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Paper Reference:	**SECP_73_1110_17**
Action:	**For Decision**

2020 SEC Systems Releases scope on the DCC Systems

1. Purpose

This paper provides an update on the proposed scope for the June 2020 and November 2020 SEC Systems Releases. The Panel is requested to baseline the Release Implementation Document (RID) for the June 2020 SEC Release for the impacts on the DCC Systems, and to note the progress with determining the scope of the November 2020 SEC Release.

2. Comments on the proposed scope

We have consulted with the Technical Architecture and Business Architecture Sub-Committee (TABASC) and the Operations Group on the provisional scope of these SEC Releases.

The TABASC had no comments on the proposed content of each SEC Release.

The Operations Group raised the following points:

- It noted a concern that modifications were being proposed for inclusion in releases when the solutions were still under development. A change in the proposed solutions or a delay in progression could result in the modification needing to be moved to a different release.

  We acknowledge that some targeted proposals could fall out of scope due to the lead time needed for SEC governance and for the DCC to design, build and test the changes following approval. The intention at this milestone is to confirm the maximum expected impact on the DCC, so it can begin preparing the testing approaches for each release.

  We will update the Panel on the scope of each release as new information on lead times is received. The final determination of which release to include a Modification Proposal in (if approved) is made when its Modification Report is presented to the Panel.

- Members believe the acceptance criteria are fine for now, but would like these broken down to provide more detail in a later version of the documents. We will work with the Operations Group and the Testing Advisory Group (TAG) to provide more detail on the criteria and will present these to the Panel for approval when we present the RIDs to be baselined for the non-DCC System impacting modifications.

- Members highlighted that Parties will need to know when the release design will be available, and that this should be at least six months before go-live. They asked that this be added to the timeline along with the timings for when the combined cost information will be available.

We will work with the DCC to identify when these will be available and include these in the timelines.

We also published copies of the draft RIDs on our website and invited comments from Parties. No further comments on the proposed scopes were received.

3. June 2020 SEC Release

The June 2020 SEC Release is due to go live on 25 June 2020. We believe the following DCC System impacting Modification Proposals should be included in this SEC Release:

- SECMP0053 'Amend Target Response Times for Service Requests Critical to Installation and Commissioning Processes'
- SECMP0062 'Northbound Application Traffic Management - Alert Storm Protection' part 1

The inclusion of SECMP0062 is dependent on the subsequent discussions and development on the proposed solution in response to questions raised by Electricity Network Parties.

SECMP0067 'Service Request Traffic Management' was originally proposed for inclusion. The DCC has since stated it will not be able to deliver this modification in June 2020 and proposes that this is targeted for November 2020.

We do not believe any other modifications that impact on DCC Systems can be approved in time for inclusion.

There is also a DCC Change Request targeted for implementation alongside this release:

- CR1088 'DCC Production Proving'

We will need to agree how the testing costs will be split between the SEC Release and any parallel Change Requests.

The RID for this release can be found in Appendix A. We request the Panel baselines this document for the impact on the DCC Systems.

4. November 2020 SEC Release

The November 2020 SEC Release is due to go live on 5 November 2020. We currently believe the following DCC System impacting Modification Proposals could be included in this SEC Release:

- SECMP0007 'Firmware updates to IHDs and PPMIDs'
- SECMP0015 'GPF timestamp for reading instantaneous Gas values'
- SECMP0024 'Enduring Approach to Communication Hub Firmware Management'
- SECMP0046 'Allow DNOs to control Electric Vehicle chargers connected to Smart Meter infrastructure'
- SECMP0056 'IHD / PPMID Zigbee Attributes Available on the HAN'
- SECMP0062 'Northbound Application Traffic Management - Alert Storm Protection' part 2
- SECMP0063 'Ensuring correct Network Operator Certificates are placed on Electricity Smart Meters'

- SECMP0067 'Service Request Traffic Management'
- MP078 'Incorporation of multiple Issue Resolution Proposals into the SEC - Part 2'

The DCC has been engaging with its service providers to understand the capacity to include these changes in a single release. In particular, the DCC notes the impact that several of these modifications will have on Communication Hub firmware, which may limit the volume of changes that can be implemented at once. A firm view on which modifications can be included will be provided in time for the November 2019 Panel meeting, but the DCC recognises the priority the industry has placed on including SECMP0007 in this release.

We do not believe any other modifications that impact on DCC Systems can be approved in time for inclusion.

We request the Panel notes the progress with determining the scope of this release, and that the RID will be presented at the November 2019 meeting to be baselined.

