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Deep Dive: Settlement

Session Overview

Approach

- We will use the Design Playback Deep Dives to provide a lower level of detail on the specific topics

- Our Design Subject Matter Experts will take 60-90 minutes to discuss the topics, as well as fielding any questions or comments

Purpose

- Today's session will cover the Settlement process in more detail. Including the new services; timeline'; outputs, including flows and reports; and process, etc.

- We will also respond to any questions, comments or queries you may have

Outcomes

- By the end of today's session, you will have:
    - [A better understanding of Settlement as it relates to the Design
    - An opportunity to have any questions, comments or queries answered

Outputs

- We will issue the slide pack and a link to the recording for this session

- All questions submitted on Slido and asked in person will be logged and the answers transcribed and edited for comprehension

- These will also be issued to all attendees

Slido and Rules of Engagement

- Some questions have been submitted in advance to drive the initial discussion

- Additional questions can be submitted at Slido.com with the code below, or raise your hand on Teams, the facilitator will handle sequencing

- Subject discussions are timeboxed to fifteen minutes to allow breadth of subjects to be discussed

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Questions - slido.com #MHHSSettlement

Settlement Session Content

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Today's Deep Dive will cover the following topics:

- MHHS TOM Overview of Elexon Central Services

- Industry Standing Data

- The Market-wide Data Service

- The Load Shaping Service

- The Volume Allocation Service

- ECS Interfaces
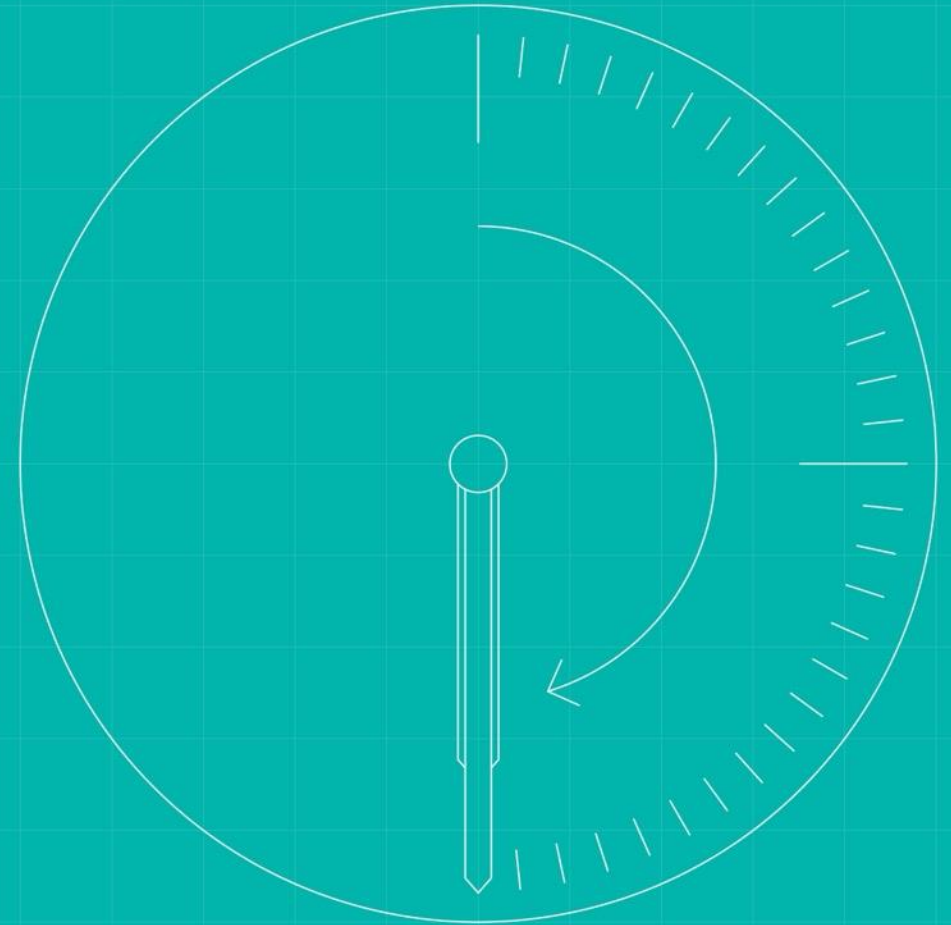
- ECS Reporting

- Operational Choreography

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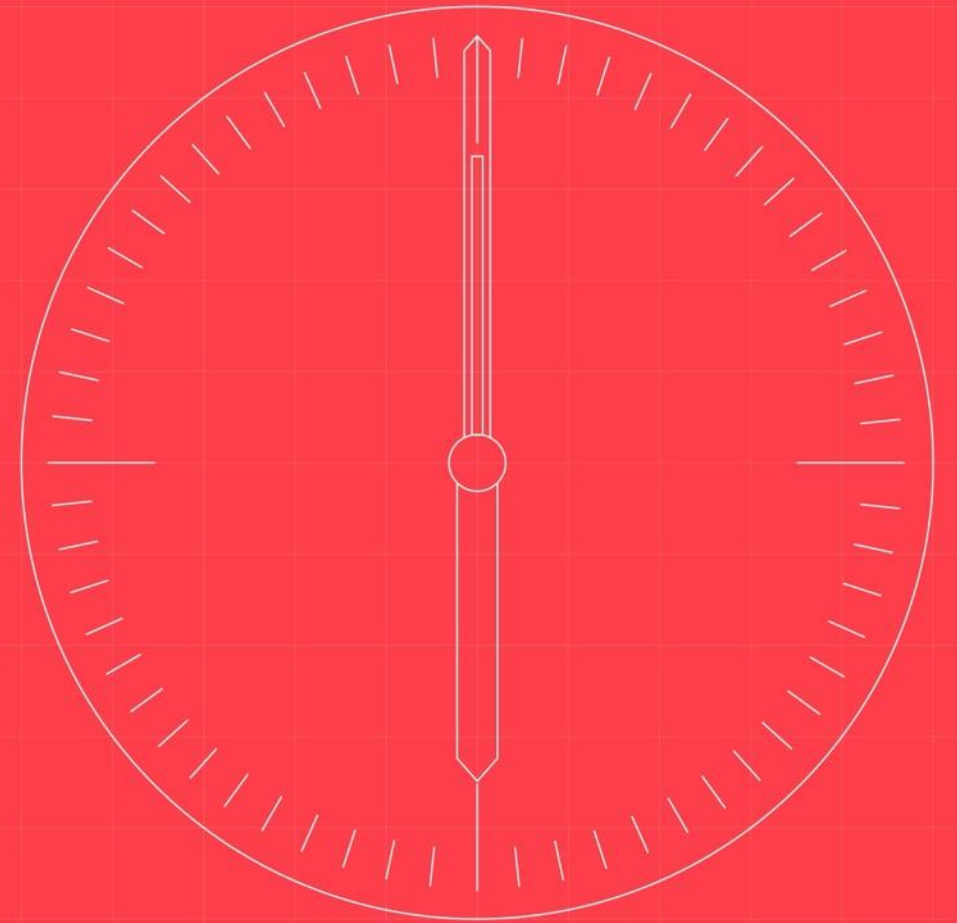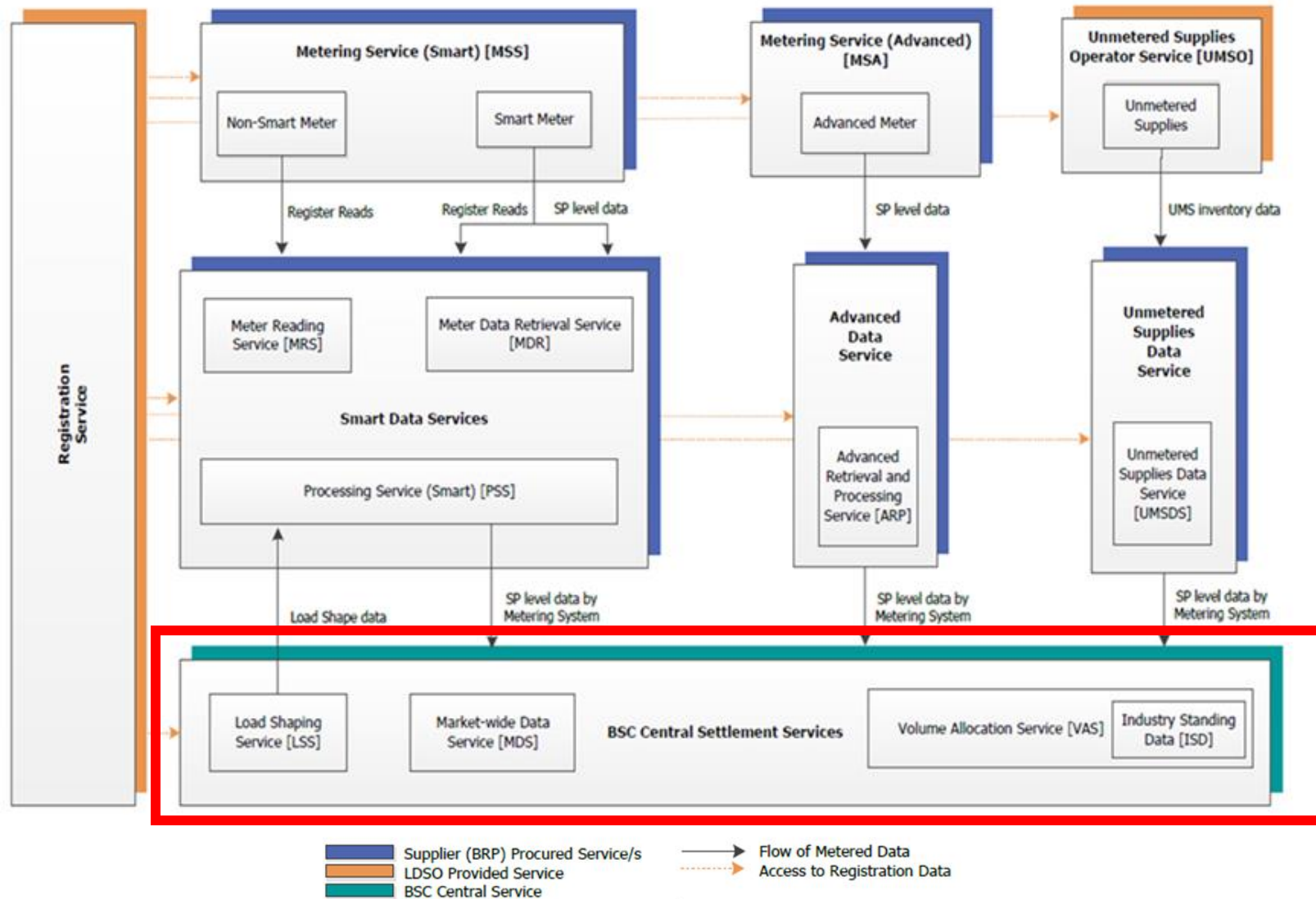
MHHS TOM Overview of Elexon Central Services

