
Programme Steering Group #29

07 February 2024

Agenda

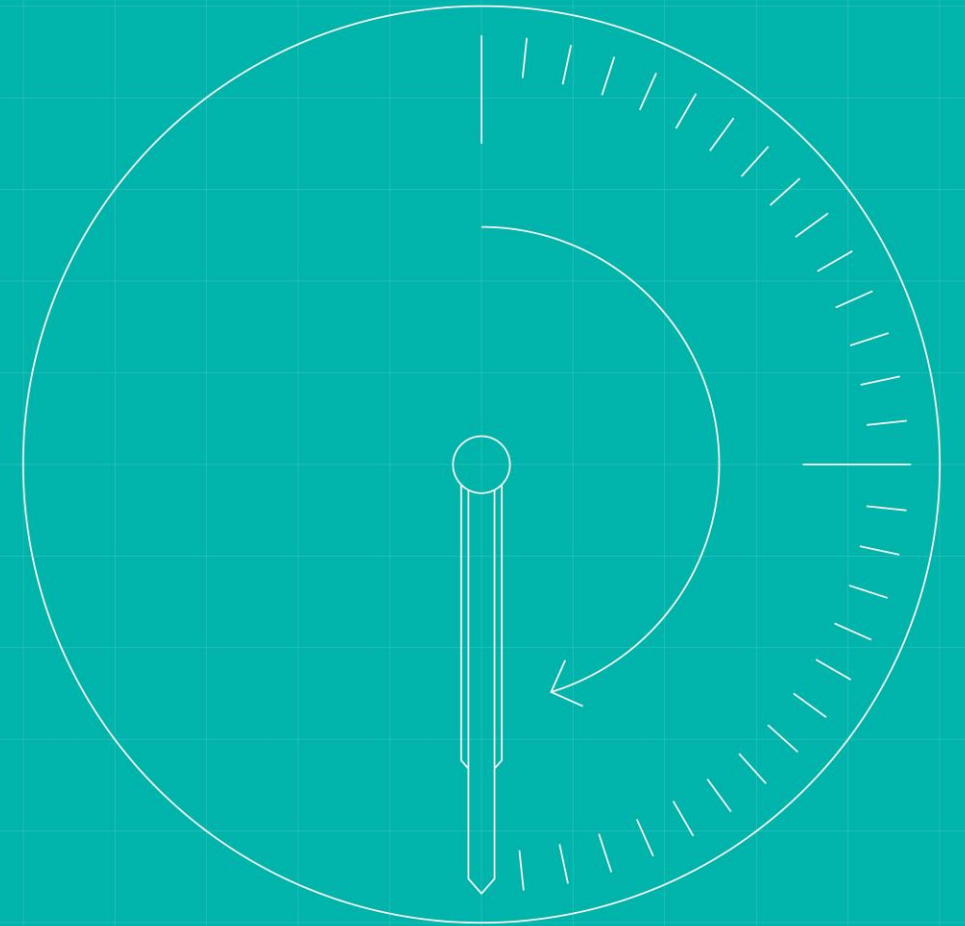
#	Item	Objective	Type	Lead(s)	Time	Page
1	Welcome		-	Chair	10:00-10:05 5 mins	1
2	Minutes and Actions	Approve minutes and review actions	Decision	Chair & Secretariat	10:05-10:15 10 mins	3
3	Sponsor Update	Updates from Ofgem	Information	Ofgem	10:15-10:20 5 mins	6
4	Qualification Testing Updates	Updates on Qualification Testing from the Programme and Elexon	Information	Elexon (Laura Kennedy) & Programme (Nicola Farley)	10:20-10:30 10 mins	7
5	Migration Update	Programme updates on Migration plan	Information	Programme (Warren Fulton)	10:30-10:40 10 mins	10
6	Programme Reporting	Updates from the Programme on: <ul style="list-style-type: none"> Milestone reporting against the Programme Plan Test progress update SIT Functional commencement risks SIT Functional commencement decision choreography 	Information	Programme (Keith Clark & Adrian Page)	10:40-11:00 20 mins	14
7	CR042 Decision	Decision on approval of CR042	Decision	Programme (Matthew Breen & Immy Syms)	11:00-11:10 10 mins	19
8	Future Readiness Assessments	Decision on approval of proposal to align future Readiness Assessments better to key Programme milestones	Decision	Programme (Francesca Drew)	11:10-11:20 10 mins	21
9	CR036 Appeal Update	Updates from the IPA on CR036 appeal	Information	IPA (Richard Shilton)	11:20-11:30 10 mins	24
10	Delivery Dashboards	Questions from PSG members on delivery dashboard content	Information	Chair	11:30-11:50 20 mins	26
11	Summary and Next Steps	Summarise actions and decisions, and look ahead to next meeting	Information	Chair & Secretariat	11:50-11:55 5 mins	56

Minutes and Actions

DECISION: Approve minutes and review actions

Chair & Secretariat

10 mins



Minutes and Actions (1 of 2)

