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MP143 'Incorporating IRPs into GBCS v3 series'

Modification Report

Version 0.5

7 December 2021

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About this document

This document is a Modification Report. It currently sets out the background, issue, solution, impacts, costs, implementation approach and progression timetable for this modification, along with any relevant discussions, views and conclusions. This document will be updated as this modification progresses.

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This document also has three annexes:

- **Annex A** contains the business requirements for the solution.
- **Annex B** contains the redlined changes to the Smart Energy Code (SEC) required to deliver the Proposed Solution.
- **Annex C** contains the full Data Communications Company (DCC) Preliminary Assessment response.

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1. Summary

This proposal was raised by Terry Jefferson from Energy and Utilities Alliance (EUA).

[MP098 'Incorporation of multiple Issue Resolution Proposals into the SEC - Batch 3'](#) was implemented in the November 2020 SEC Release. It incorporated 20 non-DCC) System impacting Issue Resolution Proposals (IRPs) into the GB Companion Specification (GBCS) v4.0 and the Smart Metering Equipment Technical Specifications (SMETS) 2 documents of that release.

During the development of MP098, there was no material benefit to implement the 18 GBCS impacting IRPs into the GBCS version 3.x series. SEC Parties would like to incorporate these 18 IRPs into the GBCS v3 series as and when a material change necessitates an uplift to the next GBCS v3.x.

During development of MP143 it has become apparent that SEC Parties only require certain IRPs to be included within the GBCS version 3.x series. The scope of this modification is now those five IRPs; IRP589, IRP596, IRP623, IRP631 and IRP642.

The DCC's Preliminary Assessment indicates that implementation will cost between £0 - £150,000, with a lead time of three months for Design, Build and Pre-Integration Testing (PIT). If approved, this modification is targeted for the November 2022 SEC Release. MP143 is currently the only modification proposing an uplift to the GBCS version 3.x series.

This modification will affect all Suppliers, Other SEC Parties and the DCC. It will be progressed as a Self-Governance Modification.

2. Issue

What are the current arrangements?

MP098 introduced 20 non-DCC System impacting IRPs into the GBCS v4.0 and the SMETS Device Level Versioning of 29 November 2020 in the November 2020 SEC Release. To ensure certainty for the industry it was agreed that the 18 GBCS impacting IRPs would not be implemented into the GBCS version 3.x series (to give an uplift to v3.3) as it was deemed not materially beneficial at the time.

What is the issue?

Industry discussion, primarily from meter manufacturers, has noted there should be an option to implement these IRPs into the GBCS version 3.x series in the November 2021 SEC Release. This was not part of the implementation approach consulted upon in MP098.

It was assumed the November 2021 SEC Release would include other material changes to the GBCS version 3.x series. However, this is not currently the case and MP143 is the only active modification proposing to make changes to this series.

Device Manufacturers believe their Devices will not be compliant with the Commercial Product Assurance (CPA) scheme if some of these IRPs are not incorporated into the GBCS version 3.x series.

What is the impact this is having?

If the GBCS version 3.x series continues to be used but these IRPs are not incorporated, the industry efficiencies provided by these IRPs will not be possible.

IRPs identify issues in the SEC Technical Specifications. The IRPs included in this proposal are the same GBCS impacting IRPs included in MP098 (IRP589 and IRP596) and three further IRPs (IRP623, IRP631 and IRP642) that were identified as needing implementation into GBCS version 3.x series.

The remaining IRPs from MP158 and MP098 are no longer in scope of this modification. The IRPs that remain in scope are listed in the table below. The individual IRP details can be found on the SECAS website link [here](#) under document name 'MP143 IRPs for inclusion'.

Non system impacting IRPs		
IRP number	IRP title	Impacted Technical Specification
IRP589	CS02b authentication sequence v0_1	GBCS
IRP596	TransCoS Execution Counters – CS02b query	GBCS
IRP623	Read ALCS Event Log values v2	GBCS
IRP631	Table 7 3 8 - Correction of Inconsistency	GBCS
IRP642	Reclarifying trigger for Alert Code 8F69 v0_2	GBCS

Impact on consumers

If not resolved, some Devices that are installed at consumer premises will not be compliant with CPA certification. These Devices would therefore need to be replaced and disposed of, causing negative environmental impacts.

3. Solution

Proposed Solution

The Proposed Solution is to incorporate these IRPs into the GBCS version 3.x series in the soonest possible Technical Specification impacting scheduled SEC Release.

