



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

Design Resolution Group Meeting #18

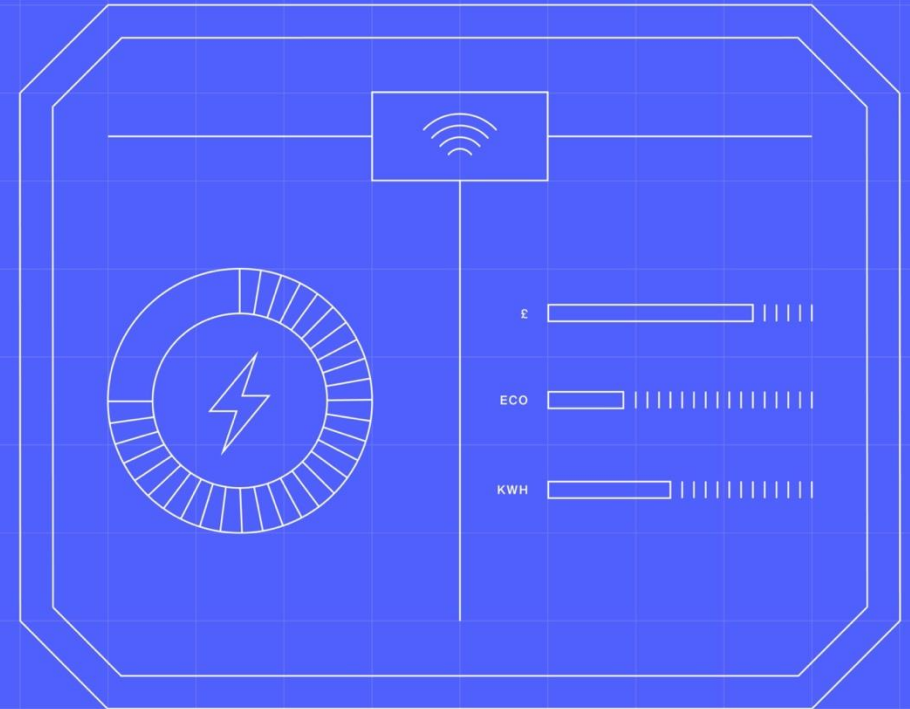
04-Feb-25

MHHS-DEL3435

Agenda

#	Item	Description	Type	Lead
1	Welcome		Information	Chair
2	Background	Purpose and Outcomes of the meeting	Information	Chair
3	Options	Detail of the Options that will form the PPIR	Discussion	Chair
4	Challenges	Design Challenges - Risks / Issues / Considerations	Discussion	All
5	Scenarios	Walkthrough of the Scenarios	Discussion	All
6	Summary and Next Steps	Summarise actions and decisions	Information	Chair
7	Appendices			