5. Points to note

The DCC is exploring options that will provide value for money, including automation of testing to reduce testing timelines, which will help protect the scope of each release.

The DCC is committed to delivering these SEC Releases on the stated go-live dates. However, it highlights a risk that other programmes, such as the SMETS1 Enrolment and Adoption programme or the Faster Switching programme, could need to be prioritised. Of note, the Middle and Final Operating Capabilities (MOC and FOC) are currently scheduled to go live around the same time as the June 2020 SEC Release. The Panel should be aware of the overlaps when determining the scope of these SEC Releases. The DCC will also inform SECAS and the Panel as soon as it becomes aware of any possible impacts with delivering these SEC Releases as a result of other programmes.

6. Recommendations

The Panel is requested to:

- **AGREE** the scope for the June 2020 SEC Release on the DCC Systems;
- **BASELINE** the June 2020 SEC Release Implementation Document; and
- **NOTE** the next steps for agreeing the scope for the November 2020 SEC Release.

David Kemp

SECAS Team

4 October 2019

Attachments:

- **Appendix A:** June 2020 SEC Release Implementation Document v0.3

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June 2020 SEC Release
(25 June 2020)

SEC Release Implementation Document

Version 0.3

About this document

This document is the Smart Energy Code (SEC) Release Implementation Document (RID) for the June 2020 SEC Release, due to be implemented on 25 June 2020. 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

No Modification Proposals have been approved for inclusion in this release.

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:

- SECMP0053 'Amend Target Response Times for Service Requests Critical to Installation and Commissioning Processes' proposes to reduce the Target Response Times for time-critical Service Requests relating to the installation and commissioning process.
- 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 first part of the solution, the mechanism for throttling Alerts, being implemented in this release. The second stage of the solution will be implemented in a later release and will cover the changes to allow Users to be notified of throttled Alerts via the metadata in the Alerts that are allowed through.

No further modifications that impact on DCC Systems are expected to be added. Further modifications that do not impact on DCC Systems may be added to the scope of this release later.

DCC Change Requests

The following DCC Change Request is being targeted for implementation alongside this SEC Release:

- CR1088 'DCC Production Proving'

DCC Change Requests do not form part of a SEC Release, and so this RID does not cover the details of the impacts these will have.

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**
SECMP0053	✓				✓
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 receive a response to Service Requests 6.14.1 'Auxiliary Load Control', 6.14.2 'Auxiliary Load Control' and 7.9 'Add Auxiliary Load to Boost Button' within 30 seconds, rather than 24 hours. • Suppliers may be subject to the throttling of Alerts from Devices that exceed defined thresholds.
Electricity Network Parties	• Electricity Network Parties may be subject to the throttling of Alerts from Devices that exceed defined thresholds.
Gas Network Parties	• Gas Network Parties may be subject to the throttling of Alerts from Devices that exceed defined thresholds.
Other SEC Parties	• Parties may be subject to the throttling of Alerts from Devices that exceed defined thresholds.

DCC impacts	
Area impacted	**Summary of impacts**
Communications Service Providers	• The Communications Service Providers will need to ensure that a response to Service Requests 6.14.1, 6.14.2 and 7.9 are received by the User within 30 seconds.
Data Service Provider	• The Data Service Provider will throttle Alerts issued by Devices when the number of a specific Alert exceeds the set thresholds.

SEC document impacts

The following documents will be updated in this release:

- Section A 'Definitions and Interpretation'

- Section H 'DCC Services'
- Appendix E 'DCC User Interface Services Schedule'
- Appendix AB 'Service Request Processing Document'
- Appendix AH 'Self Service Interface Access Control Specification'

Each of these documents is impacted by the following modification(s):

SEC document impact matrix		
Document	**SECMP0053**	**SECMP0062**
Section A		✓
Section H		✓
Appendix E	✓	
Appendix AB		✓
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.

Other Code impacts

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

3. Implementation timeline

This section lists the planned 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 the SIT and UIT Completion Reports and the commencement and closure of the UIT window are provisional and may change nearer the time. These dates are based on the anticipated schedule for TAG and Panel meetings, but ad-hoc meetings may be required in order to sign these documents off. These dates and approaches will be confirmed as the DCC prepares the TAD.

