



**MHHS
PROGRAMME**
Industry-led, Elexon facilitated

End to End Walkthrough Two: Meter to Bank

12 August 2022

MHHS-DEL567

Version 1.0 MHHS Design Team

Session Overview

Approach

- Our Design Team SMEs will provide an overview of the topics for discussion today focusing on a specific section of the E2E Design
- We will reference the Design Artefacts to familiarise Programme Participants with the business process, methodology statements, etc.
- It is important to note that this session is one of four dedicated walkthroughs that join up the E2E Design

Purpose

- Today's session is dedicated to improving and enhancing your understanding of the E2E Design and the Artefacts that are a part of it
- Specifically, today's session will focus on data collection, data processing (method statement overview), new Elexon services (LSS, MDS, VAS and ISD) and consumption amendments
- We will also respond to any questions, comments or queries you may have

Outcomes

- By the end of today's session, you will have:
 - An increased understanding of this section of the E2E Design and its Artefacts
 - Your specific questions answered or logged to follow up on later
 - Answers to questions and comments being raised by Programme Participants

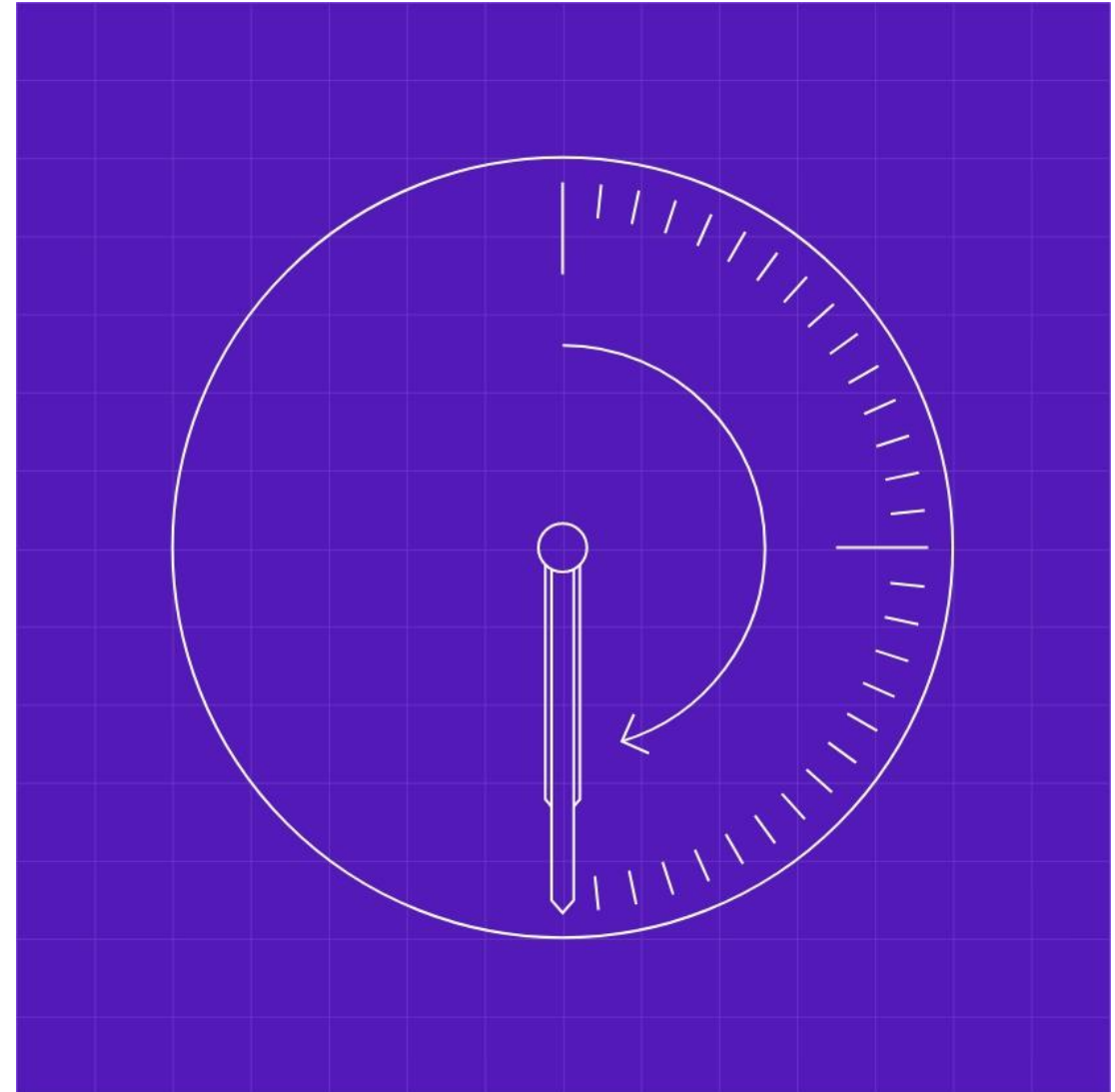
Outputs

- 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

- There will be dedicated time for after the Walkthrough for questions
- Questions can be submitted at Slido.com with the code below, or raise your hand on Teams
- These questions will be grouped into themes by the facilitator and answered in the dedicated time after the walkthrough

