



**MHHS  
PROGRAMME**

Industry-led, Elexon facilitated

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# Data Cleanse Plan Technical Session - MTDs

## 04 April 2023

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MHHS-DEL1132

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## Agenda

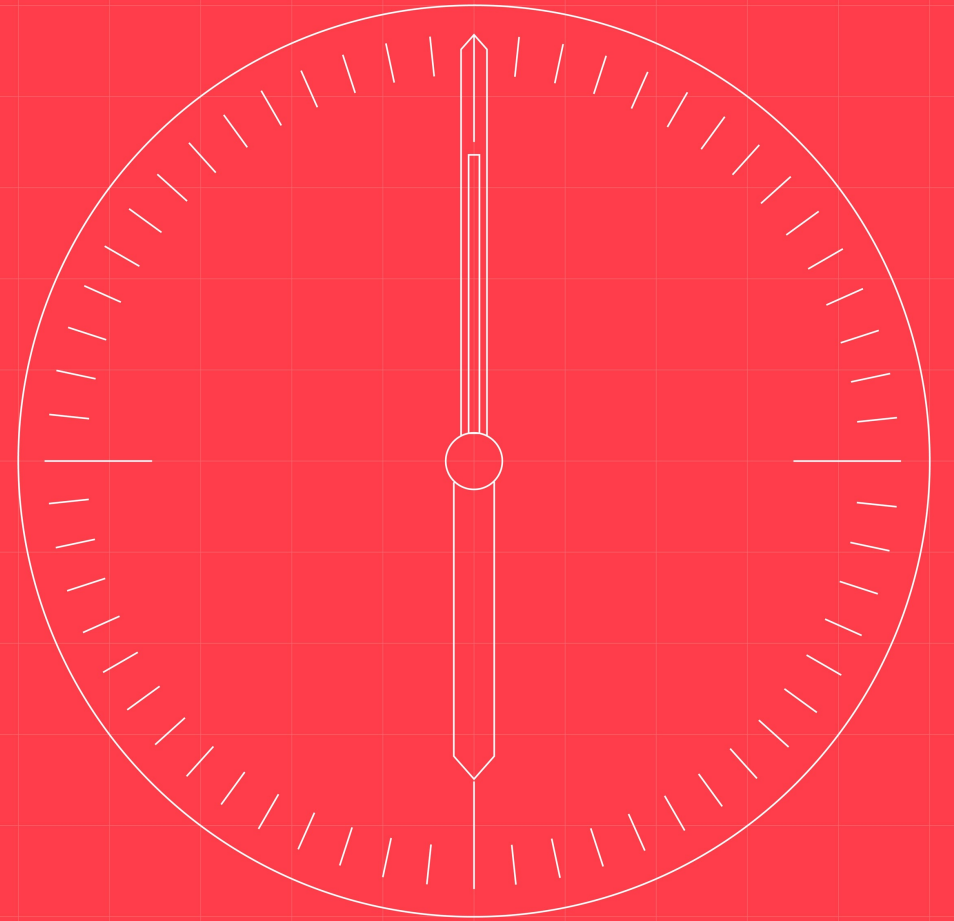
#	Item	Objective	Type	Lead	Time	Page
1	Welcome and Agenda	Introduce the session and the key topics to be discussed	Information	Sean	5 mins	2
2	Introduction to Data Cleanse Plan Technical Sessions	Introduce the purpose of the technical sessions	Information	Sean	5 mins	3
3	Transfer of MTDs	Review data quality and completeness issues within the transfer of MTDs process	Discussion	Matthew	10 mins	6
4	Data Cleansing / Population Activities for Discussion	Discuss potential options for each data cleansing / population activity to drive to consensus on optimal way forward	Discussion	Sean	5 mins	9
	i) Reporting		Discussion	Matthew	10 mins	11
	ii) Data Population		Discussion	Matthew	10 mins	12
	iii) D0312 Update		Discussion	Sean	10 mins	13
	iv) GUID ID Population		Discussion	Sean	10 mins	14
	v) GUID ID in E2E Testing		Discussion	Sean	10 mins	15
7	Summary and Next Steps	Summarise actions and align on next steps	Information	Matthew	5 mins	16

