact and costs;
- Consider the SEC Objectives that may be better achieved if the Modification Proposal was implemented;
- Conduct a Consultation(s);
- Consider any representations made to the Working Group by Parties; and
- Deliver a Modification Report to the Panel in respect of the Modification Proposal.

6.3 Working Group membership requirements

SEC Section D6.3 sets out that a Working Group must be at least 5 members with relevant expert knowledge. Therefore we propose that the Working Group should be made up of:

- The Proposer or a person nominated by the Proposer as a duly authorised representative of the Proposer;
- Working Group members:
 - who are broadly representative of the Users likely to be affected by the Modification Proposal, so that the Refinement Process is well informed in this case Suppliers and the DCC, although other interested Parties may come forward;
 - with relevant experience and expertise in relation to the subject matter of the Modification Proposal (Technical Sub-committee (TSC) expertise need not be

duplicated as this may be achieved through co-ordination between the WG and TSC);

- A Chair (see following section);
- A Secretary (provided by SECAS); and
- A Modification Analyst (provided by SECAS).

The Working Groups can also be attended by:

- DCC representatives;
- Ofgem representatives;
- DECC representatives; and
- Any interested members from the Technical Sub-Committee (or its Technical and Business Expert Community).

6.4 Convening the Working Group

It is noted that SEC Section D6.3 makes provision for the Panel, with the cooperation of the Parties to establish a standing list of persons with potentially relevant experience who may be willing to serve on Working Groups. As Modification Paths have only recently been enabled such a standing list is not available to the Panel.

Therefore it is recommended that an open invitation is issued at this time, with a view to using this exercise as a means of identifying the constitution of any future standing membership that can be called upon as a Modifications Working Group.

Modification Working Group members are required to meet the SEC requirements to confirm in writing to SECCo that they agree to serve on that Working Group and to do so in accordance with this Code.

Working Group Chair

Section D6.4 enables the Panel to request that SECAS provides the Chair for the Working Group. While the Modification Process beds down, it is proposed that, to facilitate convening the Working Group in the first instance, SECAS provides the Chair. The Working Group, once constituted, may then proceed to appoint a Chair from within its Membership, if that is the majority view of the Members. This optionality would only be available at the first meeting to preserve continuity.

6.5 Working Group Terms of Reference

To meet the requirements of the Refinement Process set out in SEC Sections D6.8-D6.14 draft standard Terms of Reference are provided in Appendix B. The following questions have been identified for the Working Group to consider in order to fully assess the Modification Proposal.

Working Group Terms of Reference – supplementary questions to consider

What are the materiality of the issue?

Are there other deficiencies in the current solution that are addressed by SECMP0005?

What are the detailed changes to the SEC and/or SEC Subsidiary Documents to support this SECMP0005 (and its Alternative(s))?

Working Group Terms of Reference – supplementary questions to consider

- What are the systems impacts for DCC/User/Smart Meters?
- What are the costs and lead times to introduce the solution in this SECMP0005 or its Alternative(s)?
- Is the implementation timetable appropriate?
- Are Consumers positively or negatively impacted by the Proposed (or any Alternative) solutions and to what extent?
- What Modification Implementation Testing is required to implement the Proposed Modification, or any Alternative(s)?
- What are the implementation steps and activities required to implement the Proposed (or an Alternative) Solution(s)?
- How the views of the relevant Panel Sub-Committee been taken into account?
- Has the Refinement Process identified any potential reason that this Modification (or its Alternatives) may require EC Notification (noting that the Authority will determine if any such Notification is pursued)?

The above is not intended as an exhaustive list and it is expected that the Working Group will identify and address any other considerations that arise during the Refinement Process.

6.6 Timetable

As the Modifications Process has only recently been activated, the timetable in Figure 1 below was put together in discussion with the Proposer and SECAS as a good faith estimate. A number of assumptions underpin this timetable:

- The Proposer has requested that the Modification Proposal is implemented in Release 2.0.
- The proposed timetable below has been built around a June 2017 implementation date, noting that the implementation date may need be flexible to accommodate the necessary implementation (and testing) lead times, if the Modification Proposal is approved.
- The proposed timetable includes some assumed timescales for the turnaround of DCC's Impact Assessments and the Authority determination based on the indicative timescales provided by these entities.
- If the changes associated with this Modification require EC Notification, the proposed timetable does not currently capture the three month 'stand-still' during EC notification. This is on the basis that any representations received during the stand-still need not necessarily result in any material change to the notifiable document or agreed solution in any way
- The timetable has been drawn up based on this Modification Proposal progressing without cancellation or suspension under the *Smart Metering Implementation Programme Guidance on Secretary of State involvement with industry-led*

SECP_30_1103_11

SECMP0005
Initial Modification Report

04 March 2016

Version 1.0

Page 13 of 19

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modifications to the Smart Energy Code during the transition to enduring governance² document issued by DECC.