Based on feedback from Device Manufacturers, the only IRPs that are required to be placed into the GBCS version 3.x series are:

- IRP589 'CS02b authentication sequence'
- IRP596 'TRANSCOS execution counters'
- IRP623 'Read ALCS Event Log values v2'
- IRP631 'Table 7 3 8 - Correction of Inconsistency'
- IRP642 'Reclarifying trigger for Alert Code 8F69 v0_2'

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4. Impacts

This section summarises the impacts that would arise from the implementation of this modification.

SEC Parties

SEC Party Categories impacted			
✓	Large Suppliers	✓	Small Suppliers
	Electricity Network Operators		Gas Network Operators
✓	Other SEC Parties	✓	DCC

Breakdown of Other SEC Party types impacted			
	Shared Resource Providers		Meter Installers
✓	Device Manufacturers		Flexibility Providers

This proposal will impact all SEC Parties due to the implementation of a new version of GBCS v3.x series.

SECAS confirms that none of these IRPs will impact the Communications Hubs. There is a loosening of restrictions on the Communications Hubs but there will not be any forced change as they will already be compliant with the existing specification.

DCC System

Although the IRPs within this Modification Proposal are non-DCC System impacting, an uplift to the GBCS version 3.x series will mean the Data Service Provider (DSP) needs to make changes to their system to recognise the new version as valid.

The Communications Service Providers (CSPs) are not required to have GBCS v3.3 compliant Communications Hubs declared in the Central Products List (CPL) and therefore the impacts upon them are limited to testing the interoperability of their GBCS v3.2 and 4.1 Communications Hubs against GBCS v3.3 Devices.

The full impacts on DCC Systems and DCC's proposed testing approach can be found in the DCC Preliminary Assessment response in Annex C.

SEC and subsidiary documents

The following parts of the SEC will be impacted:

- Schedule 8 'GB Companion Specification'
- Schedule 11 'TS Applicability Tables'

The changes to the SEC required to deliver the proposed solution can be found in Annex B.

Technical specification versions

This modification would introduce a new Sub-Version to the GBCS version 3.x series. Currently, this would result in a new GBCS v3.3.

Consumers

If implemented, this modification will positively impact consumers. Any costs incurred by Parties for disposal of Devices would ultimately be passed onto the consumer. Additionally, removing the need to have Devices removed will mean less site visits to consumers.

Other industry Codes

This modification will not impact any other industry Codes.

Greenhouse gas emissions

If implemented, this modification will positively impact greenhouse gas emission. If not resolved, some Devices that are installed at consumer premises will not be compliant with CPA certification. These Devices would therefore need to be replaced and disposed of, causing negative environmental impacts.

5. Costs

DCC costs

The estimated DCC implementation costs to implement this modification is £0 - £150,000. The breakdown of these costs are as follows:

Breakdown of DCC implementation costs	
Activity	Cost
Design, Build and Pre-Integration Testing (PIT)	£0 - £150,000
Systems Integration Testing (SIT)	TBC
User Integration Testing (UIT)	TBC
Implement to Live	TBC
Application Support	TBC

The DCC has noted that whilst there will be additional costs for SIT and UIT, these are not expected to take the costs for the modification outside of the range provided above.

More information can be found in the DCC Preliminary Assessment response in Annex C.

SECAS costs

The estimated SECAS implementation costs to implement this modification is two days of effort, amounting to approximately £1,200. The activities needed to be undertaken for this are:

- Updating the SEC and releasing the new version to the industry.

SEC Party costs

This modification will not incur any direct SEC Party costs. However, should Parties choose to uplift to a new version of the GBCS, they would incur a cost, but this would include all other modifications associated with this uplift. SEC Party views will be gained during the Refinement Consultation.

6. Implementation approach

Recommended implementation approach

SECAS is recommending an implementation date of:

- **3 November 2022** (November 2022 SEC Release) if a decision to approve is received on or before 3 May 2022; or
- **2 November 2023** (November 2023 SEC Release) if a decision to approve is received after 3 May 2022 but on or before 2 May 2023.

As this modification impacts the GBCS, it should be implemented alongside other GBCS changes to prevent new versions being created unnecessarily. However, currently MP143 is the only modification proposing an uplift to the GBCS version 3.x series. The November 2022 SEC Release is the earliest release this modification can be targeted for. The DCC has highlighted they will require three months for Design, Build and PIT. The full timescales will be confirmed within the full Impact Assessment.

