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Paper Reference:	**SECP_68_1005_10**
Action:	**For Decision**

November 2019 SEC Release Implementation Document

1. Purpose

This paper summarises the current status of the November 2019 SEC Release, due to go live on 7 November 2019, and lists the modifications for inclusion in this release that do not impact on the DCC Systems. It also provides an updated copy of the Release Implementation Document (RID) in Appendix A for the Panel to baseline.

The Panel are requested to agree the updated scope of this release to cover all targeted modifications and to re-baseline the Release Implementation Document for this scope.

2. Previous discussions

At the February 2019 Panel[1] meeting the Panel reviewed and baselined the RID for the November 2019 SEC Release to cover the modifications that would impact on the DCC Systems. The Panel noted that the RID would be re-presented in May 2019, to be re-baselined for any further modifications that do not impact on DCC Systems.

3. Scope of this release

The November 2019 SEC Release currently has seven modifications, five of which have been approved, and two for which approval could be obtained in time for them to be implemented in November 2019. The latest progress on these modifications is summarised in the table below:

Modification	Status
SECMP0018 'Standard Electricity Distributor Configuration Settings'	Approved for implementation on 7 November 2019.
SECMP0023 'Correct Units of Measure for Uncontrolled Gas Flow Rate'	Approved for implementation on 7 November 2019.
SECMP0025 'Electricity Network Party Access to Load Switching Information'	Approved for implementation on 7 November 2019.

[1] Please see Panel paper SECP_65_1502_16 for full details.

Modification	Status
SECMP0039 'Communication Hub returns notification mechanism for Other SEC Parties'	Approved for implementation on 7 November 2019.
SECMP0055 'Incorporation of multiple Issue Resolution Proposals into the SEC'	The Modification Report is being presented to the Panel this month. The Change Board will vote on this modification on 19 June 2019.
SECMP0060 'Amend Requirements to remove 'Pending' devices from SMI'	Approved for implementation on 7 November 2019.
SECMP0062 'Northbound Application Traffic Management – Alert Storm Protection' part 1	We are awaiting the DCC Impact Assessment and anticipate that the Modification Report will be presented to the Panel next month. The Change Board would then vote on this modification on 24 July 2019.

SECMP0053 'Amend Target Response Times for Service Requests Critical to Installation and Commissioning Processes' was previously in scope, but delays with the DCC Preliminary Assessment means this now cannot be included in this release.

We have updated the RID for the November 2019 SEC Release on the basis that these seven modifications are included, and this is provided in Appendix A.

The DCC have highlighted that they do not anticipate delays to the SMETS1 Enrolment and Adoption programme having a corresponding impact on the SEC Release.

We invite the Panel to agree the updated scope of the release and to re-baseline this document based on this scope, on the understanding that modifications not yet approved may fall out of scope later on. This re-baselined document will then be published on the SEC Website.

There have been some Draft Proposals raised recently which are not expected to have any major impacts and so have the potential to be included in this release closer to the go-live date. The Panel will be able to determine if these should be added to the scope of this release separatel,y when any subsequent Modification Proposal reaches the decision stage of the process.

4. Recommendations

The Panel are requested to **RE-BASELINE** the November 2019 SEC Release Implementation Document.

David Kemp

SECAS Team

2 May 2019

Attachments:

- **Appendix A:** November 2019 SEC Release Implementation Document

SEC
Smart Energy Code

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Smart Energy Code

November 2019 SEC Release (7 November 2019)

SEC Release Implementation Document

Version 1.1

Administered by
Gemserv

About this document

This document is the Smart Energy Code (SEC) Release Implementation Document (RID) for the November 2019 SEC Release, due to be implemented on 7 November 2019. It summarises the scope of the release, the impacts it will have, the timeline and testing strategy, the central costs that will be incurred, and the acceptance criteria for this release.

This document will be updated periodically as the release develops.

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This document also has one annex:

- **Annex A** will contain the Data Communication Company's (DCC's) SEC Release Testing Approach Document (TAD) for this release – this document will be produced by the DCC at a later date.