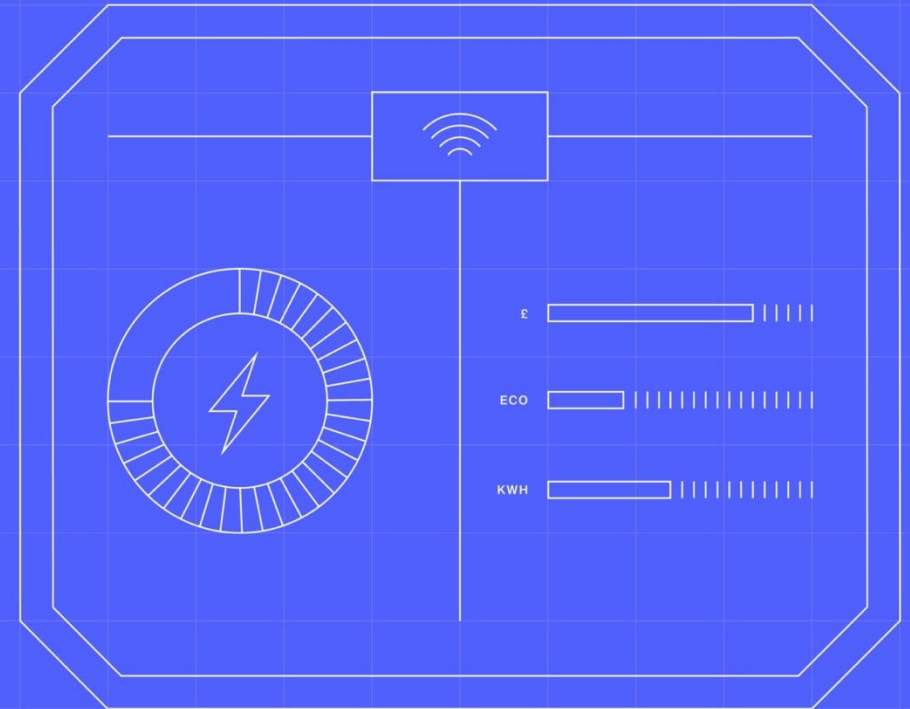
Options being Considered



New Connections Options

Option	Description	High Level Impact
<p>1</p> <p>No Optionality</p>	<p>MHHS qualified suppliers have to use MHHS New Connection processes to register an MHHS MPAN</p> <p>MHHS qualified suppliers can use MHHS or Legacy New Connection processes to register a legacy MPAN</p> <p>Legacy BAU suppliers use Legacy New connection processes to register legacy or MHHS MPANs</p> <p>All new connections post M14 use MHHS processes</p>	<ul style="list-style-type: none"> • No impact on SIT Schedules for St Clements and LDSOs – • No St Clements development • Suppliers – potential impact • Supplier development for legacy MPANs to determine process based on MPAN state • Qualified suppliers will need to prioritise registration of new connections over migration if issues arise. • Potential impact on Supplier readiness, Settlement Transition (RF7 to 7 months and M16
<p>2</p> <p>Provide Optionality</p>	<ul style="list-style-type: none"> • Make a change to MPRS whereby DNOs would submit a new connection via an updated DB01 and this gets registered in legacy • MHHS qualified Suppliers have the optionality to use legacy or MHHS processes on an MHHS MPAN <ul style="list-style-type: none"> -sent D0205 to initiate legacy -issue IF031s for MHHS. • This option is only valid between M10 – M14 after which New connections revert to Option 1 	<ul style="list-style-type: none"> • SCS estimate ~42 days development and PIT test effort for MPRS (Note the PPIR will confirm actual development effort and timescales) • Impacts on SIT testing cycles and Milestone (esp M10) will need to be assessed. • SCS raised that the impact on Durabill is unknown in terms of development and test. • Additional code / controls required to prevent New Connections being registered in Legacy Post M14 this option

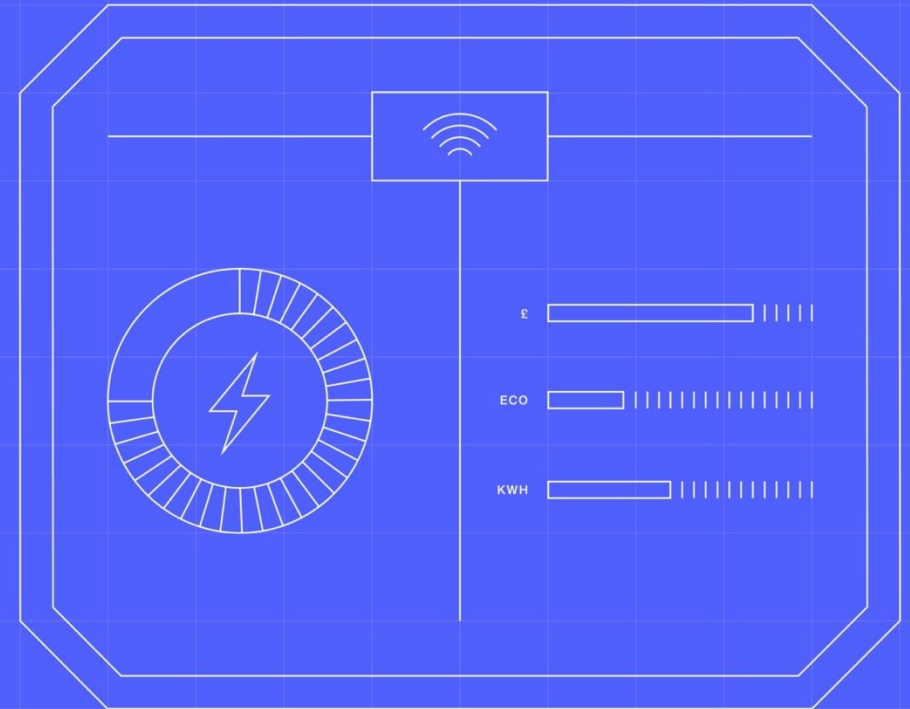
Design Challenges Risks / Issues / Considerations



Design Challenges - Risks / Issues / Considerations

#	Name	Risks / Issue / Challenges	Programmes Initial Response
1	Legacy MPANs and MHHS Suppliers	Option 1: An MHHS supplier will need to build functionality to determine the MPAN state to use legacy registration processes on a legacy MPAN How is MPAN state (legacy or MHHS) determined? This needs to be reflected in PPIR	MPAN state can be determined by EES API / portal
2	No Control Points & Risk to migration	The number of new connections will be determined/ registrations solely by developers (the market) . If there is a problem with MHHS new connection processes, registrations will back up until the problem is resolved (forward fix only) – this could be a problem in any of the PP systems (Central Systems, LDSOs, Suppliers, Agents). This risk would be reduced if option 2(optionality) is chosen. In the event of new connection problem resources would need to be prioritised for new connections thus impacting migration schedules, and a knock effect to settlement transition. Pausing new connections has immediate customer impact and contractual consequences.	This risk is not confined to New Connection any issue arising in early Life support will be treated as a priority based on materiality to mitigate the event to pause new connection. Neither option fully mitigates issues arising.
3	Customer Detriment	If a Metering Service cannot be appointed due to issues in ELS then meter installation cannot proceed resulting in direct customer detriment and contractual consequences between supplier and developer. There is a disproportionate impact on suppliers who are active in the New Connections market and potentially becomes customer impacting to the inability to appoint MS and perform meter installation	This is a risk but mitigated to some extent as per the lead time and volumes of MPANs that will have been created post M10 vs MPANs created under legacy – volumes within ELS.
4	Agents	Option 1: a supplier has to use MHHS new connection processes and MHHS qualified agents to as part of MPAN registration. If the agent is not qualified the supplier has to use the one that is, and with whom the supplier has no contractual relationship with. It removes Supplier's choice of agents during registration and may create commercial/contractual and competition issues for unqualified agents. specific metering points and may have regional preferences. Option 2: there is optionality between legacy and MHHS new connections processes which would have mitigated this	Suppliers will need agents across all geographies – they can't cherry pick COS either so must have agents in place nationality from M11.
5	Reverse Migrations	Under option 1 there will be more reverse migrations of MHHS MPANs as there is no registration optionality. This means the defaults of Measurement class (F) and MTC (800) will need changing if the D0205 was rejected or for some reason not sent– it will always be wrong for unmetered and advanced MPANs.	This is the exception not the norm, the requirement is that where a reverse migration occurs for an MPAN created under the new arrangements the gaining supplier will be required to set their required data via the D0205 – this is the same for all MPANs.
6	Testing	New Connection Test scenarios need to cover the following regardless of option Legacy registration of MHHS MPAN MHHS registration of legacy MPAN – (assume MHHS registration of MHHS MPAN is covered)	Agreed New test cases will need to be developed Option 1 scenarios 2,3,5 not currently covered Option 2 would require new test cases as it would invalidate all current new connection testing in SIT
7	Legacy MPANs	Developers will be encouraged to accelerate bulk creation of MPANs to mitigate risk if option 1 is chosen. There would then be more “created” MPANs in the system and still unregistered at M15.	From M14 onwards suppliers would be expected to use MHHS business process for scenario 2 & 4 The processing of unregistered legacy MPANs at M15 is a matter for the Migration working group
8	Default Data	Clarification is required of the default data items being set in DB01 pre and post M10 and what is being set when the MPAN is created in the registration service	Point for discussion at workshop. See slide 9