# Introduction to Data Cleanse Plan Technical Sessions

**DISCUSSION:** Introduce the purpose of the technical sessions

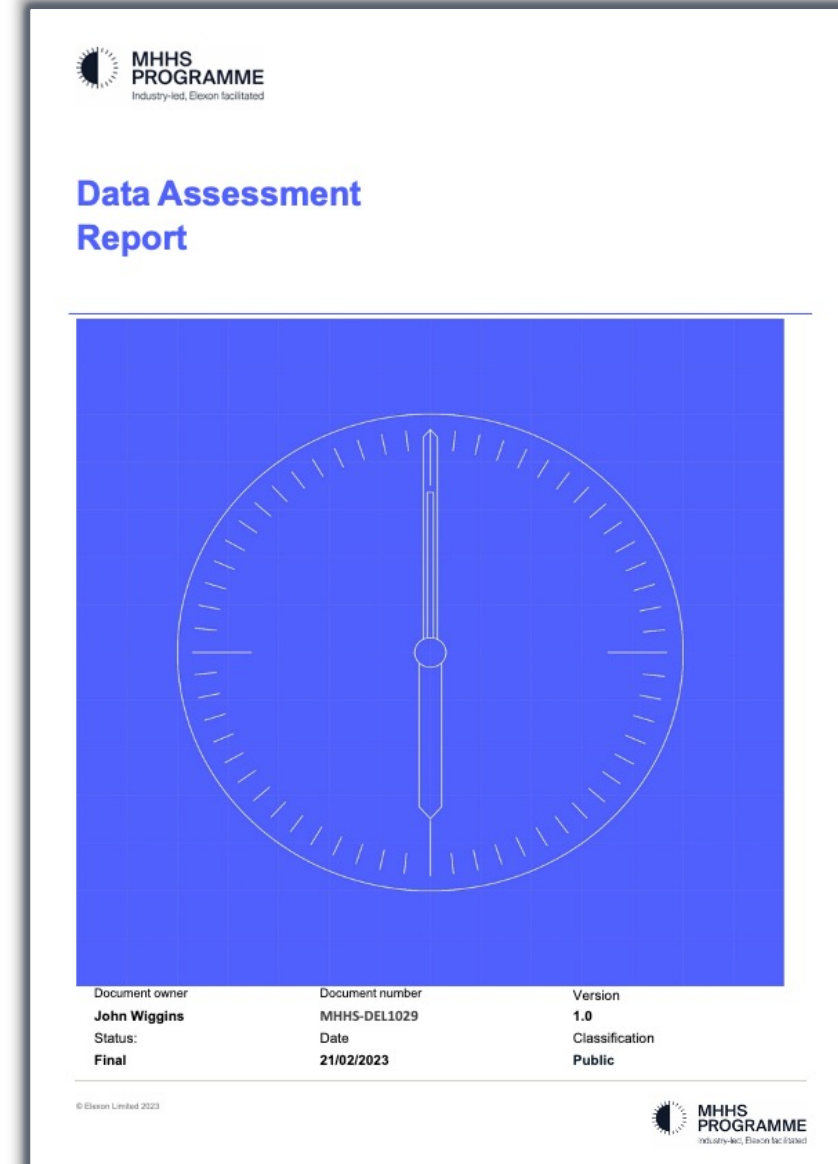
Sean Tuffy

*5 mins*



## Introduction to Data Cleanse Plan Technical Sessions

- The MHHS Data Assessment Report set out high-level findings related to the quality, completeness, and sources of data which the new MHHS Design requires to be utilised within System Integration Testing (SIT), Migration and ongoing live operations.
- The report identified key risks and issues which could potentially impact the following activities:
  1. Data population of test environments required for SIT;
  2. Data population of Registration Service, Electricity Enquiry Service and other participants services to support start of the Migration phase;
  3. Cleansing of data within industry participants' systems to support the transactional Migration of each MPAN;
  4. Introduction of poor-quality data into live operations of the new MHHS arrangements.
- CP1558 'New Registration data items to facilitate MHHS' and R0032 'New Registration data items and processes to support the transition to MHHS' will support the creation of new interfaces and data structures within the Registration Service, but they will not ensure the data is fully populated to the standard required.
- The activities that are required to populate the data to the standard required will be set out within the Data Cleanse Plan. **These technical sessions will assess options for each activity to support the production of the Data Cleanse Plan.** Once completed, the Plan will be presented at MWG and then tabled for approval at TMAG.
- As a general approach to managing all the required data improvement activities, it is recommended the Programme is responsible for the scoping, planning and ongoing monitoring of each activity.