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Industry Standing Data

The Industry Standing provided in amended new ISD Entities as set out in MHHSP_EDI021_ISD_Entities v3.0:

The Market-wide Data Service

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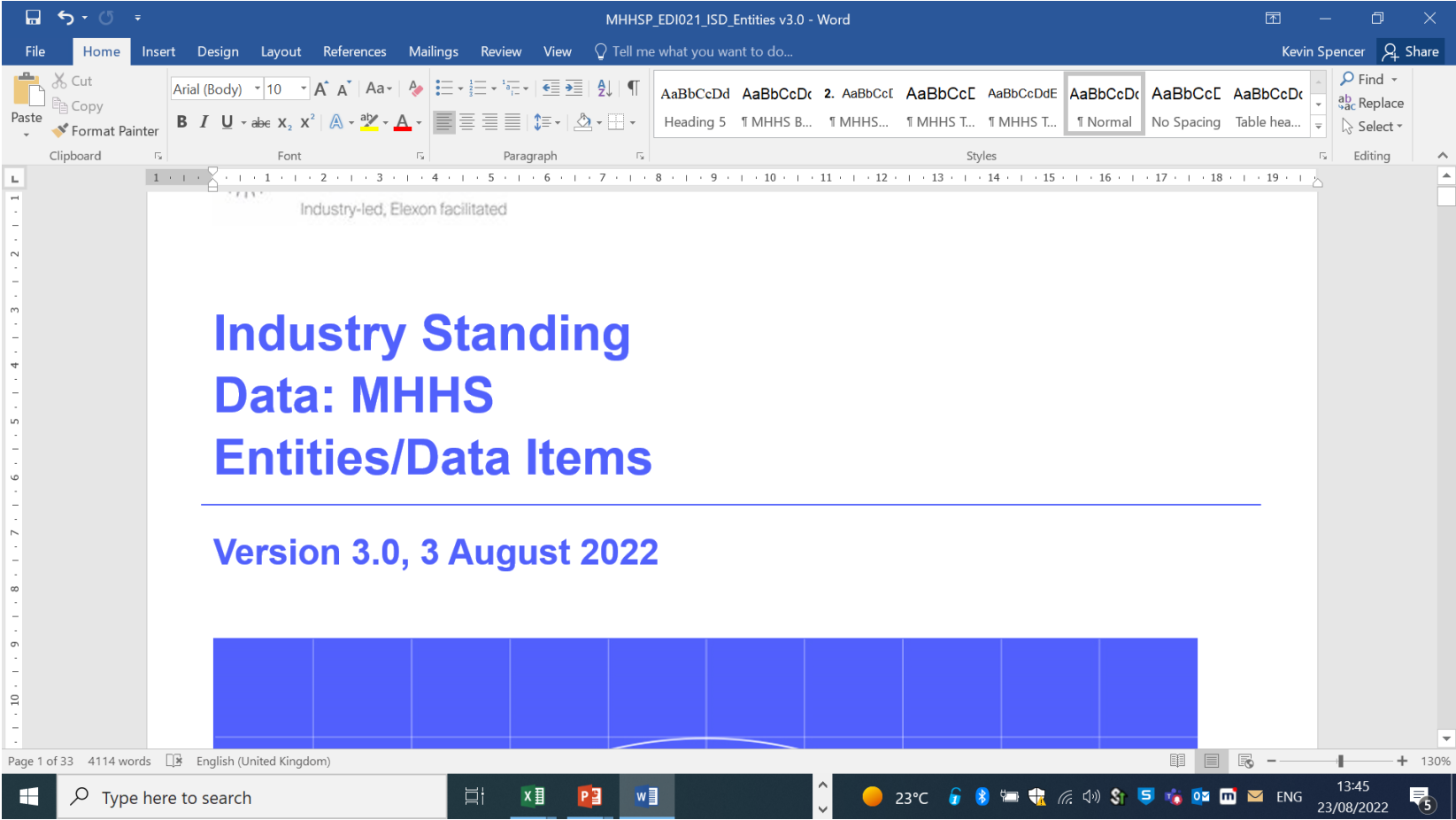
The Market-wide Data Service aggregates consumption and export data and calculates line losses.
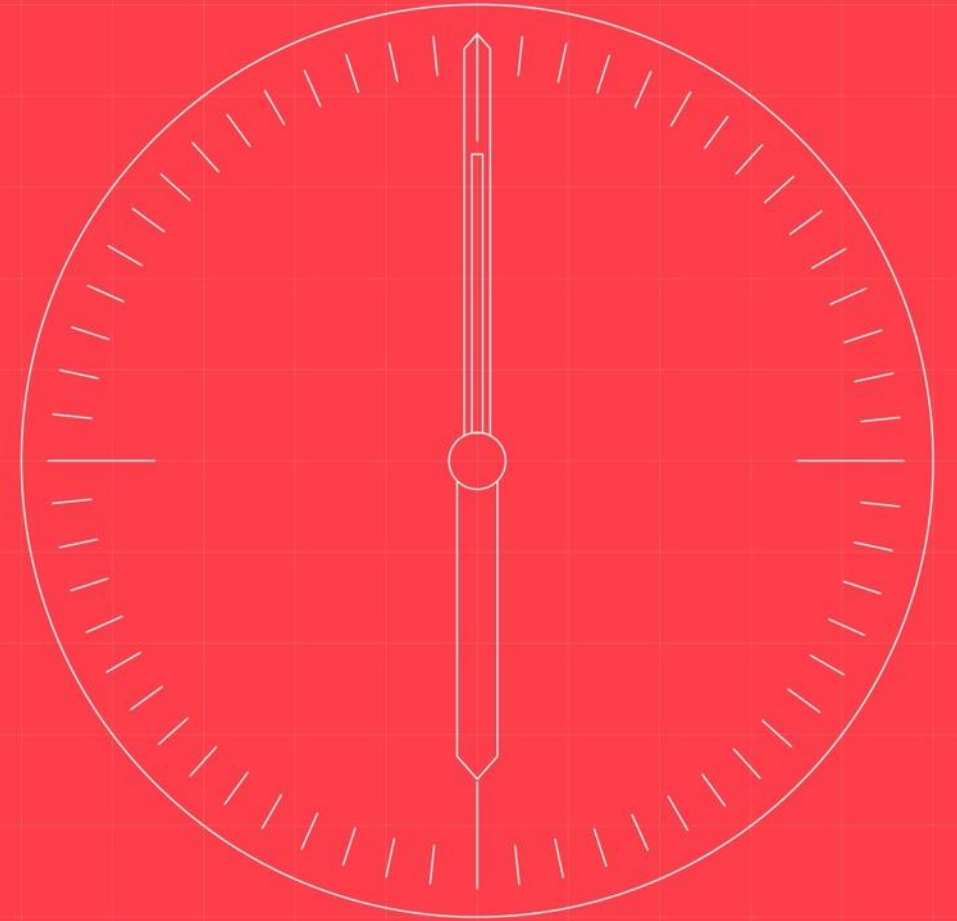The following artefacts relate to MDS:

MHHSP - BRS008 – Market-wide Data Service Requirements (ECS) v3.0

MHHSP-METH007_MDS_Method_Statementv3.0

MHHSP - BPD019 - Market-wide Data Service (ECS) v3.0

MHHSP-METH008_DDE_Method_Statement v3.0

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The Load Shaping Service
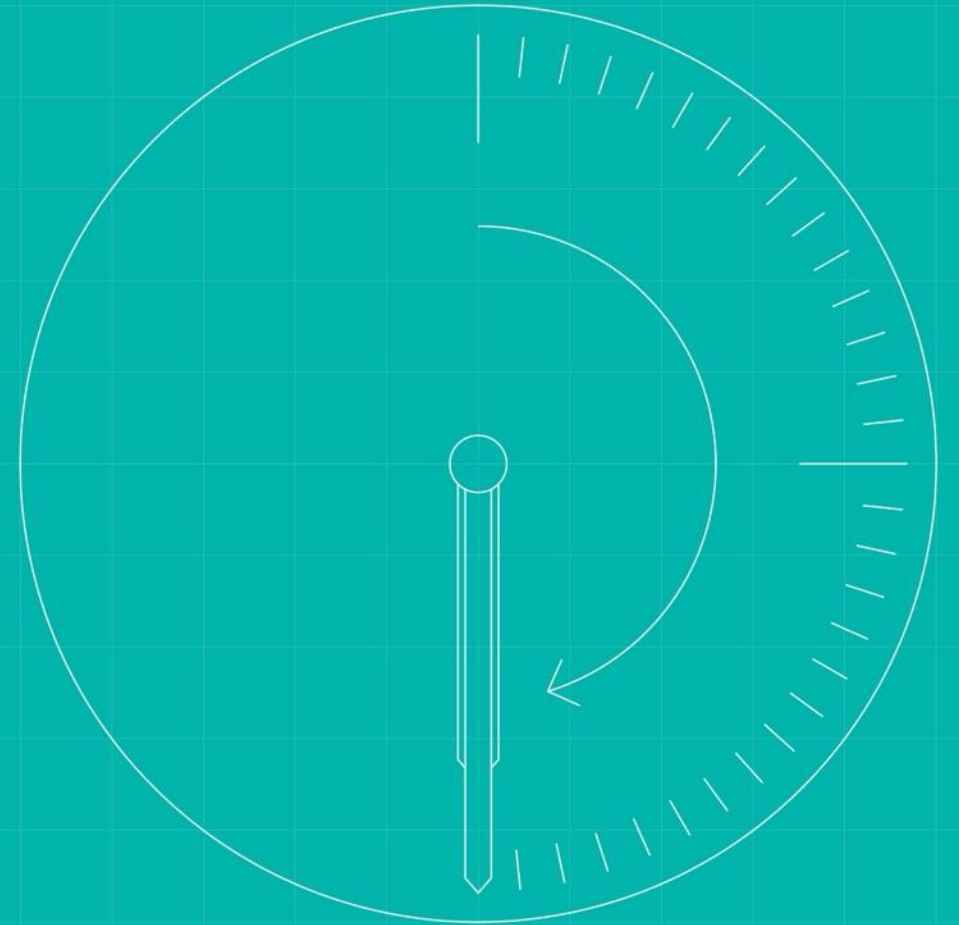
The Load Shaping Service calculates Load Shapes for Data Service estimation and defaulting. The following artefacts relate to LSS:

MHHSP - BP018 - Load Shaping Service (ECS) v3.0

MHHSP - BRS007 - Load Shaping Service Requirements (ECS) v3.0

MHHSP_METH005 LSS_Method_Statement v3.0

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The Volume Allocation Service
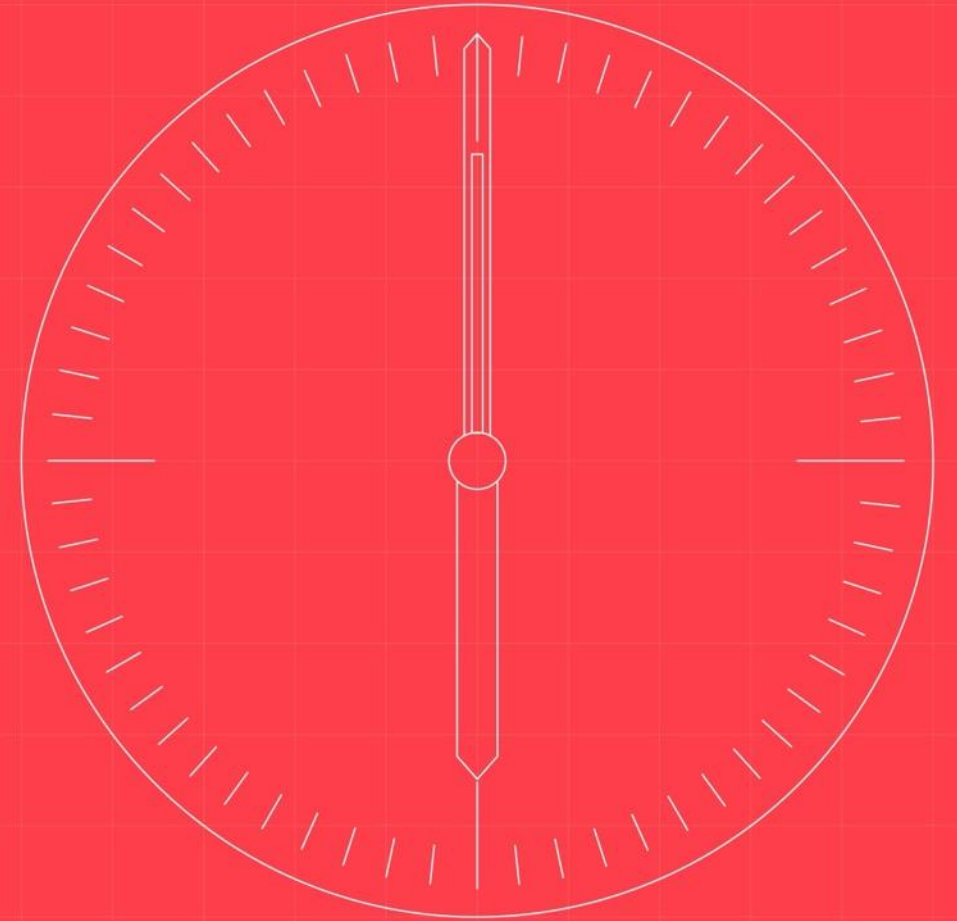
The Volume Allocation Service allocated and corrects Supplier volumes by Balancing Mechanism Unit. The following artefacts relate to VAS:

MHHSP - BP020 - Volume Allocation Service (ECS) v3.0

MHHSP-METH006_VAS_Method Statement v3.0

MHHSP-METH006_VAS_Method Statement v3.0

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ECS Interfaces

All the MHHS DIP Interfaces are set out in MHHSP DES138 Interface Catalogue_v0_3 the main outgoing ones for ECS are as follows:
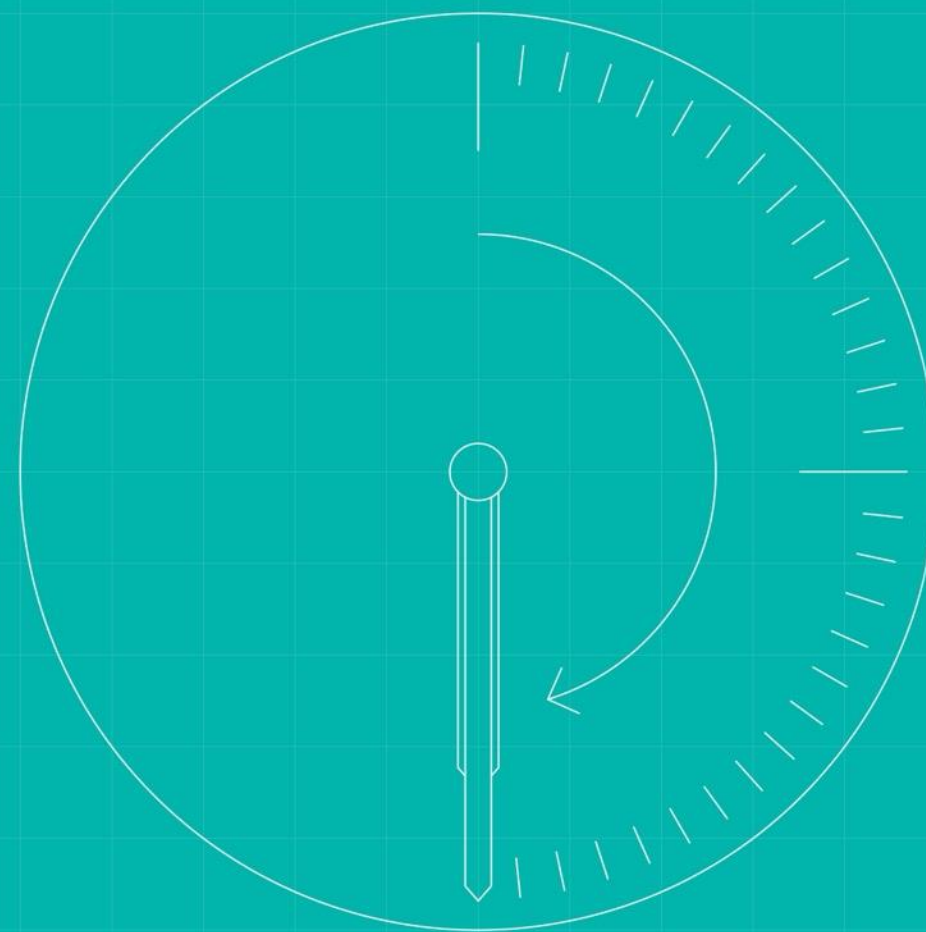
MHHSP-IF-022   LSS Period Data: Load Shape Period Data

