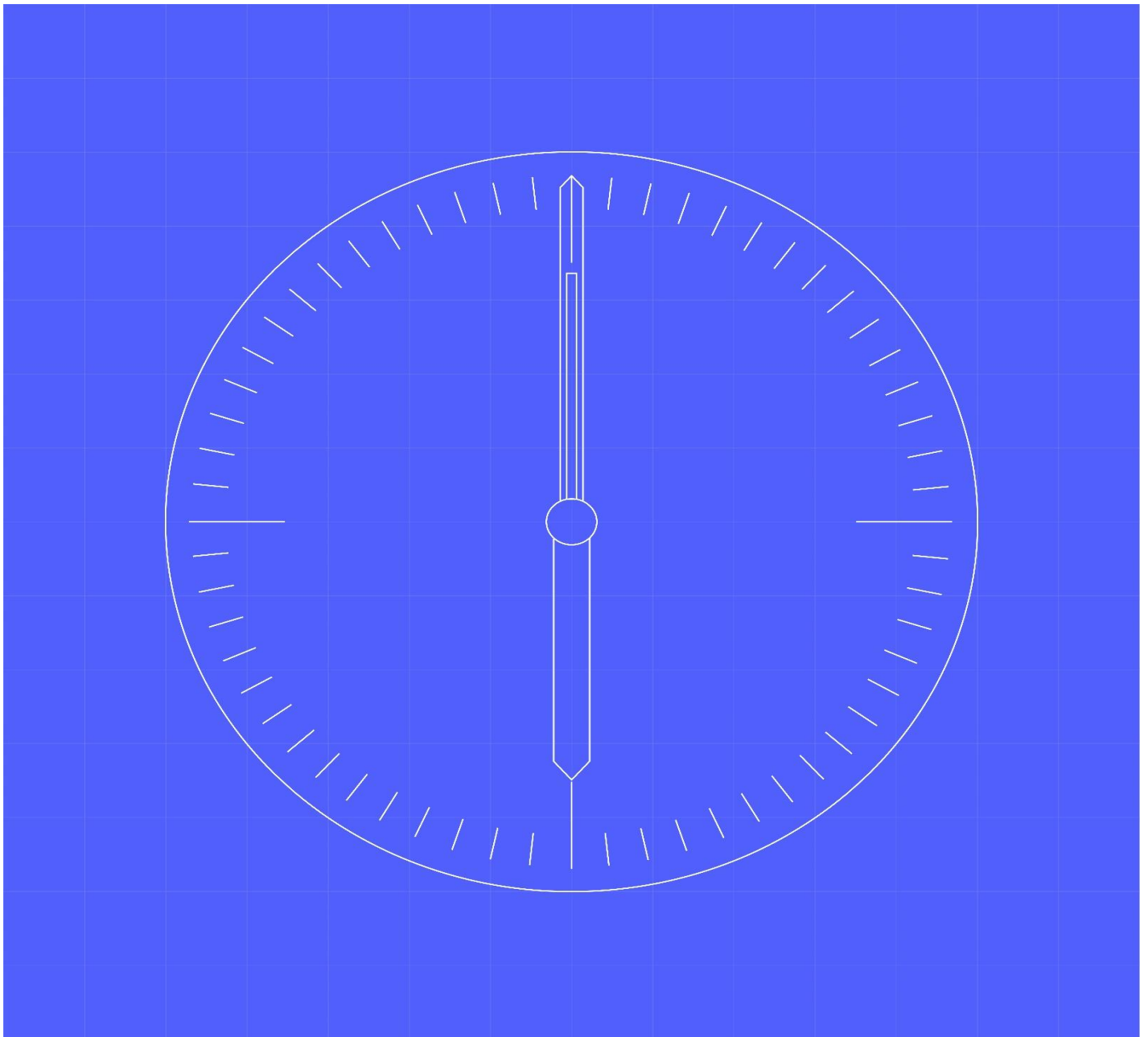# [03a] Migration Capacity Calculations - Parameters[03a] Calculation, Monitoring and Control - Parameters

