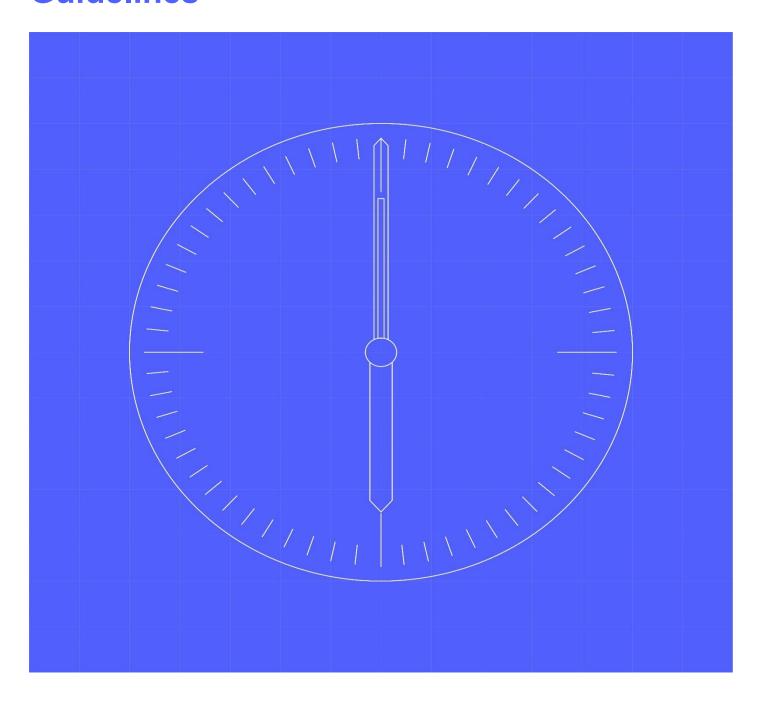


[02] Migration Framework - Principles and Guidelines



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MHHS Programme

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1.1 Change Record

Date	Author	Version	Change Detail
18/03/2024	Migration Team	v0.1	Draft for Industry Consultation
19/04/2024	Migration Team	V0.2	Revised Draft for Assurance Meeting
08/05/2024	Migration Team	V1.0	Version uplifted following MCAG Interim Approval
13/06/2024	Migration Team	V1.1	Draft for Industry Consultation 2
28/06/2024	Migration Team	V1.2	Updated following Industry Consultation comments
25/07/2024	Migration Team	V2.0	Version uplifted following MCAG Interim Approval
20/12/2024	Migration Team	V2.1	Draft for Consultation 3
31/01/2025	Migration Team	V2,2	Updated following Consultation 3 Industry Review
25/02/2025	Migration Team	V3.0	Interim Approved by MCAG
14/03/2025	Migration Team	V3.1	Draft for Consultation 4
11/04/2025	Migration Team	V3.2	Updated following Industry Review

1.2 References

Docume	ent	Publisher	Published	Additional Information
REF-1	MHHS-DEL2426-[01] Migration Framework Foundations v3.2	Migration Team	11/04/2025 (Draft)	Migration FW
REF-2	MHHS-DEL2427-[02] Migration Framework - Principles and Guidelines v3.2	Migration Team	11/04/2025 (Draft)	Migration FW
REF-3	MHHS-DEL2428-[03] Migration Capacity Calculations - Method Statements v3.2	Migration Team	11/04/2025 (Draft)	Migration FW
REF-4	MHHS-DEL2429-[03a] Calculations Monitoring and Control – Parameters v3.2	Migration Team	11/04/2025 (Draft)	Migration FW
REF-5	MHHS-DEL2430-[04] Migration Requirements and Processes v3.2	Migration Team	11/04/2025 (Draft)	Migration FW
REF-6	MHHS-DEL2431-[04a] Migration Business Process Models v3.2	Migration Team	11/04/2025 (Draft)	Migration FW
REF-7	MHHS-DEL2762-[05] Migration Choreography v3.2	Migration Team	11/04/2025 (Draft)	Migration FW
REF-8	MHHS-DEL2763-[06] Migration Governance and Escalation Framework v3.2	Migration Team	11/04/2025 (Draft)	Migration FW
REF-9	MHHS-DEL2764-[07] Migration Data Requirements and Reports v3.2	Migration Team	11/04/2025 (Draft)	Migration FW
REF-10	MHHS-DEL961 – Migration Design Document v1.5	Migration Team	26/03/2025	
REF-11	MHHS-DEL953 – Data Assessment Report v1.0	Migration Team	21/02/2023	
REF-12	MHHS-DEL1128 – Migration, Cutover and Data Strategy v1.0	Migration Team	02/06/2023	
REF-13	MHHS-DEL1648 - Migration Thresholds Document v2.0	Migration Team	25/02/2025	
REF-14	MHHS-DEL813 – Overarching Test Data Approach and Plan v1.0	Testing Team	19/07/2023	

