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November 2024 SEC Release (7 November 2024)

SEC Release Implementation Document

Version 6.0

8 October 2024

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About this document

This document is a Smart Energy Code (SEC) Release Implementation Document (RID). It summarises the scope of the SEC 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) 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:

- [SECMP0028 'Prioritising System Messages'](#) proposes to introduce 'priority level' indicators to messages. During periods of high message volumes, were a queue to form, this would result in the Data Service Provider (DSP) System processing higher priority messages first. Among these high priority messages would be those relating to Prepayment top ups and ensuring supply is available for vulnerable consumers.
- [MP230 'Review the SLA for delivery and completion for SMETS1 firmware'](#) proposes to establish if a firmware image for a Smart Metering Equipment Technical Specification (SMETS)1 Device is larger than 750KB and is part of a batch larger than 500 to be sent within one day, the User will need to contact the DCC through the DCC Service Desk to coordinate and agree on a delivery schedule.
- [MP248 'Requirements for DCC Gateway Connection'](#) proposes to update the definition of a DCC Gateway Connection to specifically exclude Registration Data Providers (RDPs). This will allow the DCC to share the data flows without the need for a physical connection.
- [MP263 'Improving transparency of DCC indicative costs'](#) proposes to enhance the visibility and understanding of the DCC's charging statements and budgets.
- [MP270 'Enabling DCC to provide SMDA Test House services'](#) proposes to introduce clarifying terms in the SEC that would allow the DCC to carry out Smart Meter Device Assurance (SMDA) testing, provided it is awarded the contract.

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:

- [MP253 'Traffic Management for Price Cap Update Events - User Actions Required'](#) proposes to introduce an obligation into the SEC requiring DCC Users to follow instructions established by the DCC during a Price Cap Update Event (PCUE).

Cut-off date for inclusion: 24 October 2024

- [MP272 'SMKI Document Set Changes 2024'](#) proposes to implement the changes identified from the Smart Metering Key Infrastructure (SMKI) and DCC Key Infrastructure (DCKI) Document Set review. These changes have been identified by the DCC and SMKI Policy Management Authority (SMKI PMA) Members and are supported by the SMKI Specialist and reviewed and recommended by the SMKI PMA Working Group.

Cut-off date for inclusion: 24 October 2024

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.

DCC Change Requests

There are no Change Requests currently targeted for this release.

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
SECMP0028	✓	✓	✓	✓	✓
MP230	✓				✓
MP248		✓	✓		✓
MP253	✓	✓		✓	✓
MP263	✓	✓	✓		✓
MP270					✓
MP272	✓	✓	✓	✓	✓

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
All SEC Parties	(SECMP0028) For SEC Parties that send and receive messages which are processed through the DSP System In periods of high system traffic, the messages associated with time-sensitive processes will be prioritised, better enabling Service Users to efficiently execute those processes. (MP272) All SEC Parties will indirectly benefit from this modification as the SMKI and DCCKI Document Sets will have greater clarity, transparency and align with current processes. There are no expected negative impacts to SEC Parties as these changes are to processes that are no longer used in the case of SPOTI, or no direct changes to processes. There is an

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SEC Party impacts	
Participant	Summary of impacts
	expected positive impact to SEC Parties for DCC KI Admin Tokens to allow new or replacement certificates on leading browsers and including soft tokens.
Supplier Parties	(MP230) Suppliers will need to contact the DCC Service Desk to agree a schedule for submitting firmware images in batches of 500 or more for SMETS1 Devices. (MP253) Suppliers will be required to follow instructions issued by the DCC in relation to PCUEs. (MP263) The DCC will include more information in their indicative Charging Statements which will improve transparency of costs and improve Parties' ability to estimate their own Charges.
Electricity Networks	(MP248) Network Parties and Other SEC Parties, if acting as a Registered Data Provider (RDP), would be directly impacted as they would benefit from the flexibility to receive RDP files via a cloud-based system. The DCC will deliver the RDP files to the RDP's cloud-based system, rather than through the existing physical connection. (MP253) Distribution Network Operators (DNOs) will be required to follow instructions issued by the DCC for any traffic relating to identified Service Requests (SRs) (MP263) The DCC will include more information in their indicative Charging Statements which will improve transparency of costs and improve Parties' ability to estimate their own Charges.
Gas Networks	(MP248) Network Parties and Other SEC Parties, if acting as a Registered Data Provider (RDP), would be directly impacted as they would benefit from the flexibility to receive RDP files via a cloud-based system. The DCC will deliver the RDP files to the RDP's cloud-based system, rather than through the existing physical connection. (MP263) The DCC will include more information in their indicative Charging Statements which will improve transparency of costs and improve Parties' ability to estimate their own Charges.
Other SEC Parties	(MP253) Other SEC Parties supporting Suppliers to process messages in relation to PCUEs will also be required to follow instructions issued by the DCC.