1. Scope

Approved Modification Proposals

The following Modification Proposals have been approved for inclusion in this release:

- SECMP0018 'Standard Electricity Distributor Configuration Settings' will amend the Great Britain Companion Specification (GBCS) to specify the standard Electricity Distributor configuration settings to be applied to an electricity smart meter by the Manufacturer.
- SECMP0023 'Correct Units of Measure for Uncontrolled Gas Flow Rate' will amend the accuracy of the Uncontrolled Gas Flow Rate value from integer to four decimal places.
- SECMP0025 'Electricity Network Party Access to Load Switching Information' will give Electricity Network Parties (ENPs) access to Auxiliary Load Control Switch (ALCS) and Home Area Network (HAN) Connected Auxiliary Load Control Switch (HCALCS) information from the Smart Metering System. ENPs will also be informed when changes are made to existing load switching regimes.
- SECMP0039 'Communication Hub returns notification mechanism for Other SEC Parties' will allow Registered Supplier Agents (RSAs) to submit the Service Requests triggering a Communication Hub Return in a fault or no-fault situation.
- SECMP0060 'Amend Requirements to remove 'Pending' devices from SMI' proposes to extend the time where a device can be listed as 'pending' on the Smart Metering Inventory (SMI) before it needs to be removed from 12 months to 36 months.

Targeted Modification Proposals

The following Modification Proposals will be included in this release if a decision to approve is received by the respective cut-off dates:

- SECMP0055 'Incorporation of multiple Issue Resolution Proposals into the SEC' proposes to implement a set of Issue Resolution Proposals (IRPs) that will introduce clarifications or make corrections to the Technical Specifications.
- SECMP0062 'Northbound Application Traffic Management – Alert Storm Protection' proposes to put in place a traffic management system for Alerts issued by Devices to protect the DCC System and Service Users against alert storms originating from a single device. SECMP0062 is being implemented in two parts, with the remaining parts of the solution being implemented in the June 2020 SEC Release.

No further modifications that impact on DCC Systems will be added. Further modifications that do not impact on DCC Systems may be added by exception to the scope of this release by the Panel.

Interaction with SMETS1 Enrolment and Adoption

The Smart Metering Equipment Technical Specifications 1 (SMETS1) Enrolment and Adoption programme is due to implement two releases (Middle Operating Capability (MOC) and Final Operating Capability (FOC)) in the second half of 2019. The DCC have informed the Panel that the DCC Total System changes for modifications in the November 2019 SEC Release will be developed and implemented using the test environments set up for these releases.

The DCC have also stated that they will absorb the costs for stages after Pre-Integration Testing (PIT) for any modifications included in the November 2019 Release, and so these costs will not be incurred under this release's implementation costs. The DCC have also confirmed there would be no incremental costs to the Charging Statement for 2019/20. If this position changes, this risk will be raised with the SEC Panel.

2. Impacts

This section lists the impacts that the changes included in this release will have on participants and their systems, SEC documents and other industry codes. This section assumes all targeted modifications will be approved for inclusion in this release.

SEC Party and DCC impacts

Participant impact matrix					
Modification	**Suppliers**	**Electricity Networks**	**Gas Networks**	**Other SEC Parties**	**DCC**
SECMP0018	✓	✓		✓	
SECMP0023	✓				✓
SECMP0025	✓	✓		✓	✓
SECMP0039				✓	✓
SECMP0055	✓	✓	✓	✓	✓
SECMP0060	✓				✓
SECMP0062	✓	✓	✓	✓	✓

The impacts on the different participants are summarised below. The business requirements for each Modification Proposal are annexed to the Modification Reports for each modification, which are available on the corresponding modifications' webpages.