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Document	Publisher	Published	Additional Information	
REF-15 MHHS-DEL1181 – Data Cleanse Plan v4.1	Migration			
TALE -13 WITH S-DEET TOT - Data Cleanse Flair V4.1	Team	01/04/2025		
REF-16 MHHS-DEL1792 - M15 Acceptance Criteria v2.0	Migration	25/02/2025	Migration FW	
NET - 10 WITHO-DEET 92 - WITO Acceptance Official v2.0	Team	25/02/2025	Wilgration 1 VV	
REF-17 MHHS-DEL3359 - Terminology and Glossary v3.2	Migration	11/04/2025 (Draft)	Migration FW	
TKLI -17 Willing-DEL3339 - Terminology and Glossary v3.2	Team	11/04/2023 (Diait)	Migration FVV	

1.3 Terminology

Please see MHHS-DEL3359 - Terminology and Glossary v3.2

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2 Introduction

2.1 Document purpose

The purpose of this document is to inform and guide Participants through the essential aspects of planning and managing migration activates in collaboration with the MCC. This document brings together the foundational principles and operational guidelines critical for the successful execution of the MHHS migration, including:

1. Migration Thresholds:

 An extension and elaboration of the Thresholds defined in MHHS-DEL1648 - Migration Thresholds Document v2.0

2. Core Principles:

Essential tenets that align with the overarching MHHS Programme and migration goals.

3. MCC and Migration Schedule Principles:

 Outlining the Migration Control Centre's approach to integrating individual Supplier Migration Plans into a single MHHS Migration Schedule that meets the Migration Framework Principles and aligns with the Migration Framework Core Principles.

4. Modelling Assumptions:

 A set of assumptions that can help predict and inform how the migration phase will operate to support modelling.

5. Guidelines:

 Operational instructions for daily migrations, capacity management, MHHS plans creation and submission and plan adherence.

This document should be read in conjunction with the following supporting artefacts.

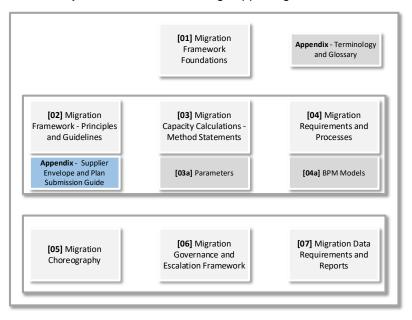


Figure 1 - Migration Framework Document architecture

The Migration Framework, overseen by the Migration Control Centre, will primarily focus on the initial setup of the Migration Schedule and its ongoing maintenance. This includes adapting to changes such as adjustments in qualification timelines and any deviations from the planned schedule.

This document, and supporting documents as listed in the References section, together with the migration timetable, form the MHHS Migration Plan that details the obligations, as defined in Section C12 of the Balancing and Settlement

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Code Section C, that defines the obligations on MHHS Market Participants relating to participation in the Migration of MHHS Metering Systems.

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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;
- NESO;
- Elexon Central Services (ECS);
- Electralink (DTN);
- REC and BSC Performance Assurance Boards; and
- UMSOs.

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4 Migration Thresholds and Limits Summary

Where values for Parameters are defined within this document they are for illustrative purposes. The definitive source for the Parameter values is:

- REF-4 MHHS-DEL2429-[03a] Calculations Monitoring and Control Parameters v3.2
- Also refer Capacity Calculation Methodology in REF-1 MHHS-DEL2426-[01] Migration Framework Foundations v3.2