Document owner	Document number	Version
MHHS Programme	**MHHS-DEL2429**	**2.1**
Status:	Date	Classification
C3 Update	**20 December 2024**	**Public**

1 Contents

1.1 Change Record

Date	Author	Version	Change Detail
18/03/2024	Migration Team	v0.1	Draft for Industry Consultation
19/02/2024	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

1.2 References

Document	Publisher	Published	Additional Information
REF-01 MHHS-DEL2426-[01] Migration Framework Foundations v2.1	Migration Team	20/12/2024 (Draft)	Migration FW
REF-02 MHHS-DEL2427-[02] Migration Framework - Principles and Guidelines v2.1	Migration Team	20/12/2024 (Draft)	Migration FW
REF-03 MHHS-DEL2428-[03] Migration Capacity Calculations - Method Statements v2.1	Migration Team	20/12/2024 (Draft)	Migration FW
REF-04 MHHS-DEL2429-[03a] Calculations Monitoring and Control – Parameters v2.1	Migration Team	20/12/2024 (Draft)	Migration FW
REF-05 MHHS-DEL2430-[04] Migration Requirements and Processes v2.1	Migration Team	20/12/2024 (Draft)	Migration FW
REF-06 MHHS-DEL2431-[04a] Migration Business Process Models v2.1	Migration Team	20/12/2024 (Draft)	Migration FW
REF-07 MHHS-DEL2762-[05] Migration Choreography v2.1	Migration Team	20/12/2024 (Draft)	Migration FW
REF-08 MHHS-DEL2763-[06] Migration Governance and Escalation Framework v2.1	Migration Team	20/12/2024 (Draft)	Migration FW
REF-09 MHHS-DEL2764-[07] Migration Data Requirements and Reports v2.1	Migration Team	20/12/2024 (Draft)	Migration FW
REF-10 MHHS-DEL961 – Migration Design Document v1.4	Migration Team	12/06/2024	Migration FW
REF-11 MHHS-DEL953 – Data Assessment Report v1.0	Migration Team	21/02/2023	Migration FW
REF-12 MHHS-DEL1128 – Migration, Cutover and Data Strategy v1.0	Migration Team	02/06/2023	Migration FW
REF-13 MHHS-DEL1648 - Migration Thresholds Document v1.1	Migration Team	20/11/2023	Migration FW
REF-14 MHHS-DEL813 – Overarching Test Data Approach and Plan v1.0	Testing Team	19/07/2023	Migration FW
REF-15 MHHS-DEL1181 – Data Cleanse Plan v2.1	Migration Team	04/06/2024	Migration FW
REF-16 MHHS-DEL1792 - M15 Acceptance Criteria v1.1	Migration Team	20/12/2024 (Draft)	Migration FW
REF-17 MHHS-DEL3359xxxx – Terminology and Glossary	Migration Team	20/12/2024 (Draft)	Migration FW

2   ~~Supplier Migration Capacity~~ Calculation, Monitoring and Control: Parameters

2.1   Introduction

This document, and supporting documents as listed in the References section, form part of the MHHS Migration Plan that details the obligations, as defined in Section C12 of the Balancing and Settlement Code Section C, that defines the obligations on MHHS Market Participants relating to participation in the Migration of MHHS Metering Systems.

2.2   Parameters, Data Types and Descriptions

The following table sets out the Parameters that are to be used in deriving the Scaled Supplier Capacity Envelopes, the Migration Tolerances and other items to be monitored by the Migration Control Centre. These envelopes will inform Suppliers of the Capacity within which it is expected that they shall submit their Migration Schedules.

Format Key: A = Alphanumeric

N = Numeric

D = Date

Type Key: I = Input Data for calculations

D=Derived data from other parameters

MCC=Configurable parameter by the MCC

R = Reporting data

This document also provides the current values set by the MCC for the configurable Parameters.

