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November 2022 SEC Release (3 November 2022)

SEC Release Implementation Document

Version 10.0

27 October 2022



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.

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This document also has one annex:

- **Annex A** contains the Data Communication Company's (DCC's) SEC Release Testing Approach Document (TAD) for this release. This document is provided separately to this RID.

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.
- [MP109 'ADT and Exit Quarantine file delivery mechanism'](#) replaces the main delivery method of emails for Anomaly Detection Threshold (ADT) File and Exit Quarantine files with the use of the DCC SharePoint.
- [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).
- [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 SSL'](#) 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.
- [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.

- [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.
- [MP193 'Incorporation of Category 3 Issue Resolution Proposals into the SEC – Batch 6'](#) will incorporate six non-DCC System impacting IRPs/Change Resolution Proposals (CRPs) into the SEC.
- [MP203 '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.
- [MP204 'Incorporation of Category 3 Issue Resolution Proposals into the SEC – Batch 8'](#) proposes to incorporate ten non-DCC System impacting IRPs into the SEC.
- [MP212 'Housekeeping changes 2022'](#) proposes to correct minor errors and inconsistencies identified in several SEC documents.

No further modifications are expected to be added to the scope of this release.

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.

SEC Party and DCC impacts

Participant impact matrix					
Modification	Suppliers	Electricity Networks	Gas Networks	Other SEC Parties	DCC
SECMP0015	✓		✓	✓	✓
SECMP0056	✓			✓	✓
MP085A		✓		✓	
MP099	✓			✓	✓
MP109	✓	✓	✓	✓	✓
MP129	✓	✓	✓		✓
MP140	✓			✓	✓
MP141	✓	✓	✓		✓
MP143	✓			✓	✓
MP160	✓	✓	✓	✓	✓
MP181				✓	✓
MP193	✓			✓	✓
MP203	✓			✓	
MP204	✓			✓	✓
MP212					

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"> 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.
Supplier Parties	<ul style="list-style-type: none"> 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. 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.

SEC Party impacts	
Participant	Summary of impacts
Electricity Network Parties	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> 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. 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.

DCC impacts	
Area impacted	Summary of impacts
Parse and Correlate	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> The DCC will need to produce the smart asset-related data reports at the TOC, and then bill the recipient through the Explicit Charge.
Self-Service Interface (SSI)	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 F ‘Smart Metering System Requirements’
- Section G ‘Security’
- Section H ‘DCC Services’
- Section J ‘Charges’
- Section K ‘Charging Methodology’
- Section L ‘Smart Metering Key Infrastructure and DCC Key Infrastructure’
- Section M ‘General’
- Section P ‘Production Proving’

- Section T 'Testing During Transition'
- Section X 'Transition'
- Section Z 'The Alt HAN Arrangements'
- Schedule 5 'Accession Information'
- Schedule 6 'Specimen Form of Letter of Credit'
- 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 B 'Organisation Certificate Policy'
- Appendix D 'SMKI Registration Authority Policies and Procedures'
- Appendix E 'DCC User Interface Services Schedule'
- Appendix G 'DCC Gateway Connection Code of Connection'
- Appendix H 'CH Handover Support Materials'
- Appendix I 'CH Installation and Maintenance Support Materials'
- Appendix J 'Enduring Test Approach Document'
- Appendix L 'SMKI Recovery Procedure'
- Appendix O 'SMKI Repository Interface Design Specification'
- Appendix S 'DCCKI Certificate Policy'
- Appendix X 'Registration Data Interface Specification'
- Appendix Z 'CPL Requirements Document'
- Appendix AA 'Threshold Anomaly Detection Procedures'
- Appendix AB 'Service Request Processing Document'
- Appendix AG 'Incident Management Policy'
- Appendix AI 'Self Service Interface Code of Connection'
- Appendix AJ 'SEC Variation Testing Approach Document'

- Appendix AL 'SMETS1 Transition and Migration Approach Document'
- Appendix AN 'SEC Variation Testing Approach Document for BEIS Changes included in the November 2020 SEC Release'
- Appendix AO 'S1SPKM Compliance Policy'
- Appendix AP 'FOC S1SPKI Certificate Policy'
- Appendix AP 'Secure S1SPKI Certificate Policy'
- Appendix AQ 'SEC Variation Testing Approach Document for the CH&N Arrangements'
- Appendix AS 'ECoS Transition and Migration Approach Document'
- Appendix AT 'SMETS1 Cryptographic Key Management Policy'

Each of these documents is affected by the following modifications:

SEC document impact matrix															
Document	SECMP0015	SECMP0056	MP085A	MP099	MP109	MP129	MP140	MP141	MP143	MP160	MP181	MP193	MP203	MP204	MP212
Section A							✓				✓				✓
Section C															✓
Section F							✓								✓
Section G													✓		✓
Section H								✓			✓				✓
Section J															✓
Section K							✓				✓				✓
Section L										✓					✓
Section M															✓
Section P															✓
Section T															✓
Section X															✓
Section Z															✓
Schedule 5															✓
Schedule 6															✓
Schedule 7											✓				
Schedule 8	✓	✓		✓		✓			✓			✓		✓	
Schedule 9	✓	✓	✓									✓		✓	
Schedule 10	✓	✓													
Schedule 11	✓	✓	✓	✓		✓			✓			✓		✓	
Appx B															✓

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SEC document impact matrix															
Document	SECM0015	SECM0056	MP085A	MP099	MP109	MP129	MP140	MP141	MP143	MP160	MP181	MP193	MP203	MP204	MP212
Appx D															✓
Appx E															✓
Appx G															✓
Appx H							✓								✓
Appx I															✓
Appx J															✓
Appx L															✓
Appx O															✓
Appx S															✓
Appx X															✓
Appx Z															✓
Appx AA					✓										
Appx AB															✓
Appx AG															✓
Appx AI															✓
Appx AJ															✓
Appx AL															✓
Appx AN															✓
Appx AO															✓
Appx AP (FOC)															✓
Appx P (Secure)															✓
Appx AQ															✓
Appx AS															✓
Appx AT															✓

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	SECMPT0015	SECMPT0056	MP085A	MP099	MP129	MP143	MP193	MP204
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	✓	✓		✓	✓		✓	✓

On 7 July 2022, the Technical Architecture and Business Architecture Sub-Committee (TABASC) agreed the TS Applicability Tables (TSAT) and the associated versions of the Technical Specifications. Only Sub-Versions will be introduced with no new Principal Versions. A marked-up version of the TSAT is available on the [November 2022 SEC Release webpage](#).

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.
9 Jun 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	
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.

Release implementation timetable		
Date	Event	Notes
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 has been provided as Annex A to this document. This covers the DCC's approach to SIT.

User testing approach

The DCC's SEC Release Testing Approach Document has been provided as Annex A to this document. 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 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 have reviewed the status of the release against these criteria. They have provided a recommendation to the CSC 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 reviewed these recommendations and has determined that the release should 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, MP203 and DP204 to the scope. CR4465 'Feature Switch removal' also removed as it is targeted for a maintenance release.
6.0	17 May 2022	Version baselined by the CSC to cover the full proposed scope of the release. Updated SIT commencement date.
7.0	7 Jul 2022	Updated to note the agreed TSAT and the approval of MP109 and MP193.
8.0	26 Aug 2022	Updated to reflect the approval of MP160, MP181 and MP204, MP167 falling out of scope and MP212 being added to scope.
9.0	11 Oct 2022	Updated to reflect the approval of MP129 and MP212.
10.0	27 Oct 2022	Updated to reflect the approval of MP203 and the removal of MP186 from scope.

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
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

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