RETAIL ENERGY CODE

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01	Initial Assessment Report
02	Preliminary Change Report
03	Final Change Report

CHANGE REPORT

R0097 - CONSEQUENTIAL CHANGE FOR CSS SMART METER DATA RETRIEVER APPOINTMENTS

CHANGE REPORT	PRELIMINARY
DOCUMENT VERSION	1.0
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RESPONSIBLE COMMITTEE	TECHNICAL EXPERT PANEL	CHANGE PATH	SELF-GOVERNANCE
PRIORITY STATUS	CRITICAL	URGENCY	URGENT

DEADLINE FOR ALTERNATIVE CHANGE PROPOSALS	19/05/2023

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CHANGE OVERVIEW

This change seeks to make amendments to the Data Specification for the Supplier Arranged Appointments messages exchanged between the Electricity Retail Data Service and Central Switching Service.

	High Impact: N/a
	Medium Impact: ERDS Providers
	Low Impact: CSS Provider

CODE MANAGER'S RECOMMENDATION

The Code Manager recommends Change Proposal R0097 is **APPROVED** for implementation on the date that is determined by the MHHS Programme for its Milestone: M8 'Code changes delivered'.

RETAIL ENERGY CODE

CONTENTS

BACKGROUND		
1.	Summary	3
2.	Problem Statement	3
3.	User Stories	3
PROPOSAL		
4.	Proposed Solution	4
5.	Draft Legal Text	5
6.	Summary of Impact Assessment Activity	5
7.	Delivery Against Change Proposal Plan	6
8.	Key Risks, Assumptions, Issues and Dependencies	6
9.	Proposed Implementation Date and Approach	8
10.	Business Case Assessment	9
11.	Case for Change	10
12.	Code Manager's Recommendation	10
13.	Consultation Plan and Next Steps	10
14.	Appendix	11
15.	Glossary	11

RETAIL ENERGY CODE

BACKGROUND

1 BACKGROUND

Change Proposal R0044 'MHHS Programme Changes Required to Central Switching Service' has been progressed to allow for Smart Meter Data Retriever (SMDR) appointment data to be transferred through the Central Switching Service (CSS) to the Smart Meter Data Service Provider (SMDSP), as specified in the design for the Market-wide Half Hourly Settlement (MHHS) Target Operating Model (TOM). R0044 was approved by the Authority on 02 February 2023 for implementation at MHHS Milestone M8 'Code changes delivered. Design, build and test (DBT) for the R0044 solution is in progress and is targeting test completion in readiness for MHHS Systems Integration Testing (SIT).

During the R0044 detailed design, impacted Service Providers and the Code Manager identified a design element that would enable the delivery of the R0044 requirements in full, whilst reducing additional demand on impacted systems and increasing operational efficiency. Change Proposal R0097 has been raised to progress the identified consequential change to the Data Specification and is considered a high priority and a critical dependency to ensuring the successful delivery of the MHHS TOM.

2 PROBLEM STATEMENT

The implementation of Change Proposal R0044 will result in the CSS providing an asynchronous response to the Electricity Retail Data Service (ERDS) upon a successful, or unsuccessful, SMDR appointment within the SMDSP. This will significantly increase the volume of CSS messages, as there is currently no mechanism for the CSS to recognise when a response is required. The increased volume could have a significant impact on central system performance.

3 USER STORIES

REF.	USER STORIES
MARKET PARTICIPANT USER STORIES	
M1	As the CSS Provider, I want to be able to identify which appointment messages received from ERDS require a response, so that I can confirm whether the appointment was successfully made in SMDSP
M2	As the ERDS Provider, I want to be able to indicate which appointment messages I need to receive a response for, so that I can understand which appointments have been successful in the SMDSP
M3	As an Electricity Supplier, I want Supplier appointments in the ERDS to match those held in SMDSP

4 PROPOSED SOLUTION

Whilst undertaking the R0044 detailed design, the CSS Provider identified the need to introduce a mechanism to allow for the identification of SMDR appointment messages. A confirmation response upon a successful, or unsuccessful appointment is required for all SMDR appointments. Failure to introduce a mechanism to differentiate SMDR appointments from other agent appointments would result in CSS responding to all agent appointment messages, increasing message traffic and reducing operational effectiveness.