2.1.12.2.1 The following parameters shall be used in calculating Supplier Migration Capacity envelopes:

Abbrev	Parameter	Format	Type	Description/Comments	Date Source/Calculation / Notes / Default Value
Meter Point Counts and Party Identifiers					
LDSO	LDSO MPID	A	I	A valid Market Participant Identifier (MPID) for a qualified Licenced Distribution System Operator (LDSO) as set out in Industry Standing Data (ISD) Entity 45 for Market Participant Role Code "R".	**Data Source:** ISD and MDD
Supplier	Supplier MPID	A	I	A valid Market Participant Identifier for a ~~qualified~~ Supplier as set out in ISD Entity 45 ~~for~~ with a Market Participant Role Code "X". Or A valid Market Participant Identifier for a non-qualified Supplier as set out in MDD (Market Participant ID with a Market Participant Role Code "X".	**Data Source:** ISD and MDD
Supplier Group	Supplier Group MPID	A	MCC	An identifier used to represent a group of Supplier MPIDs that a Supplier wishes to consolidate under a single MPID for the purpose of migration planning and execution. This allows for aggregated portfolio management and simplifies the migration process for the Supplier.	**Data Source:** Suppliers and MCC **NOTE:** - The MCC will provide their Supplier Group MPID to Supplier MPID mappings as part of their Submission Templates.
D	Migration Date/Days	D	MCC	All dates upon which a migration will be initiated by a Supplier for a given Supplier Group MPID. ~~within an LDSO Region.~~	**Data Source:** MCC Migration Calendar
MWSD	Migration Window Start Date (Supplier Group)	D	I	Target or actual Migration Start date from when a Supplier will commence the Migration of its portfolio for the MPANs aggregated under the Supplier Group MPID.	**Data Source:** Suppliers and MCC **NOTE:** - All LDSOs related to the Supplier Group MPID for a Supplier will have the same Migration Window Start Date (Supplier Group). - The MCC will require confirmation of the Supplier current view of the Migration Start dates prior to Submission template generation.
IP	Initial Portfolio	N	D/R	The deemed initial Portfolio for all Suppliers in all LDSOs. Number of Trading Meter Points.	**Data Source:** EES
ISP	Initial Supplier (Group) Portfolio	N	D	The deemed initial Supplier Group Portfolio ~~within~~ across all ~~LDSO Regions.~~ Number of Trading Meter Points.	**Data Source:** Suppliers (Supplier Group MPID mapping) and EES
ISLP	Initial Supplier (Group) LDSO Portfolio	N	D	The deemed initial Supplier Group Portfolio within a LDSO Region. Number of Trading Meter Points.	**Data Source:** Suppliers (Supplier Group MPID mapping) and EES
LMPC	LSDO Metering Point Count	N	D	The deemed number of Metering Points within an LDSO Region. Number of Trading Meter Points.	**Data Source:** EES

