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Action:	For Decision

SEC Releases Update

1. Purpose

This paper presents an update on progress with upcoming Smart Energy Code (SEC) Releases. This includes a request to re-baseline the November 2022 SEC Release Implementation Document (RID). This also includes updates on each of the June 2022 SEC Release, the 2023 SEC Releases and the February 2024 SEC Release.

2. June 2022 SEC Release

The table below summarises the status of the modifications currently in scope of the June 2022 SEC Release on 30 June 2022:

Modification	Status	Impacts DCC Systems?
SECMP0015 'GPF timestamp for reading instantaneous Gas values' (DUI and MMC changes only)	Approved for inclusion. The DCC User Interface Specification (DUI) and Message Mapping Catalogue (MMC) changes will be implemented in the June 2022 SEC Release. All the other document and DCC System changes will be implemented in the November 2022 SEC Release.	✓
SECMP0024 'Enduring Approach to Communication Hub Firmware Management'	Approved for inclusion.	✓
MP104 'Security Improvements'	Approved for inclusion.	✓
MP159 'Credit Cover Review'	Approved for inclusion.	
MP195 'Security Sub-Committee guidance on Device Assurance'	Approved for inclusion.	

Modification	Status	Impacts DCC Systems?
MP199 'June 2022 SEC Release Supporting Changes'	Approved for inclusion.	

Since the last meeting, [MP109 'ADT and Exit Quarantine file delivery mechanism'](#) has been removed from the scope of this release as there will not be enough time for it to reach a decision before the cut-off date. SECAS will instead target MP109 for the November 2022 SEC Release.

All the DCC System impacting modifications targeted for this release impact the DCC User Interface Specification (DUIS). This is due to the Enduring Change of Supplier (ECoS) programme, for which the associated DUIS changes are also targeted for June 2022. Therefore, for efficiency and minimal disruption to industry, we have sought to align the two releases to allow for a single uplift to the DUIS.

We don't expect any further modifications to be added to the scope of this release, although the CSC may choose to add further modifications by exception if it believes it necessary or efficient to do so.

Next month we will ask the CSC for its approval for the go-live of the June 2022 SEC Release.

3. November 2022 SEC Release

The table below summarises the status of the modifications currently being targeted for the November 2022 SEC Release on 3 November 2022:

Modification	Status	Impacts DCC Systems?
SECMP0015 'GPF timestamp for reading instantaneous Gas values'	Approved for inclusion. The DUIS and MMC changes will be implemented in the June 2022 SEC Release. All other document and the DCC System changes will be implemented in the November 2022 SEC Release.	✓
SECMP0056 'IHD / PPMID Zigbee Attributes Available on the HAN'	Approved for inclusion.	✓
MP085A 'Synchronisation of smart meter voltage measurement periods'	Approved for inclusion.	
MP099 'Incorporation of multiple Issue Resolution Proposals into the SEC - Batch 4'	Approved for inclusion.	✓
MP109 'ADT and Exit Quarantine file delivery mechanism'	The Change Board vote is on hold and will take place once the associated Self-Service Interface (SSI) Improvement Proposal (SIP) has concluded. Cut-off date for inclusion: 20 October 2022	

