Deep Dive: Advanced

26 August 2022

MHHS-DEL[xxx]

Version 1.0 MHHS PPC Team

Session Overview

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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 changes relating to Advanced sites
- 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 changes relating to Advanced sites
  - An opportunity to have your questions, queries and comments answers
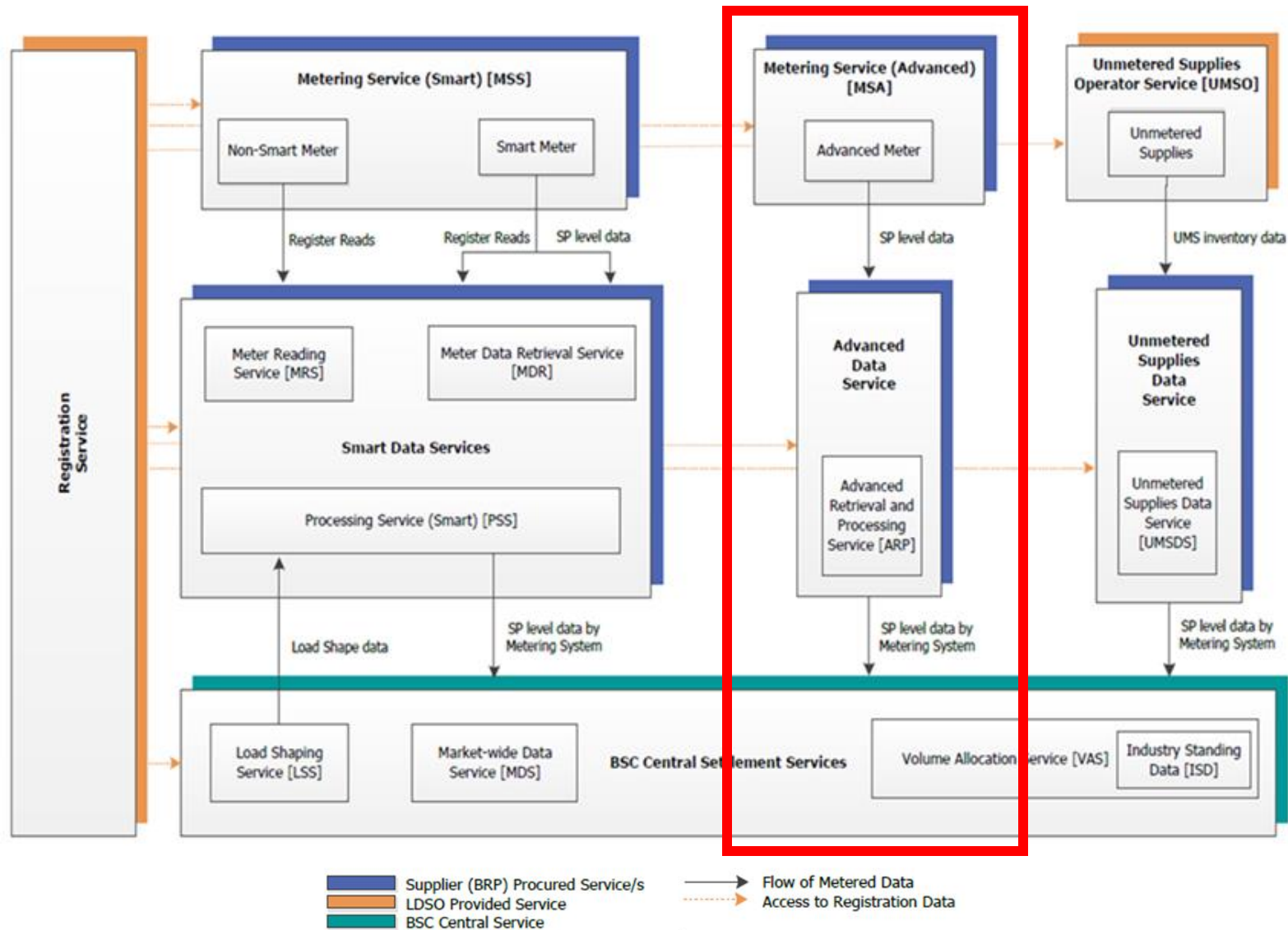
Outputs

- 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 #MHHSAdvanced

Today's Deep Dive will cover the following topics:

- MHHS TOM Overview for Advanced

- What is and what isn't changing

- MHHS Business Processes

- Data Validation and Estimation for Advanced

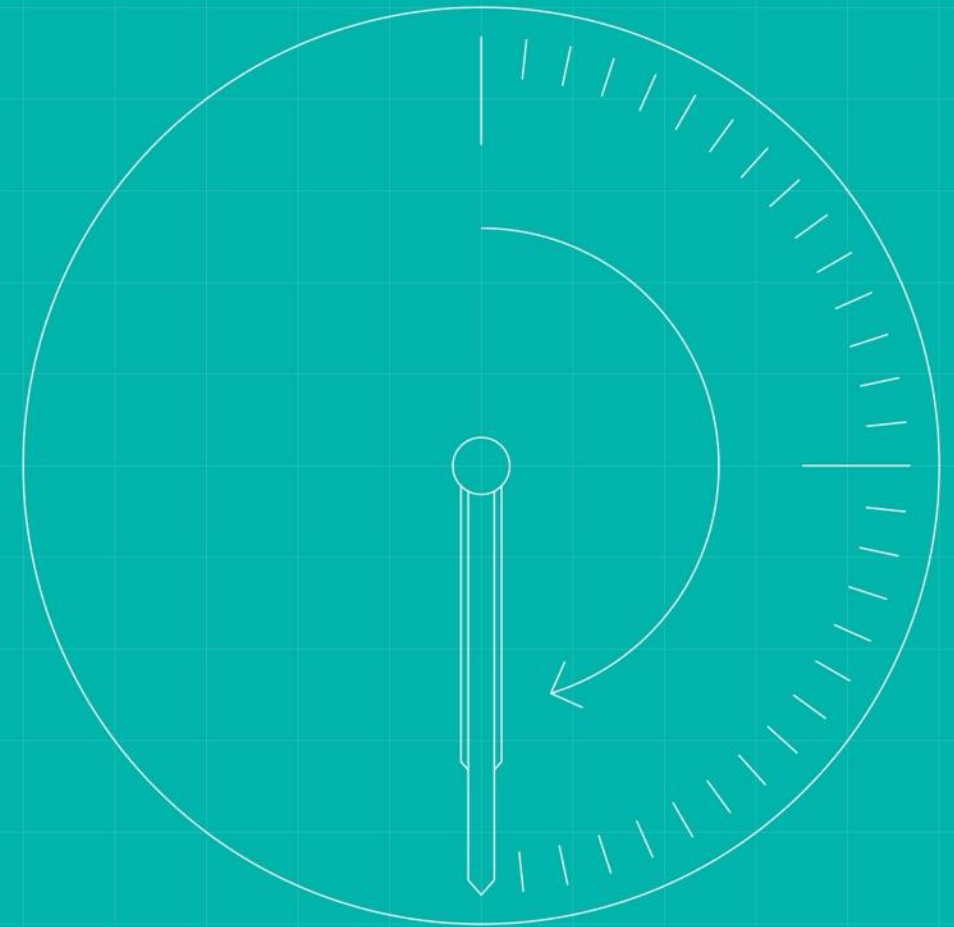- DIP Interfaces

- ECS Reporting

- Operational Choreography

What **isn't** changing for existing HHDCs and SVA MOAs (MEMs)

- Data retrieval processes for Advanced Meters

- Physical site work for MOAs (e.g., De-energisations)

- Transfer of MTDs to other MOAs and ADSs

- Commissioning, Proving Tests and Protocol Approvals

- Fault notification and resolution processes

- Existing customer facing activities and/or services

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What **is** changing for existing HHDCs and SVA MOAs/MEMs?