The Code Manager held several workshops with the CSS Provider, the service provider of the Metering Point Registration System (MPRS) within ERDS and the SMDSP Provider, with all parties agreeing that the approach set out below will ensure the R0044 requirements can be delivered in full.

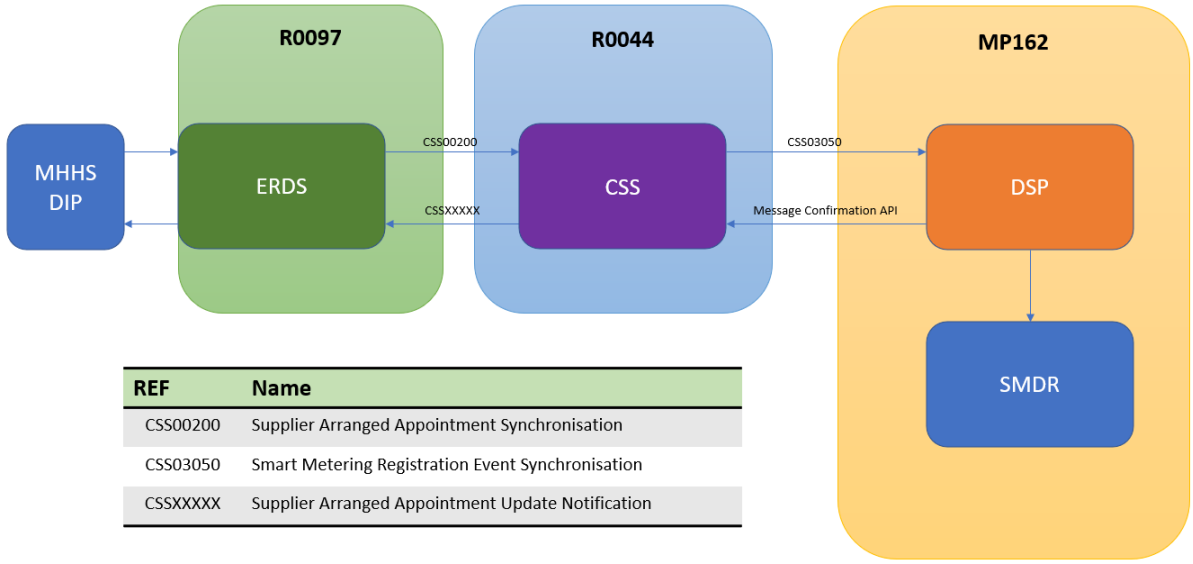
The approach would see the introduction of an 'acknowledgement required flag' parameter to the RECM_SN_CSS00200 (SupplierArrangedAppointments) and the REC_SN_CSS03050 (Smart Metering Registration Event Synchronisation), so that the data owner (ERDS) can specify when a response is required.

The additional data field should be included as an extension to the URL ERDS call for RECM_SN_CSS00200 (i.e., the data field is not in the message, but rather in the address), so that there is no impact to other users of the SupplierArrangedAppointments message, such as the Gas Retail Data Service (GRDS).

Furthermore, the ERDS will also receive a confirmation notification from CSS, notifying that the SMDR appointment has been successful, or unsuccessful. The confirmation message has been included in the R0044 design to capture the CSS Provider changes. Change Proposal R0097 includes the Data Specification and ERDS impacts.

Further details for the proposed solution can be found here.

The diagram below outlines the Change Proposals, and Smart Energy Code modification, that deliver the code changes to facilitate the SMDR appointment end-to-end process.



REF	Name
CSS00200	Supplier Arranged Appointment Synchronisation
CSS03050	Smart Metering Registration Event Synchronisation
CSSXXXXX	Supplier Arranged Appointment Update Notification

5 DRAFT LEGAL TEXT

The legal text changes to deliver the proposed solution to R0097 can be found here.

The legal text changes are to the Data Specification to:

- add the new Data Items 'confirmingMpid', 'confirmationRequired' and 'updateSucceeded';
- update the existing CSS0200 message; and
- add the new CSS##### response message.