Upcoming Meetings

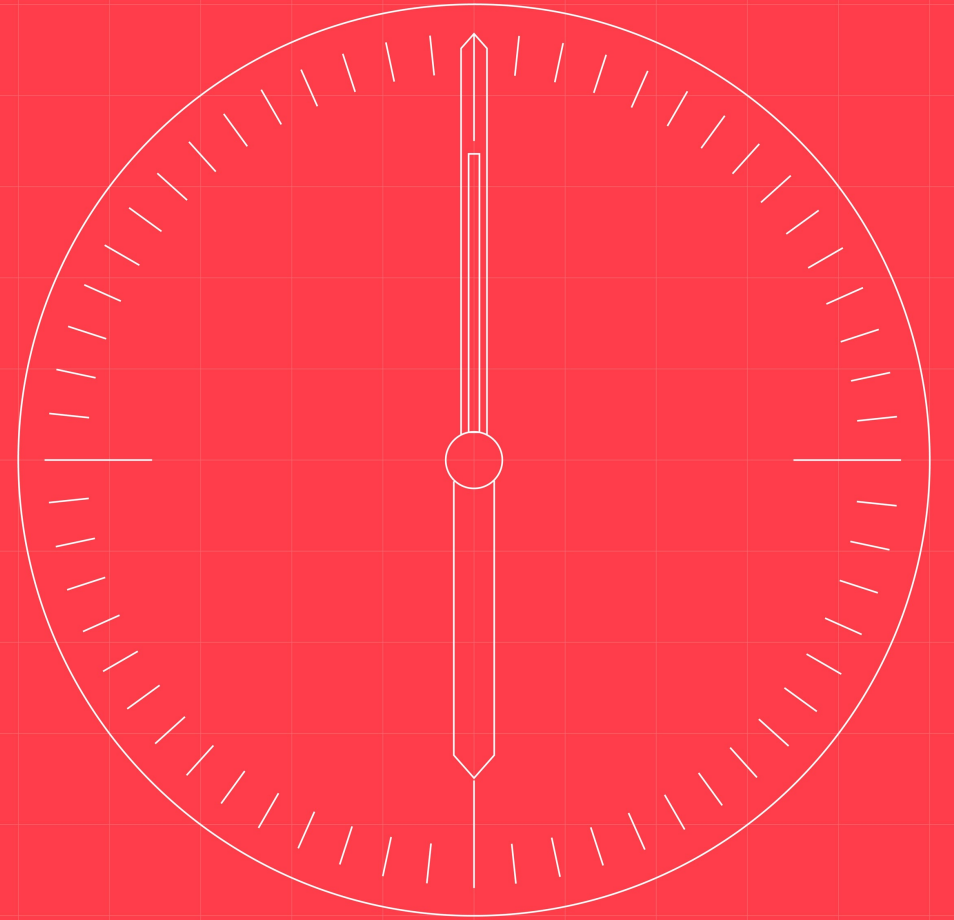
MTDs	Advanced Meters	Registration Data (1)	Registration Data (2)
Tuesday 4 April 14:00-16:00	Tuesday 11 April 14:00-16:00	Friday 14 April 10:00-12:00	Monday 17 April 14:00-16:00

# Transfer of MTDs

**DISCUSSION:** Review data quality and completeness issues within the transfer of MTDs process

Matthew Breen

*10 mins*



### **High-Risk Process**

The transfer of MTDs between MOPs following a CoA or coincident CoA and CoS is a known high-risk industry process. Failure of the outgoing MOP to transfer MTDs (the D0149 / D0150 / D0268) will result in settlement and / or customer billing issues and can be complex and costly to resolve (e.g. site visits). The Migration process will be reliant on this Legacy process occurring successfully (and at a scale far exceeding normal Legacy volumes).