- The timetable assumes that any Panel Sub-Committee inputs can be fed into the Refinement process at the appropriate time, and this may be subject to alteration.

Modification Timetable	
Activity	Date
Modification Proposal raised	19 February 2016
IMR considered by Panel	11 March 2016
Working Group meetings Indicative activities: • Initial considerations • Legal drafting • Sub-Committee feedback • Alternative(s) identified • Impact Assessments • Detailed evaluation	March 2016 – July 2016
Working Group Consultation	August 2016
Final Working Group meeting: Indicative Activities: • Consultation response summary • WG deliverables met • Assessment for Modification Report	August 2016
Panel reviews Modification Report	9 September 2016
Modification Report phase consultation	September 2016
Change Board vote	19 October 2016
Modification Decision by the Authority	November 2016
Implementation	June 2017

Figure 1: SECMP0005 Timetable

6.7 Grouping this Modification Proposal with others

There are a number of Modification Proposals that are currently entering the SEC process that have implications for a similar set of Parties and SEC Subsidiary Documents. It may

²Available at: <https://smartenergycodecompany.co.uk/docs/default-source/modifications/decc-sec-modification-guidance-v1-0.pdf?sfvrsn=3>

be possible to bring efficiencies into their Refinement under one Working Group. For example, whilst the underlying content may not be directly related, each solution entails opening the Technical Specifications. There may be merit in grouping these under the Terms of Reference for a single Working Group so that the implications of changes to the Technical Specifications are consistently understood for the future.

SECAS is of the view that this is entirely consistent with the aim in the SEC of establishing standing Members to serve on Working Groups and will offer both value for money for the Panel budget and a reduction in commitment by Working Group Members who might otherwise have to attend several meetings to progress each Modification discretely.

SECAS considers that there may be potential to group this SECMP0005 with others for consideration by one Working Group and **recommends** that the merits of this are explored further when issuing the invitations for the Working Group.

7. Panel Initial Assessment

The Panel is requested to **NOTE** the contents of this paper for SECMP0005 and, pursuant to SEC Section D3.6, **AGREE** the following as set out in this Initial Modification Report:

- Whether to accept the Modification Proposal;
- It is a Path 2 Modification (taking into account the view expressed by the Proposer);
- that it is necessary for the Modification Proposal to go through the Refinement Process as set out in Section 6.2;
- to establish a Working Group with the membership and Working Group Chair as set out in Section 6.3;
- The supplementary considerations for SECMP0005 to supplement the standard Working Group terms of Reference set out in Section 6.5;
- the Modification progression timetable set out in Figure 1 of Section 6.6;
- whether SECMP0005 should be considered together with any other current Modification Proposal(s); and
- The potential to group SECMP0005 with other Modifications to gain efficiencies in the Refinement Process across a number of potential changes to the Technical Specifications.

8. Further Information

More Information is available in:

- Attachment **A**: Modification Proposal
- Attachment **B**: Working Group Terms of Reference

For further information, please see the [Modification Register](#) page of the SEC website.

Or contact the SECAS at secas@gemserv.com.

9. Glossary

Glossary	
Term	Acronym
British Electrotechnical and Allied Manufacturers Association	BEAMA
Change Request Proposal	CRP
Communications Service Providers	CSP
Data and Communication Company	DCC
Data Service Provider	DSP
DCC User Interface Specification	DUIS
Electricity Network Operator	ENO
Electricity Smart Metering Equipment	ESME
Energy and Utilities Alliance	EUA
Gas Proxy Function	GPF
Gas Smart Metering Equipment	GSME
Great Britain Companion Specification	GBCS
Home Area Network	HAN
Impact Assessment	IA
In Home Display	IHD
Initial Modification Report	IMR
Interface Testing	IT
Message Mapping Catalogue	MMC
Secretary of State	SoS
Service Request	SR
Smart Energy Code Administrator and Secretariat	SECAS
Smart Energy Code Company	SECCo
Smart Metering Device Assurance	SMDA

Glossary	
Term	Acronym
Smart Metering Equipment Technical Specification 2	SMETS2
Smart Metering Implementation Programme	SMIP
Systems Integration Testing	SIT
Technical and Business Design Group	TBDG
Technical Sub-Committee	TSC
Technical Specification Issue Resolution Group	TSIRS