RETAIL ENERGY CODE

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

CHANGE REPORT

R0044 - MHHS PROGRAMME CHANGES REQUIRED TO CENTRAL SWITCHING SERVICE

CHANGE REPORT	PRELIMINARY
DOCUMENT VERSION	1.0
ISSUED DATE	27/10/2022
DOCUMENT APPROVAL STATUS	APPROVED

RESPONSIBLE COMMITTEE	CHANGE PANEL	CHANGE PATH	AUTHORITY DETERMINED
PRIORITY STATUS	CRITICAL	URGENCY	URGENT

DEADLINE FOR ALTERNATIVE CHANGE PROPOSALS	28/10/2022

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CHANGE OVERVIEW

The Market-wide Half-Hourly Settlement (MHHS) Target Operating Model (TOM) requires that the appointment data of a Smart Meter Data Retriever (SMDR) is available to the Smart Meter Data Service Provider (SMDSP), so that the SMDSP can provide SMDRs with access to the smart meters at Metering Points they are registered to.

Currently the new SMDR role and its appointment data do not exist in, nor can they be made available from, the Central Switching Service (CSS) as this is a new industry operating model.

	High Impact: MHHS Programme
	Medium Impact: Central Switching Service Provider Smart Energy Code
	Low Impact: N/A

CODE MANAGER'S RECOMMENDATION

The Code Manager recommends Change Proposal R0044 is **APPROVED** for implementation on the date that is determined by the MHHS Programme for its Milestone: M8 'Code changes delivered'.

RETAIL ENERGY CODE

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BACKGROUND

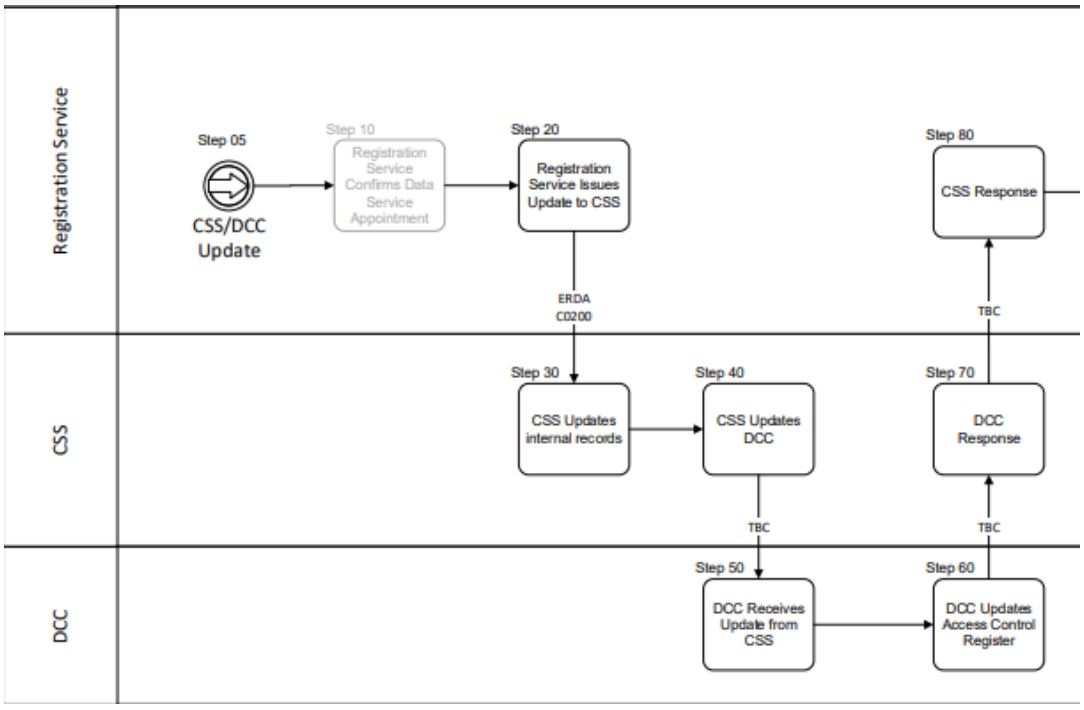
1 BACKGROUND

Ofgem's Electricity Settlement Reform Significant Code Review (SCR) concluded that settling all electricity Consumers on a half-hourly basis would bring net benefits of up to £4.5bn by 2045. As such, Ofgem placed responsibility on Elexon, in its role as the Senior Responsible Owner, to deliver the MHHS Programme. MHHS will be delivered in line with Ofgem's Settlement Reform Programme Plan, which includes key milestones through to 2025.