DCC impacts	
Area impacted	Summary of impacts
DCC Systems	(SECMP0028) DCC System impacts are expected to be limited to changes to the application business logic, reuse of extant components (including the Service User Retry Buffer (SURB) and changes to the format of Alerts. The technical solution for Northbound message processing will augment the prioritisation established in a previous

DCC impacts	
Area impacted	Summary of impacts
	change, CR1344 'DSP Buffering', such that Northbound messages are treated in one of the following ways: 1. Passed straight to Message Gateway North. 2. Stored in the Motorway cache-based Northbound Message Store (NMS) for priority-based retrieval. 3. Stored in the Oracle-based SURB. The solution will assign a priority to all Southbound messages to be used when selecting work from queues for onward transmission to the Smart Metering Wide Area Network (SM WAN) and to prioritise delivering responses to Service Users.
DCC Service Desk	• (MP230) the DCC will need to be available to support Users with the processing of firmware image batches of 500 or more in relation to SMETS1 Devices.
DCC Operating Processes	• (MP248) DCC will deliver the RDP files to the RDP's cloud-based system, rather than through the existing physical connection • (MP253) DCC will be responsible for establishing and maintaining a new Code Required Document containing the instructions Suppliers and Other SEC Parties will be obliged to follow. • (MP263) The DCC will include more information on their indicative Charging Statements which will improve transparency of costs. • (MP270) The DCC will be able to tender for – and, if awarded the contract – provide the SMDA Testing Service. • (MP272) The DCC will be able to reduce costs by removing the requirement of SPOTI for the Public Key Infrastructure-Enduring (PKI-E) Programme procurement.

SECAS impacts

The Smart Energy Code Administrator and Secretariat (SECAS) will need to make the updates to the SEC to implement the modifications approved for this release.

SEC document impacts

The following SEC documents will be updated in this release:

- Section A 'Definition and Interpretation'
- Section E 'Registration Data'
- Section F 'Smart Metering System Requirements'
- Section G 'Security'
- Section H 'DCC Services'
- Section J 'Charges'

- Section K 'Charging Methodology'
- Schedule 7 'Specimen Enabling Services Agreement'
- Appendix C 'SMKI Compliance Policy'
- Appendix D 'SMKI Registration Authority Policies and Procedures'
- Appendix E 'DCC User Interface Services Schedule'
- Appendix J 'Enduring Testing Approach Document'
- Appendix K 'SMKI and Repository Test Scenarios Document'
- Appendix M 'SMKI Interface Design Specification'
- Appendix N 'SMKI Code of Connection'
- Appendix S 'DCCKI Certificate Policy'
- Appendix T 'DCCKI Interface Design Specification'
- Appendix V 'DCCKI CoCo and DCCKI Repository CoCo'
- Appendix W 'DCCKI Registration Authority Policies and Procedures'
- Appendix X 'Registration Data Interface Specification'
- Appendix Y 'Registration Data Interface Code of Connection'
- Appendix AB 'Service Request Processing Document'
- Appendix AI 'Self Service Interface Code of Connection'
- Appendix AO 'S1SPKM Compliance Policy'

Each of these documents is affected by the following modifications:

SEC document impact matrix							
Document	SECMP0028	MP230	MP248	MP253	MP263	MP270	MP272
Section A			✓			✓	✓
Section E			✓				
Section F						✓	
Section G							✓
Section H						✓	
Section J					✓		
Section K					✓	✓	
Schedule 7						✓	
Appendix C							✓
Appendix D							✓
Appendix E		✓					
Appendix J						✓	