If a decision is not received in time for the November 2022 SEC Release, it will be targeted for the November 2023 SEC Release, which is the next release expected to contain SEC Technical Specification changes.

7. Assessment of the proposal

Observations on the issue

Change Sub-Committee views

The Change Sub-Committee (CSC) agreed the issue was clear. During the September 2020 CSC meeting, the Proposer advised that the reason for raising this modification was to ensure if/when a

material change is required to the GBCS v3.x series, the IRPs could also be incorporated to make Devices more efficient.

The Proposer also noted that the industry would need to consider the consequences of Devices that could not be upgraded and what the Validity Periods of existing versions should be. There is also an ongoing question around what is worth upgrading and creating a new GBCS v3.x version for, which could potentially make Devices non-compliant with the specifications.

Solution development

The initial proposal was raised when SEC Parties expressed a desire for the option to incorporate these 18 IRPs included in MP098 into the GBCS version 3.x series as and when a material change necessitates an uplift to the next GBCS v3.x. The Proposer's initial aim was to target this modification for the November 2021 SEC Release when it was assumed [SECMP0007 'Firmware updates to IHDs and PPMIDs'](#) would be applied to both the GBCS versions 3.x and 4.x series. However, SECMP0007 will only be applied to GBCS v4.x in the November 2021 SEC Release. Consequently, later on in refinement, the Proposer agreed to change target this modification for the November 2022 SEC Release instead.

The Proposed Solution is dependent on the industry's decision on whether a GBCS version 3.x series is required. It is also affected by SEC Parties' preferences on which IRPs should be included within the GBCS version 3.x series, should there be another release.

Should the GBCS version 3.x series be maintained?

DCC and SECAS views

SECAS and the DCC aim to have no more than a single linear uplift to the Technical Specifications where there is a material benefit to minimise disruption to industry. The desired approach is to move forward against the latest version of the given Technical Specification with each change being additive over time on a linear basis, instead of changes to Technical Specifications being made parallel. SECAS worked closely with the DCC via the modification Working Groups to draft the Technical Specifications for the modifications in the November 2021 SEC Release during their refinement. In drafting these, it is assumed these would be applied to the latest GBCS version series only.

SECAS has carried out an investigation into the implementation of a GBCS version 3.x series and have found several risks and impacts of doing so. These are summarised in the points below:

- Implementation approach for parallel versions of the GBCS were not considered as part of the Working Groups or draft legal text changes for the modifications targeted for the November 2021 SEC Release;
- Greater complexity for the DCC to implement and manage GBCS compatibility for a parallel GBCS v3.3 alongside a GBCS v4.1;
- Significant increase in testing permutations of GBCS, SMETS and CHTS combinations for both the DCC and Device Manufacturers, with the DCC needing more emulators for GBCS v3.3;
- Increased document maintenance, with the GBCS v3.3 effectively containing different specifications to the proposed GBCS v4.1; and

- Increased complexity for industry in facilitating parallel versions of the GBCS, each implementing sub-sets of functionality.

The DCC and SECAS also considered the precedent that maintaining the GBCS version 3.x series could set for future releases. This could lead to further parallel versions of the GBCS being supported in the future which would amplify the impacts noted above. This significantly increases the complexity of managing each release for the DCC and management of GBCS compatibility for all Users, as all Parties would have to manage multiple GBCS combinations, with each version containing different functionality.

The DCC also advised that uplifting the GBCS version 3.x series as well as the GBCS version 4.x series would have Communications Hub impacts. Further definition would be required to determine the obligations on the DCC relating to supporting Communications Hubs against any extension to the GBCS v3.x series i.e. would DCC need to release new Communications Hub firmware to ensure compliance to any new GBCS v3.3. This would impact DCC implementation plans for the November 2021 SEC Release.

Risk to the delivery of the November 2021 SEC Release

All of the above impacts would present a risk to the implementation of the November 2021 SEC Release if MP143 was approved for this release.

Taking into consideration the Working Group discussions, the DCC had always assumed that only the GBCS version 4.x series would be impacted by this release as it seeks to maintain the approach of only have a single GBCS series, which we agree with.

Any additional implementation of a parallel GBCS version 3.x series in the form of GBCS v3.3 would need to be progressed as a change to the existing November 2021 SEC Release scope. It will therefore need to be Impact Assessed by all impacted Parties to determine impacts of implementation timescales and associated costs. This has the potential to result in added implementation time and effort for the DCC and its Service Providers, which it may not be able to mitigate in order to prevent a delay to the November 2021 SEC Release.