Delivering the full solution for MHHS will require a new Smart Data Service (SDS) which includes a new industry SMDR role. The SMDR will retrieve data directly from smart meters as a new Data Communications Company (DCC) User Role, as outlined in Smart Energy Code (SEC) Modification Proposal 162 (MP162) 'SEC changes required to deliver MHHS'.

SEC MP162 assumes that the appointment data for an SMDR will be sent from the CSS to the SMDSP Systems to enable the SMDSP to perform access control to smart meters for the new User Role. This will ensure that only registered SMDRs successfully collect data from smart meters to which they are registered.

This REC Change Proposal has been raised to progress the CSS system changes related to the SMDR, specifically the receipt of SMDR appointment data into CSS and the provision of that data to SMDSP. The MHHS Programme provided the high-level design, along with their design assumptions, however the full solution has been developed under this Change Proposal. The MHHS design is detailed in MHHSP-BP-003A[1]:



[1] MHHSP-BP003A-CSSandDCC Update - v3.0. Terminology in this business process diagram is from the MHHS Programme.

The Change Proposal assumes service and system design principles that currently exist for industry appointment data, and the SMDSP's use of this data when performing access control checks for Supplier, Distribution Network Operator (DNO) and registered Supplier Agent appointments against each Metering Point (MPAN or MPRN), will apply.

This Change Proposal is being progressed with an 'urgent' status to minimise the risk of the CSS changes impacting the critical path of the MHHS Programme. R0044 will deliver the specific CSS system changes related to sharing SMDR appointment data and is a consequential change required by the MHHS Programme. SEC MP162 is reliant upon the system interfaces which this change will deliver.

2 PROBLEM STATEMENT

The MHHS Target Operating Model requires that the appointment data of the SMDR is available to the SMDSP, so that the SMDSP can provide SMDRs with access to the Smart Meters at Metering Points they are registered to. Currently the new SMDR role and appointment data do not exist in, nor can they be made available from, CSS as this is a new industry operating model.

3 USER STORIES

REF.	USER STORIES
MARKET PARTICIPANT USER STORIES	
M1	As the SMDSP, I want to be able to validate that an SMDR is registered so that I can provide them with access to the Metering Points to which they are registered.
M2	As an SMDR, I want to be able to access the Metering Points I am registered to so that I can collect settlement data from those meters
M3	As the CSS Provider, I want the CSS to be able to receive notifications from the Registration Service on the appointment/de-appointment of an SMDR so that I can send the appointment data to the SMDSP.
M4	As the CSS Provider, I want the CSS to be able to provide SMDR appointment data to the SMDSP.

PROPOSAL

4 SUMMARY OF ANALYSIS UNDERTAKEN

The solution was not fully defined when this Change Proposal was raised. A period of solution analysis and development was therefore progressed by the Code Manager. This activity included validation of the outline solution and development of requirements for the full solution in collaboration with stakeholders from the MHHS Programme, the SEC Code Administrator, RECCo and REC Service Providers.