SEC Party impacts	
Participant	**Summary of impacts**
Supplier Parties	• Suppliers will be able to submit Uncontrolled Gas Flow Rates to an accuracy of four decimal places (ten-thousandths of a cubic metre). • Suppliers will be able to install devices that are in a 'pending' state on the SMI within 36 months of their addition to the inventory. • Suppliers must ensure any devices they procure, and any firmware updates are compliant with the applicable Technical Specification versions. • Suppliers may be subject to the throttling of Alerts from devices that exceed defined thresholds and will be notified when this happens.
Electricity Network Parties	• ENPs will be able to receive data from Service Requests 6.13 'Read Event Or Security Log' and 7.7 'Read ALCS data', and a new Alert notifying changes to ALCS or HCALCS. • ENPs may be subject to the throttling of Alerts from devices that exceed defined thresholds and will be notified when this happens.
Gas Network Parties	• Gas Network Parties may be subject to the throttling of Alerts from devices that exceed defined thresholds and will be notified when this happens.

SEC Party impacts	
Participant	**Summary of impacts**
Other SEC Parties	• RSAs will be able to submit Service Requests 8.14.3 'Communications Hub Status Update – Fault Return' and 8.14.4 'Communications Hub Status Update – No Fault Return'. • Parties may be subject to the throttling of Alerts from devices that exceed defined thresholds and will be notified when this happens. • Manufacturers will need to ensure the standard Electricity Distributor configuration settings are applied to electricity smart meters. • Manufacturers will need to adhere to the latest version of the Technical Specifications and GBCS.

DCC impacts	
Area impacted	**Summary of impacts**
DCC Systems	• The systems will be able to receive and store Uncontrolled Gas Flow Rates to an accuracy of four decimal places (ten-thousandths of a cubic metre). • Service Requests 6.13 and 7.7 will be submitted to the relevant ENPs, and a new Alert notifying ENPs of changes to ALCS or HCALCS in their networks will be issued. • The system will need to accept Service Requests 8.14.3 and 8.14.4 submitted by an RSA and perform validation that the RSA is eligible to submit these requests on behalf of the relevant Supplier. • Devices that are in a 'pending' state on the SMI will not be removed until 36 months after their addition to the inventory. • The DCC will throttle Alerts issued by devices when the number of a specific Alert exceeds the set thresholds.

SEC document impacts

SEC document impact matrix							
Document	**SECMP 0018**	**SECMP 0023**	**SECMP 0025**	**SECMP 0039**	**SECMP 0055**	**SECMP 0060**	**SECMP 0062[1]**
Section H							✓
Schedule 8	✓	✓	✓		✓		
Schedule 9					✓		
Schedule 10					✓		
Schedule 11	✓	✓	✓		✓		
Appendix AC						✓	
Appendix AD		✓	✓	✓			

[1] The full document impacts for SECMP0062 are still being confirmed. Only the changes being implemented in this release have been listed here; the remaining changes being implemented in the June 2020 SEC Release will be covered in the June 2020 RID.

SEC document impact matrix							
Document	**SECMP 0018**	**SECMP 0023**	**SECMP 0025**	**SECMP 0039**	**SECMP 0055**	**SECMP 0060**	**SECMP 0062[1]**
Appendix AF		✓	✓				
Appendix AH							✓

The approved changes to each document are annexed to the Modification Reports for each modification, which are available on the corresponding modifications' webpages.

The DCC have noted that the changes to Appendix AD 'DCC User Interface Specification' (DUIS) for this release will generate DUIS version 3.1 not version 4.0. DUIS version 3.0 will remain available for Users.

It is expected that the Sub-Version of Schedule 8 'GB Companion Specification' version 3 that incorporates these changes will be the final version that becomes effective on 7 November 2019, with all previous Sub-Versions of version 3 never coming into effect. SECAS will make this version available once all the targeted changes have been approved.

Other code impacts

No other codes are impacted as a result of this SEC Release.

3. Implementation timeline

This section lists the timeline for the implementation of this release.

This timeline includes the dates on which decisions on modifications are anticipated, dates for when the System Integration Testing (SIT) and User Integration Testing (UIT) test phases are planned to commence and complete, and key governance steps for the Panel and the Testing Advisory Group (TAG) to complete.

Please note that dates for the submission and approval of Completion Reports and the commencement and closure of testing windows may change nearer the time.

