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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 requests to agree that the June 2021 SEC Release can be set live on 24 June 2021, an update on the 2021 and 2022 scheduled SEC Releases, as well as a request to baseline the June 2022 SEC Release Implementation Document (RID) for DCC System impacting modifications.

2. June 2021 SEC Release

The table below summarises the status of the modifications currently in scope of the June 2021 SEC Release on 24 June 2021:

Modification	Status
MP106 'CHISM update for Unknown WAN Variant'	Approved for inclusion.
MP144 'Charging of Random Sample Privacy Assessments'	Approved for inclusion.
MP146 'SM WAN Coverage Date'	Approved for inclusion.
MP147 'SMKI Full Extract'	Approved for inclusion.
MP153 'Follow up changes for Communications Hub Finance Charges'	Approved for inclusion.

The June 2021 SEC Release will be a document-only release and will not contain any DCC System impacting modifications.

The Operations Group (OPSG) noted that the scope and nature of the June 2021 SEC Release means that a full review of readiness against the Acceptance Criteria was not justified. The OPSG had no concerns over the implementation of the release given it will have no impact on the DCC's service or DCC Systems.

Based on the views of the OPSG, we believe that the June 2021 SEC Release is ready to be set live on 24 June 2021. We therefore recommend that the Panel approves the release to be implemented.

3. November 2021 SEC Release

The table below summarises the status of the modifications currently in scope of the November 2021 SEC Release on 4 November 2021:

Modification	Status	Impacts DCC Systems?
SECMP0007 'Firmware update to IHDs and PPMIDs'	Approved for inclusion.	✓
MP077 'DCC Service Flagging'	Approved for inclusion.	✓
MP090 'Incorporation of Non GBCS Non-Mandated Alerts into the SEC'	Approved for inclusion.	✓
MP105 'Sending SR11.2 to Devices in Suspended State'	Approved for inclusion.	✓
MP116 'Service Request Forecasting'	MP116 is undergoing the Refinement Process. The DCC is currently completing a testing program to develop the solution. This was discussed at the May Working Group meeting. Members agreed more work is needed on the solution and an additional Working Group meeting will be needed. The Modification Report is expected to be presented in August 2021.	
MP138 'DCC Service Testing in ETAD'	The Modification Report is be presented to the Panel at this month's meeting. The Change Board vote would then take place under Self-Governance on 28 July 2021.	
MP149 'Effecting Changes to the Smart Energy Code efficiently'	The strawman solution was discussed at the June Working Group meeting. We are preparing the legal text for the solution considering the comments we received. The Modification Report is expected to be presented in July 2021.	
MP150 'Removing Table 28c from the GBCS'	Approved for inclusion.	
DP157 'Removal of DUIS v1.0 and v2.0'	We are presenting this proposal to the relevant Sub-Committees and aim to present it to the Change Sub-Committee on 29 June 2021 to convert to a Modification Proposal.	
DP158 'Incorporation of multiple Issue Resolution Proposals into the SEC – Batch 5'	On 25 May 2021, the Change Sub-Committee recommended to convert DP158 to a Modification Proposal. We are still working to finalise the legal text and will request this be converted later in June 2021 and progressed to the Report Phase.	
DP164 'November 2021 SEC Release supporting changes'	We are presenting this proposal to the relevant Sub-Committees and aim to present it to the Change Sub-Committee on 27 July 2021 to convert to a Modification Proposal.	

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

4. February 2022 SEC Release

No modifications are currently in scope of the February 2021 SEC Release.

An update on the scope of the February 2022 SEC Release will be given at the June 2021 Panel meeting. We will be requesting the RID be baselined in August 2021.

5. 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. This is considering the Enduring Change of Supplier (ECoS) programme which is also targeted for June 2022:

Modification	Status	Impacts DCC Systems?
SECMP0015 'GPF timestamp for reading instantaneous Gas values' (DUIS and MMC changes only)	Approved for inclusion. The DCC User Interface Specification (DUIS) 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'	The DCC completed its Impact Assessment on 7 June 2021. We will present this to the TABASC and the Working Group in July 2021.	✓
MP104 'Security Improvements'	The DCC is currently carrying out an Impact Assessment which it expects to complete by 7 July 2021.	✓
MP117 'Bulk CH returns'	On 9 June 2021, the Proposer stated that they have decided to withdraw the Modification Proposal. A 10 Working Day referral period is now open for Parties to adopt MP117. If no such requests have been received by this time, this Modification Proposal will be confirmed as withdrawn.	✓

Request to baseline the scope of the release on DCC Systems

All four DCC System impacting modifications targeted for this release impact the DCC User Interface Specification (DUIS). This is due to the ECoS programme which is also targeted for June 2022 impacting the DUIS as well. Therefore, for efficiency and minimal disruption to industry, we are trying to align the two releases.