TABASC views

SECAS provided the TABASC with an update on the November 2021 Technical Specification Applicability Table (TSAT) versions¹. SECAS recommended that MP143, if approved, will only be implemented in the November 2021 release if another change to the GBCS version 3.x series is also approved for inclusion that MP143 can go in alongside, which is dependent upon industry preferences. SECAS highlighted the risks of introducing a GBCS v3.3 and recommended that the GBCS version 3.x series was not uplifted.

A TABASC Member advised that the original concern for Meter Manufacturers was that there was no plan for older versions of the GBCS to be made obsolete, with multiple versions of the standards coexisting.

A further concern was that some of the changes implemented into GBCS v4.0 were not implemented into the GBCS v3.x series, and that this may result in compliance challenges for manufacturers. The

¹ Please see TABASC paper TABASC_62_0402_08 for more details

TABASC Member advised that they will gather views from the EUA and report their findings back to SECAS to share with the TABASC.

A TABASC Member highlighted a concern that they were yet to receive GBCS v3.2 Dual Band Communications Hubs and they were not expecting those from Arqiva until December 2021. If the GBCS starts to cut off at v3.2 then this may cause maintenance issues. The TABASC Chair agreed that more needs to be done with the DCC to speed up the delivery of GBCS v3.2 compliant Communications Hubs but believed this issue should be handled separately from whether both GBCS v3.x and GBCS v4.x series are maintained.

The TABASC Chair added that the GBCS 4.x series changes had Device behaviour impacts but did not impact the behaviour of Communications Hubs. They were reasonably comfortable with continuing with just the GBCS v4.x series, subject to the views of the EUA and the British Electrotechnical and Allied Manufacturers Association (BEAMA).

EUA views

SECAS highlighted the risks of uplifting the GBCS version 3.x series in the November 2021 SEC Release and recommended that this does not occur. SECAS also asked the EUA to consider that MP143 would be the only modification causing this uplift.

EUA members expressed their need for several of the IRPs included in MP098 to be implemented in the GBCS version 3.x series. This was due to the desire to keep operating on the GBCS version 3.x series whilst ensuring the specification reflected the current behaviour of Devices, ensuring Device compliance.

The Proposer did not agree that the impacts listed would have a material impact on the DCC or Parties and were strongly opposed to no longer maintaining the GBCS v3.x series. They advised that two of the IRPs in question were essential from a Commercial Product Assurance (CPA) / compliance perspective:

- IRP589 'CS02b authentication sequence'
- IRP596 'TRANSCOS execution counters'

BEAMA views

Following the TSIRS meeting on 8 July 2021, MP143 was discussed, and a request was made for an ESME manufacturer view from BEAMA members. BEAMA consulted with members and reiterated their position that BEAMA currently supports the need for GBCS 3.x series. BEAMA also requested more clarity around what moving to GBCS 4.x series requires that is understood by the whole industry. Different parties appear to have different views, hence whether the move to GBCS 4.x series requires Auxiliary Proportionate Control (APC) functionality and maybe other functionality to be present or not, which represent a hardware change.

The implication at TSIRS was that the GBCS 4.x series could be implemented without any hardware changes.

Conclusion

Following these discussions, the Proposer has agreed that a version of GBCS series v3.x must be maintained. It is envisioned that version 3.3 will be the last update to this series.

Which IRPs should be in scope?

SECAS advised that all 18 of the non-DCC System impacting IRPs from MP098 were in scope of MP143. They added that the DCC had advised that the number of non-DCC System impacting IRPs had little impact on them. Therefore, SECAS asked the Working Group to consider whether the non-DCC System impacting IRPs within [MP158 'Incorporation of multiple Issue Resolution Proposals into the SEC – Batch 5'](#), which is targeted for implementation in the GBCS v4.x series in the November 2021 SEC Release, should be added as well.

IRP623 and IRP631 in the table below were originally within scope of MP158, but were withdrawn from scope as they specifically need to be added to the GBCS v3.x series.

IRP642 was raised following the initiation of this modification. It provides an additional clarification on text that was inserted into GBCS v3.2 as part of SECMP0055 and the Proposer has confirmed they are happy to include this within the modification. SECAS recommended that they were included into the scope of this modification.

