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MP247

‘Future Dating of Service Requests for SMETS1 Devices’

Modification Report

Version 0.4

18 September 2024



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 six annexes:

- **Annex A** contains the business requirements for the Proposed Solution.
- **Annex B** contains the full Proposed Solution DCC Preliminary Assessment response
- **Annex C** contains the full Proposed Solution DCC Preliminary Assessment costings (**RED**)
- **Annex D** contains the business requirements for the Alternative Solution.
- **Annex E** contains the full Alternative Solution DCC Preliminary Assessment response
- **Annex F** contains the full Alternative Solution DCC Preliminary Assessment costings (**RED**)

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1. Summary

This proposal has been raised by Rosie Davies from the Data Communications Company (DCC).

It is possible for the majority of Smart Metering Equipment Technical Specifications (SMETS) 1 Devices to receive Future Dated Service Requests and hold them at the Device to be executed at the specified time and date. However, there is also a clause within the Smart Energy Code (SEC) that states that Future Dated Requests for SMETS1 Devices are required to be held by the DCC and released accordingly to meet their specified date. This means that even if a DCC User sends a Service Request (SR) in advance of the execution date, these requests are held at the Data Service Provider (DSP) and released once the execution date and time of the request is due.

Whilst there is existing functionality within DCC systems to control the rate at which these requests are released, there is no obligation for Suppliers to send Future Dated Requests and Supplier behaviour seen by the DCC is to send the requests as on-demand requests.

The DCC has investigated Device capability with Manufacturers and advised that all of the SMETS1 Devices currently have some capacity to support Future Dated Service Requests, but it is prevented by the clause in SEC Appendix AD 'DCC User Interface Specification' (DUIS).

In times of peak traffic, such as price change events, there are a large number of SRs sent through DCC systems in a very short period of time. This short-term peak in capacity usage has caused incidents for SMETS1 Service Providers (S1SP) during previous events, although work is on-going to mitigate this. Due to the short-term nature of the increased load, capacity that was provisioned to support this peak would be unnecessary at other times. This would result in an increased cost to industry with there being little benefit realised.

The Proposer argues that allowing Users to send SRs to SMETS1 Devices in advance of these events would help to smooth the peak usage on the DCC system and reduce likelihood of incidents.

The Proposed Solution is to allow DCC Users to send Future Dated Service Requests to SMETS1 Devices without being held at the DSP, for SRV 1.1.1 'Update Import Tariff (Primary Element)', SRV 1.2.1 'Update Price (Primary Element)', SRV 1.6 'Update Payment Mode', SRV 2.1 'Update Prepay Configuration', SRV 6.4.1 'Update Device Configuration (Load Limiting General Settings)' and SRV 11.3 'Activate Firmware'.

The Alternative Solution is to allow DCC Users to send Future Dated Service Requests to SMETS1 Devices without being held at the DSP, for only SRV 1.1.1 'Update Import Tariff (Primary Element)' and SRV 1.2.1 'Update Price (Primary Element)'.

This modification will impact Suppliers and the DCC. If approved, this modification is targeted for the June 2026 SEC Release and will be progressed as a Self-Governance Modification. The estimated cost of the DCC System changes up to the end of Pre-Integration Testing (PIT) for the Proposed Solution is between £3,500,000 and £3,800,000, and the Alternative Solution is between £1,250,000 and £2,100,000.

2. Issue

What are the current arrangements?

Service Requests sent by DCC Users are either 'on-demand', 'future-dated' or 'scheduled'. The DCC User Interface Services Schedule (UISS) identifies these Service Requests as:

- 'future-dated' - User specifies the relevant time and date for execution (also known as "Future-Dated Services");
- 'scheduled' User sends specifies the initial time and date for execution as well as the frequency at which execution is to recur ("Scheduled Services"); or
- 'on-demand' – User specifies the SR to be executed immediately.