6 SUMMARY OF IMPACT ASSESSMENT ACTIVITY

A 25 Working Day Service Provider impact assessment was requested from the ERDS Providers on 22 March 2023.

The Code Manager hosted a solution walkthrough for ERDAs and their service providers on 05 April 2023, to support completion of their impact assessments and provide an opportunity for the ERDAs to confirm their understanding and ask questions.

A summary of the responses received can be found in here:

ERDS PROVIDERS	• Impact Assessment responses provided by ERDAs, their MPRS provider and one CSS Interface Provider (CIP) as the combined service providers for the ERDS. • No concerns raised on the solution or the requirements. • Provision of the CSS reference for the new message, Supplier Arranged Appointment Update Notification, required before the MPRS Provider enters MHHS SIT.

	• Impacts identified to MPRS and CIPs to update the CSS200 and add the new CSS message and data items. • Updates to MPRS for triggering and loading messages. • Updates to the MPRS Switching Adapter Specification required. • DBT costs identified for implementation for the MPRS and CIPs • Limited or no DBT identified beyond the MPRS and CIPs, and none that would incur cost. • One ERDA identified costs associated with User Acceptance Testing to support implementation. • No ongoing operational costs identified. • 6 Months lead time required for MPRS DBT prior to MHHS SIT entry. • Dependency: provision of the CSS Refs for the new Event Type before SIT Entry as MPRS C flow names need to be aligned to CSS Refs. • Assumption: implementation would be at the same time as R0044.

During the initial assessment period for R0097, the CSS Provider confirmed that the R0097 solution would have no additional impacts to CSS, over and above what has already been included in the detailed design for R0044. Therefore, no further impact assessment has been requested from the CSS Provider.

7 DELIVERY AGAINST CHANGE PROPOSAL PLAN

To date all activity has been completed within the planned timescales.

The Change Proposal Plan can be found here.

8 KEY RISKS, ASSUMPTIONS, ISSUES AND DEPENDENCIES

8.1 RISKS AND ISSUES

No.	RISK	NOTES	MITIGATION
R0097.CPP.R002	The ERDS will be unable to identify which asynchronous response relates to which update if two SMDR updates with different outcomes are received	Potential scenario that two SMDR updates are sent with the same registrationID, but have different outcomes, and are sent in quick succession	This risk has been addressed through the solution design.

	within a short time period		
R0097.CR.R003	Concerns with the R0097 solution may not have been identified by CIPs during the impact assessment period	ERDS Provider IA responses were limited and included information from only one CIP	The Code Manager continues to engage with ERDAs and known adaptor service organisations to ensure the technical design is understood and can be delivered.

8.2 ASSUMPTIONS AND DEPENDENCIES

No.	ASSUMPTION	NOTES	HOW/WHEN TO VALIDATE
R0097.CPP.A001	The proposed solution does not impact GRDS	The changes to the CSS messages are restricted to ERDS instances only	Validated by the Gas Retail Data Agent (GRDA) during initial assessment
R0097.CPP.A002	Change Proposal impact is limited to the ERDA adapters	ERDS Provider responses confirmed impacts mainly to MPRS and CIPs, with some limited impact to ERDAs	Not validated. New assumption, A006 added.
R0097.CPP.A003	Technical changes to the REC_SN_CSS03050 are being delivered as part of R0044		Validated in the CSS Detailed Design for R0044
R0097.CPP.A004	CSS impacts are already captured under Change Proposal R0044 to ensure the R0044 requirements can be delivered in full		Validated by the CSS Provider during the initial assessment in the CSS Detailed Design for R0044
R0097.CPP.A005	Service levels for the response messages are not included in the R0097 solution	Service levels for the SMDR appointment messages are likely to be required	Any development will be explored and progressed outside of R0097
R0097.CR.A006	Change Proposal impact is limited to ERDS – mainly to MPRS and	MPRS C flow names need to be aligned to CSS Refs	Validated during the Service Provider impact assessment