MP158 – GBCS v3.x impacting IRPs		
IRP Number	What is the issue?	What is the impact?
IRP623	Clarification is required regarding whether the 'control HAN connected Auxiliary Load Control Switch (ALCS)' command, issued from the ESME to an ALCS or a HAN Connected Auxiliary Load Control Switches (HCALCS), has an associated entry in the ALCS Event Log for both calendar driven events and remote party commands.	This is causing ambiguities in the scenarios in which the Device is meant to record entries into the ALCS Event Log.
IRP631	The Device Language Message Specification (DLMS) Device Requirements (for ESME) which are contained in GBCS v4.0 are not reflected in GBCS v3.x. This IRP aims to incorporate the changes in DLMS Device Requirements (for ESME) that have been baselined on GBCS v4.0 into GBCS v3.x.	This is causing inconsistency between GBCS v4.x and GBCS v3.x.
IRP642	The Alert with Alert Code 0x8F69 need only be sent when a GSME first establishes full communications with a CHF, so has first completed CBKE and tunnel establishment. The GBCS text does not specify this.	Devices could be designed to send Alerts for every tunnel establishment.

The Proposer and a Device Manufacturer questioned the benefit in including all of the non-DCC System impacting IRPs from MP098 and MP158, noting that some of them could have Device Manufacturer impacts. They clarified that they only sought IRP589 and IRP596 to be implemented in the GBCS v3.x series considering feedback from other Device manufacturers.

A manufacturer advising from an Electricity Smart Metering Equipment (ESME) perspective noted the need for IRP631 'Table 7 3 8 - Correction of Inconsistency' which has been discussed at the Technical Specification Issue Resolution Sub-group (TSIRS). The IRP states that it would be incorporated into the next GBCS 3.x version. SECAS highlighted that IRP631 only impacts ESME and it was agreed the BEAMA should provide a view on its need.

SECAS also presented a similar proposal to TSIRS members following the Working Group, and highlighted the feedback that had been received then.

TSIRS members agreed with the view that not all IRPs from MP098 and MP158 were required for inclusion within the GBCS version 3.x series. Members supported the reduction in scope to just the IRPs that are included within the Proposed Solution.

BEAMA also confirmed their agreement that the IRPs 589, 596, 623, 631 are the only ones that need to be included within the modification.

EUA contacted its members who had no objections to the inclusion of the new IRP642 within this modification.

Conclusion
<p>Only the following IRPs should be included within the scope of this modification:</p> <ul style="list-style-type: none"> • IRP589 'CS02b authentication sequence' • IRP596 'TRANSCOS execution counters' • IRP623 'Read ALCS Event Log values v2' • IRP631 'Table 7 3 8 - Correction of Inconsistency' • IRP642 'Reclarifying trigger for Alert Code 8F69 v0_2'

Should GBCS v3.x series be end dated?

One Working Group Member wanted clarification on whether the plan is to bring GBCS v3.3 alongside GBCS v3.2, or to make GBCS v3.2 obsolete. SECAS advised it would not propose end-dating GBCS v3.2 if an uplift to GBCS v3.3 occurred.

Another Working Group Member also questioned if the changes that are coming into effect in the November 2022 SEC Release will warrant an uplift to the GBCS version 3.x series, and when the Installation Validity Periods (IVP) and Maintenance Validity Periods (MVP) will be agreed.

SECAS advised that the Technical Specification versions for the November 2022 SEC Release are yet to be confirmed but that it would consult industry and the Technical Architecture and Business Architecture Sub-Committee (TABASC) on the best approach.

The Proposer and a Device manufacturer confirmed that they would not expect any further uplifts to the GBCS v3.x series following the implementation of the two IRPs in question. They added that this modification could be used in part to end-date previous versions of the GBCS v3.x series if a new Sub Version is added to include the IRPs in question. These include GBCS v3.0, v3.1 and v3.2.

TSIRS members also shared the view that older versions of the GBCS v3.x series could be end dated.

SEC Parties will be consulted on this element as part of the Refinement Consultation.

IRP 613

In July 2021 the Department for Business, Energy, Industrial & Strategy (BEIS) contacted SECAS with regards IRP613 'Clarification for binding on rejoin'. BEIS requested that IRP613 was added to the scope of MP143, for inclusion within November 2021 SEC Release. As the issue relates to the imminent release of GBCS v3.2 compliant Communications Hubs, BEIS felt it would be unacceptable

to wait until November 2022. This would result in a change to the MP143 implementation, bringing it forward from the November 2022 SEC Release to the November 2021 SEC Release.

DCC carried out an impact assessment and confirmed that the addition of these IRPs, as well as IRP613, for inclusion within the November 2021 SEC Release could only be done if they received a decision on MP143 by the end of July 2021.