We do not believe any other modifications that impact on DCC Systems can be approved in time for inclusion. As we are now 12 months away from implementation, we are requesting the Panel baselines the scope of this release on the DCC Systems, to allow the DCC to begin work on

developing the Testing Approach Document (TAD). We have attached the draft RID for this scope (Appendix A) and ask the Panel to approve this. Other modifications that do not impact the DCC Systems can still be added to the scope later on, and the RID will be re-baselined to include these in December 2021.

6. 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 Message Mapping Catalogue (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.	✓
MP078 'Incorporation of multiple Issue Resolution Proposals into the SEC - Part 2'	The DCC is currently carrying out an Impact Assessment which it expects to complete by 26 July 2021.	✓
MP099 'Incorporation of multiple Issue Resolution Proposals into the SEC - Batch 4'	Approved for inclusion.	✓
MP107 'SMETS1 Validation of SRV 6.15.1'	An Impact Assessment is in progress with the DCC expecting to complete it by week commencing 14 June.	✓
MP109 'ADT and Exit Quarantine file delivery mechanism'	The DCC is investigating an alternative approach to the Proposed Solution. Once the DCC has completed its investigations it will present its findings to the Working Group.	✓
MP119 'CH Alert Storm Consolidation'	This modification was discussed at the January 2021 Working Group. The DCC will now discuss the modification with the Smart Metering Delivery Group (SMDG).	✓
MP134B 'Use of SMKI Certificates relating to a SoLR event - Part 2'	On 5 May 2021, the Working Group discussed the business requirements. We will finalise the requirements and request a Preliminary Assessment.	✓
MP140 'CH Stock Transfer'	A Refinement Consultation closed on 7 June 2021. We are assessing the responses before requesting the Impact Assessment.	✓

Modification	Status	Impacts DCC Systems?
MP141 'SRV Visibility for Devices on SSI'	A Refinement Consultation closed on 7 June 2021. We are assessing the responses before requesting the impact Assessment.	✓

We will baseline the scope of the release on the DCC Systems on 12 November 2021.

7. Recommendations

The Panel is requested to:

- **AGREE** that the June 2021 SEC Release can be set live on 24 June 2021;
- **BASELINE** the June 2022 SEC Release Implementation Document for the scope of the release on DCC Systems; and
- **NOTE** the updates on the other 2021 and 2022 SEC Releases.

Joe Hehir

SECAS Team

11 June 2021

Attachments:

- **Appendix A:** June 2022 SEC Release Implementation Document v0.1

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June 2022 SEC Release (30 June 2022)

SEC Release Implementation Document Version 0.1



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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

- [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.

Only the DCC User Interface Specification (DUIS) and Message Mapping Catalogue (MMC) document changes required for SECMP0015 will be implemented in the June 2022 SEC Release alongside other DUIS and MMC changes. The functionality, including the DCC System and Data Services Provider (DSP) System changes, and the associated changes to the technical specifications will not be implemented until the November 2022 SEC Release (3 November 2022). Therefore, there will be no User impacts resulting from SECMP0015 in the June 2022 SEC 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:

- [SECMP0024 'Enduring Approach to Communication Hub Firmware Management'](#) proposes a new DCC Alert that will be sent to Suppliers upon firmware being activated on Communications Hubs which contains the Communications Hub firmware version.
- [MP104 'Security Improvements'](#) proposes a DCC validation check to identify if DCC Users are Digitally Signing Extensible Markup Language (XML) format Service Requests and Signed Pre-Commands with a User Role Signing Private Key.
- [MP117 'Bulk CH returns'](#) proposes to increase the number of Global Unique Identifiers (GUIDs) on Service Requests 8.14.3 'Communications Hub Status Update – Fault Return' and 8.14.4 'Communications Hub Status Update – No Fault Return' used to issue Communication Hub returns.

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

A list of any DCC Change Requests being implemented alongside this SEC Release will be provided here.

Concurrent implementation with ECoS

The June 2022 SEC Release will be tested alongside the Enduring Change of Supplier (ECoS) changes being implemented by the Department for Business, Energy and Industrial Strategy (BEIS). Both releases will uplift the DUIS which is why they will be implemented in parallel. They will also each uplift changes onto the test environments and into Production concurrently. The ECoS changes

do not form part of this 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
SECMP0015					
SECMP0024	✓				✓
MP104 ¹	✓	✓	✓	✓	✓
MP117	✓				✓

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	<ul style="list-style-type: none"> All DCC Users will have their Service Requests validated to check they have used an XML User Role Signing Private Key to sign XML format Service Requests and Signed Pre-Commands.
Supplier Parties	<ul style="list-style-type: none"> Suppliers will receive a DCC Alert once firmware Images are activated on CHs. Suppliers will be able to send a Service Request containing up to 999 Communications Hub returns instead of one Communications Hub per Service Request (as is currently).
Electricity Network Parties	<ul style="list-style-type: none"> No additional impacts
Gas Network Parties	<ul style="list-style-type: none"> No additional impacts
Other SEC Parties	<ul style="list-style-type: none"> No additional impacts

¹ MP104 will impact all DCC Users.