Modification	Status	Impacts DCC Systems?
MP129 'Allowing the use of CNSA variant for ECDSA'	The Change Board vote will be held on 25 May under Self-Governance. Cut-off date for inclusion: 20 October 2022	
MP140 'CH Stock Transfer'	Approved for inclusion.	✓
MP141 'SRV Visibility for Devices on SSL'	Approved for inclusion.	✓
MP143 'Incorporating IRPs into GBCS v3 series'	Approved for inclusion.	✓
MP160 'Certificate Signing Request forecasting'	A Refinement Consultation will be issued in mid-May 2022. The Modification Report is expected to be presented to the CSC on 21 June 2022. Cut-off date for inclusion: 20 October 2022	
MP167 'Review of SEC documents'	The Proposed Solution will be presented to the Working Group on 1 June 2022. Following this a Refinement Consultation will be issued. The Modification Report is expected to be presented to the CSC on 19 July 2022. Cut-off date for inclusion: 20 October 2022	
MP181 'Meter Asset Provider access to asset related data held by the DCC'	A Refinement Consultation has been issued with responses requested by Tuesday 18 May 2022. The Modification Report is expected to be presented to the CSC on 21 June 2022. <i>Estimated cut-off date for inclusion: 3 August 2022</i>	
MP186 'Section D Review (2020): further enhancements'	A Refinement Consultation has been issued with responses requested by Tuesday 17 May 2022. Following this the responses will be shared with the Working Group. The Modification Report is expected to be presented to the CSC on 21 June 2022. Cut-off date for inclusion: 20 October 2022	
MP193 'Incorporation of Category 3 Issue Resolution Proposals into the SEC – Batch 6'	The Change Board vote will be held on 25 May under Self-Governance. Cut-off date for inclusion: 20 October 2022	
DP203 'Security Assurance of Device Triage Facilities'	The draft Modification Report is being presented to the CSC this month. Following this, the Proposed Solution will be presented to the Working Group on 6 July 2022 before a Refinement Consultation is issued. The final Modification Report is expected to be presented to the CSC on 19 September 2022. <i>Estimated cut-off date for inclusion: 20 October 2022</i>	
DP204 'Incorporation of Category 3 Issue'	The draft Modification Report is being presented to the CSC this month. We will then seek feedback from Device manufactures and Other SEC Parties on the Proposed	

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Modification	Status	Impacts DCC Systems?
Resolution Proposals into the SEC – Batch 8'	Solution. The final Modification Report is expected to be presented to the CSC on 21 June 2022. <i>Estimated cut-off date for inclusion: TBC</i>	

Since the last meeting, as well as MP109, [MP160 'Certificate Signing Request forecasting'](#) and [MP181 'Meter Asset Provider access to asset related data held by the DCC'](#) have been added to the scope of this release

As we are now six months away from the scheduled go-live date, we are asking the CSC to agree the full scope of this SEC Release. We have provided the RID for this SEC Release in Appendix A and we ask the CSC to baseline this for the full scope of the SEC Release.

We don't expect any further modifications that impact the DCC Systems to be added to the scope of this release, although the CSC may choose to do so by exception if it believes it necessary or efficient to do so.

4. February 2023 SEC Release

The February 2023 SEC Release will be non DCC-System impacting. There are no modifications currently targeted for this release. We will provide the CSC with an update once the provisional scope of the February 2023 SEC Release has been prepared.

The full scope of the February 2023 SEC Release will be baselined by the CSC on 16 August 2022.

5. June 2023 SEC Release

The table below summarises the status of the modifications currently in scope of the June 2023 SEC Release on 29 June 2023:

Modification	Status	Impacts DCC Systems?
MP102B 'Power Outage Alerts triggered by an OTA firmware upgrade – enduring solution'	The DCC is currently undertaking an Impact Assessment of the Proposed Solution.	✓
MP122B 'Operational Metrics - Part 2'	The DCC is currently undertaking an Impact Assessment of the Proposed Solution.	✓
MP125 'Correcting Device Information for the ESME Variant'	On 14 March SECAS received the DCC's Impact Assessment response. The assessment will be presented to the Technical Architecture and Business Architecture Sub-Committee (TABASC) on 5 May 2022. The Modification Report is expected to be presented to the CSC on 21 June 2022. <i>Estimated cut-off date for inclusion: 29 December 2022</i>	✓

Modification	Status	Impacts DCC Systems?
MP128A 'Gas Network Operators SMKI Requirements'	The Modification Report is being presented to the CSC this month. Following this a Modification Report Consultation will be issued and the Change Board vote will be held on 25 May under Self-Governance. <i>Estimated cut-off date for inclusion: 29 November 2022</i>	✓
MP134B 'Use of SMKI Certificates relating to a SoLR event - Part 2'	Concerns were raised around the Proposed Solution raised in the Refinement Consultation and at the TABASC, the Security Sub-Committee (SSC) and the Smart Metering Key Infrastructure (SMKI) Policy Management Authority (PMA). As a result, a meeting has been set up for 19 May 2022. Following this, SECAS will agree the next steps with the Proposer.	✓
MP170 'Firmware updates to Point to Point Alt HAN Devices'	The DCC is currently undertaking an Impact Assessment of the Proposed Solution.	✓