5 PROPOSED SOLUTION

5.1 SOLUTION OVERVIEW

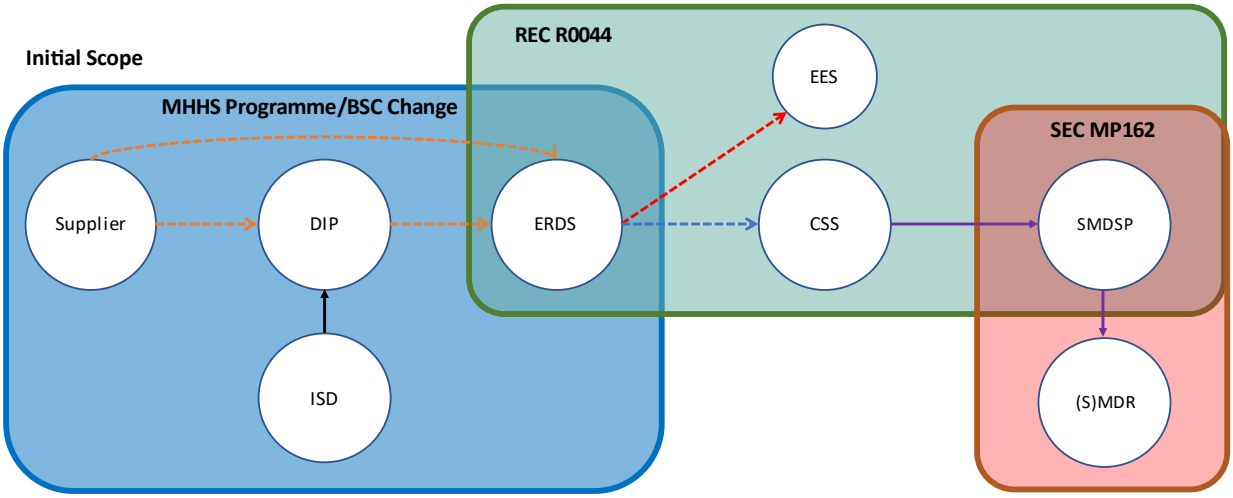
R0044 assumes that future REC consequential changes will be required following confirmation from the MHHS Programme once the full end-to-end process has been defined. This will include the Electricity Retail Data Service (ERDS) and Electricity Enquiry Service (EES) requirements specific to the communication of SMDR appointments and they are out of scope for R0044. R0044 is being progressed to deliver the CSS requirements to facilitate required data migration activities and reduce risk of programme delays.

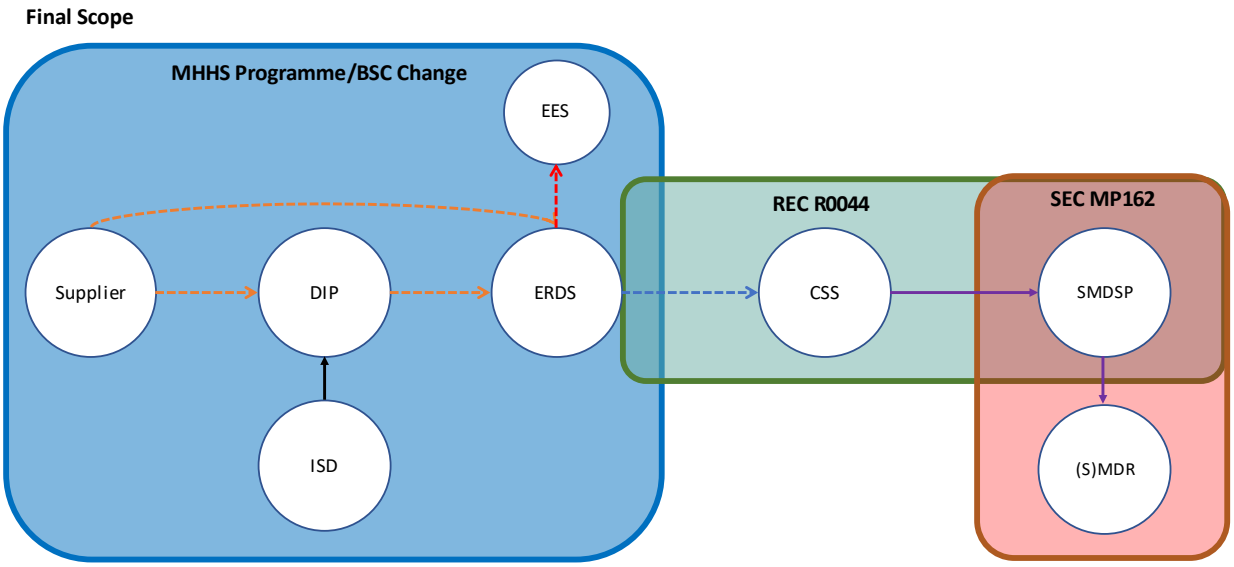
It is proposed that a Meter Data Retriever – MDR as referenced in the MHHS Programme and SEC MP162 – will be defined as a Smart Meter Data Retriever (SMDR) in the REC. This is to provide clarity that, for the purposes of MHHS, a Meter Data Retriever does not relate to all meters or market segments. Going forward, for consistency, this document will use the acronym SMDR to mean the same as MDR under the MHHS Programme and SEC.