MHHSP-IF-023   LSS Totals Data: Load Shape Period Data

MHHSP-IF-013   MDS Defaults Applied: Notification of MDS Applied Default Consumption

MHHSP-IF-014   Rejected Consumption Data Submission: Rejection of Settlement Period Consumption Data (previously IF-105)

MHHSP-IF-047   Notification of the Publication of a Downloadable Asset: URI Listing showing location of Downloadable Resources (For example ISD)

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All the MHHS DIP Interfaces are set out in MHHSP DES138 Interface Catalogue_v0_3 the main incoming ones for ECS are as follows:

MHHSP-IF-001   Notification of Change of Supplier: Notification of Change of Supplier

MHHSP-IF-018   Notification of Registration Data Item Changes: Notification of Registration Data Item Changes, usually made by LDSO / DCC

MHHSP-IF-021 UTC Settlement Period Consumption Data: Transmission of SP Consumption Data from Data Service to Settlements

MHHSP-IF-026   Registration Service Notification of Supplier Data Chg: Registration Service outcome of Request to update Supplier Maintained data in Registration Service e.g.. Domestic Ind / Granularity / IHD Info

MHHSP-IF-043   Registration Service Notification of Change of Connection Type: Registration Notification of a Successful Change in Connection Type

MHHSP-IF-044   Registration Service Notification of Change of Segment: Registration Notification of a Successful Change in Market Segment

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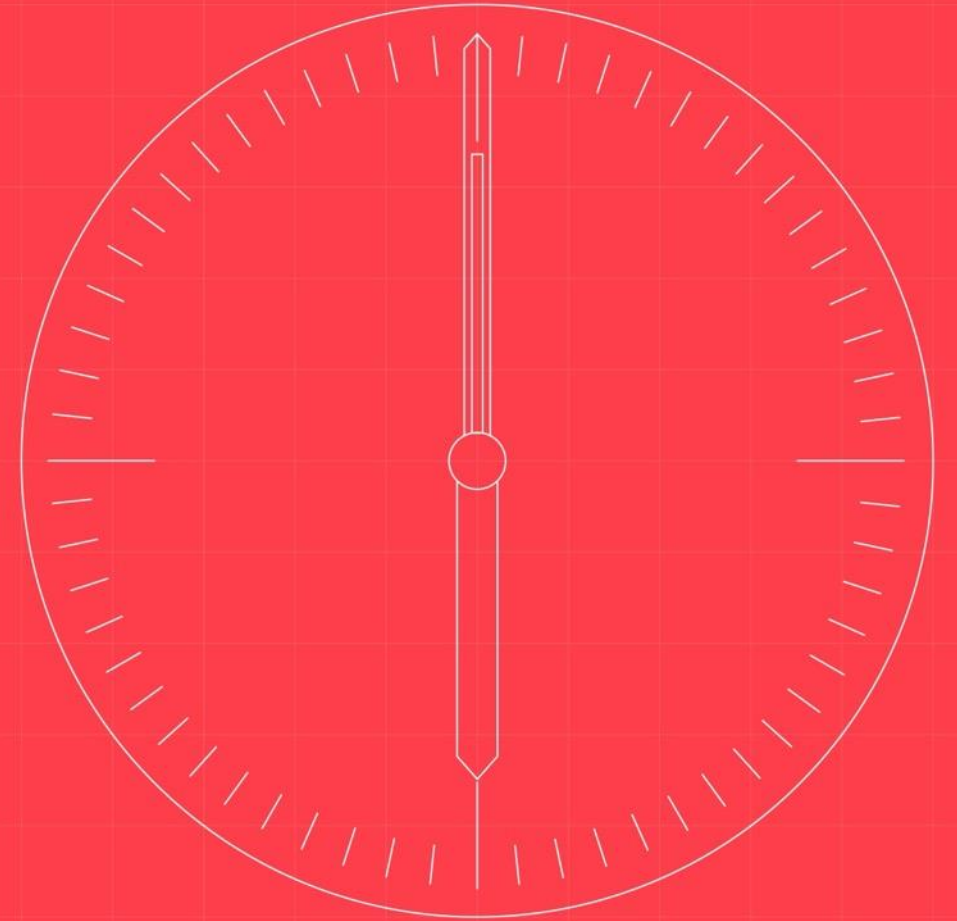
ECS Reporting

Once the Settlement Calculations have been completed several reports will be provided by ELEXON Central Systems. The format of the reports can be found in MHHSP - ERl011B - ECS Reports - External v3.0

The key DIP reports containing are:

REPORT ID	Interface ID	Interface Name	From	To
MHHS-REP-002	MHHS-IF-115	LDSO report for DUoS – aggregated data	Market-wide Data Service	Licenced Distribution System Operators
	MHHS-IF-120	LDSO report for DUoS – aggregated data	Market-wide Data Service	Licenced Distribution System Operators
	MHHS-IF-125	Supplier report for DUoS – aggregated data	Market-wide Data Service	Suppliers
MHHS-REP-003	MHHS-IF-140	BM Unit Allocated Demand Volumes to Market Participants	Volume Allocation Service	Market Participants
MHHS-REP-004	MHHS-IF-150	Supplier Deemed Take Report	Volume Allocation Service	Suppliers
MHHS-REP-006	MHHS-IF-175	Aggregated Uncorrected volumes by CCC to Market Participants	Market-wide Data Service	Market Participants