Abbrev	Parameter	Format	Type	Description/Comments	Date Source/Calculation / Notes / Default Value
CSMT	Central Service Migration Threshold (CMST)	N	MCC	The unadjusted daily Central Service Migration. Per Migration day	**Data Source:** MCC and latest MHHS-DEL1648- Migration Threshold Document **NOTE:** - This threshold may be flexed from time to time between 200K and 300K for each migration day. - All Migration Working Days with associated CSMT are defined the Migration Calendar.
LT_R	LDSO Threshold	N	D	Threshold per LDSO Registration Service / MPID given the impact that migration will have on those individual services. Upper Limit for a given LDSO Threshold Tier for the number of daily migrations permitted Per LDSO	**Data Source:** MCC (Tier definitions) and EES (LDSO sizes) NOTE: Originally based on MHHS-DEL1648- Migration Threshold Document.
LTT	LDSO Threshold Tier	N	MCC	The LDSO Threshold Tier a LDSO belongs to according to its LSDO Metering Point Count	**Data Source: Data Source:** MCC NOTE: Originally based on MHHS-DEL1648- Migration Threshold Document. **Default Values:** See below
LTT_5	LDSO Threshold Tier 5	N	MCC	LDSO Threshold **Tier 5** range and upper limit for number of Migration per day	**Default Values for** LTT_5: LSDO Metering Point Count Range$_5$: **< 900K** LT_5: **10,000**
LTT_4	LDSO Threshold Tier 4	N	MCC	LDSO Threshold **Tier 4** range and upper limit for number of Migration per day	**Default Values for** LTT_4: LSDO Metering Point Count Range$_4$: **>= 900K to < 1,400K** LT_4: **15,000**
LTT_3	LDSO Threshold Tier 3	N	MCC	LDSO Threshold **Tier 3** range and upper limit for number of Migration per day	**Default Values for** LTT_3: LSDO Metering Point Count Range$_3$: **>= 1,400K to < 2.0M** LT_3: **20,000**
LTT_2	LDSO Threshold Tier 2	N	MCC	LDSO Threshold **Tier 2** range and upper limit for number of Migration per day	**Default Values for** LTT_2: LSDO Metering Point Count Range$_2$: **>=2.0M to < 3.0M** LT_2: 30,000
LTT_1	LDSO Threshold Tier 1	N	MCCC	LDSO Threshold **Tier 1** range and upper limit for number of Migration per day	**Default Values for** LTT_1`: LSDO Metering Point Count Range$_1$: **>= 3.0M** LT_1: **40,000**
DLT	De-MinimisDeminimis LDSO Threshold (DLT)	N	D	The A configurable De-MinimisDeminimis Threshold for LDSO Regions based on the LDSO Threshold Tier Upper Limit for the given LDSO.LSDO Metering Point Count.	**Default Value:** **150,000**

Abbrev	Parameter	Format	Type	Description/Comments	Date Source/Calculation / Notes / Default Value
DLFC	~~De-Minimis~~Deminimis LDSO Factor ~~(DLF)~~	N	D	A factor to be applied to the Central Service Migration Threshold to allow for migrations within ~~De-Minimis~~Deminimis LDSO Regions. - Per Day	**Data Source** MCC Migration Calendar, Supplier Migration Start Date, EES **Calculated:** As Per Method Statement
DLTF	Deminimis LDSO Threshold Flag	A	D	A Flag used to identify LDSO MPIDs as being below the Deminimis LDSO Threshold. (DLT) Either True "T" or False "F"	**Calculated:** As Per Method Statement
DSLT	~~De-Minimis~~Deminimis Supplier LDSO ~~Portfolio~~ Threshold ~~(DMSPT)~~	N	MCC	A configurable ~~De-Minimis~~Deminimis Threshold for Suppliers Groups within an LDSO to be excluded from Scaled Supplier Capacity Envelope Calculations.	**Default Value:** **40,000**
DSLFC	Deminimis Supplier LDSO Factor	A	D	A factor to be applied to allow capacity for Deminimis Supplier Migrations within an LDSO Region. - Per day D	**Calculated:** As Per Method Statement Deminimis **Suppliers Total** MPAN Count in LDSO/ Total MPAN Count in LDSO
DSLPTF	Deminimis Supplier LDSO Threshold Flag	A	D	A Flag used to identify Supplier MPIDs as being below the Deminimis Supplier Portfolio Threshold. Either True "T" or False "F"	**Calculated:** As Per Method Statement
ACSMT	Adjusted Central Service Migration Threshold ~~(ACSMT)~~	N	D	The Central Service Migration Threshold adjusted for LDSOs below the ~~De-Minimis~~Deminimis LDSO Threshold.	**Data Source:** **NOTE:**
ULMT	Unadjusted LDSO Migration Threshold ~~(ULMT)~~	N	D	The unadjusted daily Threshold for a Distribution region as set out in the MHHS-DEL1648- Migration Threshold Documentv1.0.	**Calculated:** LT (calculated from EES data) See LDSO Tiers
RCFC	Reserved Capacity Factor	N	MCC	A Factor to be applied to the Unadjusted LDSO Migration Threshold to calculate the Reserved Capacity - Linked to Reserved Capacity and LDSO Reserved Capacity	**Default Value:** **1.02**
LRC	Reserved Capacity ~~(RC)~~	N	D	A Capacity Reserved for re-tries and re-migrations where Reverse Migration has been undertaken - Per LDSO	**Calculated:** **(UMLT * RCF) – UMLT** **e.g. 800 Migrations**
LRCFC	LDSO Reserved Capacity Factor ~~(RCF)~~	N	MCC	A Factor to be applied to the Unadjusted LDSO Migration Threshold to calculate the Reserved Capacity - Per LDSO	**Default Value:** **1.02**
ALMT	Adjusted LDSO Migration Threshold ~~(ALMT)~~	N	D	The adjusted LDSO Migration Threshold based upon the Adjusted Central Service Migration Threshold and the Reserved Capacity.	**Calculated:** As Per Method Statement