However, SEC Appendix AD 1.4.4 states:

Future Dating of Service Requests for SMETS1 Devices

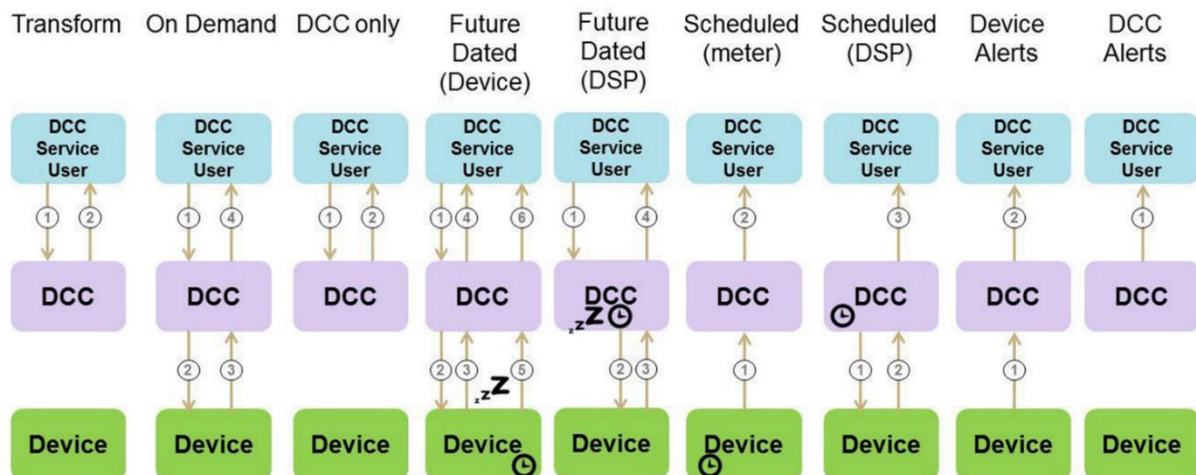
Where, as identified in clause 3.1 (Service Request Matrix), a SMETS1 Service Request has a Future Dated Response Pattern of 'Device', the DCC, and not the Device, shall undertake the required processing to implement the future dating, in line with the requirements of the Service Request Processing Document.

SEC Appendix AD categorises Future-Dated Services further:

- Future Dated Response Pattern (Device) - The DCC immediately sends the Command associated with the received SR to the Device. The Command is then stored on the Device and to be executed at the specified date/time in the future by the Device.
- Future Dated Response Pattern (DSP) - The DCC holds the SR and sends the Command to the specified Device at the specified date/time in the future.

This means that all Future Dated Requests for SMETS1 Devices are effectively Future Dated Response Pattern (DSP).

The following diagram from DCC User Gateway Interface Design Specification (DUGIDS) Section 2.3 shows the interactions between DCC Users and Devices of the variations of Service Request:



There is existing functionality within DCC systems to control the rate at which the SMETS1 requests are released to Devices, however when the volumes are very high, it takes a considerable time to run through all the SRs for that day. Current User behaviour seen by the DCC, is to send both SMETS1 and SMETS2 requests as on-demand requests, which could potentially be due to a User's mixed Device portfolio.

What is the issue?

The DCC has investigated Device capability with Manufacturers and advised that all SMETS1 Devices currently have some capacity to support Future Dated Service Requests. If Devices can receive Future Dated Service requests, it would be sensible that the SEC wording would not hinder this capability.

The DCC is currently in the process of migrating SMETS1 Devices onto their network. Once this migration is complete, it is expected there will be approximately 13-15 million SMETS1 Devices that could possibly use Future Dated Service Requests which will go direct to the Devices. Without the proposed change, these Service Requests will continue to be held with the DSP and handled as an On-Demand Service Request when the date on the Service Request is reached. This will continue to contribute to large spikes in DCC traffic.

The DCC currently has SMETS1 SMS Overage charges to support spikes in traffic, and this modification would help reduce the need for some of this.