Scenario Walkthrough



New Connection Scenarios M10 – M14

Scenario	MPAN Created	Initial Reg Submitted	MPAN State when Created	Supplier Status	MPAN State post Initial Reg	Comments
1	<M10	<M10	Legacy	Unqualified	Legacy	<ul style="list-style-type: none"> The current Legacy process. Uses existing BSCP501 & Rec Metering Services
2	<M10	>M10	Legacy	Qualified	Legacy	<ul style="list-style-type: none"> All MPANs created prior to M10 will exist in a Legacy State until migrated by a Qualified Supplier. If a Qualified Supplier submits an Initial Registration for that MPAN, post M10, the MPAN will remain in a Legacy state until Migrated (noting that the Supplier could choose to enact the migration process for the same EFD as the Initial Reg). If MPAN Legacy and Supplier qualified, the Supplier can choose to follow either Legacy or MHHS processes The MHHS Registration Processes mandated post M14
3	<M10	>M10	Legacy	Unqualified	Legacy	<ul style="list-style-type: none"> Unqualified Suppliers will continue to operate the Legacy Initial Registration process until Qualified, irrespective of when the MPAN was created.
4	>M10	>M10	MHHS	Qualified	MHHS	<ul style="list-style-type: none"> MHHS process BP001 is followed for the MPAN creation and Initial Registration. Valid Post M14
5	>M10	>M10	MHHS	Unqualified	Legacy	<ul style="list-style-type: none"> Unqualified Suppliers will continue to operate the Legacy Initial Registration process until qualified irrespective of when the MPAN was created. The MPAN will change state from MHHS to Legacy within the REGS service, when an Initial Registration is received for an Unqualified Supplier, but this will not change the Legacy interactions between REGS and Supplier. The status of the MPAN within EES will be Reverse Migrated (R) following the receipt of the IF-003. This means that the Annual Consumption value will be retained (likely 0/Null)

Data Items By Scenario

All Scenarios

All MPANs would have connection type available within EES (as we have populated that in the data cleanse and all new MPANs, since 2023, it is populated upon creation). EES would also hold the Market Segment for all MPANs in a MHHS state.
RMP Status and Trading Status would be populated as per the current design:

- RMP=Created, Trading Status=N - MPAN state prior to initial reg
- 1.RMP=Created, Trading Status=R - MPAN state post initial reg but prior to Supplier data populated
- 2.RMP=Operational, Trading Status=T - MPAN state post initial reg and Supplier data populated (MPAN can now switch)

LLFC ID and DUoS Tariff are effectively the same data (the same value will be used) but LLFC ID present for a Legacy MPAN and DUoS Tariff present for a MHHS MPAN.

Domestic Premises Indicator would be populated within the Initial Registration by Supplier.

Meter related data would not be present until meters installed and provided to MPRS via D0312 (legacy) or IF-005 (MHHS).

Scenario 1, 2, 3 & 5

The D0260/D0217 data would be the same as per the current legacy design, which following an Initial Registration would include the MPAN, Address, LLFC ID. Metered indicator and energy direction are not in those D Flows but would be present in EES;
The D Flows wouldn't include the supplier owned data such as PC, MC, SSC, energisation status etc.
The Supplier owned data could only be populated by the Supplier post Initial Registration and receipt of the D0217/D0260.
Under scenario 1, 2, 3, 5 that would be via the D0205 as per the current Legacy process.