1. MHHS Target Operating Model (TOM)
2. Data Processing
 1. Smart
 2. Advanced Data
 3. Unmetered Supplies
3. Elexon Central Systems
 1. Load Shaping Service
 2. Market-wide Data Service
 3. Volume Allocation Service
 4. Industry Standing Data
4. Further Playback Sessions
5. Slido Review



Target Operating Model

Run through

Design Artefacts: Programme Collaboration

MHHS Programme website: Design Artefacts Guide

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Design Artefacts Guide

End-to-End Design Artefacts

The End-to-End Design Artefacts are now published for industry review.

The Design team and Working Groups have ensured traceability across all change controlled documents and that all open design issues and dependencies have been resolved ahead of publication.

Since November 2021 there have been 107 Working Group meetings regularly attended by representatives from 64 organisations, across all constituencies, who have contributed to over 200 hours of discussion and debate to agree the core elements of the design.

Comments Window
The formal comments window opens on 30 August. However, Comments Logs can be submitted at any time during the six week review process ending **16 September 2022**. Please note comments will not be responded to until after the comments window has closed.

Design Artefacts
See the section below for access to the Design Artefact Libraries and guidance documents, as well as information on the Design Playback sessions to support participant review.

11:50
Thursday
11/08/2022

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End-to-End Design Artefacts

Here you will find the End-to-End Design Artefacts for review. The Artefacts have been grouped into themes, which can be accessed from the Links on the right-hand side (section: Themes).

To assist with your review of the Design Artefacts, see the Design Artefact Matrix and Design Review Guidance and Signposting documents, found via the Quick Links on the right-hand side.

Comments Log
The new Comments Log template is available to download directly via the Quick Links. After completion of the log, the document can be uploaded to the Collaboration Base or emailed directly to Design@mhhsprogramme.co.uk. A guide has been produced to assist with this process and can be found in the Quick Links.

To help constituencies prioritise, we have provided a table for guidance below:

L27 Walkthrough	Reference	Business Process	Constituency						
			Supplier	Independent Agent	Supplier Agent	DNO	IDNO	Smart DCC	Elexon
	MHHS-SP001	Change of Supplier	+			+	+	+	+
	MHHS-SP006	New Generation	+			+	+		

