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June 2020 SEC Release (6 May 2020)

SEC Release Implementation Document Version 5.0

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 has one annex:

- **Annex A** contains the Data Communication Company's (DCC's) SEC Release Testing Approach Document (TAD) for this release.

1. Scope

Approved Modification Proposals

The following Modification Proposals have been approved for inclusion in this release:

- [SECMP0053 'Amend Target Response Times for Service Requests Critical to Installation and Commissioning Processes'](#) will reduce the Target Response Times for time-critical Service Requests relating to the installation and commissioning process.
- [SECMP0062 'Northbound Application Traffic Management – Alert Storm Protection'](#) will 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 consolidating Alerts, being implemented in this release. The second stage of the solution will be implemented in the November 2020 SEC Release and will cover the changes to allow Users to be notified of consolidated Alerts via the metadata in the Alerts that are received.
- [MP114 'Alt HAN P2P Charging Data'](#) will ensure that the Alternative Home Area Network (Alt HAN) Company can ensure that the 'average monthly incremental costs' in the Charging Data is calculated accurately as part of determining the Alt HAN costs. *This modification will be implemented on 7 May 2020 due to the Self-Governance referral window not closing until 6 May 2020.*

DCC Change Requests

No DCC Change Requests will be implemented alongside this SEC Release.

Concurrent implementation with SMETS1 Core 1.1

The June 2020 SEC Release will be tested alongside the Smart Metering Equipment Technical Specifications (SMETS) 1 Core 1.1 changes. Both releases will uplift changes onto the test environments and into Production concurrently. The Core 1.1 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 SEC Release will have on participants and their systems, SEC documents and other industry codes. This section assumes all targeted modifications will be approved for inclusion in this release.

SEC Party and DCC impacts

| Participant impact matrix | | | | | |
|---------------------------|-----------|----------------------|--------------|-------------------|-----|
| Modification | Suppliers | Electricity Networks | Gas Networks | Other SEC Parties | DCC |
| SECMP0053 | ✓ | | | | ✓ |
| SECMP0062 | ✓ | ✓ | ✓ | ✓ | ✓ |
| MP114 | ✓ | | | | ✓ |

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 | <ul style="list-style-type: none"> Suppliers will receive a response to Service Requests 6.14.1 'Update Device Configuration (Auxiliary Load Control Description)', 6.14.2 'Update Device Configuration (Auxiliary Load Control Scheduler)' and 7.9 'Add Auxiliary Load to Boost Button' within 30 seconds, rather than 24 hours. Suppliers may be subject to the consolidation of Alerts from Devices that exceed defined thresholds. Suppliers may see changes to the way Alt HAN charges are recovered from them. |
| Electricity Network Parties | <ul style="list-style-type: none"> Electricity Network Parties may be subject to the consolidation of Alerts from Devices that exceed defined thresholds. |
| Gas Network Parties | <ul style="list-style-type: none"> Gas Network Parties may be subject to the consolidation of Alerts from Devices that exceed defined thresholds. |
| Other SEC Parties | <ul style="list-style-type: none"> Parties may be subject to the consolidation of Alerts from Devices that exceed defined thresholds. Other Users will have a seat on the Panel to be filled by a representative for this sub-group of Other SEC Parties. |

| DCC impacts | |
|----------------------------------|---|
| Area impacted | Summary of impacts |
| Communications Service Providers | <ul style="list-style-type: none"> The Communications Service Providers will need to ensure that a response to Service Requests 6.14.1, 6.14.2 and 7.9 are received by the User within 30 seconds. |

| DCC impacts | |
|-----------------------|---|
| Area impacted | Summary of impacts |
| Data Service Provider | <ul style="list-style-type: none"> The Data Service Provider will consolidate Alerts issued by Devices when the number of a specific Alert exceeds the set thresholds. |
| Regulation | <ul style="list-style-type: none"> The DCC will need to account for the changes to how Alt HAN charges are recovered from Suppliers. |

SEC document impacts

The following documents will be updated in this release:

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

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

| SEC document impact matrix | | | |
|----------------------------|-----------|-----------|-------|
| Document | SECMP0053 | SECMP0062 | MP114 |
| Section H | | ✓ | |
| Section Z | | | ✓ |
| Appendix E | ✓ | | |
| Appendix AB | | ✓ | |
| Appendix AH | | ✓ | |

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

Other Code impacts

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

3. Implementation timeline

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

This timeline includes the dates on which decisions on modifications are anticipated, dates for when the System Integration Testing (SIT) and User Integration Testing (UIT) test phases are planned to commence and complete, and key governance steps for the Panel, the Testing Advisory Group (TAG) and the Operations Group to complete.

