RETAIL ENERGY CODE

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CONSEQUENTIAL CHANGE SOLUTION – REC-OWNED MARKET MESSAGES

DOCUMENT VERSION	4.0
ISSUED DATE	17/07/2024
SOLUTION STATUS	AGREED

COMMITTEE	REC MHHS STAKEHOLDER ADVISORY GROUP

CHANGE OVERVIEW

This change seeks to agree the required changes to REC-owned Market Messages needed to support the successful implementation of the Market-wide Half Hourly Settlement (MHHS) design.

MHHS STAKEHOLDER ADVISORY GROUP OUTCOME

On 19 April 2023, the REC MSAG agreed that the solution for REC-owned Market Messages should be taken forward for the MHHS Code Drafting.

On 15 June 2023, the REC MSAG further agreed the solution for the D0300 Market Message and J0171 Data Item, resulting in version 2.0 being agreed to take forward for the MHHS Code Drafting.

On 02 November 2023, this solution has been re-baselined as version 3.0, following no concerns being raised by REC MSAG members, and this will be taken forward for the MHHS Code Drafting.

On 17 July 2024, this solution has been re-baselined as version 4.0, following no concerns being raised by REC MSAG members, and is the solution that has been taken forward in MHHS Code Drafting. It should be noted that the MSAG review also highlighted some baseline updates made to the D0126, D0135, D0136 and D0139 since the MHHS updates were initially published. These were as a result of REC CP R0021 and R0043 and have been reflected in the relevant DTN messages.

1 BACKGROUND

The MHHS Programme have baselined an end-to-end design required to implement the new MHHS Target Operating Model. This has been delivered through the development of multiple

design artefacts, including business processes, business requirements, method and validation statements, technical specifications and a data catalogue.

The interface catalogue developed as part of the MHHS design details Market Messages that will be sent over the new Data Integration Platform (DIP) being introduced by the MHHS Programme. However, it does not address the impacts to existing Market Messages impacted by the MHHS design. Impacted stakeholders will need to consider the required changes to these messages as part of their design, build and test activities when implementing their MHHS solutions.

It has been agreed that impacts to these Market Messages will be addressed by the relevant code body as a consequential change, where the design is developed by the code body and approved outside of MHHS governance but included in MHHS code drafting activities.

2 PROBLEM STATEMENT

The interface catalogue developed as part of the MHHS design details Market Messages that will be sent over the new Data Integration Platform (DIP) being introduced by the MHHS Programme. However, it does not address the impacts to existing Market Messages impacted by the MHHS design. Impacted stakeholders will need to consider the required changes to these messages as part of their design, build and test activities when implementing their MHHS solutions.

3 IMPACTS

CONSUMERS
All

REC SERVICE PROVIDERS
Electricity Retail Data Agents

RECCO / REC CODE MANAGER
Code Manager

REC PARTIES AND SERVICE USERS
Electricity Suppliers
Metering Equipment Managers
Distribution Network Operators
Data Collectors
Smart/Advanced Data Services

REC DOCUMENTS / PRODUCTS
Standards Definition
Market Message Catalogue
Data Item Catalogue

The changes required to REC Market Messages can be broadly broken down into two categories:

- Changes to the structure and/or validation rules of a specific Market Message to reflect changes introduced by the MHHS design; and
- New Scenario Variants to Market Messages, allowing these to be sent to and from additional Market Roles to support the MHHS design.

One of the outcomes of the MHHS design is that new Market Role codes will be introduced for Smart/Advanced Data Services and MEMs. These will be separate to the existing role codes for NHH/HH Data Collectors and the existing MEM role code. This means that new Scenario Variants are required for any combination of these new roles that may still need to send or receive these Market Messages.

Each impacted Market Participant will need to configure their systems to send, receive and validate these messages, as appropriate, from MHHS go-live (M10).

4 SOLUTION OPTIONS

Different options were discussed for the following market messages:

D0311 – Notification of Old Supplier Information

- Consideration was required on whether the new 'Annual Consumption' Data Item was required to replace the existing EAC data shared from the previous Supplier. It was agreed this wasn't required in MHHS as the Gaining Supplier would either receive this directly from the DIP or access it via the Electricity Enquiry Service (EES). Therefore, a new rule has been added to confirm that the EAC group(s) should not be provided for MHHS migrated MPANs. This will allow the group to be removed entirely once MHHS migration is complete.
- A new requirement to include the Time Pattern Regime in the Register Reading details has been included in the message. This will allow the Gaining Supplier to identify the meter configuration held by the Losing Supplier in the event of an issue communicating with a Smart Meter, as they will no longer receive the mapping details on a D0149. The use of the D0311 was identified as the most appropriate opportunity to share this information, as a backstop position in case it is ever required by the Gaining Supplier.

