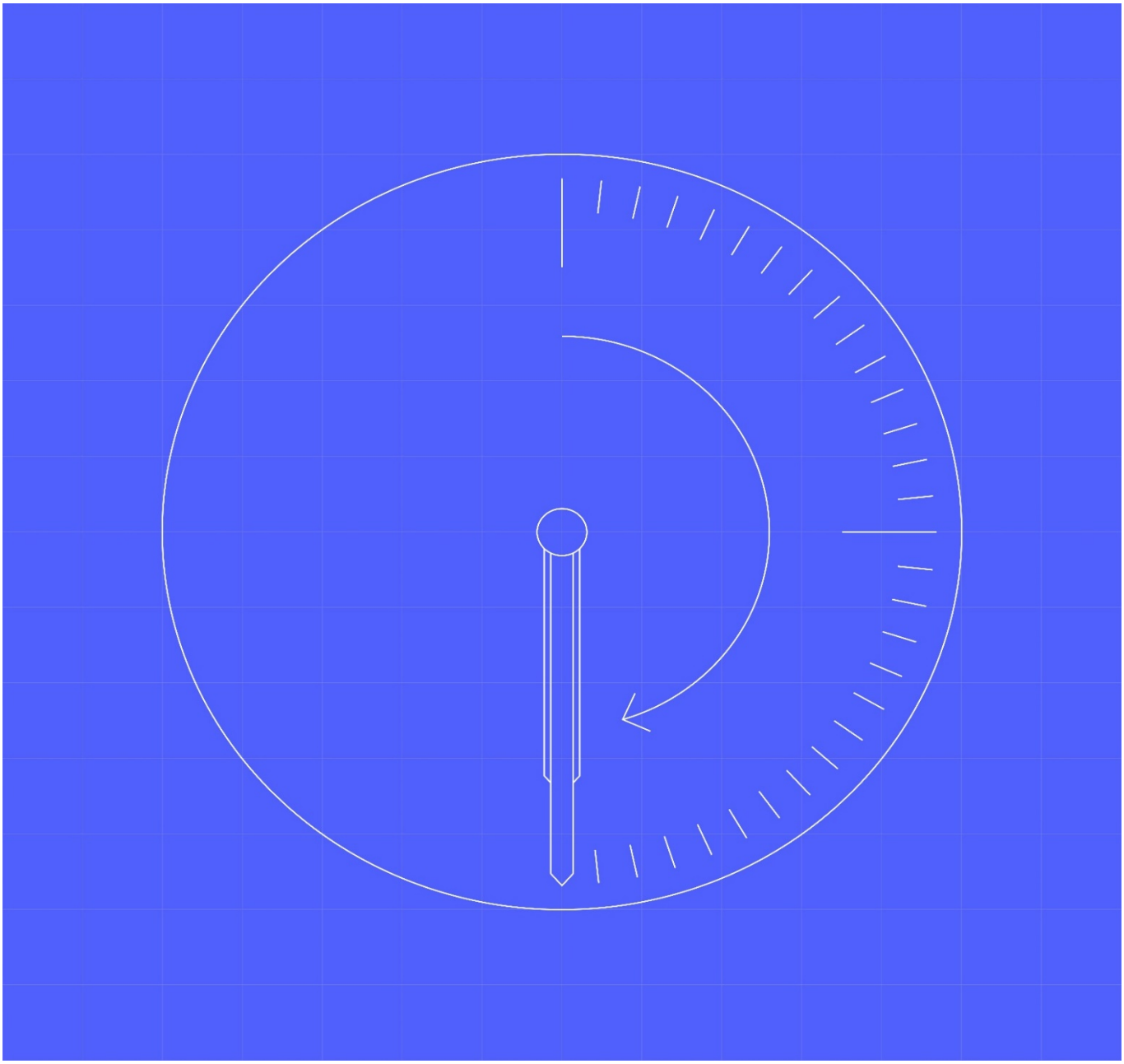
MHHS PROGRAMME
Industry-led, Elexon facilitated

MHHS – M15 Acceptance Criteria



Document Owner:	Document Number:	Version:
Migration Team	**MHHS-DEL1792**	**1.0**
Status:	Date:	Classification:
Approved	**20/12/2023**	**Public**

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1.1 Change Record

Date	Author	Version	Change Detail
22/11/2023	Migration Team	0.1	Draft for Industry Consultation
13/12/2023	Migration Team	0.2	Draft for TMAG Approval
20/12/2023	Migration Team	1.0	Approved