What is the impact this is having?

There are certain periods where the DCC receives a very large amount of traffic. In a scenario where there is a price change event for example, there are a large number of SRs sent through DCC systems in a very short period of time as Suppliers seek to update pricing and/or tariff information on Devices on the same date. This short-term peak in capacity usage has caused incidents for S1SP during previous events (though work is on-going to mitigate this). Due to the short-term nature of the increased load, capacity that was provisioned to support it would be unnecessary at other times. This would result in an increased cost to industry with there being little benefit realised.

Historically, price change events occur at infrequent intervals, and Ofgem has stated its desire to move to four monthly price change events per year. While the price control event is relatively short-term, DCC has suspended specific daily reads as a mitigation.

The DCC Services, as per its licence, are managed under the Price Control arrangements, which are overseen by Ofgem and measured by the Ofgem Operational Performance Regime (OPR). If the DCC fails to meet System performance, Ofgem may determine a reduction in the baseline margin that the DCC may retain for the Regulatory Year.

Impact on consumers

There is impact on all consumers, if there is a delay in receiving the relevant tariff change SRs on time and therefore are not being charged accurately.

3. Solutions

Proposed Solution

The Proposed Solution is to allow DCC Users to send Future Dated Service Requests to SMETS1 Devices without being held at the DSP, for the below list of Service Requests:

Service Requests		
SRV Ref	SRV Name	Device Type
1.1.1	Update Import Tariff (Primary Element)	ESME / GSME
1.2.1	Update Price (Primary Element)	ESME / GSME
1.6	Update Payment Mode	ESME / GSME
2.1	Update Prepay Configuration	ESME / GSME
6.4.1	Update Device Configuration (Load Limiting General Settings)	ESME
11.3	Activate Firmware	ESME / GSME / HCALCS

Alternative Solution

The Alternative Solution is to allow DCC Users to send Future Dated Service Requests to SMETS1 Devices without being held at the DSP, for only SRV 1.1.1 'Update Import Tariff (Primary Element)' and SRV 1.2.1 'Update Price (Primary Element)'.

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

All Service Requests targeted for this modification can only be sent by Suppliers.

As both solutions will require the DSP to process the Future Dated Service Requests targeted in a different way, the DCC is also impacted by this modification.

DCC Systems

DCC System changes

Both solutions will have impacts on the DSP to cancel all Future Dated (Device) Service Requests when there's a Change of Supplier (CoS) and the timeout for affected SRVs to be extended.

The full impacts on DCC Systems and DCC's proposed testing approach can be found in the full Proposed Solution DCC Preliminary Assessment response in Annex B and the Alternative Solution DCC Preliminary Assessment response in Annex D.

DCC System traffic

The DCC notes this will significantly reduce system load at times of peak network traffic such as Price Control Events, may avoid the need to update SMETS1 Service Provider infrastructure, and reduce the likelihood of scheduled Service Requests are not in place by the end of the Price Control Event days.

SEC and subsidiary documents

The following parts of the SEC will be impacted:

- Appendix AD 'DCC User Interface Specification'

The changes to the SEC this will only be provided as part of the DCC Impact Assessment.

Technical specification versions

This modification will impact Appendix AD 'DCC User Interface Specification' (DUIS). The proposed changes will be made clear after the Impact Assessment is returned by the DCC.

Devices

Devices impacted			
✓	Electricity Smart Metering Equipment	✓	Gas Smart Metering Equipment
	Communications Hubs		Gas Proxy Functions
	In-Home Displays		Prepayment Meter Interface Devices
	Standalone Auxiliary Proportional Controllers	✓	Home Area Network Connected Auxiliary Load Control Switches
	Consumer Access Devices		Alternative Home Area Network Devices

The Proposed Solution impacts ESMEs, GSMEs and HCALCs, as the SRs included in the solution only targets these Devices.