Abbrev	Parameter	Format	Type	Description/Comments	Date Source/Calculation / Notes / Default Value
SLSF	Supplier LDSO Scaling Factor (SSF)	N	D	A configurable daily factor to be applied to the proportional Supplier Capacity Envelope within a LDSO Region. - Per Supplier Group - Per Day	**Default Values:** **Industry Ramp Up:** 0:1 (To be configured daily to meet ELS requirements per manual by MCC) **Supplier Ramp Up:** 0.1 **Core Migration Window:** 1.0 **Ramp Down**: 0.1 **Calculated:** Using: - Supplier Group Migration Start Date., - Industry Ramp Up duration - Supplier Ramp Up duration - Core Migration Window duration - Ramp Down duration
SSLCE	Scaled Supplier LDSO Capacity Envelope (SSCE)	N	D	The calculated proportional daily Supplier Group LDSO Capacity Envelope after the Supplier Scaling Factor has been applied.	**Calculated:** As Per Method Statement
IRUW	Industry Ramp Up Window (IRW)	N	MCC	The number of [weeks] defined for the Industry Ramp Up following MHHS Programme Milestone M11. - Per Supplier Group based Migration Start Date - Bounded by MCC – Fixed end date	**Default Values (Calendar Weeks):** - **ELS End Date (12 Weeks)** **Where the minimum 6 Weeks (latest Non- MVC start date)** **NOTE:** - **Suppliers with 5 Weeks or Less of ELS will be allocated Supplier Ramp Up**
SRUW	Supplier Ramp Up Window	N	MCC	The number of [weeks] defined for a Supplier to Ramp Up. - Per Supplier Group - Can be defined By Supplier within range - Must be complete calendar weeks	**Values (Calendar Months):** **Provider by Suppliers per Supplier Group:** - **Default 1 Month**
CMW	Core Migration Window	N	D	The number of [Months] used for calculation of the core Migration period for the Migration Envelopes. - Per Supplier Group based Migration Start Date - Per Group based on Supplier Ramp Up period duration preference	**Calculated (Calendar Months):** **DEFAULT Industry Ramp Up** **IF Has Industry Ramp Up:** - **CMW Window Ends at Non-SIT Start Date** **Supplier Ramp Up = 1 Month** - **then CMW = 6 Months** **See Migration Choreography for Weekly Level view.**
SRDW	Supplier Ramp Down Window	N	D	The derived number of [Months] after the Core Migration Window until the Programme Milestone M15. - Per Supplier Group	**Calculated:** **Period defined by -** **M15 end date- (Ramp Up + CMW)**