1.2 References

Document	Publisher	Published	Additional Information
MHHS-DEL961 – Migration Design Document v1.0	Migration Team	03/04/2023	
MHHSP-BRS003-Registration Service Requirements v5.4	MHHS Design Team	18/10/2023	

1.3 Terminology

Term	Description
BAU Process	This refers to a process within the MHHS arrangements as set out within the MHHS Core Design
BSC	Balancing and Settlement Code
Central Services / Systems	MHHS Programme term referring to the parties and systems that comprise the supporting infrastructure for MHHS business processes and services, namely the Elexon Central Services, Electricity Enquiry Service, Data Service Provider, Central Switching Service, Data Transfer Network, and the Data Integration Platform.
CoA	Change of Agent
CoS	Change of Supplier
CSS	Central Switching Service
Daily Planned Migration Threshold	This is an industry-wide limit on the maximum planned for number of migrations that can take place on a given day under normal circumstances (200,000).
Data Cleanse Plan	The approach and activities required to improve and populate data prior to Migration start.
DC	Data Collector
DIP	Data Integration Platform
DS	Data Service
DSP	Data Services Provider
ECS	Elexon Central Services
EES	Electricity Enquiry Service
Export MPAN	An MPAN that exports energy to the grid from a premises
Forward Migration	The process through which MPANs will move from legacy arrangements to MHHS arrangements
IDNO	Independent Distribution Network Operator
II Run	Interim Information Settlement Run
Import MPAN	An MPAN that imports energy from the grid to a premises
ISD	Industry Standing Data
LDSO	Licensed Distribution System Operator
Legacy Arrangements	The existing arrangements set out under the BSC and REC. For the purposes of the Migration Design, this is primarily the REC Metering Services Schedule and the Balancing and Settlement Procedures related to Data Collection.

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MCC	Migration Control Centre
MHHS	Market-Wide Half-Hourly Settlement
MHHS Arrangements	The new MHHS arrangements as set out in the MHHS Core Design Artefacts.
Migration Design	The technical articulation of how MPANs will move from legacy to new MHHS arrangements
Migration Period	The period denoted by the Programme as occurring between the M11 and M15 milestones
MOP	Meter Operator
MPAN	Meter Point Administration Number
MPID	Market Participant Identifier
MS	Metering Service
MWG	Migration Working Group
NFR	Non-Functional Requirement
Primary MPAN	The MPAN, within a Related MPAN arrangement, for which a Switch is initiated, or a forward migration (via an IF-031) is initiated
Qualified Supplier	A Supplier recognised in ISD as both having passed the relevant System Integration Testing (SIT) requirements or BSC qualification requirements; and declared that their service is operational within the MHHS arrangements.
RMP	Registrable Measurement Point
Registration Service	The service operated by LDSOs
REC	Retail Energy Code
Reverse Migration	The process through which MPANs will move from MHHS arrangements to legacy arrangements
Secondary MPAN	The MPAN, within a Related MPAN arrangement, for which a forward migration occurs when an IF-031 is received for a Primary MPAN
SF Run	Initial Settlement Run
Switch	The process by which a new Supplier Registration supersedes an existing Supplier Registration, managed by the CSS
Upper Migration Threshold	This is an industry-wide limit on the maximum number of migrations that can take place on a given day under exceptional circumstances (300,000)

1.4 Programme Milestones

The below Programme milestones are referenced throughout this document.

M9 – Start of System Integration Testing (SIT)

M10 – Go Live of new services

M11 – Start of 1 Year Migration for UMS / Advanced

M12 – Start of 1 Year Migration for Smart / Non-Smart

M14 – All Suppliers must be able to access MPANs under the new TOM

M15 – Full transition complete

M16 – Cutover to the new settlement timetable

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2 Introduction, Overview and Scope

2.1 Introduction

The M15 milestone is planned to take place in October 2026 and is currently defined as ‘Full transition complete’ i.e. all MPANs have been migrated to the MHHS arrangements and none remain in the legacy arrangements. Whilst the target will be to migrate 100% of MPANs, practically it will not be necessary to enact the migration process for all MPANs in the legacy arrangements as there will be some MPANs in states that prevent them from being migrated. Therefore, it is necessary to define a set of acceptance criteria, that if attained, will allow the Programme to consider M15 as achieved.

The purpose of this document is to define this acceptance criteria, which include the MPAN states that will be ‘acceptable’ and ‘unacceptable’ at M15, and to also define the reporting mechanisms that will be used to assess progress towards the acceptance criteria across the Migration Period.