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Themes

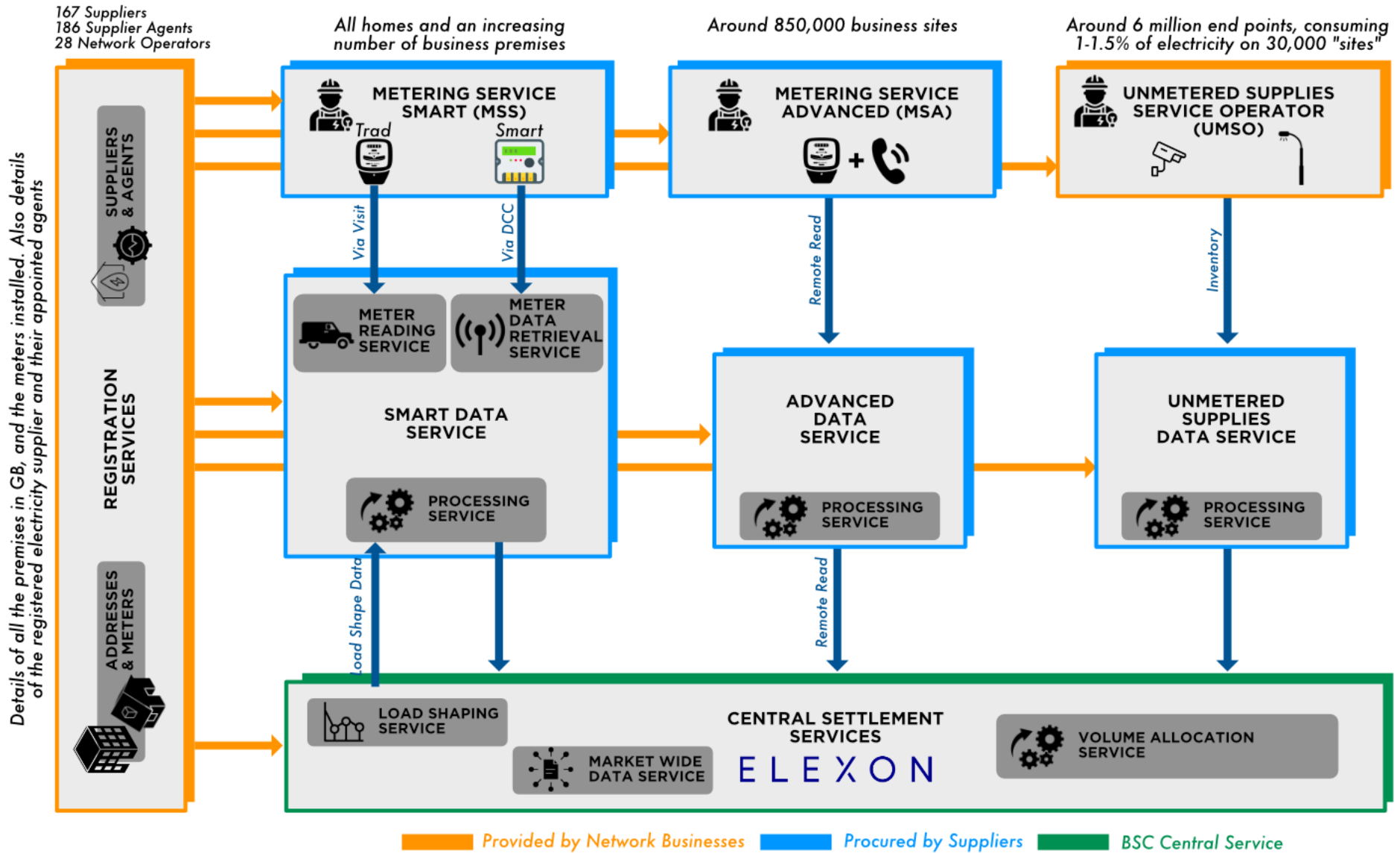
- Meter to Bank
- Metering Changes
- MPAN Ownership
- Supporting Documents