- Expanded meter portfolio (~1.2m, adding ~900k whole current Advanced meters)

- New interfaces to Registration Service and Elexon Central Systems

- New validation and estimation methods (including for domestic opt-out)

- New ISD data items, e.g., Connection Type, Market Segment, Annual Consumption*

- New Operational Choreography SLAs and timings

- New reports from Elexon Central Systems (ECS)*

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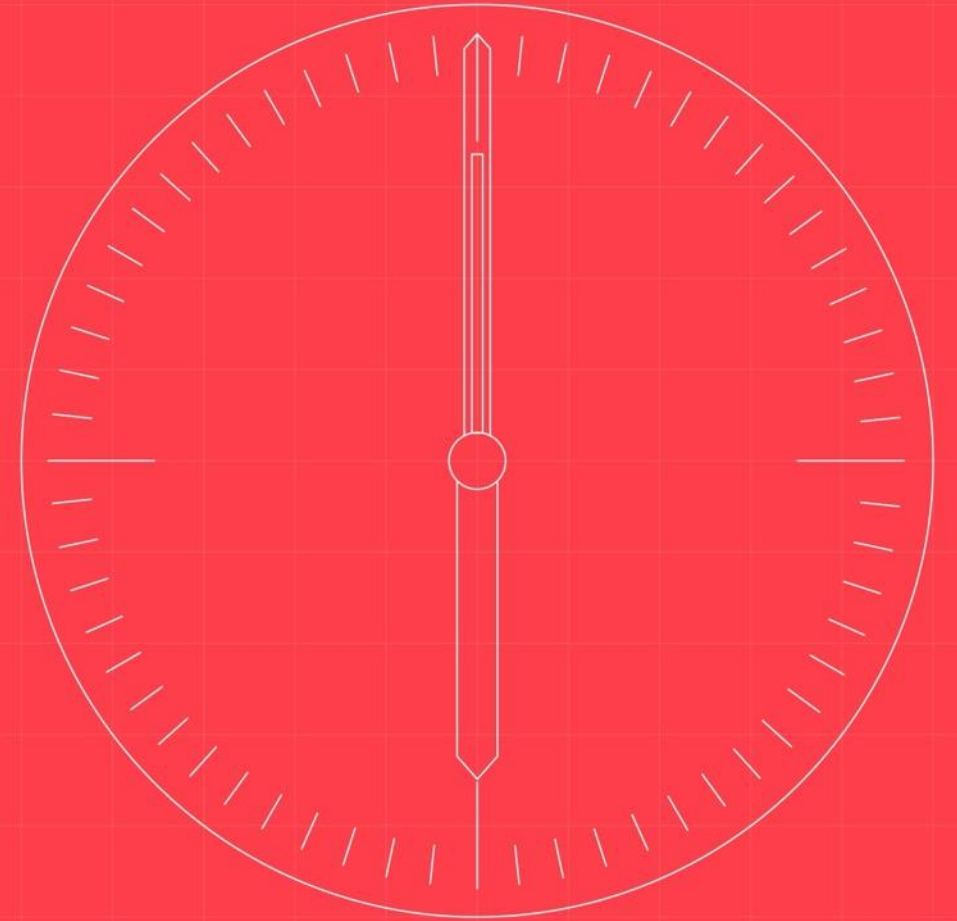Industry-led, Elexon facilitated

MHHS Design Artefacts

The **Business Processes** of interest to Advanced participants are:

- MHHSP-BP002-Change of Service - Metering Service

- MHHSP-BP003-Change of Service - Data Service

- MHHSP-BP004-Data Collection

- MHHSP-BP005-Data Processing

- MHHSP-BP006-New Connection

- MHHSP-BP009-ChangeofMeter

- MHHSP-BP011-Change of Con Type and/or Mkt Segment

Advanced Validation and Estimation processes are set out in the **ADS Method Statement**