The rationale for defining ‘acceptable states’ throughout this document, rather than stating ‘all MPANs to be migrated’, is that for certain MPANs the migration process will not be necessary to enact. For example, MPANs that have not yet had an initial registration or MPANs that have been terminated. By using the term ‘acceptable’ states, the expectation that 100% of MPANs will be migrated is removed as this will not be practically possible. Instead, 100% of MPANs will need to exist in one of the ‘acceptable’ states at M15.

The vast majority of activity to move MPANs to an 'acceptable' state will be Suppliers enacting Change of Agent (CoA) and Change of Supply (CoS) migration processes to migrate MPANs to MHHS. However, there will be a smaller number of MPANs that it is not necessary to migrate that will require other activities performed to them to move them into an 'acceptable' state e.g. termination of the MPAN, de-activation of the Supplier registration etc.

We have defined M15 as the first settlement date that no energy is being processed through legacy settlement arrangements from (noting that legacy settlement reconciliation will continue to take place for a finite period for settlement dates prior to M15). 100% of the energy being settled across the industry (for settlement dates on or after M15) should be being processed through MHHS settlement processes. Therefore, all MPANs will need to be moved out of 'unacceptable' states and into 'acceptable' states on the day preceding M15 at the very latest in order to ensure M15 is achieved on time.

Even if 0.1% of MPANs remain in one of the ‘unacceptable’ states, and therefore are still being settled under legacy arrangements, legacy settlement operations will need to be maintained for longer than expected which will come at significant cost.

For additional clarity however, please note that the achievement or non-achievement of M15 has no functional impact on either legacy or MHHS settlement processes. Legacy settlement processes will continue to run as they always have done until there are no more MPANs being settled under these arrangements. Similarly, MHHS settlement will need to have been up and running successfully for 18 months by the M15 date, and the timing or the achievement of M15 will not change how these processes operate.

2.2 Overview

- **MPAN State Terminology**
    - This section outlines the terminology that is used throughout this document to describe the various different states an MPAN can be in.
- **Acceptable and Unacceptable MPAN States at M15**
    - This section defines the ‘acceptable’ and ‘unacceptable’ MPAN states at M15. The primary aim of the MHHS Migration Period is to ensure that all MPANs are in one of the ‘acceptable’ MPAN states at M15 and no MPANs exist in any of the ‘unacceptable’ MPAN states.

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- **M15 Acceptance Criteria**
    - This details the exact acceptance criteria that will be used to determine whether M15 has been achieved.
- **Assumptions, Risks and Dependencies**
    - This section details the assumptions, risks and dependencies that have been considered when developing the M15 acceptance criteria.

3 Intended Audience

These parties are:

- The Registration Services (including Service Providers);
- Suppliers;
- Data Collectors / Aggregators;
- Meter Operators;
- The DIP Service Provider;
- Metering Services (i.e., MSS, MSA);
- Data Services (i.e., SDS, ADS, UMSDS);
- EES;
- LDSOs (i.e., DNOs and iDNOs);
- Meter Administrators;
- The DCC, operating Smart Metering and CSS;
- ESO;
- Elexon Central Services (ECS);
- Electralink (DTN);
- REC and BSC Performance Assurance Boards;
- UMSOs.

4 MPAN State Terminology

The Registrable Measurement Point (RMP) status of an MPAN uses the terminology ‘Created’, ’Operational’ and ‘Terminated’. In the below diagram, these terms are mapped to each of the possible lower level MPAN states. This terminology aligns to the terminology defined and used by the REC in Schedule 27 – RMP Lifecycle and is the terminology that will be used throughout this document.