Release implementation timetable		
Date	**Event**	**Notes**
15 Feb 19	Panel baselines RID for system-impacting modifications	The Panel reviewed the RID for DCC System-impacting modifications (including modifications targeted but not approved) and baselined the document.
20 Feb 19	Change Board approval of SECMP0039	
15 Mar 19	Panel adds SECMP0018 and SECMP0055 to the scope of the release	
05 Apr 19	Authority approval of SECMP0025	
24 Apr 19	Change Board approval of SECMP0060	
24 Apr 19	TAG comments on SEC Release TAD approach	
29 Apr 19	DCC submits draft SEC Release TAD	The TAD was provided for written comment by TAG members outside of meetings.
10 May 19	Panel baselines RID for non-system-impacting modifications	The Panel will review the RID for non-DCC System-impacting modifications (including modifications targeted but not approved) and re-baseline the document to include these.
15 May 19	TAG reviews draft SEC Release TAD	TAG members will provide comments on the draft TAG.
21 May 19	DCC submits updated SEC Release TAD	The DCC will submit the updated TAD to the TAG.
29 May 19	TAG reviews updated SEC Release TAD	The TAG will review the TAD and provide a recommendation on it to the Panel.
14 Jun 19	Panel reviews SEC Release TAD	The Panel will review the TAD and incorporate it into the RID.
19 Jun 19	Change Board determination on SECMP0055	Anticipated meeting where the Change Board will determine whether SECMP0055 is approved or rejected under Self-Governance.
Late Jul 19	SIT commences	

Release implementation timetable		
Date	**Event**	**Notes**
24 Jul 19	Change Board determination on SECMP0062	Anticipated meeting where the Change Board will determine whether SECMP0062 is approved or rejected under Self-Governance.
21 Aug 19	DCC submits interim SIT Completion Report	
28 Aug 19	TAG reviews interim SIT Completion Report	The TAG will provide a view on whether SIT is proceeding to plan.
W/C 16 Sep 19	SIT completes	
18 Sep 19	DCC submits SIT Completion Report	
By 23 Sep 19	Test Participants inform DCC of their regression testing plans	By 10 Working Days before UIT begins
25 Sep 19	TAG reviews SIT Completion Report	The TAG will provide a recommendation to the Panel on whether SIT has been completed successfully.
01 Oct 19	Operations Group reviews status against acceptance criteria	Operations Group reviews the status of the release and provides a recommendation on whether it should be implemented as planned.
07 Oct 19	UIT commences	
11 Oct 19	Panel approves SIT Completion Report	
11 Oct 19	Panel go/no-go decision	The Panel will review the status of the release against the acceptance criteria and will determine if the release should be implemented as planned.
By 14 Oct 19	Test Participants to provide regression testing results to DCC	By five Working Days before UIT completion
21 Oct 19	UIT window closes	
07 Nov 19	Release go-live	The changes are implemented.

4. Test strategy

This section covers the testing approach that will be taken by the DCC as part of the implementation of this release.

DCC's testing approach

The DCC's SEC Release Testing Approach Document will be provided as Annex A to this document in due course. This will cover the DCC's approach to SIT.

User testing approach

The DCC's SEC Release Testing Approach Document will be provided as Annex A to this document in due course. This will cover the DCC's approach to UIT.

The DCC previously indicated that mandatory User testing would be required for this release. They have since informed the TAG that they no longer believe any mandatory User testing will be required.

5. Costs

This section summarises the costs that will be incurred by the DCC and the Smart Energy Code Administrator and Secretariat (SECAS) in implementing this release.

DCC costs

The total DCC implementation costs of this release is currently £1,073,269, with a further £22,298 being incurred in one-off operational costs. Costs for one targeted modification are still to be confirmed and so have not been counted in these totals.