Scenario 2 & 4

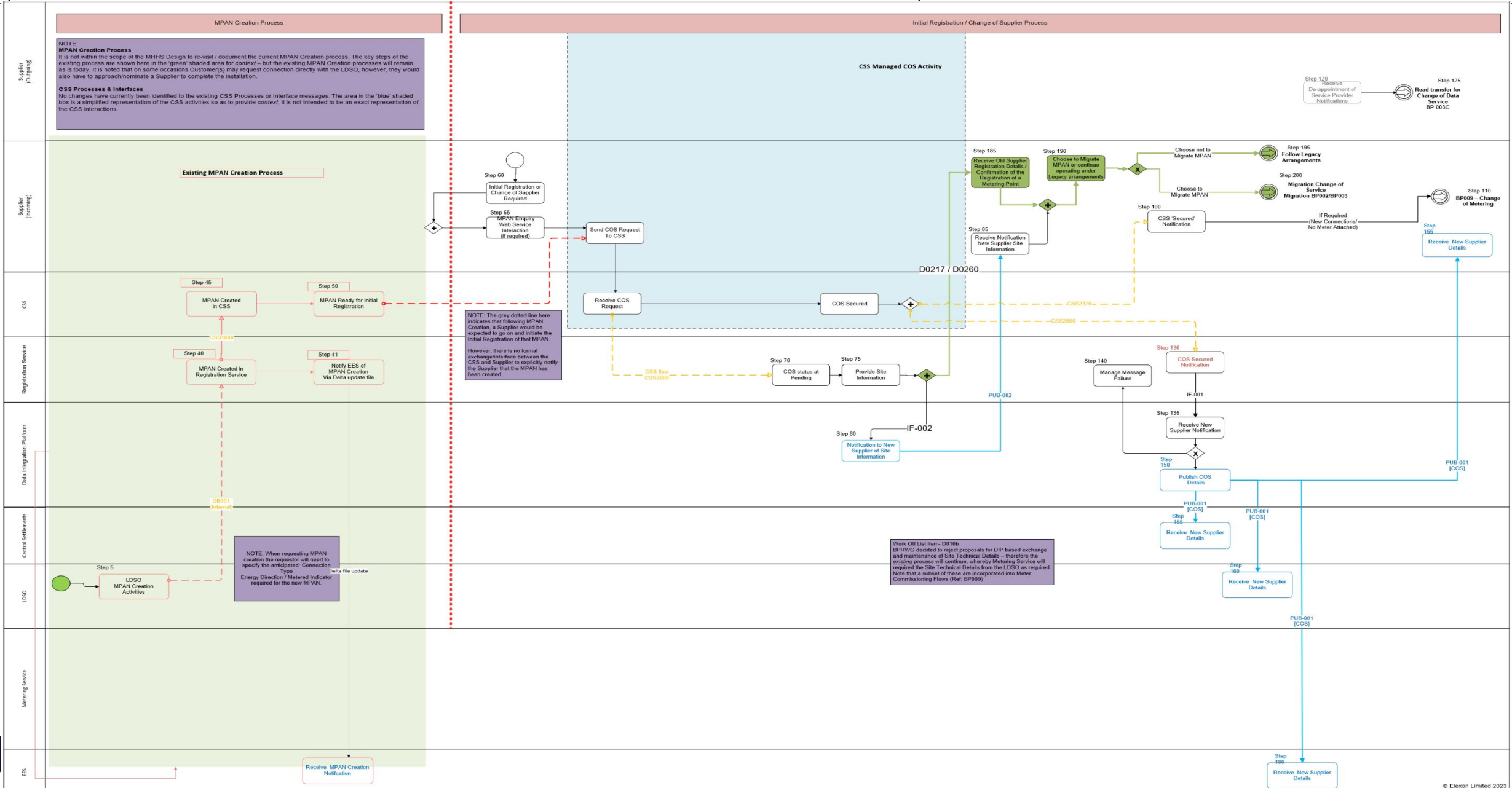
The IF-002 will be sent by MPRS when the Initial Registration is Pending (and the IF-001 at Secured Active).
It is sent under scenario 2 as well as 4 to allow the Supplier to Forward Migrate if they choose.
Under scenario 2 the D0217/D0260 is also sent.

The IF-002 will contain the following data blocks which will be present in MPRS at that point in time:

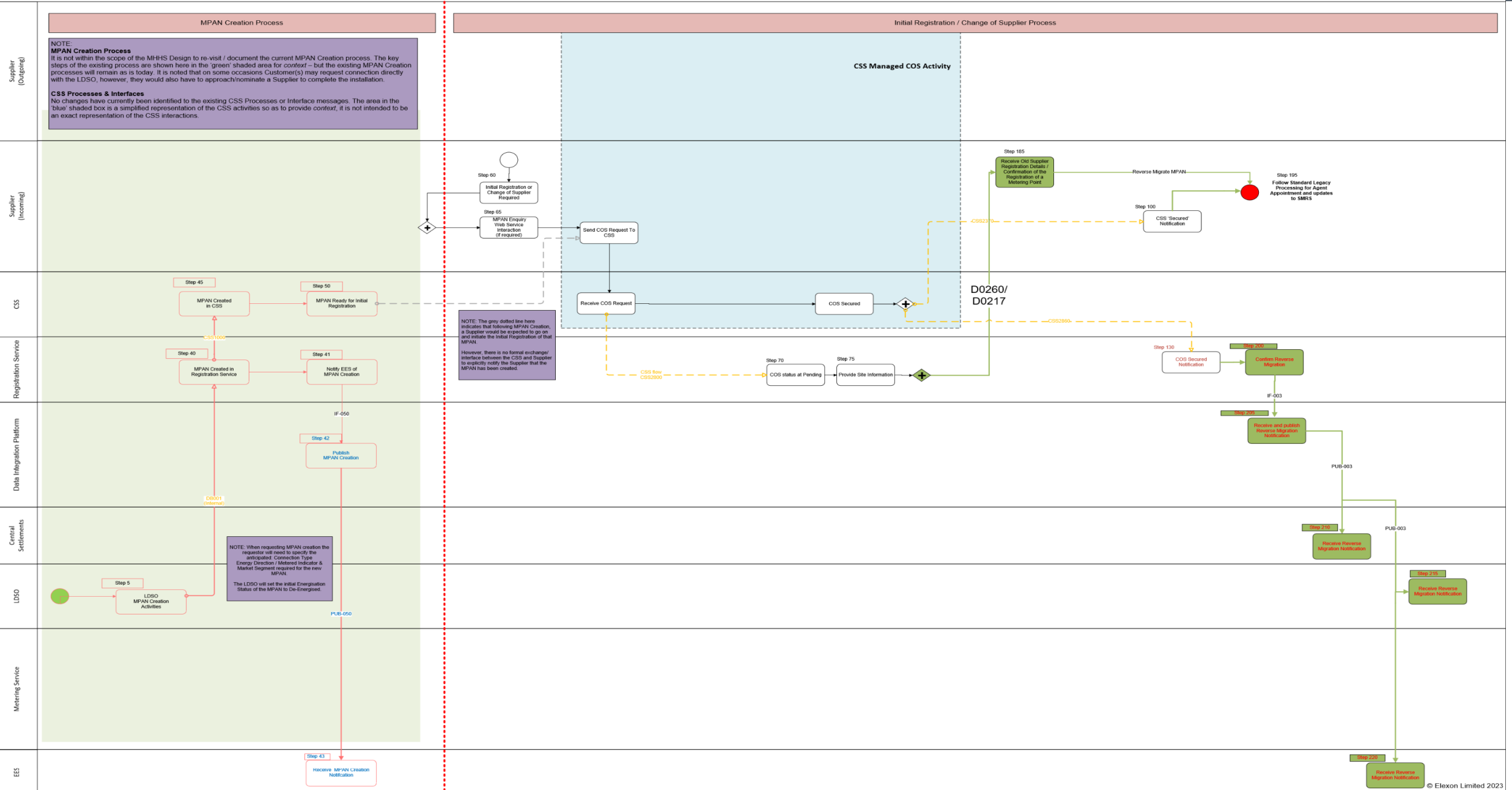
- M0 - MPAN
- B13 - Registration
- B022 - MPAN Address
- B023 - MPAN Connection Info
- B024 - DUoS Tariff
- B025 - Energisation Status
- B026 - MPAN Market Segment
- B035/37 - Would be present if MPANs linked when created

The other data blocks would not be present at that point in time as meters not installed, Supplier owned data not populated, agents not appointed etc.

Scenario 2 Process Map



Scenario 5 Process Map

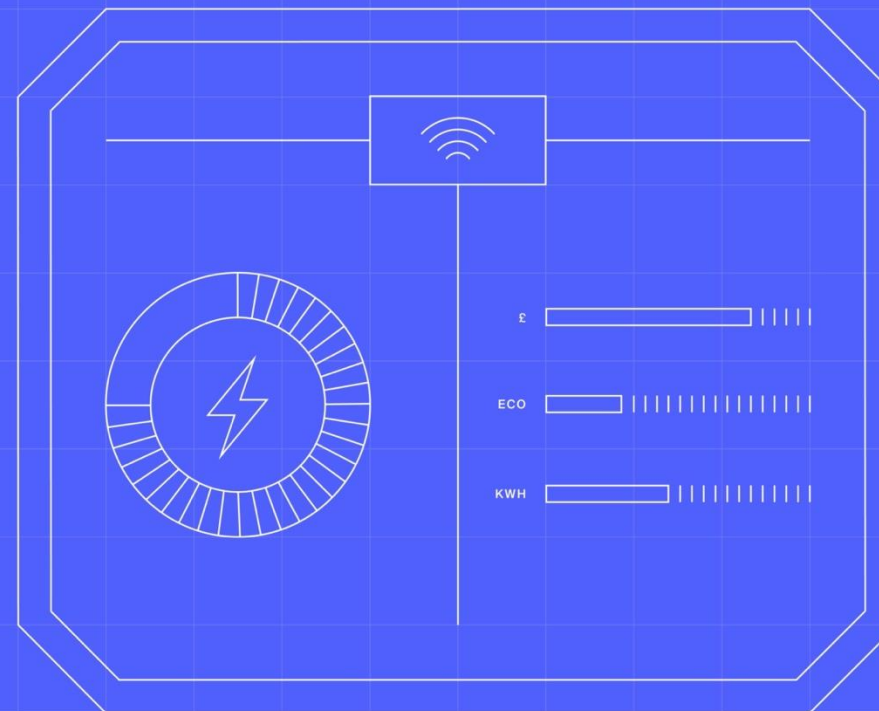


Analysis EES New connections data from H1 2024

This table provides some indicative numbers derived from EES around new connections in the first half of 2024, showing average timescales from the point of registration to installation