The DCC requested the implementation date be brought forward to 6 May 2020, to allow this release to be implemented prior to testing for the Middle Operating Capability (MOC). The Panel has agreed to request a change of implementation date from the Authority, and the Authority subsequently approved this request.

| Release implementation timetable | | |
|----------------------------------|---|---|
| Date | Event | Notes |
| 11 Oct 19 | Panel baselines RID for system-impacting modifications | The Panel will review the RID for DCC System-impacting modifications (including modifications targeted but not approved) and baseline the document. |
| 17 Jan 20 | Panel baselines RID for non-system-impacting modifications | The Panel will review the RID for non-DCC System-impacting modifications (including modifications targeted but not approved) and re-baseline the document to include these. |
| 17 Feb 20 – 09 Mar 20 | DCC consults on draft SEC Release TAD | The DCC will consult the industry on the draft TAD. |
| 12 Mar 20 | DCC submits updated SEC Release TAD | The TAD will be updated to account for comments provided by the TAG and from the consultation. |
| 13 Mar 20 | Panel reviews plan and costs | The Panel will give conditional approval of the TAD subject to TAG approval. |
| 18 Mar 20 | TAG reviews updated SEC Release TAD | The TAG will provide its view on whether this document is suitable for use. |
| 18 Mar 20 | DCC publishes design specifications | |
| 19 Mar 20 | SIT commences | |
| 07 Apr 20 | Operations Group reviews provisional status against the operational acceptance criteria | |
| 14 Apr 20 | Test Participants inform DCC of their regression testing plans | |
| 20 Apr 20 | DCC submits evidence against the operational acceptance criteria | |
| 22 Apr 20 | DCC submits SIT Completion Report and evidence against the testing acceptance criteria | |
| 27 Apr 20 | UIT commences | |

| Release implementation timetable | | |
|----------------------------------|---|--|
| Date | Event | Notes |
| 27 Apr 20 | Operations Group reviews status against the operational acceptance criteria | The Operations Group will provide a recommendation to the Panel on whether the release should be implemented as planned. |
| 29 Apr 20 | TAG reviews SIT Completion Report, UIT Completion Report and status against the testing acceptance criteria | The TAG will provide a recommendation to the Panel on whether testing has been completed successfully and on whether the release should be implemented as planned. |
| 29 Apr 20 | Test Participants provide regression testing results to DCC | |
| 01 May 20 | UIT window closes | |
| 05 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. |
| 06 May 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 can be found in Annex A. This covers the DCC's approach to SIT.

User testing approach

The DCC's SEC Release Testing Approach Document can be found in Annex A. This covers the DCC's approach to UIT.

5. Costs

This section summarises the costs that will be incurred by the DCC and the Smart Energy Code Administrator and Secretariat (SECAS) in implementing this release.

DCC costs

The total DCC implementation costs of this release are currently quoted as £1,870,902.

The DCC has provided the following cost breakdown for this release:

| Breakdown of DCC release costs | |
|---|----------|
| Stage | Cost |
| Design, Build and Pre-Integration Testing (PIT) | £653,327 |
| Systems Integration Testing (SIT) | £741,071 |
| User Integration Testing (UIT) | £192,290 |
| Implement to Live | £40,699 |
| Post-PIT contingency (25%) | £243,515 |

No impact on operational costs have been identified.

The DCC provided the standalone costs for SIT, UIT and Implement to Live for each modification as part of the DCC Impact Assessment. These can be found attached to the relevant Modification Reports. Now that the scope of the release is confirmed the DCC has completed a combined DCC Impact Assessment providing a combined estimated cost for each of these stages when the modifications and the DCC Change Requests are delivered as a single package.

SECAS costs

SECAS will incur two days effort, equating to around £1,200, to update and implement the changes to the SEC. SECAS estimates a maximum of 20 days of effort, equating to around £12,000, will be needed for project management of the release. This cost has already been accounted for in the SECAS budget, and so Parties will not incur any additional costs.

6. Acceptance criteria

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

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 Panel on whether to implement the release as planned. The Panel will review these recommendations and will determine then if the release should or shouldn't be implemented as planned.

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 | 09 May 19 | First draft issued to the Technical Architecture and Business Architecture Sub-Committee (TABASC), the Operations Group and SEC Parties for comment. |
| 0.2 | 12 Sep 19 | Updated draft issued to the TABASC, the Operations Group and SEC Parties for comment. |
| 0.3 | 04 Oct 19 | Updated draft following comments from the TABASC and the Operations Group presented to Panel to be baselined. |
| 1.0 | 11 Oct 19 | Version baselined by the Panel to cover the proposed scope of the release on the DCC Systems. |
| 1.1 | 10 Jan 20 | Updated draft presented to Panel to be baselined. |
| 2.0 | 20 Jan 20 | Version baselined by the Panel to cover the proposed scope of the release on the SEC documentation and the revised acceptance criteria. |
| 3.0 | 25 Feb 20 | Updated for the approval of SECMP0062. |
| 3.1 | 06 Mar 20 | Updated draft presented to the Panel to include updated costs and timelines for approval and for the rejection of MP079. |
| 4.0 | 18 Mar 20 | Updated to include updated release costs, updated timeline and the approved TAD. MP114 added to the scope of the release by the Panel as an exception. |
| 5.0 | 24 Apr 20 | Updated to reflect the change of implementation date and for MP084 and MP088 no longer being in scope due to the Authority decisions missing the cut-off dates. |

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 |
| Alt HAN | Alternative Home Area Network |
| DCC | Data Communications Company |
| MOC | Middle Operating Capability |
| PIT | Pre-Integration Testing |
| RID | Release Implementation Document |
| SEC | Smart Energy Code |
| SECAS | Smart Energy Code Administrator and Secretariat |
| SIT | System Integration Testing |
| SMETS | Smart Metering Equipment Technical Specifications |
| TABASC | Technical Architecture and Business Architecture Sub-Committee |
| TAD | Testing Approach Document |
| TAG | Testing Advisory Group |
| UIT | User Integration Testing |



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