[MP162 'SEC changes required to deliver MHHS'](#) had previously been targeted for the November 2023 SEC Release and, due to its magnitude, was the only DCC System impacting modification the DCC considered it could facilitate in that release. As a result, the remaining DCC System impacting modifications that could have been targeted for 2023 have been targeted for the June 2023 SEC Release. However, MP162 has since been moved back to target the February 2024 SEC Release (see section 7 below). This is not expected to impact the scope of the June 2023 SEC Release.

The scope of the June 2023 SEC Release on the DCC Systems will be baselined by the CSC next month. We are consulting the TABASC and the Operations Group (OPSG) on the proposed scope of this release and the November 2023 SEC Release (below) on the DCC Systems ahead of this.

6. November 2023 SEC Release

The November 2023 SEC Release could be DCC-System impacting release. However, there are no DCC System impacting modifications currently targeted for this release.

7. February 2024 SEC Release

The table below summarises the status of the modifications currently in scope of the February 2024 SEC Release on 29 February 2024:

Modification	Status	Impacts DCC Systems?
MP162 'SEC changes required to deliver MHHS'	MP162 is currently out for Refinement Consultation with responses requested by Tuesday 24 May 2022. The Modification Report is expected to be presented to the CSC on 21 June 2022. Cut-off date for inclusion: 31 August 2022	✓

MP162 is currently undergoing refinement. It was previously targeted for the November 2023 SEC Release but has been moved back to target the February 2024 SEC Release in order to give Parties and the DCC enough lead time for the implementation of the modification.

The February SEC Release is designated a documentation-only release. However, MP162 forms part of the wider market-wide half-hourly settlement (MHHS) solution and implementing it as part of the February 2024 SEC Release as an exception will support the delivery of the full MHHS solution.

8. Recommendations

The CSC is requested to:

- **BASELINE** the November 2022 SEC Release Implementation Document for the non-DCC System impacting modifications; and
- **NOTE** the update on the other SEC Releases referenced in this document.

Joe Hehir

SECAS Team

10 May 2022

Attachments:

- **Appendix A:** November 2022 SEC Release Implementation Document v5.1

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November 2022 SEC Release (3 November 2022)

SEC Release Implementation Document

Version 5.1

10 May 2022

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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'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:

- [SECMP0015 'GPF timestamp for reading instantaneous Gas values'](#) will allow Parties and Devices reading the instantaneous values from the Gas Proxy function (GPF) to know the time on the Gas Smart Metering Equipment's (GSME's) clock when the value was provided
- [SECMP0056 'IHD / PPMID Zigbee Attributes Available on the HAN'](#) will make Zigbee attributes for Change of Tenancy (CoT) parameters available to Home Area Network (HAN) Devices such as In-Home Displays (IHDs) and Prepayment Meter Interface Devices (PPMIDs) and also mandate IHDs and PPMIDs to query the Electricity Smart Metering Equipment (ESME) and GPF for CoT information.
- [MP085A 'Synchronisation of smart meter voltage measurement periods'](#) will amend the SEC Technical Specifications for meter Manufacturers to ensure newly manufactured Devices commence average Root Mean Square (RMS) Voltage Measurement Period readings on the hour or half past the hour (whichever occurs first).
- [MP099 'Incorporation of multiple Issue Resolution Proposals into the SEC - Batch 4'](#) will incorporate two DCC System impacting Issue Resolution Proposals (IRPs) into the SEC.
- [MP140 'CH Stock Transfer'](#) will provide a means of allowing SEC Parties to exchange Communications Hub (CH) units between themselves directly, rather than returning them to the DCC.
- [MP141 'SRV Visibility for Devices on SSI'](#) will allow Supplier Parties and Network Operators to view all the titles of Service Reference Variants (SRVs) and Service Responses that have been associated with a Device that they own.
- [MP143 'Incorporating IRPs into GBCS v3 series'](#) will incorporate five non-DCC System impacting IRPs into the SEC.