- MHHSP-METH002_ADS_Validation_Estimation

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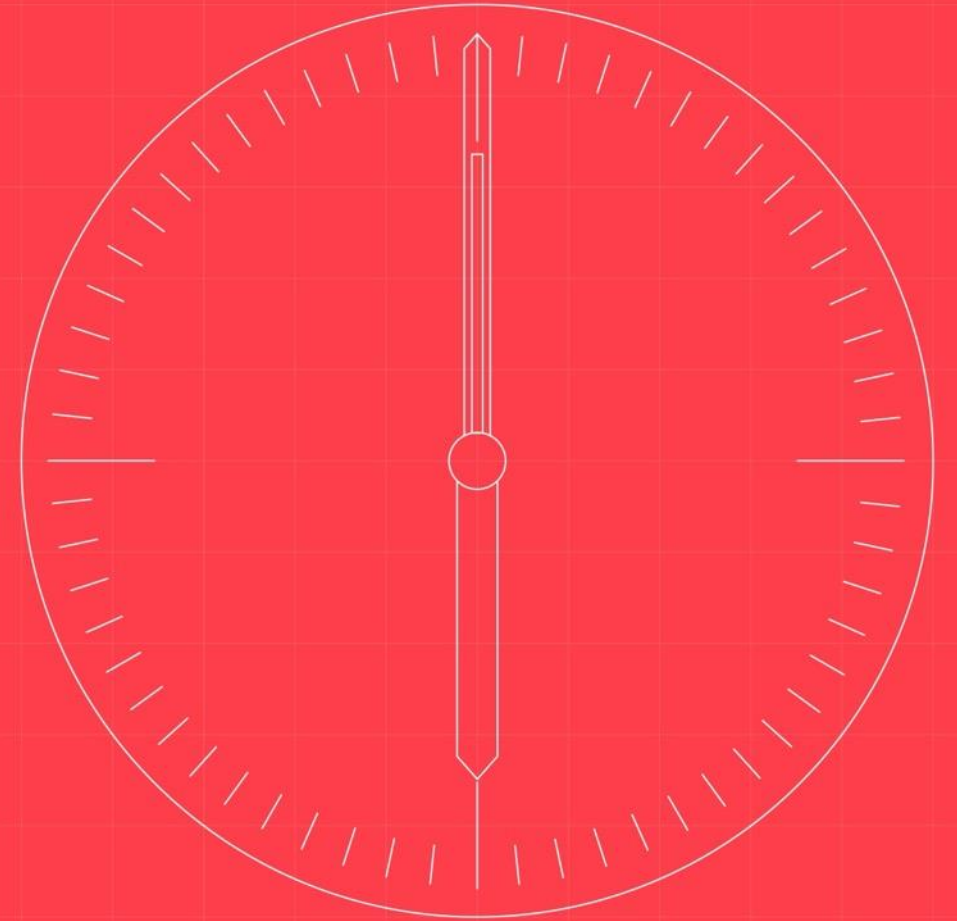# ISD Data Items

Industry Standing data for MHHS is set out in **MHHSP_EDI021_ISD_Entities v3.0**.
The items most relevant to Advanced (and critical to MHHS) are those set out below:

- Connection Type (EHV CT, HV CT, LV CT, WC or Unmetered)
- Market Segment (U/S/A)
- Market Segment - Connection Type - Meter Type mapping
- Market Segment Metering Service mapping*

- DUoS Tariff Id (formerly LLFC Id)
- Line Loss Factor Id (new item)

- Load Shape Categories (for opt-out estimation)
- MHHS Consumption Component Classes
- Settlement Timetable

- DIP MHHS Service role

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DIP Interfaces

MHHS DIP Interfaces are set out in **MHHSP Interface Catalogue**. The main ones for Advanced are:.

MHHSP-IF-033 Registration Service Request for Service Appointment
Appointment Request sent from Registration Service to Service Provider for Approval / Rejection.

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

MHHS-IF-016 UTC Settlement Period Consumption Data – Replay
Replay of historic consumption submissions for newly acquired MPANs to the ADS

MHHSP-IF-008 Registration Service Notification of Change of Energisation Status
Registration Service notification of Change of Energisation Status [back to] MS & other parties

MHHS-IF-006 Metering Service Update to Registration
Used by Registration Service to notify participants of changes to meter asset information

DTN flows will remain for the bilateral exchange of MTDs (D0268), readings (D0010) and Commissioning information. Some non-settlement processes may require HH consumption not covered by IF-021.

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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 - ERI011B - ECS Reports - External v3.0**

The key DIP reports from ECS are:

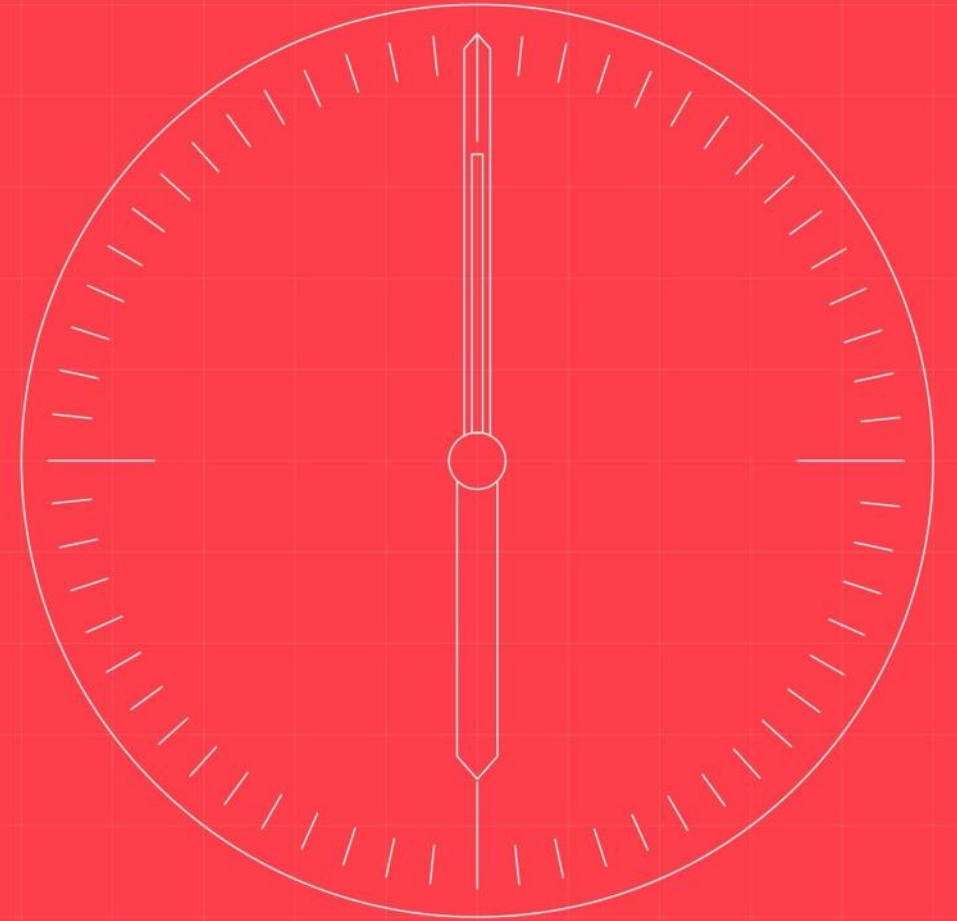| REPORT ID	Interface ID	Interface Name	From	To
MHHS-REP-002	MHHS-IF-115	LDSO report for DUoS – aggregated data	Market-wide Data Service	Licenced Distribution System Operators
	MHHS-IF-120	LDSO report for DUoS – aggregated data	Market-wide Data Service	Licenced Distribution System Operators
	MHHS-IF-125	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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Some existing DTN report will be retained. The format of these reports can be found in **MHHSP - ERI011B - ECS Reports - External v3.0**

The key DTN reports from ECS 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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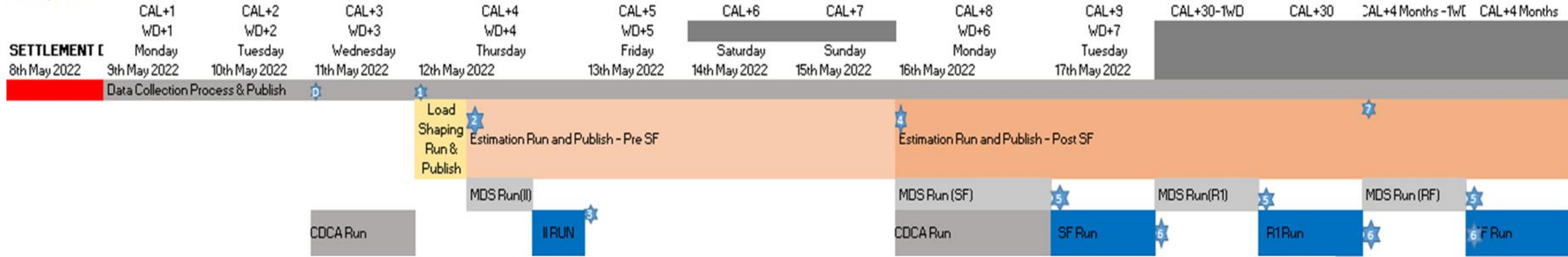Industry-led, Elexon facilitated

Operational Choreography

The Operational Choreography can be 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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Example 1

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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