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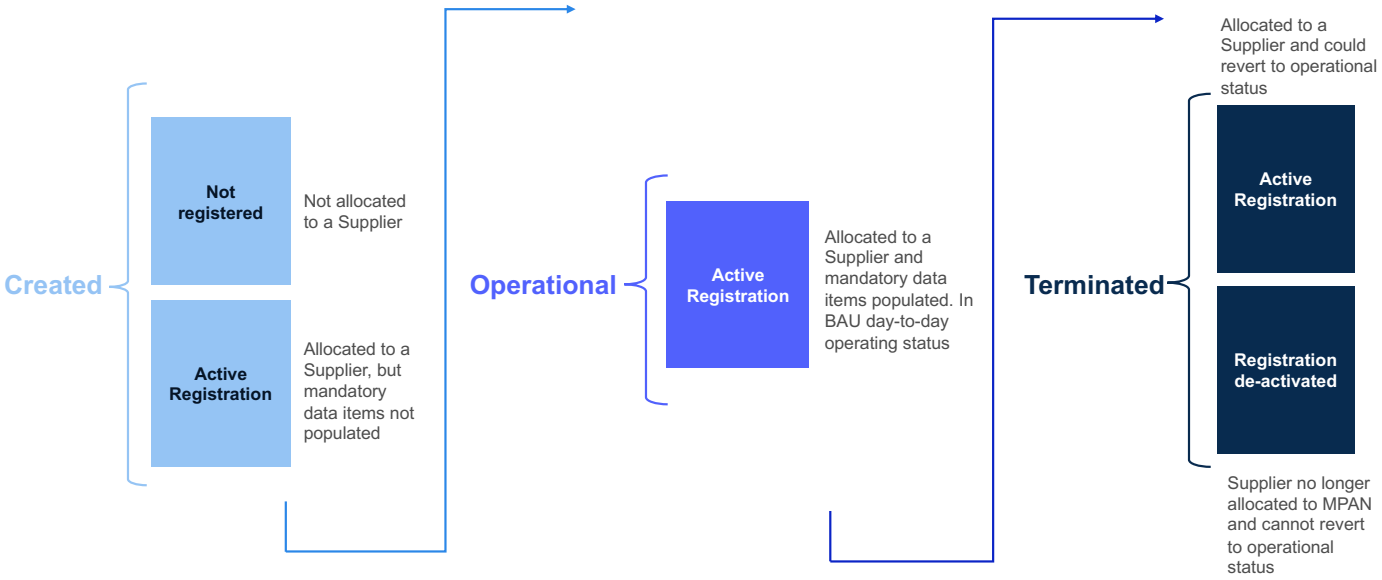

- **Created & Not Registered:** This is an MPAN that has been created but has not been allocated to a Supplier.
- **Created & Active Registration:** This is an MPAN that has been created and has been allocated to a Supplier, but does not have the mandatory data items populated.
- **Operational & Active Registration:** This is an MPAN that has been allocated to a Supplier, it has the mandatory data items populated and is currently operating in a BAU day-to-day operational status.
- **Terminated & Active Registration:** This is an MPAN that has been terminated but is still allocated to a Supplier and could be reverted to operational status.
- **Terminated & Registration de-activated:** This is an MPAN that has been terminated and no longer has a Supplier allocated to it. It cannot be reverted to operational status.

Where the term ‘mandatory data items’ has been used in the diagram and text above, this refers to the data items that are required, as a minimum, to update an MPAN’s RMP status from ‘Created’ to ‘Operational’. Under legacy arrangements, this required set of data items is defined in the BSCP501: Supplier Meter Registration Service, Section 3.6: New Connection for SVA Metering System. For ease, these data items are listed below:

- MPAN
- GSP Group ID
- LLF Class ID
- Metering Point Address
- Connection Type
- Metered Indicator
- Import / Export Indicator
- Associated Import / Export MPAN (where applicable)
- Energisation Status
- Confirmed DA, DC and MOP Appointment (Metered Only)
- Confirmed UMSO and MA Appointment (Unmetered Only)
- Measurement Class

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- MTC
- Profile Class (NHH Only)
- SSC (NHH Only)

Please note, under MHHS arrangements, the mandatory data item set will be updated. The updated set of data items can be found within MHHSP-BRS003-Registration Service Requirements v5.4 as part of the New Connection section.

5 Acceptable and Unacceptable MPAN States at M15

The key aim throughout the Migration Period will be to ensure that by M15 all MPANs are in one of the 'acceptable' MPAN States set out below and no MPANs exist in any of the 'unacceptable' MPAN states.

The Programme will develop a reporting process to track and assure the progress being made towards M15 throughout the Migration Period.

The working assumption is the Programme will use EES data to track the number of MPANs in each of the 'acceptable' and 'unacceptable' states. Once Migration is underway, this reporting will be shared with industry participants on a regular basis through the Migration Working Group (MWG).

The requirements for this reporting will be developed from Q1 2024 onwards through the development of the Migration Control Centre (MCC). These requirements will include:

- How EES data is ingested into the MCC;
- The timings for reporting;
- The approach to reporting through the Programme governance structure.