5.2 SOLUTION SCOPE CHANGE

This Change Proposal originally included the transfer of SMDR appointment information from the ERDS to the EES. However, following the preliminary impact assessment, the decision was made to de-scope the ERDS interactions from the Change Proposal. ERDS Providers lacked sufficient information in July 2022 on the wider MHHS design to appropriately consider their end-to-end approach and costs which would enable them to complete the impact assessment.

Changes to the ERDS will be managed through the MHHS Programme, with consequential EES changes also delivered within the wider EES MHHS requirements. The proposed solution assumes that the notification message for an SMDR appointment is successfully sent from the ERDS and includes requirements covering successful receipt of messages in CSS.





5.3 TRANSFER OF SMDR INFORMATION FROM ERDS TO CSS

As part of the end-to-end solution, changes will need to be made to the allowable content within the registration appointments message[2] that is transferred from the ERDS to CSS.

MM90011/REC_SN_CSS00200 is used to update the supplier arranged appointments for the Registration. It enables each appointment to be managed as a separate entity if required. The CSS needs to be informed of all the current active supplier arranged appointments whenever they change.

No structural change to the registration appointments message is anticipated, as such the message will retain its current structure:

Route: /registrations/{registrationId}/supplierarrangedappointments

Method: PUT

Body:

[{

"**mpid**": "string", --*

"**role**": "string", --*

"**fromDate**": "string", --*

"toDate": "string“

}]

The solution agreed in the collaborative solution requirements workshops was to amend the allowable values within the “role” data item, to accept a new market role that represents the SMDR. The exact value of the enumeration value that represents the SMDR has yet to be confirmed, however, it is expected to be either “N”, “O”, “Q”, or “Y”. The Balancing and

[2] MM90011/RECM_SN_CSS00200 ‘Supplier Arranged Appointments’

Settlement code will need to raise a Market Domain Data (MDD) Change Proposal to add the new Market Participant Role Code to MDD. This activity is out of scope of R0044.

CSS will need to recognise the new SMDR Role Code, as it does with other Market Participant Role Codes such as “X” being “Supplier” and “M” being “Meter Operator”. However, CSS will not be validating the information that is being provided, other than standard validation of the message structure / valid values / data exists in the Switching Operation Data (SOD). Validation will be undertaken upstream in the ERDS prior to entry into the CSS environment, and downstream upon receipt in the SMDSP environment.

The Code Manager will provide the SMDR role and Market Participant Identifiers (MPID) that have that role as part of the SOD.

5.4 TRANSFER OF SMDR INFORMATION FROM CSS TO SMDSP

The scope of R0044 also extends to the method by which the SMDR information is transferred from CSS to the SMDSP. It has been confirmed by the CSS Provider that the existing interface between the CSS and SMDSP systems will be amended to support the transfer of SMDR information.

The SMDSP is expected to respond with an asynchronous response on both a successful and unsuccessful update of SMDR, leveraging existing message patterns.

6 DRAFT LEGAL TEXT

The legal text changes to deliver the proposed solution to R0044 can be found here.

The solution will be reflected in the legal text through an update to Schedule 27 – RMP Lifecycle. This will add the SMDR to section 5 – Supplier Agent Appointment and Update of Meter Asset Provider.

To reflect the creation of the SMDR role into the REC, Schedule 1 – Interpretations will also be updated:

Smart Meter Data Retriever	SMDR	means the Supplier Agent responsible for retrieving data directly from Smart Meters. SMDR has the same meaning as MDR within the Smart Energy Code.
…		
Supplier Agent		means a Data Aggregator, a Data Collector, Smart Meter Data Retriever or a Metering Equipment Manager.

7 SUMMARY OF IMPACT ASSESSMENT ACTIVITY

7.1 SERVICE PROVIDER IMPACT ASSESSMENTS

As this is an Urgent Change Proposal, all contributing parties have worked to develop a plan that expedites the standard assessment period without compromising the ability to appropriately consider and assess the requirements.

A limited informal preliminary impact assessment was completed with REC Service Providers in early June to gather costs and timescales for completion of a detailed impact assessment by:

- Service providers that form the overall CSS provision under the DCC
- Electricity Enquiry Service (EES) Provider

The preliminary impact assessment was expedited through collaborative workshops during development of the full solution requirements between May to July 2022. A 25 Working Day (WD) detailed impact assessment was then requested from the CSS Provider and a 15 WD impact assessment was requested from ERDS Providers on 11 July 2022.