Alternative Solution would only impact ESMEs and GSMEs, as SRVs 1.1.1 and 1.2.1 is only targeted for these Devices.

Consumers

This modification should have a positive impact on Consumers it would help ensure all Consumers are on the correct tariffs on Price Control Event days, with minimal to no delay.

Other industry Codes

This modification will not impact any other industry Codes.

Greenhouse gas emissions

This modification will not impact greenhouse gas emissions.

5. Costs

DCC costs

The estimated DCC implementation costs to implement this modification is set out below. The breakdown of these costs are as follows:

Breakdown of DCC implementation costs – Proposed Solution	
Activity	Cost
Design, Build and Pre-Integration Testing (PIT)	£3.5m - £3.8m
Systems Integration Testing (SIT)	TBC
User Integration Testing (UIT)	TBC
Implement to Live	TBC
Application Support	TBC

More information can be found in the full Proposed Solution DCC Preliminary Assessment response in Annex B and the full Proposed Solution DCC Preliminary Assessment costings in Annex C.

Breakdown of DCC implementation costs – Alternative Solution	
Activity	Cost
Design, Build and Pre-Integration Testing (PIT)	£1.25m – £2.1m
Systems Integration Testing (SIT)	TBC
User Integration Testing (UIT)	TBC
Implement to Live	TBC
Application Support	TBC

More information can be found in the full Alternative Solution DCC Preliminary Assessment response in Annex E and the full Alternative Solution DCC Preliminary Assessment costings in Annex F.

The DCC have indicated that the Proposed Solution and Alternative Solution would expect to incur significant regression testing costs for S1SPs.

SECAS costs

The estimated SECAS implementation cost to implement this as a stand-alone modification is one days of effort, amounting to approximately £600. This cost will be reassessed when combining this modification in a scheduled SEC Release. The activities needed to be undertaken for this are:

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

SEC Party costs

SEC Party costs will be sought as part of the Refinement Consultation.

6. Implementation approach

Recommended implementation approach

SECAS is recommending an implementation date of:

- **25 June 2026** (June 2026 SEC Release) if a decision to approve is received on or before 25 June 2025; or
- **24 June 2027** (June 2027 SEC Release) if a decision to approve is received after 25 June 2025 but on or before 24 June 2026.

This modification will impact the DUIS. For efficiency, it should be implemented in a scheduled SEC Release along with other DUIS changes, also minimising SEC Party costs. Therefore, the June 2026 SEC Release is the earliest available Release whilst allowing the DCC sufficient time to complete the required build and testing.

7. Assessment of the proposal

Areas for assessment

Current Future-Dating usage

The DCC noted that some Users already use future-dated SRs for SMETS2+ Devices, however the DCC is working with DCC Users to encourage them to move to future-dated requests as much as they possibly can. Initial feedback indicated that current User behaviour for not using SRs as future-dated could be linked to either DCC User internal system restrictions or lack of resource. This will be verified in the Refinement Process.

Business case

The Smart Energy Code Administrator and Secretariat (SECAS) questions whether industry consider it more economical to upgrade DCC System capacity now, which will accommodate large volume events such as Price Changes. As SMETS1 installations decrease this capacity will then be available

for SMETS2 messages. As opposed to industry paying for a SMETS1 system change which will then become obsolete as SMETS1 installations decrease. Although SMETS1 Smart Metering Systems (SMS) are decreasing and will eventually cease, it is envisaged that SMETS1 Devices in the Smart Metering ecosystem will remain in use and relevant for at least another 10 or more years. The Proposer believes that investing now to accommodate Future-Dated SRs for SMETS1 Devices will help smooth out events of high network traffic across the DCC system for the medium-term.