There will also be a requirement on Elexon to monitor the Interim Information (II) settlement run for the settlement date following M15 to ensure no data has been submitted by any Data Aggregators. In the event, that data is still being submitted to Data Aggregators in the II settlement run, the Initial Settlement run (SF) will also be monitored to ensure no data is being submitted from this point. If no data is showing as being submitted in the II run, there will be no requirement to monitor the SF run.

The metrics that will be tracked through this reporting mechanism include the below. The current thinking is each metric will be broken down at least by Supplier and LDSO. However, ultimately these reporting requirements will need to be defined to this level of detail through the design of the MCC.

- The number of MPANs that have been migrated;
- The outstanding number of MPANs to be migrated;
- The total number of MPANs remaining across all 'unacceptable' states.

5.1 Acceptable MPAN States at M15

The primary aim of the Migration Period will be to ensure that at M15, all MPANs are in one of the 'acceptable' MPAN states set out below. These are the only acceptable states that will be permissible at M15. Throughout the Migration Period, the MHHS Programme will regularly report on the number of MPANs that are in each of these states in order to track the progress of the MHHS Migration Period. How exactly this will be measured and when this reporting will be carried out will be developed through the MWG in Q1-Q2 2024 and will be captured in the requirements for the MCC.

5.1.1 A MPAN in an Operational state that has migrated to the MHHS arrangements

Definition: This is an MPAN that has been allocated to an MHHS qualified Supplier, it has the mandatory data items populated and is currently operating in a BAU MHHS day-to-day operational status.

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How it will be reported on: EES data will be used to confirm that both a Metering Service (MS) and a Data Service (DS) have been appointed for an MPAN. This will mean that the Registration Service has generated an IF-036 for both the MS and the DS and has sent a D0209 to de-appoint the Data Aggregator. All MS and DS appointments should be completed by the M15 date i.e. there are no future-dated appointments which remain yet to be processed and all Effective From Dates are either the M15 date or earlier.

When it will be reported on: The validation that all Data Aggregators have been de-appointed will occur shortly after the M15 date (approximately 3 working days after M15 as a guide) via reporting that confirms no settlement data relating to settlement dates on or post-M15 has been submitted under legacy arrangements in the II settlement run.

Ongoing operational reporting on this population will also occur throughout the Migration Period. The cadence for this reporting will be developed through the development of the requirements for the MCC.

5.1.2 A MPAN in a Terminated state that does not have a registration in an active state

Definition: This is an MPAN that has been terminated and no longer has a Supplier (MHHS or legacy) allocated to it. It cannot be reverted to operational status.

How it will be reported on: EES data will be used to confirm which MPANs have not been registered to a Supplier and have a 'Terminated' RMP status.

When it will be reported on: The validation that all active registrations have been de-activated for terminated MPANs will occur shortly after the M15 date (once the SLA for de-activation has passed).

Ongoing operational reporting on this population will also occur throughout the Migration Period. The cadence for this reporting will be developed through the development of the requirements for the MCC.

Note, there will be no requirement for the migration process to be executed for MPANs in this state.

5.1.3 A MPAN in a Created state that has a registration in an active state with a MHHS qualified Supplier

Definition: This is an MPAN that has been created and has been allocated to a MHHS qualified Supplier, but does not have the mandatory data items populated.

How it will be reported on: EES data will be used to confirm that an MPAN is registered to a MHHS qualified Supplier and has a 'Created' RMP status.

When it will be reported on: Ongoing operational reporting on this population will occur throughout the Migration Period. The cadence for this reporting will be developed through the development of the requirements for the MCC.

At the point of M15, a final report will also be produced to ensure that this criterion has been met.

Note, there will be no requirement for the migration process to be executed for MPANs in this state.

5.1.4 A MPAN in a Created state that no initial registration has been submitted for (Untraded)

Definition: This is an MPAN that has been created but has not been allocated to a (MHHS or legacy) Supplier.

How it will be reported on: EES data will be used to confirm that an MPAN is not registered to a legacy or MHHS qualified Supplier, has no agents appointed (legacy or MHHS) and has a 'Created' RMP status.

When it will be reported on: Ongoing operational reporting on this population will occur throughout the Migration Period. The cadence for this reporting will be developed through the development of the requirements for the MCC.

At the point of M15, a final report will also be produced to ensure that this criterion has been met.

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Note, there will be no requirement for the migration process to be executed for MPANs in this state.