D0300 – Disputed Readings or Missing Readings on Change of Supplier

- Changes may be required to the D0300 to clarify rules relating to the use of cumulative register reads for Smart Meters in the Disputed Switch Meter Reads process. Consideration was given as to whether further changes were required for all Suppliers to identify where an initiated disputed Switch Meter Reading relates to a post-RF Switch Meter Reading that cannot be amended in Settlement (as the process could still be used by Suppliers up to 12 months after a switch had occurred, even after the Settlement window reduces from 14 months to 4 months). It was agreed that this change was not required as Suppliers could simply identify this from the Switch Effective From Date.

Traditional Key Meters, Token Meters and Smartcard Meters

- While installations of traditional key meters should be declining, and ultimately ceasing, in favour of installing functioning Smart Meters; and the majority of smartcard and token meters are no longer in operation. There are still small volumes of these in circulation that may require the continued use of these Market Messages until operation has permanently ceased. Therefore, these messages have been extended to the new Market Roles, recognising there will be a decreasing and minimal use of these when MHHS is implemented.

5 SOLUTION DEVELOPMENT

An initial analysis of impacted REC-owned messages was completed by RECCo and discussed in a workshop with the REC MSAG on 30 September 2022. Outputs from the workshop were then shared with the MHHS Consequential Change Impact Assessment Group (CCIAG) for wider circulation and input.

Following this industry engagement, proposed solutions were developed and issued for industry consultation from 5 December 2022 to 23 December 2022.

The outputs of the consultation were shared with the REC MSAG and CCIAG, before a final proposed solution was taken to the REC MSAG for agreement on 19 April 2023.

6 CONSULTATION

6.1.1 SUMMARY OF CONSULTATION RESPONSES

A consultation was issued 5 December 2022, which received 11 responses in total:

- 5 responses from Distribution Network Operators (DNO), including independent DNOs;
- 2 responses from Electricity Suppliers;
- 2 responses from Software Providers;
- 1 response from Unmetered Supply Service Provider; and
- 1 response from the Data Transfer Service Operator.

The responses highlighted various considerations for the impacts to the messages, along with general support for the impacts identified and some clarification questions. The key outputs from review of the consultation responses were:

- At the time of the consultation, the MHHS design work-off plan had not been concluded and a decision was still required on the use of new Market Roles. It was later confirmed that new role codes will be created for the Smart and Advanced MEM and Data Service roles.
- It was confirmed the ‘Meter Reading Service’ role in the MHHS Target Operating Model would use the existing NHH Data Retriever (NHHDR) role and separate role codes were not required. The NHHDR role will be renamed in the Data Specification to provide clarity.

- It was confirmed that the 'Annual Consumption' Data Item will only be available for Metering Points after they have migrated to MHHS, and the EAC will be required for all NHH Metering Points prior to migration.
- It was confirmed that a rule requiring the meter register reading, provided on certain messages, to be the total cumulative register reading should only apply to Smart Meters.

7 PROPOSED SOLUTION

The changes agreed to REC-owned Market Messages are summarised below. This is a summary only and is not an exhaustive list of impacted parties. Where new Scenario Variants are listed, other Market Participants will be impacted where they are required to send/receive these messages to/from the new Market Role. All existing users of each Market Message should review the proposed change in detail to ensure all impacts are captured. For full details of changes please review the detail of each message set out in Appendix 1:

Changes to message structure or validation rules

Message Id	Message Name	Description of changes
D0139 (MM00036)	Confirmation or Rejection of Energisation Status Change	• New Data Item Value rule, clarifying Meter Register Id should be the cumulative register for MHHS Metering Points that are Smart Metering Assets. New Scenario Variant's for Smart and Advanced MEM roles.
D0149 (MM00047)	Notification of Mapping Details	• Replacement of NHH references with Traditional Metering Assets. • New Scenario Variant's for Smart and Advanced MEM roles.
D0150 (MM00051)	Non-Half Hourly Meter Technical Details	• New Data Item Value rule to clarify Measurement Class should be 'null' for MHHS Metering Points. • Name amended to 'Traditional Meter Technical Details' with associated changes to the message description. • New Scenario Variant's for Smart Data Service and Smart MEM roles.
D0170 (MM00075)	Request for Metering System Related Details	• New Data Item Value rule to clarify that the 'New Meter Operator Id' or 'New Data Collector Id' for migration specific events

		relate to the Smart or Advanced MEM/Data Service. • New SV's for SDS, ADS, MSS, MSA and ERDA.
D0268 (MM00156)	Half Hourly Meter Technical Details	• Name amended to 'Advanced Meter Technical Details' • New Scenario Variant's for Advanced Data Service and Advanced MEM roles.
D0300 (MM00231)	Disputed Readings or Missing Readings on Change of Supplier	• New rule to clarify that meter readings for MHHS Metering Points that are Smart Metering Assets should relate to the total cumulative register.
D0303 (MM00240)	Notification of Meter Operator, Supplier and Metering Assets installed / removed by the MOP to the MAP	• Flow version incremented to V002. • Effective from Settlement Date {REGI} changed to Optional • Manufacturers Make & Type changed to Optional • New SV's for MSS and ADS •
D0311 (MM00254)	Notification of Old Supplier Information	• Flow version incremented to V002. • New Data Item Value rules to clarify Profile Class and MTC should be 'null' if no value exists, and LLFC Id should be populated with the DUoS Tariff Id for MHHS Metering Points. • New Group rule to clarify that EAC groups should not be provided for MHHS MHHS Metering Points. New requirement to include Time Pattern Regime with last register read(s) to assist in understanding previously set meter configurations.

Messages requiring new scenario variants only

Message Id	Message Name	New Scenario Variants
D0126	Asset Condition Report Response / Clearance	• Smart MEM

(MM00016)		• Advanced MEM
D0134 (MM00021)	Request to Change Energisation Status	• Smart MEM • Advanced MEM
D0135 (MM00023)	Asset Condition Report	• Smart Data Service • Advanced Data Service • Smart MEM • Advanced MEM
D0136 (MM00029)	Report to Supplier of Possible Irregularity	• Smart Data Service • Advanced Data Service • Smart MEM • Advanced MEM
D0142 (MM00042)	Request for Installation or Change to a Metering System Functionality or the Removal of All Meters	• Smart MEM • Advanced MEM
D0168 (MM00073)	Request for Additional/New MPAN Core(s)	• Smart MEM • Advanced MEM
D0169 (MM0074)	Allocation of New/Additional MPAN Core(s)	• Smart MEM • Advanced MEM
D0176 (MM00091)	Request Tariff/Debt Change on Token Meter	• Smart MEM
D0178 (MM00092)	Confirmation of Token Meter Installation	• Smart MEM
D0179 (MM00093)	Confirmation of Energisation/De-Energisation of Prepayment Meter	• Smart MEM
D0180 (MM00095)	Request to Energise/De-Energise/Shut Down Prepayment Meter	• Smart MEM
D0190	Issue Customer Key	• Smart MEM

(MM00099)		
D0191 (MM00100)	Request Special Visit to Read/Reset Key Meter	• Smart MEM
D0192 (MM00102)	Readings and Settings from a Token or Key Meter	• Smart MEM
D0193 (MM00103)	Confirmation of Key Meter Installation	• Smart MEM
D0194 (MM00104)	Request for Installation of Key Meter	• Smart MEM
D0202 (MM00105)	Readings and Settings from a Removed Smart Card Meter	• Smart MEM
D0215 (MM00117)	Provision of Site Technical Details	• Smart MEM • Advanced MEM
D0216 (MM00119)	Request Installation of Token Meter	• Smart MEM
D0221 (MM00121)	Notification of Failure to Install or Energise Metering System	• Smart MEM • Advanced MEM
D0222 (MM00123)	Change in Customer Details	• Smart Data Service • Smart MEM • Advanced MEM
D0223 (MM00126)	Request to Install Check Meter or Carry Out Accuracy Tests	• Smart MEM • Advanced MEM
D0224 (MM00127)	Notification of Programme for Re-Certification Meter Changes	• Smart MEM • Advanced MEM
D0225 (MM00128)	Priority Services Details	• Smart Data Service • Advanced Data Service • Smart MEM