SECAS could not commit to this request due to the timeline constraints. It was not possible to conduct industry consultations, nor fully investigate the possible impact IRP613 may have had on manufactures and the need for Working Group meetings to discuss it. The Proposer did not wish to add this IRP to the scope of this modification and jeopardise the inclusion of the four IRPs already in scope for inclusion. BEIS has since confirmed that IRP613 will not be introduced into GBCS v3.x and will instead only be added to GBCS v4 series and will be carried out separately to this modification.

Support for Change

TABASC views

Subject to the EUA and BEAMA views, the TABASC initially agreed with the views of the DCC and SECAS that an uplift to the GBCS version 3.x series should not occur. However, following consultation with the EAU, BEAMA and TSIRS, it has become clear manufacturers need to maintain the GBCS version 3 series to ensure compliance with CPA. SECAS will report back to the TABASC following the Preliminary Assessment and Refinement Consultation.

EUA views

EUA engaged with the Meter Manufacturers (and the other EUA Member group) for feedback to identify what IRPs from their perspective are critical. The response received stated that there are only two which have a CPA / compliance perspective, which they believe are essential and therefore needs to be incorporated in to a GBCSv3.x version.

BEAMA views

BEAMA consulted with members and reiterated their position that BEAMA currently supports the need for GBCS 3.x series.

Working Group views

The Working Group were presented with the benefits and potential costs of the modification following the Preliminary Assessment. The Working Group agreed that the modification should progress.

Views against the General SEC Objectives

Proposer's views

Objective (a)²

The Proposer believes that this modification will better facilitate SEC Objective (a) as the implementation of the IRPs will reduce the risk of future operational issues arising.

Industry views

The Working Group agreed with the Proposer that this modification will better facilitate SEC Objective (a). Further industry views will be sought during the Refinement Consultation.

Views against the consumer areas

Improved safety and reliability

If implemented, this modification will have a neutral impact against this consumer area.

Lower bills than would otherwise be the case

If implemented, this modification will have a neutral impact against this consumer area.

Reduced environmental damage

If implemented, this modification will have a positive impact against this consumer area as potentially non-compliant Devices would not need to have been removed and disposed.

Improved quality of service

If implemented, this modification will have a neutral impact against this consumer area.

Benefits for society as a whole

If implemented, this modification will have a neutral impact against this consumer area.

Appendix 1: Progression timetable

This modification will now be issued for Refinement Consultation. The Consultation responses will then be discussed at the Working Group and the full impact Assessment will be requested.

² Facilitate the efficient provision, installation, operation and interoperability of smart metering systems at energy consumers' premises within Great Britain.

Timetable	
Event/Action	Date
Draft Proposal raised	18 Sep 2020
Presented to CSC for initial comment	29 Sep 2020
Modification discussed with Working Group	6 Jan 2021
Modification discussed with TABASC	4 Feb 2021
Modification discussed with EUA	16 Feb 2021
Modification discussed with BEAMA	Apr 2021
Modification discussed with Working Group	7 Jul 2021
DCC Preliminary Assessment requested	7 Sep 2021
Preliminary Assessment discussed with Working Group	1 Dec 2021
Refinement Consultation	7 Dec 2021 – 4 Jan 2022
Preliminary Assessment discussed with TABASC	6 Jan 2022
Impact Assessment requested	26 Jan 2022
Impact Assessment returned	21 Feb 2022
Impact Assessment discussed with Working Group	2 Mar 2022
Impact Assessment discussed with TABASC	3 Mar 2022
Modification Report approved by CSC	15 Mar 2022
Modification Report Consultation	16 Mar 2022 – 5 Apr 2022
Change Board vote	20 Apr 2022

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
APC	Auxiliary Proportionate Control
BEAMA	British Electrotechnical and Allied Manufacturers Association
CPA	Commercial Product Assurance
CPL	Central Products List
CSC	Change Sub-Committee
CSP	Communications Service Provider
DCC	Data Communications Company
DSP	Data Service Provider
ESME	Electricity Smart Metering Equipment
EUA	Energy and Utilities Alliance
GBCS	Great Britain Companion Specification
IRP	Issue Resolution Proposal

Glossary	
Acronym	Full term
IVP	Installation Validity Period
MVP	Maintenance Validity Period
PIT	Pre-Integration Testing
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
TSIRS	Technical Specification Issue Resolution Sub-group
UIT	User Integration Testing