Sub-Committee input

SECAS has engaged with the Chairs from the Operations Group (OPSG), the Technical Architecture and Business Architecture Sub-Committee (TABASC), the Security Sub-Committee (SSC), the Smart Metering Key Infrastructure Policy Management Authority (SMKI PMA) and Testing Advisory Group (TAG) to confirm what input is required from these forums. SECAS believes the following Sub-Committees will need to provide the following input to this modification:

Sub-Committee input	
Sub-Committee	Input sought
OPSG	Input on Proposed Solution and would it support reduction in system traffic by driving behaviour changes for Suppliers
SMKI PMA	We do not believe this has any SMKI impacts
SSC	Feedback on any security impacts based on the Proposed Solution developed
TABASC	Feedback on any potential Technical or Business Architecture impact if the DSP controls where and when the Future Dated SR is sent
TAG	We do not believe this has any testing impacts

Observations on the issue

Early feedback

SECAS has received feedback from Parties querying why there is a request to make changes to SMETS1 Devices. SMETS1 Devices will be replaced with SMETS2 Devices due to 2G/3G sunsetting, and SMETS1 numbers will reduce over the next five to 10 years.

SECAS has also received feedback from SEC Parties noting their support of this modification. One SEC Party noted that over 40% of Devices connected to the DCC are SMETS1 Devices and it would be sometime before SMETS1 meters are a negligible minority. Another SEC Party noted that the Smart Metering estate will likely experience a significant number of SMETS1 Future-Dated price changes over the next five to 10 years, and this modification would provide business benefit if such a capability were enabled. They added that their customers experienced failure of timely price changes in July 2023 due to a Middle Operating Capability (MOC)¹ time-out issue caused by the large spike in network traffic for the SMETS1 price changes. They noted that prepayment consumers suffered financial detriment which needed to be remedied.

¹ The DCC has set out the meaning of Middle Operating Capability in its delivery plan for its SMETS1 services pursuant to Condition 13 of the DCC Licence.

SMETS1 Device with Future-Dating Capabilities

The DCC highlighted that all SMETS1 Devices have some future dating capabilities; however, it is unclear if all SMETS1 Devices have full or partial Future-Dating SR capabilities. In the development stage, the DCC and SECAS investigated further and all but one SMETS1 Device manufacturer has confirmed their SMETS1 Devices have partial Future-Dating SR capabilities (one SMETS1 Device manufacturer noted it has full Future-Dating SR capabilities). The SRs available in the partial capability are those used in high volumes during price change events and therefore the Proposer believes this is strong enough to support the business case to proceed with the modification. (Service Reference Variant (SRV) 1.1.1 'Update Import Tariff (Primary Element)', SRV 1.2.1 'Update Price (Primary Element)' and SRV 6.8 'Update Device Configuration (Billing Calendar)').

Current Future-Dating usage

The DCC noted that some Users already use future-dated SRs for SMETS2+ Devices, however the DCC is encouraging Users to move to future-dated requests as much as they possibly can. Feedback will need to be obtained to understand current User behaviour for not using SRs as future-dated more often.

Solution development

The Proposer has noted a high-level Proposed Solution whereby the DSP will filter incoming Future Dated Response Pattern (DSP) SRs, if the targeted Device has the capability to accept the Future Dated Response Pattern (Device) SR, the DSP will send the SR down to the Device. If the Device is unable to accept Future Dated Response Pattern (Device) SR, the SR will be held at DSP to be sent as per current business as usual (BAU) process. Therefore, the Proposer believes there will be no DCC User business process nor System impact.

Business Requirements

Working Group

In March 2024, the Working Group queried the value of the proposal due to projections that SMETS1 Devices would all be replaced in the next 4-5 years. They added that if this took another 18 months, there is likely no cost benefit to industry, unless the solution was cheap. The Working Group agreed that the business requirements addressed the issue. The Working Group agreed the modification should proceed with the request of the DCC Preliminary Assessment and requested the DCC to provide costs split per S1SP.