SEC document impact matrix							
Document	SECMP0028	MP230	MP248	MP253	MP263	MP270	MP272
Appendix K							✓
Appendix M							✓
Appendix N							✓
Appendix S							✓
Appendix T							✓
Appendix V							✓
Appendix W							✓
Appendix X			✓				
Appendix Y			✓				
Appendix AB	✓			✓			
Appendix AI							✓
Appendix AO							✓

The document impacts for some modifications are provisional based on the current understanding of the solutions.

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

Technical documentation versions and validity

Some Releases include proposals that require changes to either SMETS or the Great Britain Companion Specification (GBCS). However, as the proposals within this document only require changes to the SEC, so no technical specifications will be affected.

Other code impacts

No other Codes are impacted as a result of this release.

3. Implementation timeline

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

This timeline includes dates for approval of the TAD, 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 Change Sub-Committee (CSC) and other Sub-Committees 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 Operations Group (OPSG), Testing Advisory Group (TAG) and CSC meetings and will be confirmed as the DCC prepares the TAD.

Release implementation timetable		
Date	Event	Notes
21 Nov 23	CSC baselines RID for system-impacting modifications	The CSC will review the RID for DCC System-impacting modifications (including modifications targeted but not approved) and baseline the document.
21 Feb 24	DCC submits draft SEC Release TAD	
28 Feb 24	TAG reviews draft SEC Release TAD	
1 Mar 24 – 22 Mar 24	DCC consults on draft SEC Release TAD	The DCC will consult the industry on the draft TAD.
17 Apr 24	DCC submits updated SEC Release TAD	The TAD will be updated to account for comments provided by the TAG and from the consultation.
24 Apr 24	TAG reviews updated SEC Release TAD	The TAG will provide a view to the CSC on whether this document is suitable for use.
16 Apr 24	CSC reviews SEC Release TAD	The CSC will review the TAD and incorporate it into the RID.
May 24	SIT commences	
14 May 24	OPSG reviews the DCC's progress against the operational acceptance criteria	
21 May 24	CSC baselines RID for non-system-impacting modifications	The CSC will review the RID for non-DCC System-impacting modifications (including modifications targeted but not approved) and re-baseline the document to include these.
18 Jun 24	CSC reviews SEC Release TAD	The CSC will review the TAD and incorporate it into the RID.
Aug 24	Test Participants inform DCC of their regression testing plans	At least 10 Working Days before UIT begins
13 Aug 24	OPSG reviews the DCC's progress against the operational acceptance criteria	
Sep 24	UIT commences	
10 Sep 24	OPSG reviews the DCC's progress against the operational acceptance criteria	
18 Sep 24	DCC submits SIT Completion Report	
25 Sep 24	TAG reviews SIT Completion Report and status against the testing acceptance criteria	The TAG will provide a recommendation to the CSC on whether SIT has been completed successfully.
Sep 23	Test Participants to provide regression testing results to DCC	At least five Working Days before UIT completion

Release implementation timetable		
Date	Event	Notes
1 Oct 24	DCC submits evidence against the operational acceptance criteria	
Oct 24	UIT window closes	
8 Oct 24	OPSG reviews status against the operational acceptance criteria	The Operations Group will provide a recommendation on whether the release should be implemented as planned.
15 Oct 24	CSC go/no-go decision	The CSC will review the status of the release against the acceptance criteria and will determine if the release should be implemented as planned.
23 Oct 24	Change Board to vote on MP253 and MP272	
7 Nov 24	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 can be found as Annex A to this document. This will cover the DCC's approach to SIT.

User testing approach

The DCC's SEC Release Testing Approach Document can be found as Annex A to this document. 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 SECAS in implementing this release.

DCC costs

The total DCC implementation costs of this release will be a minimum of £309,879.