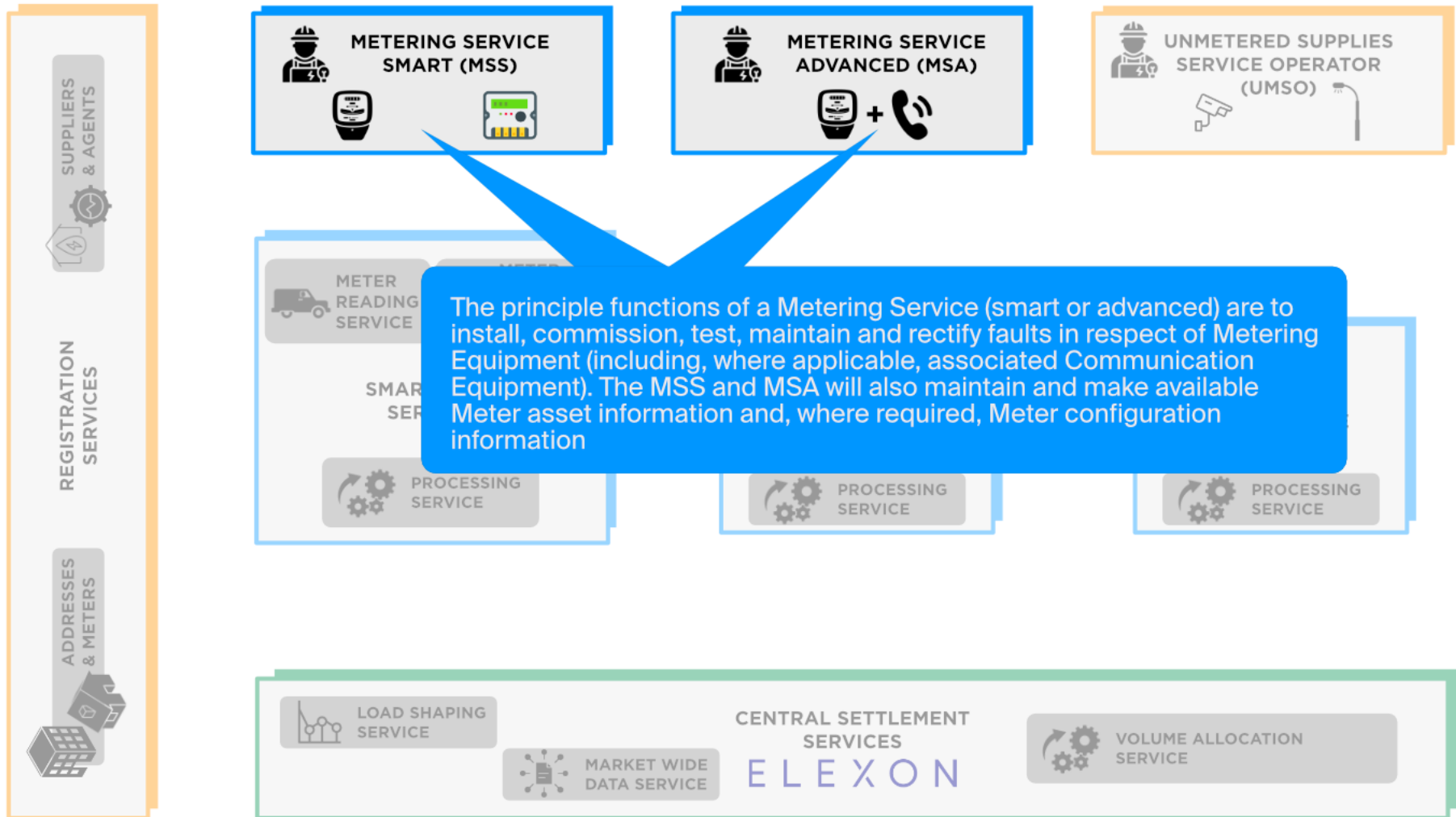
Artefact Review Documents

- Design Artefact Matrix
- Design Review Guidance & Signposting

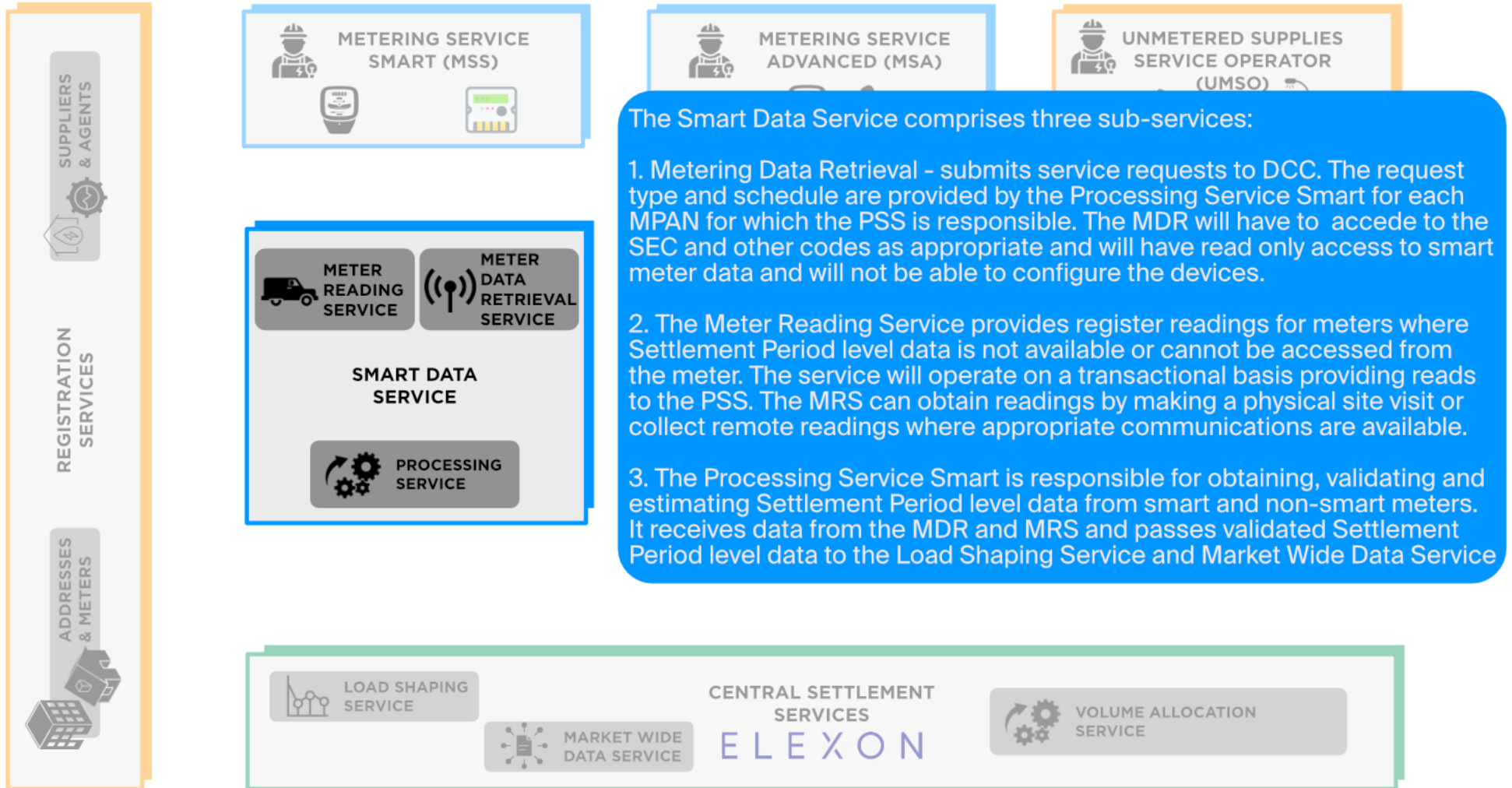
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11/08/2022