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:

- [MP109 'ADT and Exit Quarantine file delivery mechanism'](#) proposes to replace the main delivery method of emails for Anomaly Detection Threshold (ADT) File and Exit Quarantine files with the use of the DCC SharePoint. Cut-off date for inclusion: 20 October 2022.
- [MP129 'Allowing the use of CNSA variant for ECDSA'](#) proposes to modify the GB Companion Specification (GBCS) so that it clearly shows the Commercial National Security Algorithm (CNSA) Suite standard is permitted for Critical Command signing as well as the GBCS variant of the Elliptic Curve Digital Signature Algorithm (ECDSA). Cut-off date for inclusion: 20 October 2022.
- [MP160 'Certificate Signing Request forecasting'](#) proposes to remove the requirement on DCC Users to provide Certificate Signing Request (CSR) forecasts except where exceptional volumes are expected. Cut-off date for inclusion: 20 October 2022.

- [MP167 'Review of SEC documents'](#) proposes to remove any SEC documents or paragraphs that are deemed no longer applicable from the SEC. Cut-off date for inclusion: 20 October 2022.
- [MP181 'Meter Asset Provider access to asset related data held by the DCC'](#) proposes to allow Meter Asset Providers (MAPs) and Device Manufacturers to access smart asset-related data held by the DCC. *Estimated cut-off date for inclusion: 3 August 2022.*
- [MP186 'Section D Review \(2020\): further enhancements'](#) proposes to address the recommendations made by the 2020 SEC Section D review requiring a Draft Proposal. Cut-off date for inclusion: 20 October 2022.
- [MP193 'Incorporation of Category 3 Issue Resolution Proposals into the SEC – Batch 6'](#) proposes to incorporate six non-DCC System impacting IRPs/Change Resolution Proposals (CRPs) into the SEC. Cut-off date for inclusion: TBC.
- DP203 'Security Assurance of Device Triage Facilities' proposes to increase security assurance across the end-to-end smart metering system by requiring the need for regulatory assurance of Triage Facilities, Triage Tools and Triage Interfaces. Cut-off date for inclusion: 20 October 2022.
- DP204 'Incorporation of Category 3 Issue Resolution Proposals into the SEC – Batch 8' proposes to incorporate ten non-DCC System impacting IRPs into the SEC. Cut-off date for inclusion: TBC.

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

The following DCC Change Requests are planned to be implemented alongside this SEC Release:

- CR4427 'Enduring solution for Implementing additional XML Signing credentials' proposes to implement the additional Extensible Markup Language (XML) signing credentials into the DCC's scope, based on a number of other security-related changes identified by the Department for Business, Energy and Industrial Strategy (BEIS) that is related to SEC Section G 'Security'.
- CR4599 'CSW specific delivery for November 2022 SEC Release' proposes to implement the updates to the Message Mapping Catalogue (MMC), GBCS Interface Testing Tool for Industry (GFI) and DCC Boxed tools required to support modifications in the November 2022 SEC 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
SECMP0015	✓		✓	✓	✓
SECMP0056	✓			✓	✓
MP078	✓			✓	✓
MP085A		✓		✓	
MP099	✓			✓	✓
MP109	✓	✓	✓	✓	✓
MP129	✓	✓	✓		✓
MP140	✓			✓	✓
MP141	✓	✓	✓		✓
MP143	✓			✓	✓
MP160	✓	✓	✓	✓	✓
MP167					✓
MP181				✓	✓
MP186	✓	✓	✓	✓	✓
MP193	✓			✓	✓
DP203	✓			✓	
DP204	✓			✓	✓

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	- DCC Users must submit ADT and Exit Quarantine files via the DCC SharePoint instead of email. - Supplier and Network Parties will have access to the full list of SRVs and Service Responses a Device has either sent or received. - All DCC Users will be impacted as they will no longer have to provide quarterly eight-month CSR forecasts. - Parties will need to abide to the new rules of the SEC Section D Modification Process.
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' customers will no longer be able to access previous tenants' data. - IRPs will be implemented that benefit Suppliers.