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A number of DTN report will also be provided. The format of the reports can be found in MHHSP - ERI011B - ECS Reports - External v3.0

The key DTN reports are:

REPORT ID	Interface ID	Interface Name	From	To
MHHS-REP-D0081	MHHS-IF-D0081	D0081 Supplier Half Hourly Demand Report	Volume Allocation Service	Suppliers
MHHS-REP-D0296	MHHS-IF-D0296	D0296 Supplier BM Unit Report	Volume Allocation Service	Suppliers
MHHS-REP-D0266	MHHS-IF-D0266	D0266 Supplier Header Report	Volume Allocation Service	Suppliers
MHHS-REP-D0369	MHHS-IF-D0369	D0369 Aggregated Disconnected DUoS Report	Volume Allocation Service	LDSOs and Suppliers
MHHS-REP-D0370	MHHS-IF-D0370	D0370 Supplier Half Hourly Demand Disconnection Report	Volume Allocation Service	Suppliers
MHHS-REP-D0374	MHHS-IF-D0374	D0374 Supplier BM Unit Demand Disconnection Report	Volume Allocation Service	Suppliers
MHHS-REP-D0373	MHHS-IF-D0373	D0373 GSP Group Demand Disconnection Totals Report	Volume Allocation Service	Suppliers

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The VAS also has a number of new Internal reports that are sent between the ECS Central Services.

These are identified in MHHSP - ERI011A - ECS Reports - Internal v3.0

Report ID	Interface ID	Interface Name	From	To
ELEX-REP-020	ELEX-IF-110	MDS Data for EMRS	Market-wide Data Service	EMRS
ELEX-REP-030	MHHS-IF-130	MPAN data for Other BSC Systems	Market-wide Data Service	Other BSC Systems
ELEX-REP-040	MHHS-IF-135	BM Unit Allocated Demand Volumes to SAA	Volume Allocation Service	Settlement Administration Agent
ELEX-REP-050	MHHS-IF-145	GSP Group Correction Factors for Other BSC Systems to Elexon	Volume Allocation Service	Elexon
ELEX-REP-060	MHHS-IF-155	VAS Exception Report to MDS	Volume Allocation Service	Market-wide Data Service
ELEX-REP-070	MHHS-IF-160	VAS Exception Report to CDCA	Volume Allocation Service	Central Data Collection Agent
ELEX-REP-080	MHHS-IF-165	P0210 TUoS Report	Volume Allocation Service	Electricity System Operator
ELEX-REP-090	MHHS-IF-180	Aggregated Uncorrected volumes by CCC to VAS	Market-wide Data Service	Volume Allocation Service

The VAS also has a number of amended Internal reports that are sent between the ECS Central Services.

These are identified in MHHSP - ERI011A - ECS Reports - Internal v3.0

Report ID	Interface ID	Interface Name	From	To
ELEX-REP-P0036A	MHHS-IF-P0036A	P0036 Default Data (relating to Data Service defaults only)	Volume Allocation Service	BSC Panel
ELEX-REP-P0048	MHHS-IF-P0048	P0048 GSP Group Correction Factor	Volume Allocation Service	Suppliers
ELEX-REP-P0236	MHHS-IF-P0236	P0236 BM Unit SVA Gross Demand Data	Volume Allocation Service	Settlement Administration Agent
ELEX-REP-P0237	MHHS-IF-P0237	P0237 BM Unit Disconnected Supplier Take Energy Volume Data	Volume Allocation Service	Settlement Administration Agent
ELEX-REP-P0213	MHHS-IF-P0213	P0213 Energy Breakdown (Settlement Period and Supplier)	Volume Allocation Service	BSCCo
ELEX-REP-P0214	MHHS-IF-P0214	P0214 Energy Breakdown (BM Unit)	Volume Allocation Service	BSCCo
ELEX-REP-P0194	MHHS-IF-P0194	P0194 BSC Agent Details	Volume Allocation Service	Central Registration Agent
ELEX-REP-P0275	MHHS-IF-P0275	P0275 Supplier Quarterly Volume Report	Volume Allocation Service	BSCCo