Release implementation timetable		
Date	**Event**	**Notes**
11 Oct 19	Panel baselines RID for system-impacting modifications	The Panel will review the RID for DCC System-impacting modifications (including modifications targeted but not approved) and baseline the document.
23 Oct 19	DCC submits draft SEC Release TAD	
30 Oct 19	TAG reviews draft SEC Release TAD	
Early Nov 19	DCC consults on draft SEC Release TAD	The DCC will consult the industry on the draft TAD.
20 Nov 19	DCC submits updated SEC Release TAD	The TAD will be updated to account for comments provided by the TAG and from the consultation.
27 Nov 19	TAG reviews updated SEC Release TAD	The TAG will provide a view to the Panel on whether this document is suitable for use.
13 Dec 19	Panel reviews SEC Release TAD	The Panel will review the TAD and incorporate it into the RID.
02 Jan 20	SIT commences	
17 Jan 20	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.
Late Mar 19	DCC submits SIT Completion Report	
Late Mar 20	TAG reviews SIT Completion Report	The TAG will provide a recommendation to the Panel on whether SIT has been completed successfully.
Late Mar 20	Test Participants inform DCC of their regression testing plans	By 10 Working Days before UIT begins
17 Apr 20	Panel approves SIT Completion Report	
Apr 20	UIT commences	

Release implementation timetable		
Date	**Event**	**Notes**
Early May 20	Test Participants provide regression testing results to DCC	By five Working Days before UIT completion
May 20	UIT window closes	
Late May 20	DCC submits UIT Completion Report	
Late May 20	TAG reviews UIT Completion Report	The TAG will provide a recommendation to the Panel on whether UIT has been completed successfully.
02 Jun 20	Operations Group reviews status against acceptance criteria	The Operations Group will review the status of the release and provide a recommendation on whether it should be implemented as planned.
12 Jun 20	Panel approves UIT Completion Report	
12 Jun 20	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.
25 Jun 20	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.

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 are currently quoted as £1,117,479.

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

Breakdown of DCC implementation costs				
Modification	**Design, Build & PIT**	**SIT**	**UIT**	**Implement to live**
SECMP0053	£53,572	£24,579	£5,426	£5,510
SECMP0062	£964,346	£96,995	£9,359	£17,692

No impact on operational costs have been identified.

The DCC has provided the standalone costs for SIT, UIT and Implement to Live for each modification as part of the DCC Impact Assessment. Now that the scope of the release is confirmed and the DCC Preliminary Assessments for all candidate modifications are complete, the DCC will produce a combined DCC Preliminary Assessment. This will provide a combined estimated cost for each of these stages when the modifications and the DCC Change Requests are delivered as a single package. The total costs for SIT, UIT and Implement to Live will also be shared between this SEC Release and the DCC Change Requests.

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. This cost has already been accounted for in the SECAS budget, and so Parties will not incur any additional costs.

6. Acceptance criteria

The following criteria will need to be met before the release can go live.

- The DCC has developed the coding for each approved change and confirmed it will be able to deploy this to the live environment on the agreed implementation date.
- The DCC has completed and closed each Test Phase against the agreed exit criteria.
- The DCC has confirmed that there are no Severity 1 or 2 defects outstanding that would be deployed to the live environment.
- The DCC has produced a clear resolution plan for any outstanding Severity 3, 4 or 5 defects and that the number of remaining Testing Issues is within the agreed threshold figures.
- The DCC has 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.
- The DCC has demonstrated that it is ready to operate the new or updated capabilities.
- SECAS will be ready to implement the approved changes to the SEC on the agreed implementation date.

Prior to go-live, the TAG and the Operations Group will review the status of the release against these criteria. They will provide a recommendation to the Panel on whether to implement the release as planned. The Panel will review these recommendations and will determine then if the release should or shouldn't be implemented as planned.

Appendix 1: Version control

Document history		
Version	**Date**	**Changes**
0.1	9 May 19	First draft issued to the Technical Architecture and Business Architecture Sub-Committee (TABASC), the Operations Group and SEC Parties for comment.
0.2	12 Sep 19	Updated draft issued to the TABASC, the Operations Group and SEC Parties for comment.
0.3	4 Oct 19	Updated draft following comments from the TABASC and the Operations Group presented to Panel to be baselined.

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**
DCC	Data Communication Company
PIT	Pre-Integration Testing
RID	Release Implementation Document
SEC	Smart Energy Code
SECAS	Smart Energy Code Administrator and Secretariat
SIT	System Integration Testing
TABASC	Technical Architecture and Business Architecture Sub-Committee
TAD	Testing Approach Document
TAG	Testing Advisory Group
UIT	User Integration Testing

SEC
Smart Energy Code

Smart Energy Code

Smart Energy Code Administrator and Secretariat (SECAS)

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