5.2 Unacceptable MPAN States at M15

The primary aim of the Migration Period will be to ensure that at M15, all MPANs are in one of the 'acceptable' MPAN states. This means that no MPANs should be in an 'unacceptable' state at M15.

Throughout the Migration Period, the MHHS Programme will regularly report on the number of MPANs that are in each of the 'unacceptable' states to track the progress of the MHHS Migration Period. How exactly this will be measured and when this reporting will be carried out will be developed through the MWG in Q1-Q2 2024 and captured in the requirements for the MCC.

5.2.1 A MPAN in an Operational state that has a registration in an active state but has not been migrated to the new MHHS arrangements

Definition: This is an MPAN that has been allocated to a Supplier but is currently operating under the legacy arrangements.

How it will be reported on: EES data will be used to confirm the number of MPANs that have a 'Operational' RMP status and still have legacy Agents appointed.

When it will be reported on: Ongoing operational reporting on this population will occur throughout the Migration Period. The cadence for this reporting will be developed through the development of the requirements for the MCC.

At the point of M15, a final report will also be produced to ensure that this criterion has been met.

5.2.2 A MPAN in a Terminated state that has a registration in an active state but has not been migrated to the new MHHS arrangements*

Definition: This is an MPAN that has been terminated but is still allocated to a Supplier and could be reverted to legacy operational status.

*MPANs outside of the SLA for Suppliers de-registering will be treated as non-conformant at the end of the Migration Period.

How it will be reported on: EES data will be used to identify MPANs that have a 'Terminated' RMP status but have an active registration.

When it will be reported on: The validation that all active registrations have been de-activated for terminated MPANs will occur shortly after the M15 date (once the SLA for de-activation has passed).

Ongoing operational reporting on this population will occur throughout the Migration Period. The cadence for this reporting will be developed through the development of the requirements for the MCC.

At the point of M15, a final report will also be produced to ensure that this criterion has been met.

5.2.3 A MPAN in a Created state that has a registration in an active state with a Supplier that is not MHHS qualified

Definition: This is an MPAN that has a registration in an 'Active' state with a legacy Supplier (not MHHS qualified) and a 'Created' RMP status.

How it will be reported on: EES data will be used to identify MPANs that have a 'Created' RMP status and have a registration in an active state with a Supplier that is not MHHS qualified.

When it will be reported on: Ongoing operational reporting on this population will occur throughout the Migration Period. The cadence for this reporting will be developed through the development of the requirements for the MCC.

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At the point of M15, a final report will also be produced to ensure that this criterion has been met.

6 M15 Acceptance Criteria

This section sets out the complete set of M15 Acceptance Criteria. Each of these criteria will need to have been deemed as met by the MHHS Programme in order for the M15 milestone to be considered achieved.

1. **All MPANs exist in one of the 'acceptable' MPAN states**

   This means that all MPANs have been moved to one of the 'acceptable' MPAN states.

2. **No MPANs exist in any of the 'unacceptable' MPAN states**

   This means that no MPANs are in any of the 'unacceptable' MPAN states.

3. **No data is being sent through legacy settlement for any settlement dates on or after M15**

   This means that no data is being processed through legacy settlement processes for any settlement dates on or after M15. Whilst noting that post-M15, legacy settlement reconciliation will continue to take place for a finite period for settlement dates prior to M15.

7 Assumptions, Risks and Dependencies

7.1 Assumptions

- No reverse migrations will take place from M14 onwards.
- The MHHS Programme will have access to the relevant data to track progress towards achieving the acceptance criteria across the Migration Period.
- The Programme will share a reporting template with Programme participants that will allow data to be ingested into the MCC.

7.2 Risks

- There is a risk that there will be a number of MPANs that have still not been migrated towards the end of the Migration Period that places M15 at risk.
- There is a risk that the M15 date aligns to an I&C contract round.
- There is a risk that if current industry rules are not re-visited prior to M15, the state of Export MPANs on Supplier of Last Resort (SoLR) MPIDs will not be able to be changed by the new Supplier unless the customer agrees a new contract for these Export meters. If this remains to be the case at M15, these MPANs would be categorised as in an 'unacceptable' state and would prevent the attainment of M15. New industry rules need to be defined to prevent this.

7.3 Dependencies

- There is a dependency on Suppliers fulfilling their Migration Plans throughout the Migration Period.
- There is a dependency on the activities set out within the MHHS Data Cleanse Plan being completed ahead of the start of Migration.

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- There is a dependency on the M15 Acceptance Criteria reporting requirements being developed through the development of the MCC in 2024.

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