### **Population of GUID ID / ESME ID**

For Smart metering, the BAU design does not require the transfer of MTDs. MTDs will be held within the Registration Service and transferred via DIP messages from this central source. Correct population of the GUID ID is essential for the Smart Data Service to be able to carry out their required validation. Failure to address this may have a significant impact on billing and settlement.

### **R0032 – No Data Population / Cleansing Mandate**

REC change R0032 will be deployed in June 2023 to support the new data structures and an interface for supporting this data. However, this does not include a mandate to populate or cleanse the data.

The following issues have been identified:

### 1. MOPs Holding Valid MTDs

MOPs may not hold valid MTDs for an MPAN they are appointed to. Current assurance reporting is not able to identify this issue or quantify the total number of MPANs impacted.

### 2. Smart Data

Smart data will not be fully populated, as required by the MHHS design, for all MPANs which have Smart meters installed. This will prevent successful Migration and BAU operations.

### 3. GUID ID

A required data item, GUID ID, which is mastered by the Meter Manufacturer and in many cases not accessible by the MOP is required to be populated.

### 4. Registration Service Data Population

The Registration Service requires MTD data to be present to undertake their own Meter Point (MPAN) data population as set out under CP1558.

### 5. Edge Case MPANs

Complex Sites and other 'edge case' MPANs need to be identified and assessed for any cleansing activities.

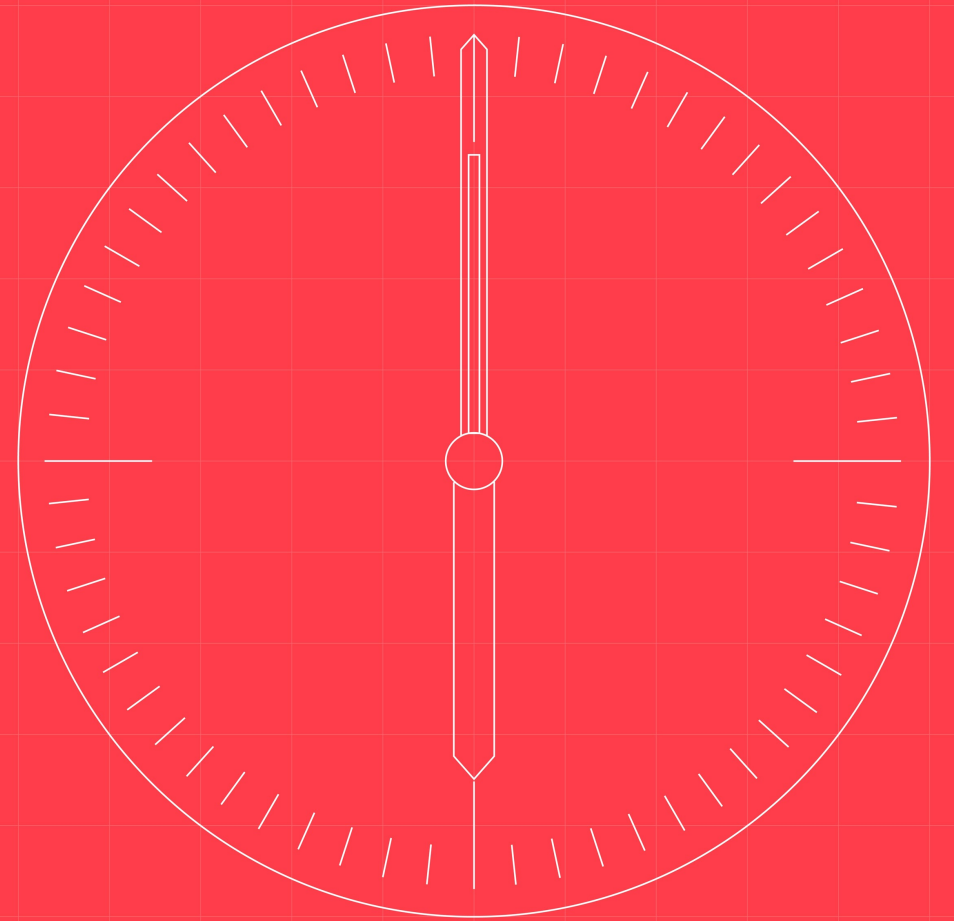


# Data Cleansing and Population Activities for Discussion

**DISCUSSION:** Introduce the purpose of the technical sessions

Matthew Breen and Sean Tuffy

*55 mins*



To identify the optimal activities to mitigate / resolve the issues on the previous slide, we would like to discuss the following topics today:

### 1. Reporting

What data do we want to report on?  
What limitations exist on assuring completeness of MTD data?  
What is readily available through existing reports?