Following the receipt of the detailed impact assessment response, further activity was required to refine the requirements with the CSS Provider and the MHHS Programme. Following this refinement activity, the detailed impact assessment has been revisited and an updated response was provided by the CSS Provider on 27 September 2022. A summary of their assessment is provided in the following table

CSS PROVIDER	• Confirmed that the solution is viable • Confirmed that the solution for the response from the SMDSP could be provided using current messaging patterns • Provided a breakdown of effort and cost that would enable planning for testing to be appropriately planned with the MHHS Programme for the end-to-end process • Overview of impacts • Aggregated costs for design, build, test, and implementation totalled £297k • Confirmed the solution could be implemented in the approximated timescale of June 2024
ERDS PROVIDERS	• Confirmed that they did not have sufficient information to provide an impact assessment due to the dependency on the wider requirements from the MHHS Programme

An impact assessment was not requested from the EES Provider as this was dependent on receiving specific detail from the ERDS Provider impact assessments. As the ERDS Providers were unable to provide this detail due to the dependency on the end-to-end requirements to be delivered by the MHHS Programme, the EES Provider impact assessment could not be progressed. This has not been progressed subsequently as following Service Provider impact assessments, ERDS and EES requirements have been descoped from the solution.

8 DELIVERY AGAINST CHANGE PROPOSAL PLAN

All activities to date have been completed within the planned timescales.

The Change Proposal Plan can be found here.

9 KEY RISKS, ASSUMPTIONS, ISSUES AND DEPENDENCIES

9.1 RISKS AND ISSUES

No.	RISK	NOTES	MITIGATION
R0044.PCR.R001	Volumes of SMDR appointments do not accurately map across to other agent appointments, such that CSS non-functional requirements and assumption A009 is impacted.		An independent workstream on CSS non-functional requirements is being progressed by the code manager and is considered out of scope for the R0044 release

No issues have been identified.

9.2 ASSUMPTIONS AND DEPENDENCIES

No.	ASSUMPTION	NOTES	HOW/WHEN TO VALIDATE
R0044.PCR.A001	R0044 provides a solution for sharing SMDR appointment data for CSS changes only		Validated through solution refinement and impact assessment
R0044.PCR.A002	ERDS and EES requirements for sharing SMDR appointment data will be delivered under the MHHS Programme		Validated through solution development and impact assessment
R0044.PCR.A003	MHHS Design will be baselined on 31 October, with no changes expected to MHHSP-BP-003A		To be validated following programme design baselining
R0044.PCR.A004	Transfer of SMDR appointment information from CSS to SMDSP is to be made through the existing interface		Validated through impact assessment

R0044.PCR.A005	Validation to take place upstream in SMRS during SMDR appointment process and downstream upon receipt in SMDSP, as such standard error handling without additional validation is sufficient within CSS		Validation dependent on MHHS Programme Progression
R0044.PCR.A006	The allowable values for Data Item 'Market Participant Role Code' (DI50001[3]/J0001) will be updated outside of change proposal R0044, as a BSC owned data item, through a MDD change request		Validation dependent on BSC MDD[4] Change
R0044.PCR.A007	The SMDR role and associated MPIDs with that role will be provided to the RTS so that it can be passed on to CSS via the existing SOD interfaces.		To be validated during design phase
R0044.PCR.A008	No Service Requests will be required as business as usual within ServiceNow, however error handling may require incidents to be raised by exception.		N/A
R0044.PCR.A009	No SMDR Appointment Information, or combination of SMDR IDs and Role Codes, is expected to be hosted in ServiceNow.		N/A
R0044.PCR.A010	Volumes of SMDR appointment messages that are to be transferred between ERDS and		Validated through Impact Assessment responses

[3] Data Item reference in EMAR
[4] Market Domain Data

	CSS, and CSS to SMDSP are expected to be equivalent to that of other agent appointments (such as MEMs or Data Collectors etc.).		
R0044.PCR.A011	There is no direct requirement for the ECoS Service Provider to know of SMDR appointment as the switching process does not need this information		Validated through Impact Assessment responses
R0044.PCR.A012	End-to-end testing for the SMDR appointment process will be delivered under the MHHS Programme	The Code Manager will continue to work with stakeholders to define the details for test planning	Validated through solution development and impact assessment