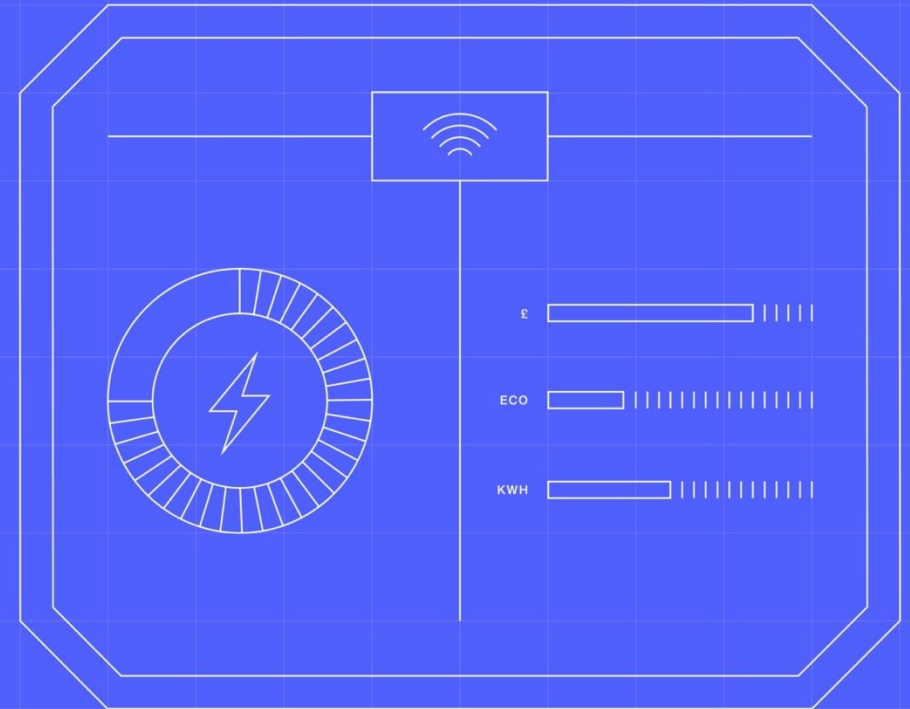
MPAN Volume	State	Comments	Percentage of Portfolio
192,569	Total Number of New MPANs created in H1 2024	Number of MPANs created by LDSOs	100%
35,932	MPANs with no initial Registration	MPAN was created over 12-6 months ago and a Supplier has not registered, under this scenario post M10 these MPANs could only be registered as Legacy not MHHS (awaiting official feedback from SCS)	19%
51,048	MPANs with Initial Reg but no Meter Installed	Average days to register from MPAN creation = 53 days	27%
102,375	MPANs with Initial Reg and Meter Installed	Average days to install meter from MPAN creation 86 days	53%

Summary and Next Steps



1. The Programme seeks to issue a PPIR containing relevant information collected from this workshop.
2. We ask that Participants provide feedback on the PPIR by outlining their preferred option, justifications, implications for development timelines, associated testing, process updates, material relevance, and any possible negative impacts on customers.
3. Responses to the PPIR are expected within **10 working days** from issue.
4. The Programme will analyse the feedback and, with assistance from the SRO, will decide on the next steps to resolve this matter.

Appendices



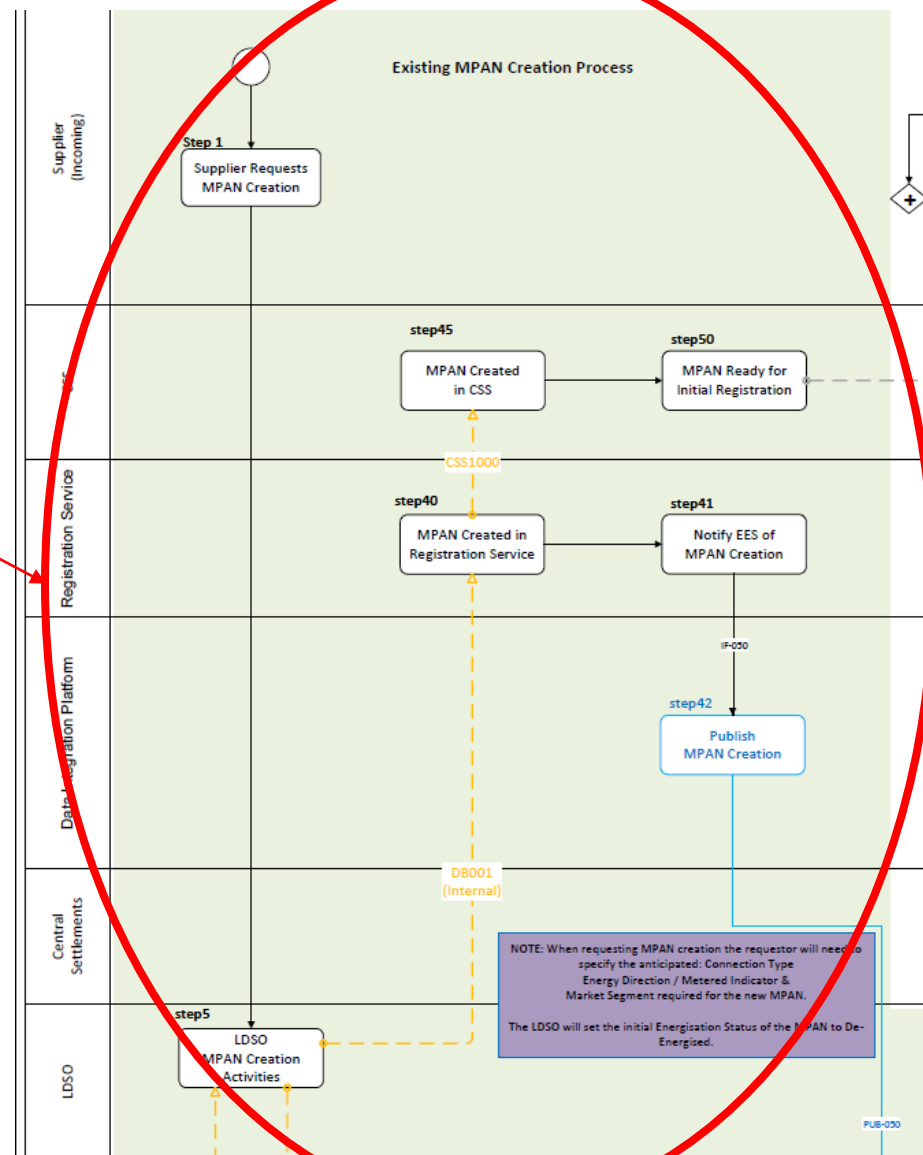
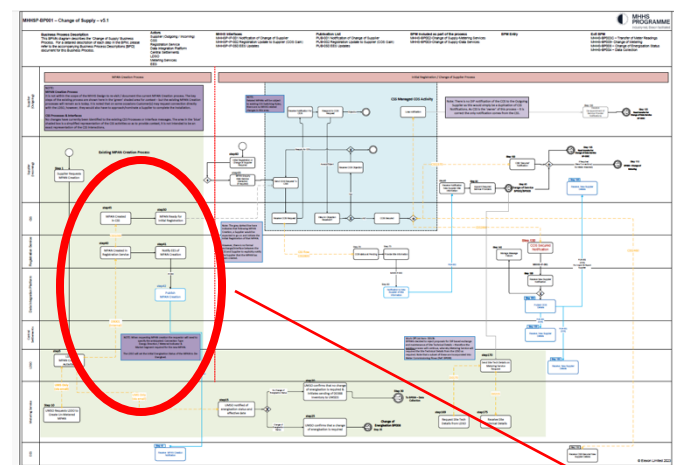
Baselined Positions for Both Options