### 2. Data Population

Organic population via D0312 vs 'one-off' extract, transfer and load?  
How to undertake reconciliation between data held within Registration Service vs MOPs?

### 3. D0312 Update

D0312 is to be updated as part of R0032  
Are any new data items problematic and how will they be populated?

### 4. GUID ID Population

Population of GUID ID required for Smart Meters  
What is best way to populate this?

### 5. GUID ID in E2E Testing

Is GUID ID essential for E2E testing?  
If essential, how do we ensure there is data present for the Q3 2023 data cut?

- Ultimately, reporting requirements will be driven out of some of the other options later in the slides, but have sufficient info to have an initial discussion.
- Following implementation of R0032 and CP1558, ongoing reporting needs to be established to measure completeness of MTD data within the Registration Service.
- As Registration Service only holds a small sub-set of MTD data (what's in a D0312 vs what's in a D0149 / D0150 / D0268), how do we assure completeness of MTD data held by MOPs? Is this required?
- What reports are readily available through RECCo that may be of use?
- More detail on reporting will be covered in the SIT Data Cut Plan that Cesar Lopes from the Programme is pulling together.
- Is there any other data that would be useful to report on?

- The two options which come to mind are:
  1. Use of D0312 to organically populate data in Registration Service over time from June 2023
    - Potentially very complicated
    - Are there validation rules in Registration Service that would prevent this from happening?
  2. 'One-off' extract, transform and load event to batch upload data into Registration Service
    - Would also require upload of data to MOPs as well
    - How would reconciliation of MTDs held by Registration Service vs MOPs be done?
    - Extract from Registration Service sent to each MOP?
    - Extract from EES sent to each MOP?
- The Programme needs to establish a requirement for all MOPs to populate data within the required timescales, prior to Migration start.
- For Advanced and Traditional meters, the D0149 / D0150 and D0268 data will need to be obtained and consistently populated across Supplier, DS and MS systems to support end-to-end SIT testing. A detailed approach and plan are required to support this.
- Are there other population options beyond the two outlined above?

- D0312 is to be updated as part of R0032.
- How would new data items (apart from GUID ID / ESME ID) be populated?
- Validate with St Clements whether new data items impact their ability to populate other data?

Market Message Ref.	MM Description	Legacy Reference
MM00256	Update MPAS with change to non-MPAS sourced data and the response	D0312

Data Item ID	Legacy Reference	Name	Present in Current Message	Condition
DI50003	J0003	MPAN Core	Y	-
DI50004	J0004	Meter Id (Serial Number)	Y	-
DI50102	J0178	Meter Operator Id	Y	-
DI50230	J0483	Meter Type	Y	-
DI50406	J0848	Date of Meter Installation	Y	-
DI50635	J1269	Date of Meter Removal	Y	-
DI51003	J1677	Meter Asset Provider Id	Y	-
DI51544	J2256	MOP Flow Response Code	Y	-
DI#####	J2312	ESME ID	N	Where the Meter Type is prefixed with "S1", "S2" or "2", ESME ID is Mandatory.  ESME ID is Null for all other Meter Types.
DI#####	J2313	Number of Displayed Register Digits	N	Where the Meter Type is prefixed with "S1", "S2" or "2", Number of Displayed Register Digits is Mandatory.  Number of Displayed Register Digits is Null for all other Meter Types.
DI50194	J0419	Meter Location	N	Where the Meter Type is prefixed with "S1", "S2" or "2", Meter Location is Mandatory.  Meter Location is Null for all other Meter Types.