#	Threshold Name	Description	Value	Period	Level	Notes
TH- 001	Daily Planned Migration Threshold	Maximum number of MPANs planned for migration each day	200,000	Daily	Total Network Volume	The Sum Total of LDSO Portfolio Thresholds for All LDSOs with a planned migration of active MPANs will not exceed this limit
TH- 002	Upper Migration Threshold	Absolute maximum number of MPANs that can be migrated on any given day	300,000	Daily	Total Network Volume	This limit included the Daily Planned Migration Threshold and the tolerances required for: 1) Re-submissions for retries and errors 2) Reverse Migration Capacity 3) Reserved headroom for exceptional processing 4) MCC Discretionary headroom to accelerate Migration during periods of high demand/contention 5) Exceptional Capacity in the event of a significant impact/deviation to the Migration Schedule to protect M15 milestone
TH- 003	LDSO Portfolio Thresholds (5)	LDSO Portfolio Size < 900K	10,000	Daily	LDSO	Limits set for each LDSO based on the size of their portfolio, ensuring balanced migration across different operators
TH- 004	LDSO Portfolio Thresholds (4)	LDSO Portfolio Size 900K - 1.4M	15,000	Daily	LDSO	Limits set for each LDSO based on the size of their portfolio, ensuring balanced migration across different operators
TH- 005	LDSO Portfolio Thresholds (3)	LDSO Portfolio Size 1.4M - 2.0M	20,000	Daily	LDSO	Limits set for each LDSO based on the size of their portfolio, ensuring balanced migration across different operators
TH- 006	LDSO Portfolio Thresholds (2)	LDSO Portfolio Size 2.0M - 3.0M	30,000	Daily	LDSO	Limits set for each LDSO based on the size of their portfolio, ensuring balanced migration across different operators
TH- 007	LDSO Portfolio Thresholds (1)	LDSO Portfolio Size > 3.0M	40,000	Daily	LDSO	Limits set for each LDSO based on the size of their portfolio, ensuring balanced migration across different operators

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5 Migration Principles

Collected principles from previous migration artefacts, reviewed and refined.

Where values for Parameters are defined within this document they are for illustrative purposes. The definitive source for the Parameter values is:

- REF-4 MHHS-DEL2429-[03a] Calculations Monitoring and Control Parameters v3.2
- Also refer Capacity Calculation Methodology in REF-1 MHHS-DEL2426-[01] Migration Framework Foundations v3.2

5.1 Migration Framework Core Principles

Core principles driving the migration strategy, such as fairness, transparency, and efficiency.

ID	Name	Principle Category	Statement	Rationale	Implications
MCP-01	Equitable Migration Scheduling	Business	A Migration schedule will be agreed with participants before M10 and allocation principles will govern the allocation of migration capacity to participants in an objective, fair and transparent manner.	To provide all participants with an equal opportunity to prepare for migration and to ensure the process is considered fair.	Participants must be ready to commit to a schedule by M10 and accept that allocation is based on predefined principles that may require flexibility from participants.
MCP-02	Schedule Flexibility	Architectural	Participants will be required to be flexible with their migration schedules to enable the optimal utilisation of the finite migration capacity and support fair capacity allocation.	Flexibility ensures that unavoidable changes in capacity or participant readiness can be managed without significant disruption to the overall migration.	Participants will need to adapt to potential rescheduling and reallocation of migration capacity and/or start dates as required.
MCP-02a	Schedule Flexibility	Business	The Migration Schedule should seek to provide as much flexibility to Suppliers in their migration planning as constraints allow	Suppliers will have differing approaches as to how they wish to manage their migration, and the approach should cater for that as far as is practicable	The MCC will need to ensure that Capacity Envelopes incorporate available headroom to allow suppliers to flex within that envelope and be able to identify areas where unused capacity may be offered to other participants.
MCP-02b	Schedule Flexibility	Communication	Participants will inform the MCC at the earliest opportunity should any events take place that could impact a party's ability to adhere to their migration schedule.	The MCC will continuously seek to re-allocate unused capacity	Avoid wasted capacity.
MCP-03	Maximized Migration Capacity Utilization	Migration Planning	The MCC will continuously seek to use all available capacity with the management of the migration schedule, monitoring of participant readiness, monitoring migration effectiveness and managing the re-allocation of capacity if required	To prevent any waste of migration capacity and demonstrate fairness according to reallocation principles when adjusting the migration schedule.	The MCC may need to make frequent adjustments to the schedule, and participants must be responsive to these changes. 1. Some changes may be at very short notice in exceptional circumstance when another supplier is unable to meet the committed capacity allocated in the migration schedule. 2. This can impact allocations on daily, monthly, and per LDSO levels.