SEC Party impacts	
Participant	Summary of impacts
	- It will be clearer to Suppliers that the CNSA Suite variant for Critical Command signing is permitted. - Suppliers will have a means of exchanging CHs between each other rather than returning them to the DCC and incurring refurbishment and returns costs.
Electricity Network Parties	- Electricity Network Parties will be provided with average RMS voltage readings that align to half-hourly consumption data. - It will be clearer to Electricity Network Parties that the CNSA Suite variant for Critical Command signing is permitted.
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. - It will be clearer to Gas Network Parties that the CNSA Suite variant for Critical Command signing is permitted.
Other SEC Parties	- Device manufacturers will need to ensure that Devices are built to the revised specifications resulting from these modifications. - IHD and PPMID manufacturers will need to ensure their Devices are able to request the information regarding a CoT from the ESME and GPF. - IRPs will be implemented that benefit Device manufacturers. - Device manufacturers may receive fewer orders of CHs if the stock of CHs can shift between Supplier Parties rather than placing orders with the DCC to acquire more CH units. - MAPs and Device Manufacturers will be able to request the relevant report from the DCC in order to better understand the health of smart meters across the country.

DCC impacts	
Area impacted	Summary of impacts
Data Services Provider	- If the DSP chooses to move to the standard CNSA Suite variant for Critical Command signing, it is expected to improve the performance of its Hardware Security Modules (HSMs) and reduce ongoing maintenance effort and Operational Support charges. - DCC Logistics will share CH stock transfer details with the DSP via the Self-Service Management Interface (SSMI). - The DSP will update the SMI with the new Service User ID for the list of transferred Communications Hubs. - The DSP will facilitate the implementation of five DCC System impacting IRPs.
Communication Services Providers (CSPs)	CHs 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.

DCC impacts	
Area impacted	Summary of impacts
	- The CSPs will need to engage with Parties and renegotiate the Communications Hub financing arrangements. - The CSPs will facilitate the implementation of five DCC System impacting IRPs.
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. MMC schema will need to be updated to allow Parse and Correlate to implement this change.
Regulatory changes	- The DCC will need to produce the smart asset-related data reports at the TOC, and then bill the recipient through the Explicit Charge. - The DCC will need to abide by the new rules relating to the DCC assessments as part of the Modification Process.
Self-Service Interface (SSI)	- Consequential changes to update references to “email” for the delivery mechanism for ADT and Exit Quarantine files. - The SSI will be modified to allow Supplier Parties and Network Operators to view the titles of the Service Requests sent to the Devices they own, and the corresponding Service Responses from the Device.
SharePoint	Although the MP109 solution will utilise SharePoint, no changes are required.

SECAS impacts

SECAS will need to make the updates to the SEC to implement the modifications approved for this release. No other additional impacts have been identified.

SEC document impacts

The following SEC documents will be updated in this release:

- Section A ‘Definitions and Interpretation’
- Section C ‘Governance’
- Section D ‘Modification Process’
- Section F ‘Smart Metering System Requirements’
- Section G ‘Security’
- Section H ‘DCC Services’
- Section K ‘Charging Methodology’
- Section L ‘Smart Metering Key Infrastructure and DCC Key Infrastructure’
- Section T ‘Testing During Transition’

- Section X 'Transition'
- Schedule 7 'Specimen Enabling Services Agreement'
- Schedule 8 'GB Companion Specification'
- Schedule 9 'Smart Metering Equipment Technical Specifications'
- Schedule 10 'Communications Hub Technical Specifications'
- Schedule 11 'TS Applicability Tables'
- Appendix H 'CH Handover Support Materials'
- Appendix AA 'Threshold Anomaly Detection Procedures'
- Appendix AN 'SEC Variation Testing Approach Document for BEIS Changes included in the November 2020 SEC Release'