Abbrev	Parameter	Format	Type	Description/Comments	Date Source/Calculation / Notes / Default Value
RURP~min~	Ramp ~~UP~~ Up Range Percentage Minimum ~~(RMP~min~)~~	N	MCC	For Deminimis Supplier Group LDSOs: In the first month following a Supplier's migration start date the minimum percentage of MPANs that must be migrated within each LDSO Region where the Supplier has registered MPANs.	**Default Value: 0.05 (5%)**
RURP~max~	Ramp Up~~P~~ Range Percentage Maximum ~~(RMP~max~)~~	N	MCC	For Deminimis Supplier Group LDSOs: In the first month following a Supplier's migration start date the maximum percentage of MPANs that can be migrated within each LDSO Region where the Supplier has registered MPANs.	**Default Value: 0.1 (10%)**
CMWC~~T~~P	Core Migration Window ~~End Target~~Completion Percentage	N	MCC	For Enveloper Supplier Group LDSOs: The Target percentage of a Suppliers Migrations that are expected to have completed ~~occur~~ by the end of their Core Migration Window.	**Default Value: 0.9 (90%)**
DDPRU	Deminimis Number of Migration Days Post Ramp UP~~Minimum (MIG~min~)~~	N	MCC	For Deminimis Supplier Group LDSOs: Upon successful conclusion of the Supplier Ramp U~~u~~p the remaining MPANS must be migrated in no fewer than the Migration Day Minimum Migration Dates.	**Default Value: 20 Days**
DMSP	Deminimis Migration Submission Percentage~~De-Minimus Maximum (Demin~max~)~~	N	MCC	For Deminimis Supplier Group LDSOs: The percentage of an LDSO Threshold that a De~~Mimimus~~ mimimis Suppliers cannot exceed on any individual Migration Date.	**Default Value: 0.1 (10%) of LDSO Threshold**
SSPT	Small Supplier Portfolio Threshold~~Minimum (Port~min~)~~	N	MCC	The Total Supplier MPAN count below which no Supplier submission constraints will be applied, in terms of numbers for Migration allowed per migration working day.	**Default Value: 500 Trading MPANs**
EMT-L1	Excess Migration Tolerance Level 1 ~~over (MTL1O)~~	N	MCC	The configurable Migration Tolerance which is set to monitor fluctuations on migrations above the Supplier submission which will not result in any action by the MCC. - Per Day - Cumulative (Rolling period)	**Default Value: + 5%**
SMT-L1	Shortfall Migration Tolerance Level 1 ~~under (MTL1U)~~	N	MCC	The configurable Migration Tolerance which is set to monitor fluctuations on migrations below the Supplier submission which will not result in any action by the MCC. - Per Day - Cumulative (Rolling period)	**Default Value: - 5%**

Abbrev	Parameter	Format	Type	Description/Comments	Date Source/Calculation / Notes / Default Value
EMT-L2~~1~~	Excess Migration Tolerance Level 2 ~~over (MTL2O)~~	N	MCC	The configurable Migration Tolerance which is set to monitor fluctuations on migrations above the Supplier submission which will not result in an intervention by the MCC. - Per Day - Cumulative (Rolling period)	**Default Values:** **>+5 and <+ 10%**
SMT-L2~~1~~	Shortfall Migration Tolerance Level 2~~under (MTL2U)~~	N	MCC	The configurable Migration Tolerance which is set to monitor fluctuations on migrations below the Supplier submission which will not result in an intervention by the MCC. - Per Day - Cumulative (Rolling period)	**Default Values:** **<- 5% and >-10%**
EMT-L3~~1~~	Excess Migration Tolerance Level 3 ~~over (MTL3O)~~	N	MCC	The configurable Migration Tolerance which is set to monitor fluctuations on migrations above the Supplier submission which will result in an escalation to the appropriate governance. - Per Day - Cumulative (Rolling period)	**Default Value:** **> +10%**
SMT-L3~~1~~	Shortfall Migration Tolerance Level 3 under (MTL3U)	N	MCC	The configurable Migration Tolerance which is set to monitor fluctuations on migrations below the Supplier submission which will result in an escalation to the appropriate governance. - Per Day - Cumulative (Rolling period)	**Default Value:** **<- 10%**
MMID	Migration Message Initiation Date	D	R	The date of the submission of the Migration Initiation (IF031) message by a Supplier.	**Data Source: IF031 Message:** **Message Initiation Date**
MMAD	Migration Message Appointment (Effective From) Date	D	R	The Appointment Effective Date specified in the (IF031) message.	**Data Source: IF031 Message:** **Effective Date (Service Provider Appointment Date)**