The slides presented in this section aim to ensure transparency and provide insight into how the design has been interpreted and implemented by British Gas (Supplier) and St Clements Services (Registration).

The Suppliers had confirmation that a qualified participant has the option to register a new connection under either the legacy arrangements or the MHHS new connection process.

- British Gas sought clarification from the programme’s design team in June/ July 2023 as to how New Connections should be treated during the period between M10-M14 for qualified suppliers, as the migration design did not explicitly cover this. The design team confirmed that new connections would only be mandated from M14 onwards as per the Migration, Cutover and Data Strategy document. Similar conversations were held with the MHHS Migration and Code Drafting teams, reinforcing our understanding of the intended approach for new connections.
- BG asked for a design clarification to be issued to that effect at that time and were told by the programme it was not necessary as the Migration, Cutover and Data Strategy document, which formed part of the programme design baseline, already sufficiently covered this.
- Knowledge Base FAQ-00858: Missing Timelines and Process for New Connections – “We are considering this in light of the view that the process is essentially as is for the Change of Supplier and **we are not modifying the MPAN creation process.**”
- M5 Work Off Plan DAG Report: D-010A New Connections Choreography - stated that “the new connections process remains unchanged and as such as not in scope of MHHS” – the “clarification” at MWG is being provided to retrospectively align the design to St Clements assumptive build reflects quite a lot of change for a process that is meant to be unchanged by MHHS.

MPRS built to baselined MHHS design – MHHSP-BP001v5 1 – Change of Supplier



- MPRS release R9.0 built to BP001v5.1 (unchanged since IR1 October 2023)
- MPAN Creation process states:
 - Not within scope of MHHS design to re-visit the current MPAN creation process.
 - Key steps shown in green for context.
 - Existing MPAN creation process will remain as is today.
 - Step 1 – Supplier Requests MPAN creation
 - Step 40 – Registration Service creates MPAN
 - Step 41 – Registration Service notifies ESS (in the new MHHS arrangements this is via the IF-050)
 - There is a note (grey box) that states when the Supplier is requesting MPAN creation will need to specify the required:
 - Connection Type,
 - Energy Direction/Metering Indicator,
 - Market Segment
 - LDSO will set the Energisation Status to De-Energised

- MPRS release R9.0 built to BR003 v5.7 (last updated with IR8.1 Published 12th June 2024).
- MHHSP-BRS003 does not specify:
 - an option for a Qualified Supplier to Register an MPAN as a Legacy New Connection
 - a Business Process for how a Qualified Supplier can select the Settlement Arrangement for the New Connection.
 - that the New Connection requirements in BRS003 are only effective from M14.
- MHHS PMO commentary in the Design Resolution Group Meeting slides (23 January 2025):
 - *Guidance on the post-M10 Connection Process was issued by the Programme and communicated to participants via the Migration Working Group stating that there is no optionality for qualified suppliers to imitate New Connections in legacy.*
 - *Important Note: There are no requirements within the current design to provide optionality for a qualified supplier to choose whether the new connection is registered in the Legacy arrangements, all new connection will be registered in the MHHS arrangements.*

The following MHHS design business requirements are for MHHS MPANs alone – issues identified if Qualified Suppliers try to register new connections under legacy arrangements under existing MHHS design from M10.