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

Breakdown of DCC implementation costs					
Modification	Design, Build & PIT	SIT	UIT	Implement to live	Application Support
SECMP0028	£305,381	£0	£0	£1,032	£3,466
MP085B	N/A	N/A	N/A	N/A	N/A
MP230	N/A	N/A	N/A	N/A	N/A
MP248	N/A	N/A	N/A	N/A	N/A
MP253	N/A	N/A	N/A	N/A	N/A
MP263	N/A	N/A	N/A	N/A	N/A
MP270	N/A	N/A	N/A	N/A	N/A
MP272	N/A	N/A	N/A	N/A	N/A

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

SECAS costs

SECAS estimate a maximum of eight days of effort, equating to around £4,800, will be needed for project management of the release and implementation into the SEC. 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.

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

Operational acceptance criteria

1. The DCC has brought to readiness all the new and changed components needed to provide the new services. This will include completing the service design and proving the service operations capability.
2. The DCC has demonstrated that all pre-existing services will be stable in the run-up to deployment of the release.
3. The DCC has proven that the new services can be operated alongside, and integrated with, the existing services.

4. The DCC has assessed the risk posed by existing problems and defects in the existing live service, and the implications these will have for the revised service.
5. The DCC has assessed and addressed the impact on Users arising from any issues, defects or workarounds within the new services.
6. The DCC has demonstrated that lessons learnt from previous SEC Releases and other DCC changes have been taken on board.
7. The DCC has demonstrated there will be no detrimental impact on consumers' experience.
8. The DCC has completed assurance of the Business Continuity and Disaster Recovery processes.
9. SECAS will be ready to implement the approved changes to the SEC on the agreed implementation date.
10. SECAS has brought to readiness all the new and changed components that it is responsible for that are needed to support the new services.

Testing acceptance criteria

1. The DCC has developed the coding for each approved change and confirmed it will be able to deploy this to the production environment on the agreed implementation date.
2. The DCC has completed and closed each test phase against the agreed exit criteria specified in the TAD.
3. The DCC has successfully completed regression testing.
4. The DCC has allowed adequate opportunity for Users to test the changes prior to deployment.
5. The DCC has confirmed that there are no Severity 1 or 2 defects outstanding that would be deployed to the live environment.
6. 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 specified in the TAD.
7. The DCC has demonstrated that the SIT and UIT test environments were aligned to the solution being deployed to the production environment; if there were any differences, these were identified and the risks these posed demonstrably managed.

Appendix 1: Version control

Document history		
Version	Date	Changes
1.0	8 Nov 2023	First draft published and presented to the CSC to be baselined for the scope on the DCC Systems.

Document history		
Version	Date	Changes
2.0	18 Jan 2024	Removal of MP176 and MP223 from the scope of the November 2024 SEC Release.
3.0	14 May 2024	Removal of MP137 from the scope of the November 2024 SEC Release, as well as the addition of MP085B. MP230, MP253 and MP263 to the scope.
4.0	05 Sep 2024	Addition of MP248 and MP270 to the scope of the November 2024 SEC Release.
5.0	8 Oct 2024	Addition of MP272 to the scope of the November 2024 SEC 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
CSC	Change Sub-Committee
DCC	Data Communication Company
DCKI	DCC Key Infrastructure
DNO	Distribution Network Operator
DSP	Data Services Provider
GBCS	Great Britain Companion Specification
IVP	Installation Validity Period
MVP	Maintenance Validity Period
NMS	Northbound Message Store
OPSG	Operations Group
PCUE	Price Cap Update Event
PIT	Pre-Integration Testing
PKI-E	Public Key Infrastructure-Enduring
RDP	Registered Data Provider
RID	Release Implementation Document
RMS	Root Mean Square
SEC	Smart Energy Code
SECAS	Smart Energy Code Administrator and Secretariat
SMDA	Smart Meter Device Assurance
SMETS	Smart Metering Equipment Technical Specification
SMKI	Smart Metering Key Infrastructure
SMWAN	Smart Metering Wide Area Network
SIT	System Integration Testing

Glossary	
Acronym	Full term
SR	Service Request
SURB	Service User Retry Buffer
TAD	Testing Approach Document
TAG	Testing Advisory Group
TSAT	Technical Specification Applicability Tables
UIT	User Integration Testing
WAN	Wide Area Network