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		Principle	27-[02]-Wilgration Framework-P	- Caldonillo Vo.2	
ID	Name	Category	Statement	Rationale	Implications
MCP-04	Delegated Schedule Management	Governance	The MCC will have delegated authority from the SRO to manage changes to the Migration Schedule and reallocations as per the MCC framework	Centralised authority allows for swift decision-making and consistent management of the migration process.	The MCC's decisions on schedule changes will be final, requiring participant adherence.
MCP-05	Migration Schedule Level	Data	The MCC will provide the total planned migrations per day, per Licensed Distribution System Operator (LDSO); and will regularly report on migration performance (success, exceptions).	Maintains stakeholder confidence and allows for informed decision-making by participants.	Regular, detailed reports will be made available when key events occur such as: 1. Expected Supplier Qualification Date changes and slippage in expected migration start 2. Consistent underutilisation of capacity allocation by Supplier. 3. New Supplier about to start migration for LDSO 4. Migrations schedules allocation defined and communicated per LDSO
MCP-06	Performance Metrics Visibility	Data	The MCC will provide transparency of participant performance to plan. This may be in the form of a RAG status and not participant MPAN volumes.	Openness about performance encourages accountability and continuous improvement, and collaborative, creative problem solving.	Participants will need to regularly provide data related to performance e.g. deviations from planned, routes to green.
MCP-07	Migration Schedule Planning	Migration Planning	The Supplier must appoint a Principal Contact and at least one Planner	The MCC must have an accountable person for Migration and confirmed person responsible for migration planning for each Supplier.	The MCC can escalate expediently when the issues related to migration performance or migration schedule submission arise.

5.2 MCC and Migration Schedule Principles

Principles specific to the creation and maintenance and monitoring of the migration schedule:

ID	Name	Principle Category	Statement	Rationale	Implications
MSP -01	Network Levelling	Thresholds	The application of Central Services Threshold and Individual LDSO Thresholds ensures that migration modelling adheres to key constraints Individual LDSO Thresholds are informed by the LDSO's portfolio size, and the Central Systems Threshold caps the aggregate number of migrations at 200k per day, with a provision for up to 280k	Ensures system stability and efficiency by preventing overload and ensuring equitable distribution of migration capacity among LDSOs	Migration modelling must account for both individual LDSO capacities and the overall system's capacity, impacting how migration slots are allocated and potentially limiting the number of migrations that can be conducted within a given period
MSP -02	Reserved Capacity	Capacity Allocation Migration Planning	Reserved capacity is essential for handling reverse migrations, erroneous migrations needing retries	Acknowledges the changeable nature of the migration schedule and the need for flexibility to address unforeseen issues and corrections, and reverse migrations for which we do not have a benchmark	A portion of the migration capacity is always available to address unexpected requirements, potentially reducing the overall daily migration capacity but increasing the robustness and adaptability of the migration schedule

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ID	Nama	Principle	-DEL2427-[02]-Migration Framework-	·	
ID	Name	Category	Statement	Rationale	Implications
MSP -03	Small Portfolio Challenges	Capacity Allocation	Below a certain threshold for small Suppliers' and small LDSOs', capacity envelopes are an inappropriate means to provide capacity constraints for the purposes of planning	Small portfolio sizes generate disproportionately small values for migration planning, complicating the allocation of migration capacities Similarly, when an LDSO portfolio is < 150K the share of Central Services Capacity the total potential share of central services capacity for these small portfolios is < 1K MPANs per day.	A separate approach is required to support small portfolios
MSP -04	Balancing Migration Initiation & Completio n	Thresholds	The MCC must consider both the initiation and completion stages of MHHS MPAN migrations. A concentration of load on specific effective start dates may lead to threshold breaches The MCC must consider both the initiation and complete in the initiation and completion stages of the initiation and completion and completion stages of the initiation and completion and completion stages of the initiation and completion	Avoid instances where Migration Thresholds breach / or individual systems capacity breach occurs as a result of concentrations of Agent Appointments confirmations having built up by previous days initiation activity	There must be a fixed duration between initiation and completion in the Core Migration Window and Ramp-Down. Shorter durations may be used in the Supplier Ramp-up Period or Industry Ramp-up Periods for small migration volumes to allow Participants to gain faster feedback. Suppliers must include Secondary MPANs counts within their Submissions to allow completions to be tracked.
MSP -05	MCC Calendar	Migration Planning Migration Coordination	A Migration Control Centre Calendar will be provided to mark the following:	To support effective migration planning and execution, participants need a clear understanding of the operational and non-operational days within the MHHS Migration environment	 Suppliers must use the Migration Calendar to align their migration submissions with the available operational days, accounting for non-migration periods To ensure that Suppliers and Agents are prepare to meet the submission deadlines for updated migration plans on a regular basis for the next migration sprint