Ref	MHHS Design BR/Design documents	Issue
MHHSP-BRS003 – Registration Service Requirements v5.7		
1	MHHS-BR-RS-091 Set energisation status to "D" .	Legacy MPANs cannot have an Energisation Status (ES) until they are registered by a Supplier as it is a Supplier Item. In MHHS, ES is a Metering Point Data Item so it can be set before a MPAN is Registered by a Supplier. Therefore, MPRS could not meet this requirement unless a New MPAN is set up as MHHS at M10
2	MHHS-BR-RS-091.1 Set DUoS Tariff ID, Metered Indicator and Energy Direction for the MPAN	DUoS Tariff is a MHHS Term. Legacy MPANs have Line Loss Factor Classes, MHHSP-BRS003 would indicate this difference if there was optionality built into the design.
3	MHHS-BR-RS-093 - Set initial Market Segment for MPAN	Market Segment is not sent on any Legacy D Flows and is not used in Legacy Settlement. It is a MHHS Settlement concept. Initial Market segment is only sent to EES on the IF-050. It is not communicated on D Flows or the Legacy EES Extract. This requirement could not be met without setting up the MPAN as MHHS.
4	MHHS-BR-RS-093.1 - Send EES details of new MPAN Registration Service must publish an EES update, on creation of a new MPAN in the Registration Service, using the appropriate interface on the Data Integration Platform MHHS-IF-050 to EES	The Internet Data Extract is used to notify EES of Legacy New Connections. The Requirements states that MPRS must inform EES using the MHHS Interface IF-050, therefore the new MPAN is a MHHS MPAN and not a Legacy MPAN
5	MHHS-BR-RS-096 - Notify registration details for New Connection Registration Service must publish an Initial Registration event to Supplier, Central Settlements and LDSO outlining the Supplier and Registration details for the New Connection, on the Data Integration Platform via the appropriate interface MHHS-IF-001	The IF-001 can only be sent to MHHS qualified Suppliers (DIP Users). If the MPAN is registered by an Unqualified Supplier, MPRS currently sends an IF-003 to remove the MPAN from MHHS EES and the MPAN is changed to Legacy and added to the MPRS Internet Data Extract to be sent to Legacy EES.
MHHSP-BRS004-Supplier Overview v5.3		
6	MHHS-BS-SU-04.1 Supplier Request MPAN set up	Supplier must request LDSO to create a new MPAN when a new Connection is required. Supplier will need to specify the anticipated: Connection Type, Energy Direction, Metered/Un-Metered Indicator & Market Segment required for the new MPAN.
7	MHHS-BR-SU-049 Supplier Received new Supplier Details	Supplier must be able to obtain registration details for an Initial Registration via the appropriate interface on the Data Integration Platform and maintain records accordingly. Reference to PUB-001. MHHSP-BRS004 gives the Qualified Supplier no optionality in obtaining the Initial Registration Details through another means, it only covers the MHHS Method of PUB-001 at SecuredActive.
MHHSP-BRS005 – LDSO Overview v5.3		
8	MHHS-BR-LD-010.2 – LDSO send notification of new MPAN	LDSO must send notification to the Registration Service by internal interface that a new MPAN has been created. LDSO should notify details of Connection Type, Market Segment, Energy Direction, DUoS Tariff ID and Metered Indicator. Energisation status will be set to de-energised. Import/ Export relationships should be provided where required.
10	MHHS-BR-LD-012 – LDSO receive Supplier Details for New Connection	LDSO must obtain new Supplier details for a New Connection MPAN from the Registration Service via the appropriate interface on the Data Integration Platform and maintain records accordingly

Ref	MHHS Design BR/Design documents	Issue
MHHS-DEL974 - Migration Design Requirements Log v1.2		
11	<p><u>MHHS-Migration-CoS-RS-002</u> <i>"Each time a Pending registration is received, Registration Service to consult ISD to determine Qualification status of Supplier in respect to the status of the MPAN. In this way, the Registration Service will determine the type of switch that is needed. ""The four possible switch types that can be applied are:</i></p> <ol style="list-style-type: none"> 1. <i>Continue to operate under Legacy processes</i> 2. <i>Continue to operate under MHHS processes</i> 3. <i>Forward Migration</i> 4. <i>Reverse Migration"</i> 	<p>New Connections are set up as MHHS in order to meet the requirements set out in MHHSP-BRS003. Therefore, when a Pending Registration is received MPRS must follow "2. <i>Continue to operate under MHHS Processes</i>" when a Qualified Supplier Registers it.</p>
MHHS-DEL961 - Migration Design Document v1.4		
12	<p><u>8 Reverse Migration – CoS</u></p> <p>The process has been designed to allow customers to switch between Suppliers throughout the Migration period irrespective of the Suppliers' qualification status. This means that if a customer's MPAN is being settled under the new MHHS arrangements, they can switch to a Supplier that has not yet qualified for MHHS.</p> <p>This is the only use case for Reverse Migration; the process has not been designed for Suppliers to swap the arrangements under which MPANs within their customer base are settled or for customers to choose whether they are settled under the new arrangements or the Legacy arrangements.</p>	<p>The Migration Design Document states that Qualified Suppliers cannot swap Arrangements for MPANs in their customer base and customers cannot choose their Settlement Arrangements.</p>

Thank you