No.	DEPENDENCY	NOTES	STATUS
R0044.PCR.D001	R0044 is subject to Authority approval of SEC MP162	R0044 is only required if SEC MP162 is approved	Open – the Authority decision on SEC MP162 is expected by the end of November 2022
R0044.PCR.D002	SEC MP162 design is dependent on completion of the detailed design for R0044		Closed

10 PROPOSED IMPLEMENTATION DATE AND APPROACH

PROPOSED IMPLEMENTATION DATE	MHHS Programme Milestone M8 'Code changes delivered'	**PROPOSED IMPLEMENTATION APPROACH**	BIG BANG

The Code Manager proposes an implementation date that is directly linked to the MHHS Programme Milestone M8 'Code changes delivered'. By targeting this milestone, R0044 will be

implemented alongside the REC consequential changes for MHHS therefore ensuring alignment across the REC legal text and the system changes across all the MHHS changes to REC Services (ERDS, EES and CSS).

Dependencies and assumptions between the MHHS Programme, SEC MP162 and this change are captured in section 9 above and engagement will continue across the three into planning, delivery, and release. Activity is underway to determine the specific details on dependencies and hand-offs between them.

The Code Manager will perform test assurance for REC specific Programmer Integration Testing (PIT) and will work alongside the MHHS Programme to maintain oversight of the end-to-end test assurance.

11 BUSINESS CASE ASSESSMENT

11.1 COSTS

	TOTAL COSTS
CSS PROVIDER	£297,000

The Costs provided above include costs associated with integration testing with other providers in the end-to-end SMDR appointment process. These are included for R0044 as a standalone change, however discussions on the testing approach and interaction or handoffs to the MHHS Programme are underway. This may require the testing costs for System Integration Testing (SIT) onwards to be revisited, as part of the MHHS REC impact assessments.

The costs are significantly reduced from the first detailed impact assessment provided, following solution refinement and thorough review between the Code Manager and the CSS Provider.

There are no costs for Parties as this is a central system change only.

There are no costs expected from the Code Manager or RECCo.

11.2 BENEFITS

The benefits for this change are linked to the delivery of the MHHS Target Operating Model. Ofgem have estimated that the MHHS Programme will bring “net consumer benefits of between £1.6bn and £4.5bn over the period 2021-2045”.[5]

The Code Manager does not consider the benefits specifically delivered through R0044 to be quantifiable, but the change would bring about the following intangible benefits.

[5] Decision to approve Retail Energy Code modification R0003: Market-Wide Half-Hourly Settlement Implementation and Governance Arrangements | Ofgem

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. R0044 will deliver a critical element of how the role is governed by facilitating the sharing of SMDR appointment data via CSS.

11.3 COST BENEFIT ANALYIS SUMMARY

R0044 will deliver the CSS requirements for sharing SMDR appointment data. These are needed before the majority of MHHS consequential code changes because of the dependency of the SEC MP162 design on the R0044 detailed design which will provide the interface specification for sharing the appointment data.

The Code Manager considers the costs are at the upper limit of what is acceptable to implement the proposed solution. However, it is recognised that the proposed cost may reduce for the Design, Build and PIT Testing phases once the CSS Provider finalises internal arrangements.

In addition, there will be a further opportunity for the testing impact assessment to be reviewed, and potential efficiencies found, when the impact assessment for the full MHHS programme testing (from SIT stage onwards) is requested from the CSS Provider.

The Code Manager believes that the Change Proposal should be progressed. It is a critical component of the MHHS Design, and without its implementation neither SEC MP162 nor the MHHS Target Operating Model can be successfully delivered.

12 CASE FOR CHANGE

12.1 AUTHORITY DETERMINATION

The Code Manager believes that R0044 better facilitates the following REC Objectives:

OBJECTIVE	IMPACT TYPE	DESCRIPTION AND JUSTIFICATION
To ensure the REC operates and evolves in a manner that facilitates the achievement of its mission statement[6]	Positive	The implementation of R0044 will provide a key component of the MHHS Target Operating Model which is being delivered as a positive and significant change to settlement in the Retail Energy Market
To ensure customers interests and data is	Neutral	Consumer interests and data protection are delivered through the governance of the SMDR role provided under SEC MP162

[6] REC Mission Statement

protected in the operation of the REC		
To drive continuous improvements and efficiencies in the operation of the REC and the central systems and communication infrastructures it governs	Positive	The solution for R0044 has been developed to use existing interfaces used between REC Service Providers and other central systems in the Retail Energy Market

13 CODE MANAGER'S RECOMMENDATION

Based on the assessment in section 11 and 12 of this report, the Code Manager considers the REC Objectives would be better facilitated by this Change Proposal being implemented than would otherwise be the case.