	CIPs, with some limited impact to ERDAs		

No.	DEPENDENCY	NOTES	STATUS
R0097.CPP.D001	Failure to implement R0097 will result in the R0044 solution not working as designed and cause significant MHHS Programme delays and downstream costs		Closed
R0097.CPP.D002	Failure to complete R0097 MPRS DBT ahead of SIT entry will result in MHHS Programme delays	Dependency updated	Closed
R0097.CR.D003	CSS reference for the new message, Supplier Arranged Appointment Update Notification, required before the MPRS Provider enters MHHS SIT.		Open – CSS Provider to confirm when reference can be provided

9 PROPOSED IMPLEMENTATION DATE AND APPROACH

PROPOSED IMPLEMENTATION DATE	MHHS Programme Milestone M8 'Code changes delivered'

PROPOSED IMPLEMENTATION APPROACH	BIG BANG

The Code Manager proposes that the implementation date for R0097 is the same as that for R0044 as it provides the Data Specification updates required to reflect the full R0044 solution. R0044 has been approved for implementation on the date that is determined for the MHHS Programme Milestone M8 'Code changes delivered'. By targeting this milestone, R0044 and R0097 will be implemented alongside other REC consequential changes for MHHS, as well as the MHHS code drafting itself. This will ensure alignment across the REC legal text and the system changes across all the MHHS changes to REC Services (ERDS, Electricity Enquiry Service (EES) and CSS).

Although the implementation date for the R0097 amendment to the code will be aligned to M8, similarly to R0044, DBT for ERDS, particularly MPRS will need to be delivered in time for inclusion in MHHS Programme SIT.

10 BUSINESS CASE ASSESSMENT

10.1 COSTS

	DBT & IMPLEMENTATION COSTS	ONGOING OPERATIONAL COSTS
ERDS PROVIDERS	£123,400 - £208,100	NIL

10.2 BENEFITS

The Code Manager considers that change would bring about the following significant intangible benefits in line with the business case for R0044.

INTANGIBLE BENEFITS	BENEFITS DESCRIPTION
MHHS PROGRAMME	Creation of the new SMDR role is a key component of the MHHS Target Operating Model that is being delivered primarily by SEC MP162. R0097 will deliver an amendment to the REC Data Specification that is required in support of the R0044 detailed design. R0044 provides a critical element of how the SMDR role will be governed by facilitating the sharing of SMDR appointment data with SMDSP via the CSS.

10.3 COST BENEFIT ANALYIS SUMMARY

Although there is no cost impact to the REC change budget, it is acknowledged that there is a cost impact expected within the industry, from changes to the ERDS. Costs were not received from all ERDS Providers therefore the costs above reflect an estimation of total cost impact based on those that were provided.

The Data Specification updates and the associated changes that are required to ERDS are essential to the R0044 solution by distinguishing SMDR appointments from those of MEMs. This means the SMDSP can confirm updates of SMDR appointments have been successful, or not, without creating excessive message volumes.

The Code Manager believes that the Change Proposal should be progressed. It is a critical component of the MHHS Design, and without its implementation the success and timeliness of delivery for both SEC MP162 and the MHHS Target Operating Model will be impacted.

11 CASE FOR CHANGE

The Code Manager considers that there is a case for change to implement this Change Proposal, on the basis that:

- the proposed solution is fully formed and appropriately resolves the problem statement;
- the proposed solution through its role in delivery of R0044 and its support for the implementation of MHHS will help to achieve delivery of positive outcomes because of that programme; and
- a positive business case can be made, as set out in section 10 of this report.

12 CODE MANAGER'S RECOMMENDATION

Based on the assessment in section 10 and 11 of this report, the Code Manager considers a positive business case can be made for implementing this solution. The Code Manager therefore recommends that the Technical Expert Panel:

- **APPROVE** the proposed change solution;
- **APPROVE** the proposed implementation approach; and
- **APPROVE** the proposed implementation date which will be that determined by the MHHS Programme for Milestone M8 'Code changes delivered'.

13 CONSULTATION PLAN AND NEXT STEPS

The consultation on this Preliminary Change Report for R0097 will be published on the REC Portal on **19 May 2023** and closes on **05 June 2023.** As set out in the Change Proposal Plan and Initial Assessment Report, a shortened consultation period is considered appropriate to support the urgency of this Change Proposal. It also takes into consideration that the overarching solution requirements have already been considered and approved under R0044.