DCC impacts	
Area impacted	Summary of impacts
DCC User Interface Specification	<ul style="list-style-type: none"> A new DUIS version will be released to implement changes to existing Service Requests and to implement a new DCC Alert.
Data Services Provider (DSP)	<ul style="list-style-type: none"> The following DSP components will be affected: <ul style="list-style-type: none"> DCC User Gateway Interface Design Specification (DUGIDS) updates, DUIS Service Requests, and MMC, Alerts and Messages Updates to Service Request processing The DSP will build a mechanism to track the Certificates used by Service Users to sign the Service Requests The DSP will amend the Service User validation checks to verify that the Service Request submitted by a Service User has been signed using the XML Signing Certificate
Communication Services Providers (CSP)	<ul style="list-style-type: none"> The CSPs will implement the associated system changes resulting from SECMP0007.

SEC document impacts

The following SEC documents will be updated in this release:

- Section A 'Definitions and Interpretation'
- Appendix AB 'Service Request Processing Document'
- Appendix AD 'DCC User Interface Specification'
- Appendix AF 'Message Mapping Catalogue'

Each of these documents is affected by the following modifications:

SEC document impact matrix				
Document	SECMP0015	SECMP0024	MP104	MP117
Section A	✓	✓	✓	✓
Appendix AB				
Appendix AD	✓			
Appendix AF	✓			

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 June 2022 SEC Release:

Technical Specification impact matrix					
Tech Spec	New Version	SECMP0015	SECMP0024	MP104	MP117
DUIS	v6.0	✓	✓	✓	✓
MMC	v6.0	✓			

Other code impacts

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

3. Implementation timeline

This section lists the provisional 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
18 Jun 2021	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.
22 Sep 2021	DCC submits draft SEC Release TAD	
29 Sep 2021	TAG reviews draft SEC Release TAD	
Oct 2021	DCC consults on draft SEC Release TAD	The DCC will consult the industry on the draft TAD.
17 Nov 2021	DCC submits updated SEC Release TAD	The TAD will be updated to account for comments provided by the TAG and from the consultation.
24 Nov 2021	TAG reviews updated SEC Release TAD	The TAG will review the TAD and incorporate it into the RID.

Release implementation timetable		
Date	Event	Notes
7 Dec 2021	Operations Group reviews the DCC's progress against the operational acceptance criteria	
Jan 2022	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.
31 Jan 2022	SIT commences	
8 Mar 2022	Operations Group reviews the DCC's progress against the operational acceptance criteria	
5 Apr 2022	Operations Group reviews the DCC's progress against the operational acceptance criteria	
18 May 2022	DCC submits SIT Completion Report	
3 May 2022	Operations Group reviews the DCC's progress against the operational acceptance criteria	
5 May 2022	Test Participants inform DCC of their regression testing plans	By 10 Working Days before UIT begins.
19 May 2022	UIT commences	
25 May 2022	TAG reviews SIT Completion Report	The TAG will provide a recommendation on whether SIT has been completed successfully.
7 Jun 2022	Operations Group reviews status against the operational acceptance criteria	The Operations Group will provide a recommendation on whether the release should be implemented as planned. <i>Preliminary reviews of progress will be scheduled across preceding meetings.</i>
Jun 2022	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.
22 Jun 2022	Test Participants to provide regression testing results to DCC	By five Working Days before UIT completion
29 Jun 2022	UIT window closes	
30 Jun 2022	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	N/A ²				
SECMP0024	<i>£151,000 – £350,000</i>	<i>TBC</i>	<i>TBC</i>	<i>TBC</i>	<i>TBC</i>
MP104	<i>£170,000 – £280,000</i>	<i>TBC</i>	<i>TBC</i>	<i>TBC</i>	<i>TBC</i>
MP117	<i>£300,000 – £350,000</i>	£50,000 – £100,000			

No impact on operational costs have been identified.

Costs in italics are estimated costs provided in the Preliminary Assessments. Firm costs will be provided in the Impact Assessments.

Costs which are not split by each of the five categories in the tables are for those modifications where only one DCC Service Provider is impacted. These costs are available upon request from SECAS for SEC Parties by emailing sec.change@gemserv.com.

² The SECMP0015 implementation costs will be allocated to the November 2022 SEC Release, which includes all implementation of the SECMP0015 System changes and associated testing.

The DCC will provide 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. Where possible, these combined costs will also be provided in the respective Modification Reports.

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 OPSG 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
0.1	11 Jun 2021	First draft issued to the Panel to baseline the scope of the release on the DCC Systems.

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
CSP	Communication Services Provider

Glossary	
Acronym	Full term
DCC	Data Communication Company
DSP	Data Services Provider
DUGIDS	DCC User Gateway Interface Design Specification
DUIS	DCC User Interface Specification
GPF	Gas Proxy Function
GSME	Gas Smart Metering Equipment
GUID	Global Unique Identifier
MMC	Message Mapping Catalogue
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
XML	Extensible Markup Language
UIT	User Integration Testing