MHHS Target Operating Model – Overview





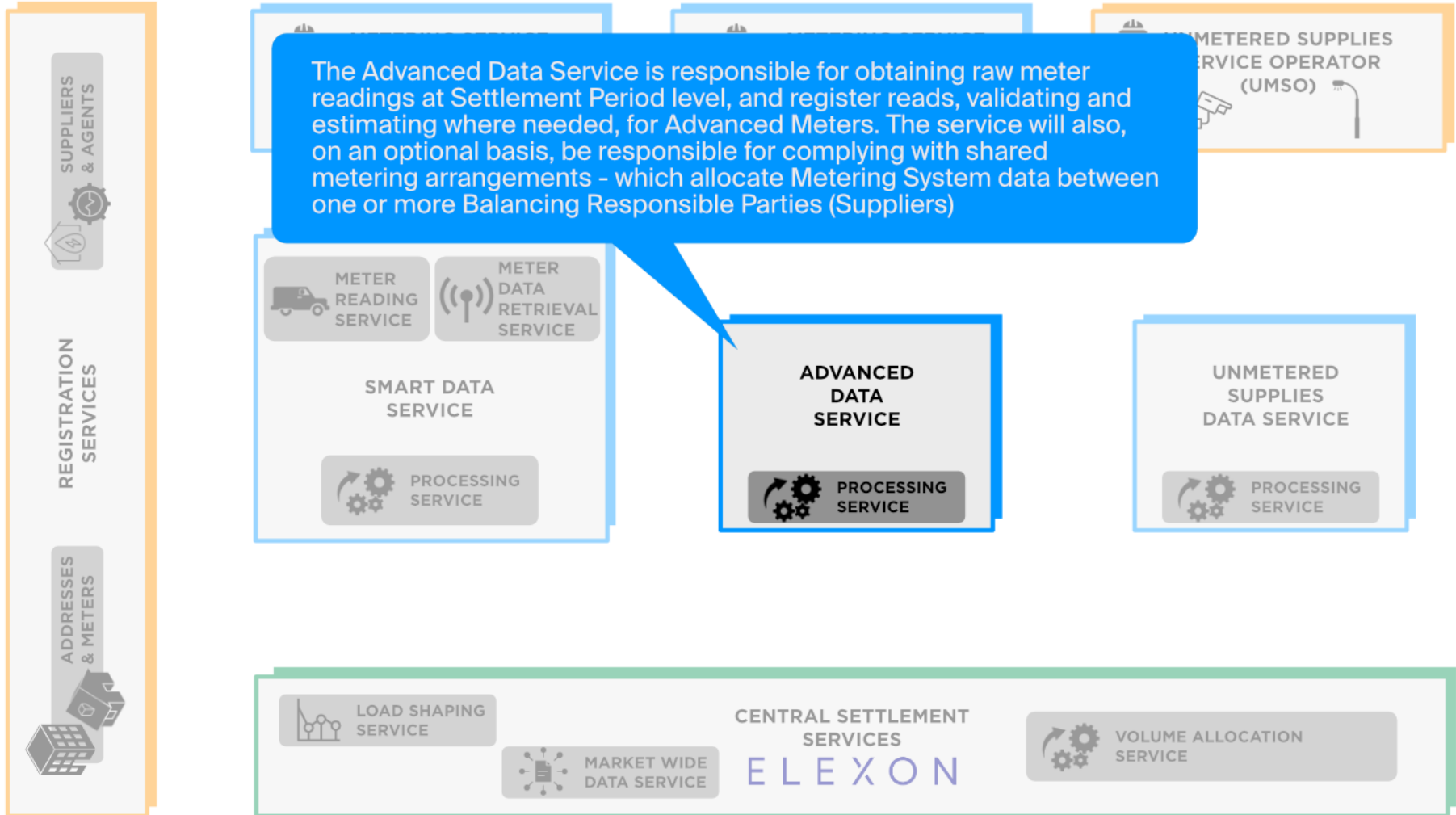
■ Provided by Network Businesses
 ■ Procured by Suppliers
 ■ BSC Central Service