Following consultation, the Code Manager will produce an updated version of this Preliminary Change Report (referred to as the Final Change Report). This will include the outcome of the consultation, setting out a summary of the consultation submissions and the Code Manager's response.

The Final Change Report will be issued to the Technical Expert Panel to make its determination.

14 APPENDIX

CHANGE PROPOSAL	Link
LEGAL DRAFTING	Link
PROPOSED SOLUTION	Link
RELATED CHANGE(S)	R0044 'MHHS Programme Changes Required to Central Switching Service' Smart Energy Code (SEC) Modification Proposal 162 (MP162) 'SEC changes required to deliver MHHS'

15 GLOSSARY

This glossary details two different sets of terms.

- The first table includes terms and definitions from the REC
- The second table includes terms and definitions from the MHHS Programme which are taken from the MHHS Glossary on the Programme Collaboration Base

TERM	DEFINITION
Asynchronous response	the response that CSS will provide back to ERDS will be provided independently from the original request message, only once the confirmation has been provided to CSS by SMDSP
Central Switching Service (CSS)	means the Systems and processes provided or procured by the CSS Provider for the purpose of providing the Address Management Service and the Registration Service.
CSS Interface Provider (CIP)	means a CSS User who provides an adapter service to enable other CSS Users to connect to and interface with the Central Switching Service. These are often known as 'adaptor services'.
CSS Provider	means the DCC when performing functions under or in relation to this Code (but always excluding its functions under the Smart Energy Code and its roles as CSS Systems Integrator, SI Provider and Switching Operator), including in respect of the Central Switching Service and including in effecting the design, build and testing of any System that will allow it to perform functions under this Code after the CSS Go-Live Date. This role is the CSS Procurer and Manager function as described in the E2E Data Migration Plan, E2E Integration Plan,

	E2E Post Implementation Plan, E2E Testing Plan, E2E Transition Plan: Implementation Approach and E2E Transition Plan: In-Flight Switches Approach.
Data Specification	means the document of that name forming part of the Technical Specification.
Electricity Supplier	means a person holding an Electricity Supply Licence.
Electricity Retail Data Agent (ERDA)	means a provider of a DNO's Electricity Retail Data Service.
Electricity Retail Data Service (ERDS)	means the electricity registration services provided under this Code to support the provision of electricity retail data to the CSS and other services.
Gas Retail Data Agent (GRDA)	means the provider of a Gas Transporter's Gas Retail Data Service.
Gas Retail Data Service (GRDS)	means the gas registration services provided under this Code to support the provision of gas retail data to the CSS and other services.
Market-wide Half Hourly Settlement (MHHS)	Market Wide Half-Hourly Settlement will utilise the ability of smart meters to record a customer's usage during each half hour period to move domestic and small non-domestic customers to half-hourly settlement. Medium and larger non-domestic consumers have been settled half-hourly since BSC modification P272.
Metering Point Registration System (MPRS)	means the System used or procured by each DNO in order to provide the Electricity Retail Data Service in accordance with the REC and / or the Supplier Meter Registration Service in accordance with the BSC.
Smart Meter Data Retriever (SMDR)	Means the new industry role that is being introduced into the REC through R0044. The role is known in the Smart Energy Code and MHHS Programme as Meter Data Retriever.
Smart Meter Data Service Provider (SMDSP)	means the DCC in its role as provider of the Smart Meter Data Service.

TERM	DEFINITION
Market-wide Half Hourly Settlement (MHHS)	Market Wide Half-Hourly Settlement will utilise the ability of smart meters to record a customer's usage during each half hour period to move domestic and small non-domestic customers to half-hourly settlement. Medium and larger non-domestic consumers have been settled half-hourly since BSC modification P272.
MHHS Milestone M8 'Code changes delivered'	This is the milestone at which the consequential changes, required to the industry codes to enact the MHHS Design, will be implemented. The date will be determined and governed by the MHHS Programme.
MHHS Target Operating Model (TOM)	The Target Operating Model is the settlement arrangements designed by the Design Working Group (DWG), and further developed by the Code Change and Development Group (CCDG) and the Architecture Working Group (AWG) that will facilitate Market-wide Half Hourly Settlement.