Operational Choreopraphy
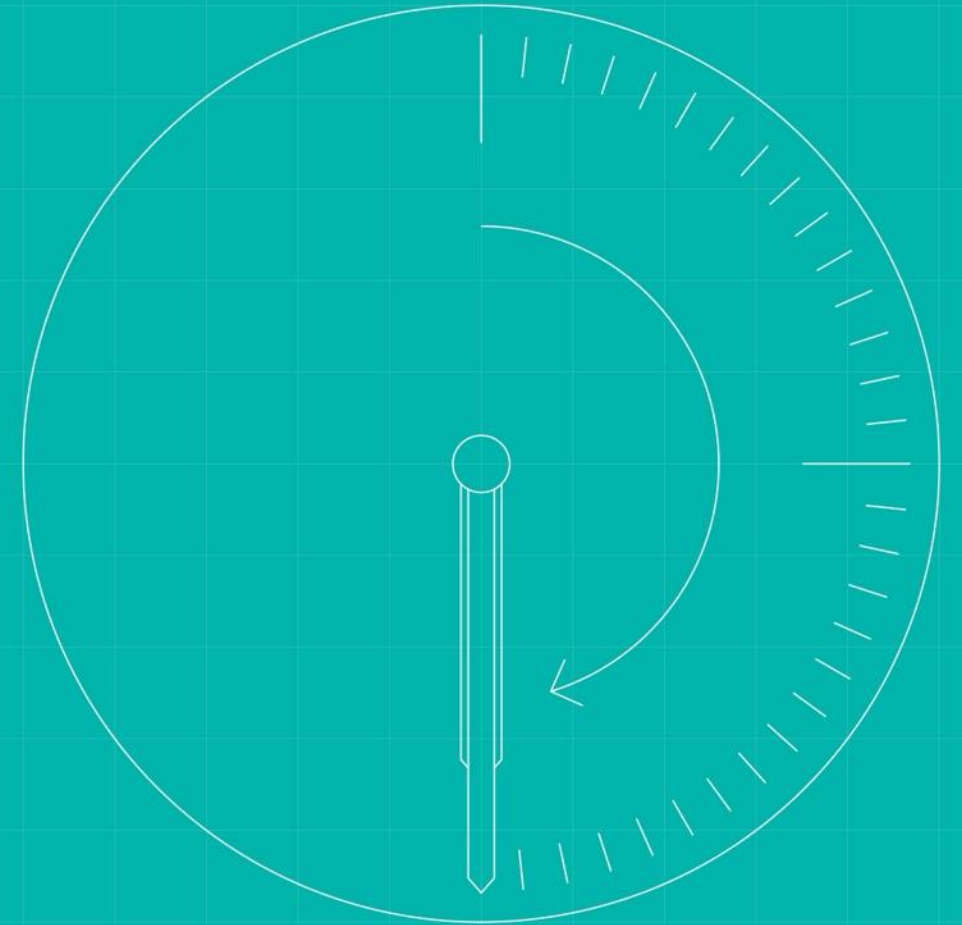
The Operational Choreography can ne found in MHHSP_OC001_Operational_Choreography v1.0
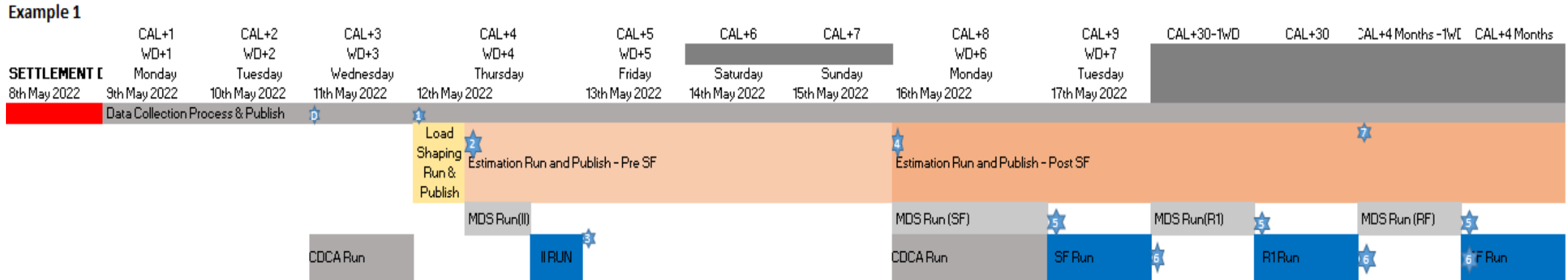
This document defines any timing constraints for the operation of the MHHS business processes where they differ from the current arrangements.

It identifies the impact of changes to Settlement Timeline informed by the processing and publication of Half Hourly consumption data provided by the Advanced Data Service, Unmetered Data Service and Smart Data Service.

Constraints are also driven by the requirement for ECS services to consume and process Half-Hourly consumption data ahead of data aggregation and settlement processing and volume allocation

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A visual representation of this processing sequence is as follows:

Example 1

| | CAL+1 WD+1 Monday 9th May 2022 | CAL+2 WD+2 Tuesday 10th May 2022 | CAL+3 WD+3 Wednesday 11th May 2022 | CAL+4 WD+4 Thursday 12th May 2022 | CAL+5 WD+5 Friday 13th May 2022 | CAL+6 Saturday 14th May 2022 | CAL+7 Sunday 15th May 2022 | CAL+8 WD+6 Monday 16th May 2022 | CAL+9 WD+7 Tuesday 17th May 2022 | CAL+30-1WD | CAL+30 | CAL+4 Months -1WD | CAL+4 Months |

SETTLEMENT D — 8th May 2022

Data Collection Process & Publish

Load Shaping Run & Publish

Estimation Run and Publish – Pre SF

Estimation Run and Publish – Post SF

MDS Run(II)

MDS Run (SF)

MDS Run(R1)

MDS Run (RF)

CDCA Run

II RUN

CDCA Run

SF Run

R1 Run

RF Run

D SDS to collect and publish consumption data via IF-21 immediately following D
ADS to collect and publish consumption data via IF-21 immediately following D
UMS to publish appropriate sets of consumption data on a daily basis

1 Load shaping process will incorporate all consumption data received by 00:00 on WD+4

2 Load Shape will have been processed and published by 12:00 on CAL+4

3 MDS Run and II Run will have been completed with associated notifications by 17:00 on WD+4

4 Pre-SF Best Estimates will have been generated and published by Data Services by 00:00 on WD+6

5 MDS Runs to complete by 17:00

6 Settlement Runs to have been completed with associated notifications by 17:00

7 All actual consumption and best estimates to be provided by CAL+4 Months -1 WD

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Any questions?

Please join at Slido.com

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