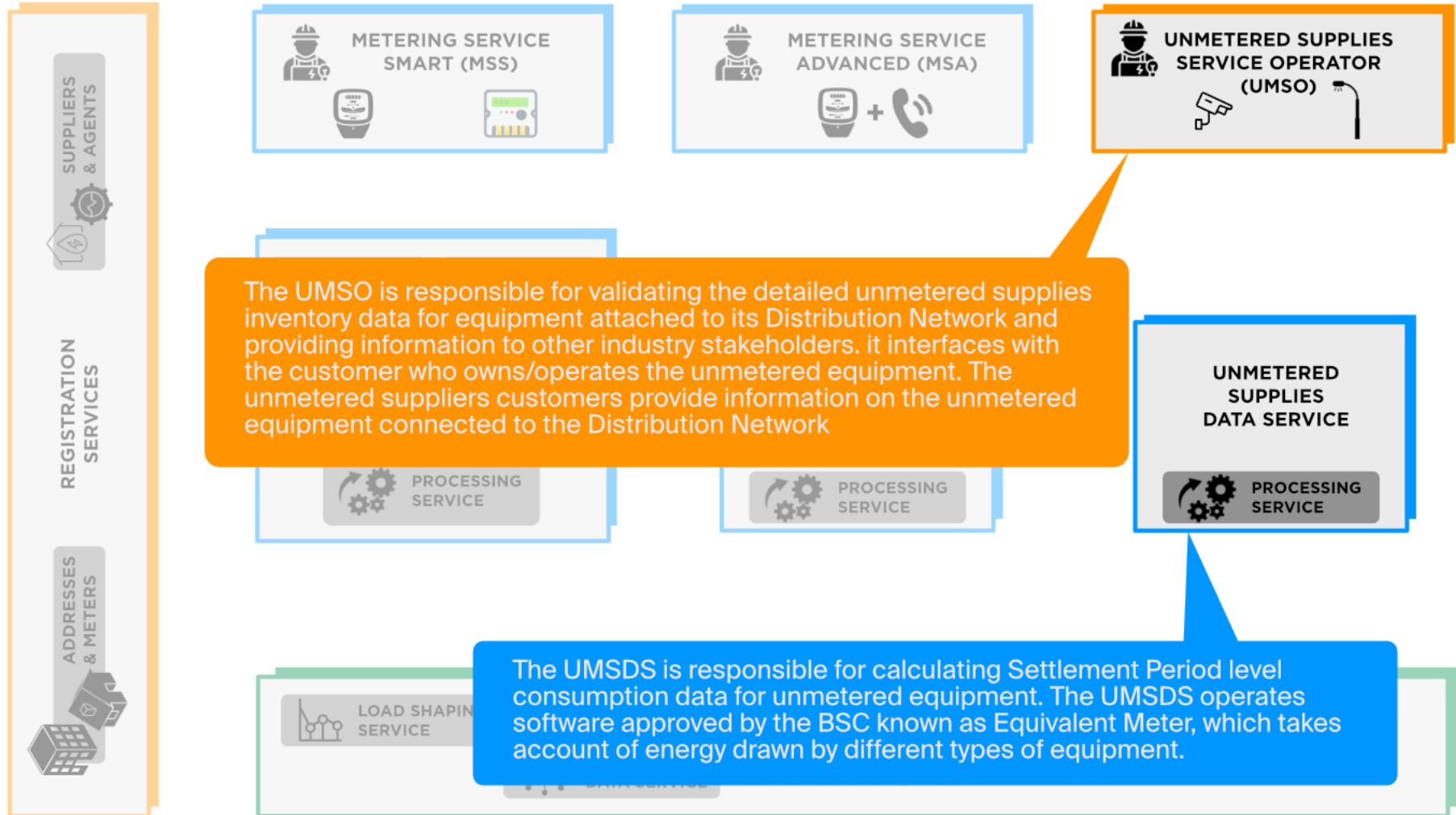
The Smart Data Service comprises three sub-services:

1. Metering Data Retrieval - submits service requests to DCC. The request type and schedule are provided by the Processing Service Smart for each MPAN for which the PSS is responsible. The MDR will have to accede to the SEC and other codes as appropriate and will have read only access to smart meter data and will not be able to configure the devices.
2. The Meter Reading Service provides register readings for meters where Settlement Period level data is not available or cannot be accessed from the meter. The service will operate on a transactional basis providing reads to the PSS. The MRS can obtain readings by making a physical site visit or collect remote readings where appropriate communications are available.
3. The Processing Service Smart is responsible for obtaining, validating and estimating Settlement Period level data from smart and non-smart meters. It receives data from the MDR and MRS and passes validated Settlement Period level data to the Load Shaping Service and Market Wide Data Service

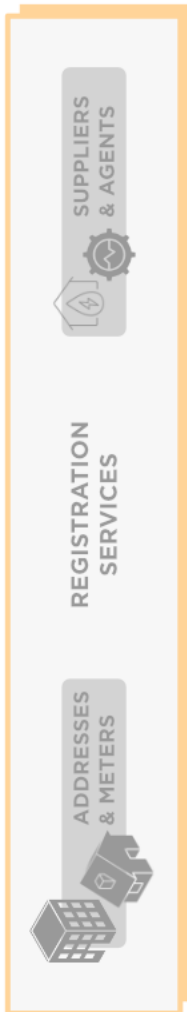
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MHHS Introduces 4 new services that will be operated by Elexon

1. The Market Wide Data Service is responsible for processing Settlement Period level data from the MHHS Data Services. The MDS will provide data aggregations for Imbalance Settlement and other purposes (such as network charges)
2. Load Shaping Service is responsible for calculating energy consumption (import and export) Load Shapes for a number of defined categories of metering systems. The LSS uses validated Settlement Period level data accessed from the Smart Data Service. The Load Shape data will then be used by the PSS to convert register readings or daily consumption values into Settlement Period level data. The Load Shape data will also be used to estimate invalid Settlement Period level data for smart meters and default where data is missing or unavailable
3. Volume Allocation Service accesses Settlement Period level data from the MDS. The VAS also accesses Grid Supply Group take from the Central Data Collection Agent. Using these two data sets, the VAS calculates Settlement Period level energy volumes for Balancing Mechanism Units. The data is processed for each Settlement day in a scheduled run called a Volume Allocation Run. The processed BMU data is used in Imbalance Settlement calculations
4. Industry Standing Data - replaces the existing Market Domain Data service and will publish relevant meta data to be used by other services.



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Data Processing

Smart
Advanced
Unmetered Suppliers

BPM, Requirements, Method statement

Operational Choreography (see
link: <https://mhhsprogramme-production-cdn.s3.eu-west-2.amazonaws.com/wp-content/uploads/2022/08/08075931/MHHSP-OPC001-Operational-Choreography-v1.0.pdf>)