The Code Manager's minded to position is that the Change Panel recommends that the Authority:

- **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'.

14 CONSULTATION PLAN AND NEXT STEPS

The consultation on this Preliminary Change Report for R0044 will be published on the REC Portal on 04 November 2022 and will close on 25 November 2022**.**

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 responses with the Code Manager's comments.

The Final Change Report will be issued to REC Change Panel to make its determination.

15 APPENDIX

CHANGE PROPOSAL	Link
LEGAL DRAFTING	Link
RELATED CHANGE(S)	Smart Energy Code (SEC) Modification Proposal 162 (MP162) 'SEC changes required to deliver MHHS'
ANY OTHER DOCUMENTS / LINKS	MHHSP-BP003A-CSSandDCC Update - v3.0 MHHS Programme Planning

16 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

REC TERM	DEFINITION
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.
Consumer	means any person supplied (or seeking a supply) of Energy at an RMP (whether or not that person also exports or is seeking to export electricity at an RMP).
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.

REC TERM	DEFINITION
Data Communications Company (DCC)	means the person holding the DCC Licence.
Distribution Network Operator (DNO)	means a person holding an Electricity Distribution Licence.
Enduring Change of Supplier Service Provider (ECoS) Service Provider	means the DCC in its role as CoS Party, defined in the Smart Energy Code.
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.
Electricity Supplier	means a person holding an Electricity Supply Licence.
Electricity Enquiry Service (EES)	means the service described as such in the EES Service Definition.
Market Participant Identifiers (MPID)	means the unique identifier by which a Market Participant is identified.
Metering Point	has the meaning given to it in the Electricity Distribution Licence, which for the time being means: "the point, determined according to the principles and guidance given in the MRA Transition Schedule to the Retail Energy Code, at which a supply of electricity taken into or conveyed from the licensee's Distribution System: (a) is or is intended to be measured; or (b) where Metering Equipment has been removed, was or was intended to be measured; or (c) in the case of an Unmetered Supply, is treated as measured."
Metering Point Administration Service (MPAS)	means the service of that name which each DNO is required to provide under its Electricity Distribution Licence.
Registrable Measurement Point (RMP)	means a Supply Meter Point or Metering Point identified in the Central Switching Service.

REC TERM	DEFINITION
Registration Data	means the data recorded in relation to a Registration.
Registration Service	means the component of the Central Switching Service which records Switching Operation Data and manages Switches, as further described in the Switching Data Management Schedule and the Registration Services Schedule.
ServiceNow	ServiceNow is the service desk provision for CSS
Significant Code Review (SCR)	means a review of one or more matters by the Authority which the Authority considers is: (a) related to this Code (whether on its own or together with other Energy Code(s); and (b) likely to be of significance in relation to the Authority's principal objective and/or general duties (as set out in section 3A of the Electricity Act and section 4AA of the Gas Act), statutory functions and/or relevant obligations arising under Law, and concerning which the Authority has issued a notice that the review will constitute a significant code review.
Smart Energy Code (SEC)	means the code of that name maintained pursuant to the DCC Licence.
Smart Meter	means a meter which conforms (or is intended to conform) with the SMETS.
Smart Meter Data Retriever	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.
Switching Operation Data (SOD)	Switching Operation Data comprises of data required to support the validation of CSS Market Messages as defined in Paragraph 4.5 of Schedule 24 - Switching Data Management

MHHS TERM	DEFINITION
DCC	Where DCC is used in MHHS documentation, this is interpreted by the REC Code Manager to mean the Smart Meter Data Service Provider.
Data Service Provider (DSP)	DCC System managing communications with Smart Meters.
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.
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.
Meter Data Retriever (MDR)	This is a sub-service of the Smart Data Service. It is the entity responsible for connecting to the DCC, and retrieving smart metering data for MHHS purposes. Registered Suppliers may choose to perform this role themselves or appoint a third party MDR service provider.
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.
Smart Data Service (SDS)	The Smart Data Services in the MHHS TOM comprise the Meter Data Retrieval Service, Processing Service (Smart) and Meter Reading Service, which together enable settlement of the Smart and Non-smart Market Segments.