TABASC views

In March 2024, the TABASC discussed the relative benefits of the Modification, in particular Energy Suppliers and the way they would view their business processes which involve the use of Future Dated Device SRVs. The TABASC queried if the DCC had factored in how it will handle the Alerts triggered from Devices at the same time due to the Future Dated SRVs. The DCC noted that this will be reviewed as part of the DCC Assessments and solution design. The TABASC noted that it was not clear whether Suppliers will need to make changes to any back-office interfaces or processes to align to the proposals in the modification, SECAS agreed to ensure that a question on expected changes is included in the Refinement Consultation.

The DCC noted the Working Group feedback, in that there could be benefits in breaking down the costs per SMETS1 cohort, although not DSP costs. The DCC noted to target individual cohorts could reduce the overall cost by DCC SPs, therefore, it would be possible to describe costs for individual S1SPs and to provide an indication of the relative costs per cohort under a RED document.

OPSG views

SECAS presented the issue and business requirements to the OPSG, which had no comments.

Proposed Solution DCC Preliminary Assessment

Working Group

In June 2024, the Working Group stated that there is resistance from some DCC Users to use Future Dated SRs and noted even if this modification went ahead, it might not be used. They queried the practical difference this change would make to warrant the cost. The Working Group also noted links to [MP253 'Traffic Management for Price Cap Update Events – User Actions Required'](#) which, if approved, would mandate change in DCC User behaviour to use Future Dated SRs, and this modification could help. The Working Group recommended a Alternative Solution DCC Preliminary Assessment be requested, as they noted if costs were reduced enough, it might make this modification be worth pursuing.

TABASC views

In June 2024, the TABASC noted that they do not currently see any impact on technical and business architecture and were supportive for another request for a DCC Preliminary Assessment with reduced scope.

Alternative Solution DCC Preliminary Assessment

Working Group

In August 2024, one member of the Working Group was in support of the modification as the current DSP Future Dating does not benefit Prepayment Consumers. They added that during Price Change Events, they would want consumers on their new rates as soon as possible, as this would significantly reduce back-office processes for refunds and adjustments to Prepayment Consumers.

The Working Group noted that the number of SMETS1 meters are likely to reduce after SMETS1 migration ends and 4G transition begins. They queried what is the value of taking the peak load off the DCC systems during Price Change Events, as they are aware some DCC Users are doing their best to smooth the peaks. They added that with Market-wide Half-Hourly Settlement (MHHS), the load will only be going upwards.

The Working Group noted that it was not financially clear and would like to see more quantitative benefits before spending the money for the DCC Impact Assessment.

The Working Group were slightly in favour of there being a positive business case with the Alternative Solution, and only one Working Group member was supportive for the Alternative Solution Impact Assessment to be requested.

TABASC views

In August 2024, the TABASC expected Alternative Solution cost to be much lower and noted that any spend on SMETS1 will need to be scrutinised due to finite benefit. They added that using SMETS1 Future Dated (DSP) and change in DCC User behaviour to follow Panel guidance might be sufficient to mitigate peaks in DCC Network traffic.

Proposer/DCC views

The DCC noted the Alternative Solution costs reduced by approximately 55%, and there could still be a business case for the Middle Operating Capability (MOC) cohort, which will be in place till approximately 2033. They added that the Initial Operating Capability (IOC) cohort costs significantly reduced, could benefit for the next four plus years. The DCC noted that that a majority of Large Suppliers already follow Panel guidance, however the DSP Future Dating is not enough to mitigate the existing peaks and does not help Prepayment Consumers during Price Control Events.

SSC views

The SSC has an interest in this Modification and expressed have asked to review the DCC Impact Assessment when it is returned.

8. Case for change

Business case

Implementing this modification will allow Suppliers to ensure their Consumers are on the correct tariffs as early as possible on Price Control Event days.

Some Parties are in support of this modification and further industry views will be sought as part of the Refinement Consultation.

Views against the General SEC Objectives

Proposer's views

The Proposer believes that this modification will better facilitate SEC Objective (a)² and (c)³, as it will enable Consumers to have the correct tariffs during Price Control Event days and reduce the need to correct historic billing.