		• Advanced MEM
D0239 (MM00140)	Revenue Protection Report on Action Taken	• Smart MEM • Advanced MEM
D0302 (MM00236)	Notification of Customer Details	• Smart Data Service • Advanced Data Service • Smart MEM • Advanced MEM
D0304 (MM00241)	Notification of Meter Asset Provider	• Smart MEM • Advanced MEM
D0368 (MM00337)	Notification of Agreed or Cancelled Appointment With Customer	• Smart MEM • Advanced MEM
D0382 (MM00369)	Rejection Response for Request to LDSO for Site Technical Details	• Smart MEM • Advanced MEM
D0383 (MM00370)	Notification of Commissioning Information	• Advanced MEM
D0384 (MM00372)	Notification of Commissioning Status	• Advanced MEM

Changes to data items

Data Item Id	Data Item Name	Description of changes

J0007 (DI50005)	Requested Action Code	• New enumerations values:
		  ○ 24 (Migrated Metering Point (CoA))
		  ○ 25 (Migrated Metering Point (CoS))
		As required by the MHHS Migration Design.

J0171 (DI50097)	Reading Type	• New enumeration value:
		  ○ U (Forward Migration CoA)
		  ○ V (Forward Migration CoS)

		○ X (Supplier Agreed Switch Read) ○ Y (Reverse Migration CoS) New code X is for use when notifying a Smart Data Service of an agreed switch read for a traditional meter using the D0010.
J2255 (DI51543)	MPAS D0304 Response Code	• New enumeration value: ○ Q (MPAN Fwd migration in progress or completed)
J2256 (DI51544)	MOP Flow Response Code	• New enumeration value: ○ AD (MPAN Fwd migration in progress or completed)

7.1.1 OCTOBER 2023 UPDATES

As part of the design work by the MHHS Programme's Migration Working Group, some Market Messages updates were identified. These updates are being progressed via an update to the design artefact DES196 – D-Flow and Interface Mapping, which in turn has a consequential impact for the REC-owned Market Messages. On 11 October 2023, a view of the updates under this existing consequential change was shared with MSAG members. The impacted Market Messages and Data Items are:

- D0303 - Notification to the MAP of any change to relevant MOP appointments, Supplier registration and Meter Assets:
  - Effective from Settlement Date {REGI} changed to Optional
- J0007 – Requested Action Code, update to naming of the two new enumeration values:
  - 24 Migrated Metering Point (CoA)
  - 25 Migrated Metering Point (CoS)
- J0171 – Reading Type, three further new enumeration values:
  - U Forward Migration CoA
  - V Forward Migration CoS
  - Y Reverse Migration CoS
- J2255 - MPAS D0304 Response Code, new enumeration value
  - Q MPAN Fwd migration in progress or completed
- J2256 - MOP Flow Response Code, new enumeration value
  - AD MPAN Fwd migration in progress or completed

7.1.2 JULY 2024 UPDATES

Updates to seven Market Messages have been shared with MSAG on 04 July 2024 reflecting changes progressed by the MHHS Design and updates to agreed terminology. The Proposed Solution above has been updated accordingly for the following Market Messages:

- D0126 (MM00016) - Asset Condition Report Response / Clearance
- D0139 (MM00036) - Confirmation or Rejection of Energisation Status Change
- D0149 (MM00047) - Notification of Mapping Details
- D0150 (MM00051) - Non Half-hourly Traditional Meter Technical Details
- D0300 (MM00231) - Disputed Readings or Missing Readings on Change of Supplier
- D0303 (MM00240) - Notification of Meter Operator, Supplier and Metering Assets installed / removed by the MOP to the MAP
- D0311 (MM00254) - Notification of Old Supplier Information

7.1.3 SUPPORTING INFORMATION

See Appendix 1 for detailed changes to each Market Message – V4 includes the July 2024 updates.

See Appendix 2 for details of the October 2023 updates only.

See Appendix 3 for details of the July 2024 updates only.

8 CODE MANAGER'S RECOMMENDATION

The Code Manager recommends that the changes set out in this document are implemented as part of MHHS Code Drafting.

9 APPENDIX

APPENDIX 1 – REC-OWNED MESSAGE PRE-TRANSITION CHANGES (GO-LIVE) – V3	Attached
APPENDIX 2 – MARKET MESSAGES DIN UPDATES OCTOBER 2023	Attached
APPENDIX 3 – MARKET MESSAGES UPDATES JULY 2024	Attached