Elexon Central Systems Processing

Load Shaping Service

Market-wide Data Service

Volume Allocation Service

Industry Standing Data

BPM, Requirements, Method statements

Other Playback Sessions

MHHS Design Playback Plan on a Page

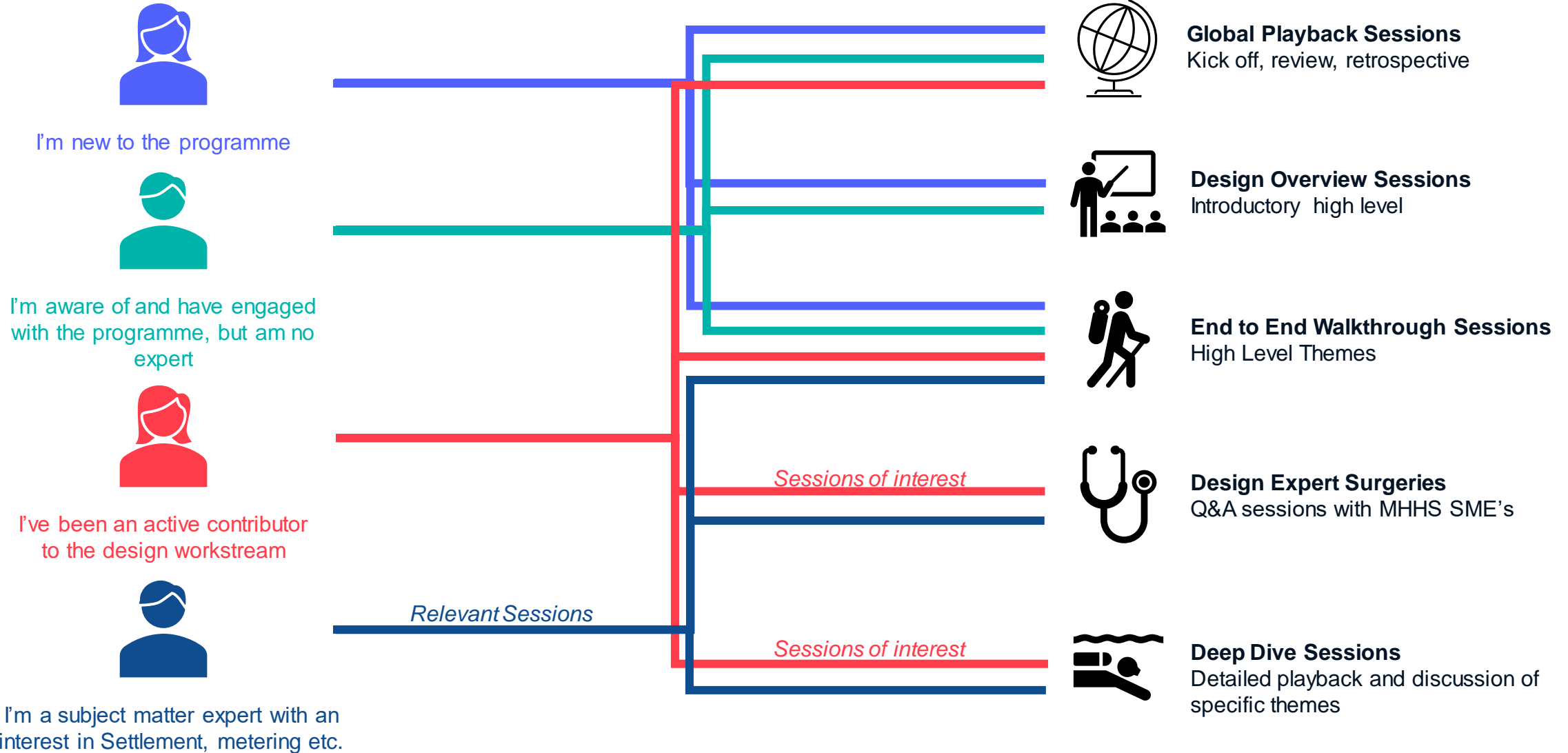
🚩 All Design Artefacts Issued for review
🚩 Comments to L4 Working Groups opens
🚩 MHHS Open Day
🚩 Comments to L4 Working Groups closes

	1 Aug	8 Aug	15 Aug	22 Aug	29 Aug	5 Sep	12 Sep	19 Sep	26 Sep
Design Overviews <i>Playback plan & design introductions</i>	Playback Intro & Plan <i>Kick Off & Signposting</i>	Design Overview <i>For new participants</i>					Playback Review & Deep Dive Plan <i>To review feedback, key themes and agree Deep Dive topics</i>	Design Overview Replay	Retrospective & Next Steps <i>Review of activity - observations and outputs, recommendations for ongoing engagement post M5</i>
E2E Walkthrough <i>Playback of business processes and architecture/security content</i>		E2E #1 E2E #2	E2E #3 E2E #4	The End to End design walkthrough sessions by the design SMEs cover the following themes: 1. Design overview and introduction – DIP basics, approach to testing 2. Meter to Bank – Data Collection, Data Processing, new Elexon services (MDS, VAS), Consumption amendments 3. MPAN ownership – Change of Supplier, Change of Service Provider, Connections, Linked MPANs 4. Metering Changes – Change of Meter, Change of Segment, Energisation, Disconnection, LDSO updates					
Design Surgeries <i>Drop-in sessions with access to design SMEs</i>					Design Surgery <i>Technology</i>	Design Surgery <i>Registration</i>			
					Design Surgery <i>Settlement</i>	Design Surgery <i>Metering</i>			
					Weekly topics to be confirmed at Kick Off				
Design Deep Dives <i>Subject specific replays of design topics</i>			Technical Deep Dive Unmetered Deep Dive	Settlement Deep Dive Advanced Deep Dive		Responsive Deep Dive(s)			

☑ <https://www.youtube.com/watch?v=JNDWbt3vUtq>



Which Sessions Should I Attend?





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Any questions?
Please join at [Slido.com](https://www.slido.com)
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