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

³ Facilitate energy consumers' management of their use of electricity and gas through the provision of appropriate information via smart metering systems.

Industry views

The Working Group were neutral of the modification, further industry views will be sought as part of the Refinement Consultation.

Views against the consumer areas

Improved safety and reliability

This modification will be neutral against safety and reliability for consumers.

Lower bills than would otherwise be the case

This modification will have an indirect positive impact against this consumer benefit area, as it will reduce additional costs that will not be further passed onto consumers.

Reduced environmental damage

This modification will be neutral against reduced environmental damage.

Improved quality of service

This modification will have a positive impact against this consumer benefit area, as Consumers will be on the correct tariffs at the right time.

Benefits for society as a whole

This modification will be neutral against this consumer benefit area.

Appendix 1: Progression timetable

Timetable	
Event/Action	Date
Draft Proposal raised	12 Sep 2023
Presented to CSC for initial comment	19 Sep 2023
Obtained feedback from Device Manufacturers and Suppliers	Sep 2023
<i>CSC converts Draft Proposal to Modification Proposal</i>	21 Nov 2023
Business requirements developed with Proposer	22 Nov – 31 Dec 2023
Modification discussed with the Working Group	6 Mar 2024
Business requirements discussed with TABASC	7 Mar 2024
Business requirements discussed with OPSG	12 Mar 2024
Proposed Solution Preliminary Assessment requested	19 Mar 2024

Timetable	
Event/Action	Date
Proposed Solution Preliminary Assessment returned	30 May 2024
Proposed Solution Preliminary Assessment discussed with Working Group	5 Jun 2024
Proposed Solution Preliminary Assessment discussed with TABASC	6 Jun 2024
Alternative Solution Preliminary Assessment requested	24 Jun 2024
Alternative Solution Preliminary Assessment returned	18 Jul 2024
Alternative Solution Preliminary Assessment discussed with TABASC	1 Aug 2024
Alternative Solution Preliminary Assessment discussed with Working Group	7 Aug 2024
Preliminary Assessment discussed with SSC	28 Aug 2024
Refinement Consultation	18 Sep – 9 Oct 2024
<i>Modification discussed with Working Group</i>	6 Nov 2024
<i>Impact Assessment costs approved by Change Board</i>	20 Nov 2024
<i>Impact Assessment requested</i>	21 Nov 2024
<i>Impact Assessment returned</i>	24 Jan 2025
<i>Modification discussed with Working Group</i>	5 Feb 2025
<i>Modification discussed with TABASC</i>	6 Feb 2025
<i>Modification discussed with OPSG</i>	10 Feb 2025
<i>Modification discussed with SSC</i>	12 Feb 2025
<i>Modification Report approved by CSC</i>	18 Feb 2025
<i>Modification Report Consultation</i>	19 Feb – 12 Mar 2025
<i>Change Board Vote</i>	26 Mar 2025

Italics denote planned events that could be subject to change

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
BAU	Business as usual
CoS	Change of Supplier
CSC	Change Sub-Committee
DCC	Data Communications Company
DUGIDS	DCC User Gateway Interface Design Specification
DUIS	DCC User Interface Services

Glossary	
Acronym	Full term
DSP	Data Service Provider
MOC	Middle Operating Capability
OPR	Operational Performance Regime
OPSG	Operations Group
S1SP	SMETS1 Service Provider
SEC	Smart Energy Code
SECAS	The Smart Energy Code Administrator and Secretariat
SMETS	Smart Metering Equipment Technical Specifications
SMKI PMA	Smart Metering Key Infrastructure Policy Management Authority
SMS	Smart Metering System
SR	Service Request
SRV	Service Reference Variant
SSC	Security Sub-Committee
TABASC	Technical Architecture and Business Architecture Sub-Committee
TAG	Testing Advisory Group
UISS	User Interface Services Schedule