The DCC has provided the following cost breakdown for each DCC System impacting modification in this release:

Breakdown of DCC implementation costs					
Activity	**SECMP 0023**	**SECMP 0025**	**SECMP 0039**	**SECMP 0060**	**SECMP 0062[2]**
Design	£414,393	£386,009	£201,650	£71,217	*£573,000-£769,000*
Build					
Pre-integration Testing					
System Integration Testing	-	-	-	-	-
User Integration Testing					
Implement to Live					
Operational costs – one-off	-	-	£22,698	-	-
Operational costs – ongoing	-	-	-	-	-

The DCC intend to leverage other activities planned to take place concurrently with the November 2019 SEC Release in order to maximise cost-efficiencies. Consequently, they expect that any incremental cost increases beyond those stated up to the end of PIT activities will be minimal, and that there should be no increase to the Fixed Charges set out in the DCC's Charging Statement for the 2019/20 Regulatory Year.

The SMETS1 Enrolment and Adoption work planned during this period is one example of the activities that the DCC intend to leverage, but all such activities need to be considered in the round in order to accurately identify cost-efficiencies.

Whilst there have been some changes to the SMETS1 Enrolment and Adoption timeline since the agreement made at the December 2018 Panel meeting, the DCC's position regarding the treatment of post-PIT costs remains unchanged. As such, the costs up to the end of PIT as quoted in the DCC Impact Assessments for each Modification Proposal, remain the total amount that would be charged for each modification if implemented in this release.

If any further changes to timelines of other DCC activity, including SMETS1 Enrolment and Adoption, result in significant changes to the overall cost of this release, the SEC Panel will be informed

[2] These are the estimated costs for SECMP0062 as provided in the Preliminary Assessment. Firm costs will be provided in the Impact Assessment.

immediately and the decision to proceed with the release will be reviewed. However, the DCC considers this to be highly unlikely.

SECAS costs

SECAS will incur two days effort, equating to around £1,200, to update and implement the changes to the SEC. SECAS estimates a maximum of 20 days of effort, equating to around £12,000, will be needed for project management of the release.

6. Acceptance criteria

We recommend to the Panel that the following criteria will need to be met before the release can go live.

The Panel will review the status of the release against these criteria at their meeting one month before go-live, and will determine then if the release should or shouldn't be implemented as planned.

- The DCC have developed the coding for each approved change and confirmed they will be able to deploy this to the live environment on the agreed implementation date.
- The DCC have completed and closed each Test Phase against the agreed exit criteria.
- The DCC have confirmed that there are no Severity 1 or 2 defects outstanding that would be deployed to the live environment.
- The DCC have produced a clear resolution plan for any outstanding Severity 3, 4 or 5 defects and that the number of extant Testing Issues is within the agreed threshold figures.
- The DCC have demonstrated that the SIT and UIT test environments were aligned to the solution being deployed to production; if there were any differences, these were identified and the risks these posed demonstrably managed.
- SECAS will be ready to implement the approved changes to the SEC on the agreed implementation date.

Appendix 1: Version control

Document history		
Version	**Date**	**Changes**
0.1	08 Feb 19	First draft presented to the Panel to be baselined.
1.0	18 Feb 19	Document baselined by the Panel at its meeting on 15 February 2019 covering the DCC Systems impacting modifications in scope of the release.
1.1	02 May 19	Updated to reflect: • Approval of SECMP0025, SECMP0039 and SECMP0060; • SECMP0053 being removed from the scope of the release; and • SECMP0018 and SECMP0055 being added to the scope of the release.

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**
ALCS	Auxiliary Load Control Switch
DCC	Data Communication Company
DUIS	DCC User Interface Specification
ENP	Electricity Network Party
FOC	Final Operating Capability
GBCS	Great Britain Companion Specification
HAN	Home Area Network
HCALCS	Home Area Network Connected Auxiliary Load Control Switch
MOC	Middle Operating Capability
PIT	Pre-Integration Testing
RID	Release Implementation Document
RSA	Registered Supplier Agent
SEC	Smart Energy Code
SECAS	Smart Energy Code Administrator and Secretariat
SIT	System Integration Testing
SMETS1	Smart Metering Equipment Technical Specifications 1
SMI	Smart Metering Inventory
TAD	Testing Approach Document
TAG	Testing Advisory Group
UIT	User Integration Testing

SEC
Smart Energy Code

Smart Energy Code

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