Each of these documents is affected by the following modifications:

SEC document impact matrix																
Document	SECMPO015	SECMPO056	MP085A	MP099	MP109	MP129	MP140	MP141	MP143	MP160	MP167	MP181	MP186	MP193	DP203	DP204
Section A							✓				✓	✓	✓			
Section C													✓			
Section D											✓		✓			
Section F							✓				✓					
Section G													✓		✓	
Section H								✓			✓	✓				
Section K							✓					✓				
Section L										✓	✓		✓			
Section T											✓					
Section X											✓					
Schedule 7												✓				
Schedule 8	✓	✓		✓		✓			✓					✓		✓
Schedule 9	✓	✓	✓											✓		✓
Schedule 10	✓	✓														
Schedule 11	✓	✓	✓	✓		✓			✓					✓		✓
Appx H							✓									
Appx AA					✓											
Appx AC											✓					
Appx AN											✓					

The document impacts for some modifications are provisional based on the current understanding of the solutions. Some solutions are still at early stages of assessment, and the impacts will be updated as these modifications evolve.

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

The following versions of each the Technical Specifications will be implemented in the November 2022 SEC Release:

Technical Specification impact matrix										
Tech Spec	New Sub-Version	Applicable GBCS version	SECMP0015	SECMP0056	MP085A	MP099	MP129	MP143	MP193	DP204
GSMETS	v4.4	v4.2	✓							
ESMETS	v5.2	v4.2		✓	✓				✓	
IHDTs	v4.4	v4.2		✓						
PPMIDTS	v4.5	v4.2		✓						
SAPCTS	v5.1	v4.2							✓	
SMETS Glossary	v5.1	v4.2								✓
CHTS	v1.6	v4.2	✓	✓						
GBCS	v3.3	N/A						✓		
GBCS	v4.2	N/A	✓	✓		✓	✓		✓	✓

It has been assumed that only Sub-Versions will be introduced and not any new Principal Versions. Once decision on all of the Technical Specification impacting modifications have been received, we will confirm the final versions being introduced with the Technical Architecture and Business Architecture Sub-Committee (TABASC).

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
30 Nov 21	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.
14 Feb 22	DCC submits draft SEC Release TAD	
23 Feb 22	TAG reviews draft SEC Release TAD	
23 Feb 22 – 9 Mar 22	DCC consults on draft SEC Release TAD	The DCC will consult the industry on the draft TAD.
23 Mar 22	DCC submits updated SEC Release TAD	The TAD will be updated to account for comments provided by the TAG and from the consultation.
30 Mar 22	TAG reviews updated SEC Release TAD	The TAG will provide a view to the CSC on whether this document is suitable for use.
10 May 22	OPSG reviews the DCC's progress against the operational acceptance criteria	
17 May 22	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.
20 May 22	SIT commences	
21 Jun 22	CSC reviews SEC Release TAD	The CSC will review the TAD and incorporate it into the RID.
9 Aug 22	OPSG reviews the DCC's progress against the operational acceptance criteria	
6 Sep 22	OPSG reviews the DCC's progress against the operational acceptance criteria	
13 Sep 22	DCC submits SIT Completion Report	
13 Sep 22	Test Participants inform DCC of their new functionality / regression testing plans	At least 10 Working Days before UIT begins
20 Sep 22	UIT-B commences	

Release implementation timetable		
Date	Event	Notes
27 Sep 22	DCC submits evidence against the operational acceptance criteria	
28 Sep 22	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.
11 Oct 22	OPSG reviews status against the operational acceptance criteria	The Operations Group will provide a recommendation on whether the release should be implemented as planned.
18 Oct 22	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.
25 Oct 22	Test Participants to provide new functionality / regression testing results to DCC	At least five Working Days before UIT completion
Nov 22	UIT-B window closes	
3 Nov 22	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 via the individual DCC Assessments:

Breakdown of DCC implementation costs					
Modification	Design, Build & PIT	SIT	UIT	Implement to live	Application Support
SECMP0015	£1,335,568	£437,032			
SECMP0056	£1,434,761	£251,307			N/A
MP099	£188,446	£89,238	N/A	N/A	N/A
MP140	£111,640	£50,000		£3,029	£23,381 ¹
MP141	£124,301	£68,967		£6,571	£8,346 ²
MP143	£32,890	£24,624	N/A	£0	N/A

The DCC has confirmed there will be no central implementation costs to implement MP109, which impacts SharePoint with consequential changes needed for the SSI as well.

