SEC
Smart Energy Code

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June 2020 SEC Release
(25 June 2020)

SEC Release Implementation Document

Version 0.1

Administered by
Gemserv

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.

Contents

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:

- SECMP0015 'GPF timestamp for reading instantaneous Gas values' proposes to add a timestamp to the instantaneous value reading that Gas Smart Metering Equipment (GSME) provide to the Gas Proxy Function (GPF).
- 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.
- SECMP0056 'IHD / PPMID Zigbee Attributes Available on the HAN' proposes to make the appropriate Zigbee attributes for devices on the Home Area Network (HAN) available to Smart Metering Equipment Technical Specifications (SMETS) 2 devices as is currently the case for SMETS1 devices.
- 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 the November 2019 SEC Release. This second stage of the solution will implement 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 at a later date.

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**
SECMP0015	✓		✓	✓	✓
SECMP0053	✓				✓
SECMP0056	✓			✓	✓
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 see the time at which the instantaneous value reading on the GPF was taken from the GSME. • 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' customers will no longer be able to access data from devices for time periods before their tenancy began. • Suppliers will be notified when the throttling of Alerts happens via the metadata in the Alerts that are not throttled.
Electricity Network Parties	• Electricity Network Parties will be notified when the throttling of Alerts happens via the metadata in the Alerts that are not throttled.
Gas Network Parties	• Gas Network Parties will be able to see the time at which the instantaneous value reading on the GPF was taken from the GSME. • Gas Network Parties will be notified when the throttling of Alerts happens via the metadata in the Alerts that are not throttled.
Other SEC Parties	• Manufacturers will need to ensure that devices are built to the revised specifications resulting from these modifications.

DCC impacts	
Area impacted	**Summary of impacts**
Communication Hub software	• Communications Hubs will need be updated to populate Responses to Use Cases GCS13a, GCS13b, GCS13c, GCS14 or GCS60 with a date-time stamp received from the GSME or generated by the GPF. They will also construct message headers such that Users can determine the source of the date-time stamp (as either the GSME or GPF) and whether the date-time stamp is reliable, unreliable or invalid. • Communications Hubs will need to handle new Service Requests to populate the Change of Tenancy details across the HAN.
Parse and Correlate	• Parse and Correlate will be updated to decode the date-time stamp to identify the source (GSME or GPF) and whether it is reliable, unreliable or invalid, and present this information to the User. Message Mapping Catalogue (MMC) schema will need to be updated to allow Parse and Correlate to implement this change.
Communications Service Provider	• The Communications Service Providers (CSPs) 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.
DCC User Interface Specification	• A new DCC User Interface Specification (DUIS) version will be released to implement the changes to the metadata for Alerts when throttling is taking place.

SEC document impacts

SEC document impact matrix				
Document	**SECMP 0015**	**SECMP 0053**	**SECMP 0056**	**SECMP 0062[1]**
Schedule 8	✓		✓	
Schedule 9	✓		✓	
Schedule 10	✓		✓	
Schedule 11	✓		✓	
Appendix E		✓		✓
Appendix AD				✓
Appendix AF	✓			

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

[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 November 2019 SEC Release will be covered in the November 2019 RID.

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 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 prepare the TAD.

Release implementation timetable		
Date	**Event**	**Notes**
14 Jun 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.
24 Jul 19	DCC submit draft SEC Release TAD	
31 Jul 19	TAG review draft SEC Release TAD	
Early Aug 19	DCC consult on draft SEC Release TAD	The DCC will consult the industry on the draft TAD.
21 Aug 19	DCC submit updated SEC Release TAD	The TAD will be updated to account for comments provided by the TAG and from the consultation.
28 Aug 19	TAG review updated SEC Release TAD	The TAG will provide a view to the Panel on whether this document is suitable for use.
13 Sep 19	Panel review SEC Release TAD	The Panel will review the TAD and incorporate it into the RID.
01 Dec 19	SIT commences	
13 Dec 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.
19 Feb 20	DCC submit SIT Completion Report	
26 Feb 20	TAG review SIT Completion Report	The TAG will provide a recommendation to the Panel on whether SIT has been completed successfully.
02 Mar 20	Test Participants inform DCC of their regression testing plans	By 10 Working Days before UIT begins
13 Mar 20	Panel approve SIT Completion Report	
16 Mar 20	UIT commences	

Release implementation timetable		
Date	**Event**	**Notes**
15 Apr 20	Test Participants to provide regression testing results to DCC	By five Working Days before UIT completion
22 Apr 20	UIT window closes	
22 Apr 20	DCC submit UIT Completion Report	
29 Apr 20	TAG review UIT Completion Report	The TAG will provide a recommendation to the Panel on whether UIT has been completed successfully.
05 May 20	Operations Group review status against acceptance criteria	The Operations Group review the status of the release and provides a recommendation on whether it should be implemented as planned.
15 May 20	Panel approve UIT Completion Report	
15 May 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 have not yet been determined.

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

Breakdown of DCC implementation costs				
Activity	**SECMP 0015**	**SECMP 0053**	**SECMP 0056**	**SECMP 0062**
Design	*£569,530*	*£235,000*	*£1,309,000*	*£573,000-£769,000*
Build				
Pre-integration Testing				
System Integration Testing	TBC	TBC	TBC	TBC
User Integration Testing	TBC	TBC	TBC	TBC
Implement to Live	TBC	TBC	TBC	TBC
Operational costs – one-off	-	-	-	-
Operational costs – ongoing	-	-	-	-

The costs listed above are the estimated costs provided in the Preliminary Assessments. Firm costs will be provided in the Impact Assessments.

The DCC will provide standalone costs for SIT, UIT and Implement to Live for each modification for inclusion in their Modification Reports. Once the scope of the release is confirmed and the Preliminary Assessments for all candidate modifications are complete, the DCC will produce a further Preliminary Assessment to provide a combined estimated cost for each of these these stages when the modifications are delivered as a single package. Where possible, these costs will also be provided in the respective Modification Reports.

SECAS costs

SECAS will incur two days effort, equating to around £1,200, to update and implement the changes to the SEC. SECAS estimate 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	09 May 19	First draft issued to the Technical Architecture and Business Architecture Sub-Committee (TABASC), the Operations Group and SEC Parties for comment.

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**
CSP	Communications Service Provider
DCC	Data Communications Company
DUIS	DCC User Interface Specification
GPF	Gas Proxy Function
GSME	Gas Smart Metering Equipment
HAN	Home Area Network
MMC	Message Mapping Catalogue
RID	Release Implementation Document
SEC	Smart Energy Code
SECAS	Smart Energy Code Administrator and Secretariat
SIT	System Integration Testing
SMETS	Smart Metering Equipment Technical Specification
TABASC	Technical Architecture and Business Architecture Sub-Committee
TAD	Testing Approach Document
TAG	Testing Advisory Group
UIT	User Integration Testing

SEC
Smart Energy Code

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