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		Principle	DEL2427-[02]-Migration Framework-		
ID	Name	Category	Statement	Rationale	Implications
MSP -06	Industry & Supplier Ramp-Up Profile	Capacity Allocation Migration Planning	MHHS Migration should begin with low volumes to initially validate the overall system's performance and, subsequently, the performance of individual parties involved. Additionally, suppliers starting migration post-initial cohort are required to follow a ramp-up period based on a risk methodology before operating at full capacity to prove successful operation	Starting with lower volumes allows for the identification and resolution of issues without overwhelming the system	Suppliers Migration Allocation Envelopes with include Industry Ramp-up profiles and Supplier Ramp-up profiles which allows for system validation and performance assessment before ramping up to full capacity. This strategy should apply to all suppliers, including those starting after the initial ramp-up phase, to confirm operational readiness before full-scale migration including checks for any potential settlement issues with options to pause/stop migration.
MSP -07	Supplier Submission Granularity	Migration Planning	Removed	•	•
MSP -08	Core Migration Volume Completio n Period	Migration Planning MCC Approach	Migration modelling assumes that parties will use the majority of available capacity and that the period between the start of migration and when it is largely complete will be broadly similar for suppliers. • Suppliers are expected to maximize the use of available migration capacity and aim to have completed 90% of their portfolio by the end of the Core Migration Window. • NOTE: The definition of the Core Migration Window may be adjusted by the MCC with approval from MCAG. • NOTE: Where a suppliers submission falls under de minimis rules the Core Migration Window volume expectations will offer more flexibility.	Ensuring a timely and efficient migration for all participants by optimizing capacity usage and adhering to a structured timeline.	Suppliers need to strategically manage their migration submissions to align with the MCC Supplier Migration Capacity Envelopes and completion timelines while planning for the tail-end complexities and exceptions. NOTE: It is expected that Supplier Migration plans will show a significant left-bias with a long tail. The long-tail allowing for migration repair and complex scenarios. Challenges in migrating certain MPANs are acknowledged, and provisions for exceptions must be incorporated. Time-bound dependencies exist; such as Export MPAN creation, that impact migration rates for specific MPAN subsets.
MSP -08a	Data Driven Approach to the Definition of Scaling Factors	Capacity Allocation MCC Approach	Specific scaling factors relevant to the migration process will be configurable by the MCC and may be adjusted at a later stage, contingent upon the availability of more detailed information, including: • Qualification Timelines. • Suppliers' preferred start dates. • Supplier ecosystem cohort qualification timelines. • Anticipated daily migration volumes.	Allows for a more accurate and relevant approach to providing the Supplier Migration Capacity Envelopes when more information is available.	As above

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ID	Name	Principle	G-DEL2427-[02]-Migration Framework- Statement	Rationale	Implications
MSP -09	Daily Migration Thresholds per Supplier / LDSO	Capacity Allocation Migration Planning	To manage network and system capacities effectively and maintain fairness, the Migration Control Centre (MCC) will issue Migration Capacity Envelopes at the Supplier (MPID) - LDSO (MPID) level. These envelopes serve as the upper bounds for planning migration submissions, ensuring that the total submissions do not exceed the daily capacity of individual LDSOs or the overall system. The envelopes will be calculated based on the supplier's portfolio proportion within a given LDSO against that LDSO's network levelled threshold for a given day. Over time, as more suppliers become qualified within an LDSO, these envelopes will be scaled down to accommodate new entrants. Additionally, the envelopes will be tailored with a left bias in accordance with the Core Migration Volume Completion Period. Spare migration capacity will be identified and communicated to suppliers for potential use inline with the Unused-Capacity Allocation processes.	Establishing clear guidelines and capacity envelopes ensures that supplier submissions do not exceed network and system thresholds and constraints, while also allowing the MCC to forecast migration end-dates and uphold fairness principles.	Suppliers must adhere to their provided Migration Capacity Envelopes when planning submissions, adjusting their plans based on systematic feedback and available spare capacity. For Suppliers to make use of unused capacity their migration plans need to be able to respond to the short notice of availability of capacity within the Migration Sprint LDSOs will receive Aggregate views all Supplier plans per LDSO once confirmed.
MSP -10	Headroom for Migration Exceptions and Reverse Migrations	Migration Planning MCC Approach	Migration Exceptions and reverse migration events will inevitably occur and erode the overall migration capacity. This approach will initially reserve a portion of the Upper Migration Threshold capacity for handling such events. As migration progresses and a clearer understanding of the impact of errors and reverse migrations emerges, a more informed, risk-based approach will be employed to adjust the headroom within the exceptional circumstances threshold, either by releasing or reducing it based on actual migration outturn.	Accounting for errors and reverse migrations from the outset ensures that the migration schedule remains robust, resilient and adaptable, without significantly disrupting the overall migration capacity.	Suppliers and the MCC must plan for and manage the impact of errors and reverse migrations within the predefined exceptional circumstances capacity, adjusting strategies as actual data on these events becomes available.

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