- Population of GUID ID / ESME ID only required for Smart meters.
- Correct population is essential for the Smart Data Service to be able to carry out their required validation. Failure to address this may have significant impact on billing and settlement.
- What is best way to populate this data item?
- The GUID ID is held in DCC systems. Could we extract from the DCC and simultaneously provide files to both Registration Service and MOPs so they can load into their systems?
- An industry initiative is required so that GUID ID can be obtained for all Smart meters. This activity would require the support of parties outside of REC or BSC governance, such as Meter Asset Providers and Meter Manufacturers.

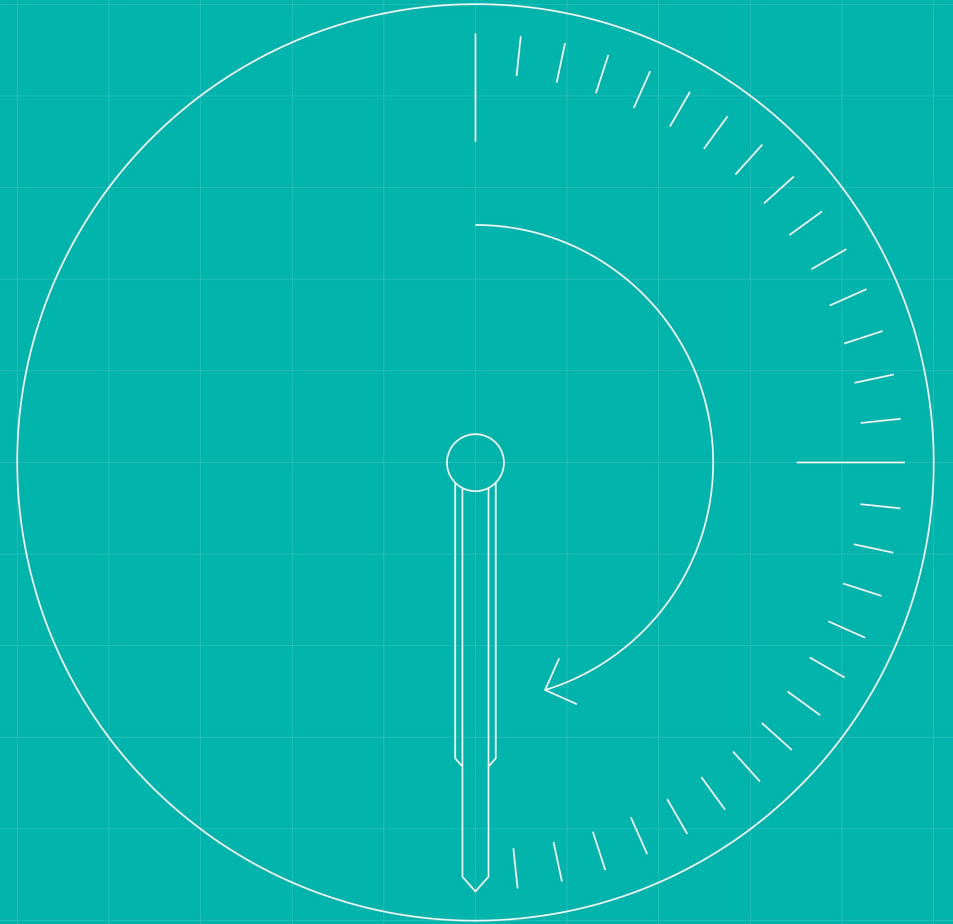
- Population of the GUID ID will take time and will not be ready for Q3 2023 SIT data cut.
- Firstly, is the GUID ID essential for end-to-end SIT?
- If essential, how do we ensure there is data present for the Q3 2023 data cut?
- Could manufactured data be used in the SIT data cut?
- Believe this data could be manufactured, but this assumption would be tested prior to the completion of the Data Cleanse Plan.

# Summary and Next Steps

**INFORMATION:** Summarise actions and align on next steps

Sean Tuffy

*5 mins*





Next Steps

- 1. The comments and feedback from today’s session will be written up and used to inform the MTD data population and cleansing options that are set out within the Data Cleanse Plan.
- 2. We will use the upcoming Technical Sessions over the next few weeks to discuss the data population and cleansing options related to Advanced meters and Registration Data.
- 3. Once completed, the Plan will be presented at MWG and then tabled for approval at TMAG.

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