Abbrev	Parameter	Format	Type	Description/Comments	Date Source/Calculation / Notes / Default Value
MAO $_{def}$	Migration Activation Offset (Default)	D	R	Calculated by the MCC in working days. The Interval between the initiation of a migration process (Migration Initiation Date) and the Appointment Effective Date. Note: • These are working days, excluding weekends and UK bank holidays, but do not account for specific Migration Non-Working Days (e.g., contract rounds). • The working days, migration days, and migration non-working days are defined in the Migration Calendar provided by the MCC. • Ensures there is a predictable number of migration appointment messages (IF036) and allows the MCC to protect network capacity in-line with the migration thresholds document.	**Default Value:** **5 Calendar Day**
FF	Fast Feed Back Period		MCC	short constrained "Fast feedback" period to allow suppliers to ensure systems stability early in an efficient manner on the Forward CoA migrations during part of their ramp-up periods only according to the specific rules. See Section "Capacity Considerations for the Initiation and Completion of Migration Messages" in **Error! Reference source not found.** REF 01 **Error! Reference source not found.** MHHS-DEL2426-[01] Migration Framework Foundations v2.0	
MAO $_{min}$	Fast Feed Back Period - Migration Activation Offset (Minimum)	D	C	Applies to Fast Feedback Period ONLY. The lower boundary of the Migration Activation Offset range during the Supplier Hypercare sub-phase of Ramp-up. It sets the minimum number of working days allowed between the Migration Initiation Date and the Migration Appointment Date during this phase. • Enables expedited processing for testing and fast feedback loops. • Ensures rapid assessment of migration readiness while maintaining manageable volumes.	**Default Value:** **2 Calendar Day**

Abbrev	Parameter	Format	Type	Description/Comments	Date Source/Calculation / Notes / Default Value
MAO _max_	Fast Feed Back Period - Migration Activation Offset (Maximum)	D	C	Applies to Fast Feedback Period ONLY. The upper boundary of the Migration Activation Offset range during the Supplier Hypercare sub-phase of Ramp-up. It sets the maximum allowable gap of 4 working days between the Migration Initiation Date and the Migration Appointment Date for this phase.	**Default Value:** **4 Calendar Day**

MAO _act_	Migration Activation Offset (actual)	D	R	Outturn Measurement for MCC tracking and reporting.
				The Interval between the
				   - initiation of a migration process (Migration Initiation Date) – Actual Submission of PUB31 received.
				   - Actual completion of the Appointment Effective Date when PUB36 received.
				REPORING DATA ITEM
					Calculated:
					
					Data Source: IF031 Message and IF036 Message:
					
					MMAD - MMID
					
					Effective Date (Service Provider Appointment Date)

Note: the configurable parameters set out above will be ~~determined~~ revised and updated by the MCC once more is understood about the Qualification wave, Supplier Target Migration Start Dates, and subsequent modelling of Migration Capacity, ~~s~~ and therefore may be the subject to change in accordance with the process in MHHS-DEL2426-[01] Migration Framework Foundations v2.1~~MHHS-DEL2426-[01] Migration Framework Foundations v2.1.~~~~of a subsequent consultation.~~