No impact on operational costs have been identified.

The DCC has provided standalone costs for 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.

SECAS costs

SECAS will incur five days effort, equating to around £3,000, 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. 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

¹ MP140 Application Support costs have been calculated for the period commencing November 2022 and ending October 2024.

² Application Support costs for MP141 have been calculated for a period of two months after the solution is Implemented.

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
0.1	27 Sep 2021	First draft published.
0.2	20 Oct 2021	Updated to reflect MP107 being withdrawn and MP085A being added to scope.
0.3	5 Nov 2021	Updated to reflect non-Modification Proposal DCC Change Requests targeted for the release.
0.4	23 Nov 2021	Updated to reflect updated costs for MP141 and MP143 and to reflect an updated implementation timeline.
1.0	15 Dec 2021	Version baselined by the CSC to cover the proposed scope of the release on the DCC Systems, including the addition of MP192.
2.0	28 Feb 2022	Updated to reflect the rejection of MP078 as well as MP129 and MP193 being added to scope and updated implementation costs.
3.0	9 Mar 2022	Updated to reflect MP192 falling out of scope and MP167 and MP186 being added to scope. Updates made to the release implementation timeline. Full MP143 costs referenced.
4.0	25 Mar 2022	Updated to reflect the approval of MP140.
5.0	31 Mar 2022	Updated to reflect DCC Change Request CR4599 being added to scope.
5.1	10 May 2022	Version sent to the CSC for the full scope of the release to be baselined. Updated to reflect the approval of MP143 and the additions of MP109, MP160, MP181, DP203 and DP204 to the scope. CR4465 'Feature Switch removal' also removed as it is targeted for a maintenance 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
ADT	Anomaly Detection Threshold
BEIS	Department for Business, Energy and Industrial Strategy
CH	Communications Hub
CHTS	Communications Hub Technical Specifications

Glossary	
Acronym	Full term
CoT	Change of Tenancy
CRP	Change Resolution Proposal
CSC	Change Sub-Committee
CSP	Communication Services Provider
CSR	Certificate Signing Request
CNSA	Commercial National Security Algorithm
DCC	Data Communication Company
DSP	Data Services Provider
ECDSA	Elliptic Curve Digital Signature Algorithm
ESME	Electricity Smart Metering Equipment
ESMETS	Electricity Smart Metering Equipment Technical Specification
GBCS	GB Companion Specification
GFI	GBCS Interface Testing Tool for Industry
GPF	Gas Proxy Function
GSME	Gas Smart Metering Equipment
GSMETS	Gas Smart Metering Technical Specification
HAN	Home Area Network
HSM	Hardware Security Module
IHD	In-Home Display
IHDTs	In-Home Display Technical Specification
IRP	Issue Resolution Proposal
MAP	Meter Asset Provider
MMC	Message Mapping Catalogue
PIT	Pre-Integration Testing
PPMID	Prepayment Interface Device
PPMIDTS	Prepayment Meter Interface Device Technical Specification
RID	Release Implementation Document
RMS	Root Mean Square
SEC	Smart Energy Code
SECAS	Smart Energy Code Administrator and Secretariat
SIT	System Integration Testing
SMETS	Smart Metering Equipment Technical Specifications
SRV	Service Request Variant
SSI	Self-Service Interface
SSMI	Self-Service Management Interface
TABASC	Technical Architecture and Business Architecture Sub-Committee
TAD	Testing Approach Document
TAG	Testing Advisory Group

Glossary	
Acronym	Full term
UIT	User Integration Testing
XML	Extensible Markup Language