1. Approval of [PSG 10 January 2024 Headline Report](#)
2. Review of actions:

Ref	Action	Owner	Due	Latest Update
PSG17-05	Review the post-implementation approach to Benefits Realisation and how Benefits Realisation will be handed over to Ofgem at M16	Programme (Jason Brogden)	PSG February 2024	RECOMMEND CLOSED: MHHSP, Ofgem, IPA Benefits Realisation meeting 23-Jan-24. Ofgem to progress post-implementation benefits monitoring framework. It was agreed that these are outwith the Programme and an Ofgem responsibility to progress, therefore from a Programme perspective this can be closed.
PSG18-05	Look into the assurance process for LDSOs for the accuracy of data for DUoS billing	Programme (Jason Brogden)	January 2024	ONGOING REMAINING ITEM: IPA progressing proposed DBT2 assurance activities with Ofgem.
PSG21-05	Programme to discuss with IPA the potential inclusion of IPA test assurance activities alongside programme plan information, to assist participants' view of effort requirements	Programme and IPA	Q1 2024	ONGOING: IPA test assurance activities have been incorporated into the new MHHS Transition Timeline and Implementation Approach. The minor updates include a new swim lane within the POAP which cover related IPA activities. The updated document is due to be republished following the restructuring of certain SIT preparation activities (Q1 2024 Jan-Mar). In the meantime, participants are encouraged to contact the IPA for a view on any IPA assurance activities.
PSG24-01	Elexon and RECCo to provide transparency around qualification testing dates, assumptions on equivalence from SIT, and understanding of testing which may be required in addition to SIT-based evidence requirements. In addition, Elexon and RECCo to ensure the clarifications are raised to the Qualification and E2E Sandboxing Working Group (QWG) and current plan dates are published.	Elexon (Oli Meggitt) & RECCo (Jonny Moore)	04/10/2023	ONGOING: Updates provided under Agenda Item 4.
PSG24-02	Elexon to discuss development of the Qualification Assessment Document (QAD) and Qualification Approach and Plan document with the IPA	Elexon (Oli Meggitt)	04/10/2023	ONGOING: Elexon Helix to provide update.
PSG27-04	Programme to provide information to the Large Supplier Representative on how headline reports will be managed, to enable this to be provided to constituents	Programme (Fraser Mathieson)	07/02/2024	RECOMMEND CLOSED: Information provided to Large Supplier Representative outlining how headline reports are managed, how requirements are enshrined within the MHHS Governance Framework, and inviting feedback on the headline reports of the December 2023 and January 2024 PSG meetings.

Minutes and Actions (2 of 2)

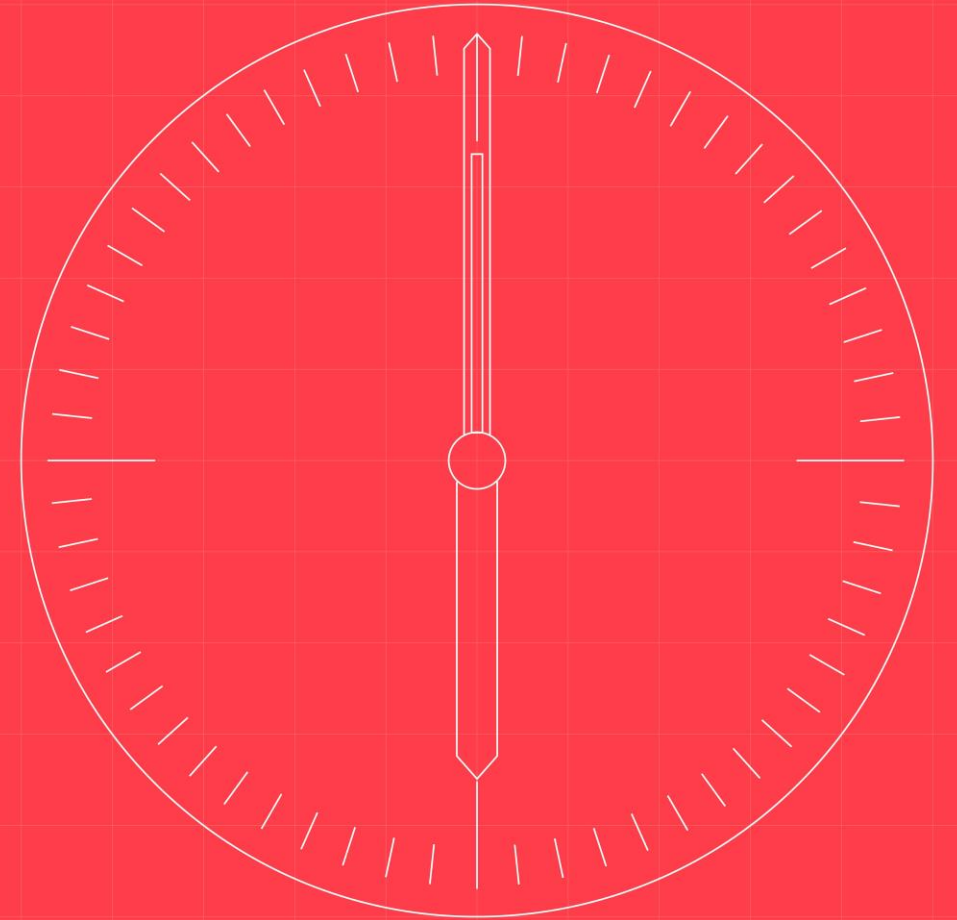
Ref	Action	Owner	Due	Latest Update
PSG28-01	Elexon to provide detailed update on the progression of the Settlement Analysis Scoping Working Group (SASWG) outputs	Elexon (John Abbott)	07/02/2024	ONGOING: Meeting 30-Jan-24 between Elexon, Programme and Gareth Evans. Elexon Helix to consider next steps.
PSG28-02	Programme to provide update on SIT Functional risks, including overview of deep dive sessions held with the IPA	Programme (Keith Clark)	07/02/2024	RECOMMEND CLOSED: Provided under agenda item 6 ' <i>Programme Reporting</i> '. Overview also provided by IPA at FTIG on 26 January 2024.

Sponsor Update

INFORMATION: Updates from Ofgem

Ofgem

5 mins

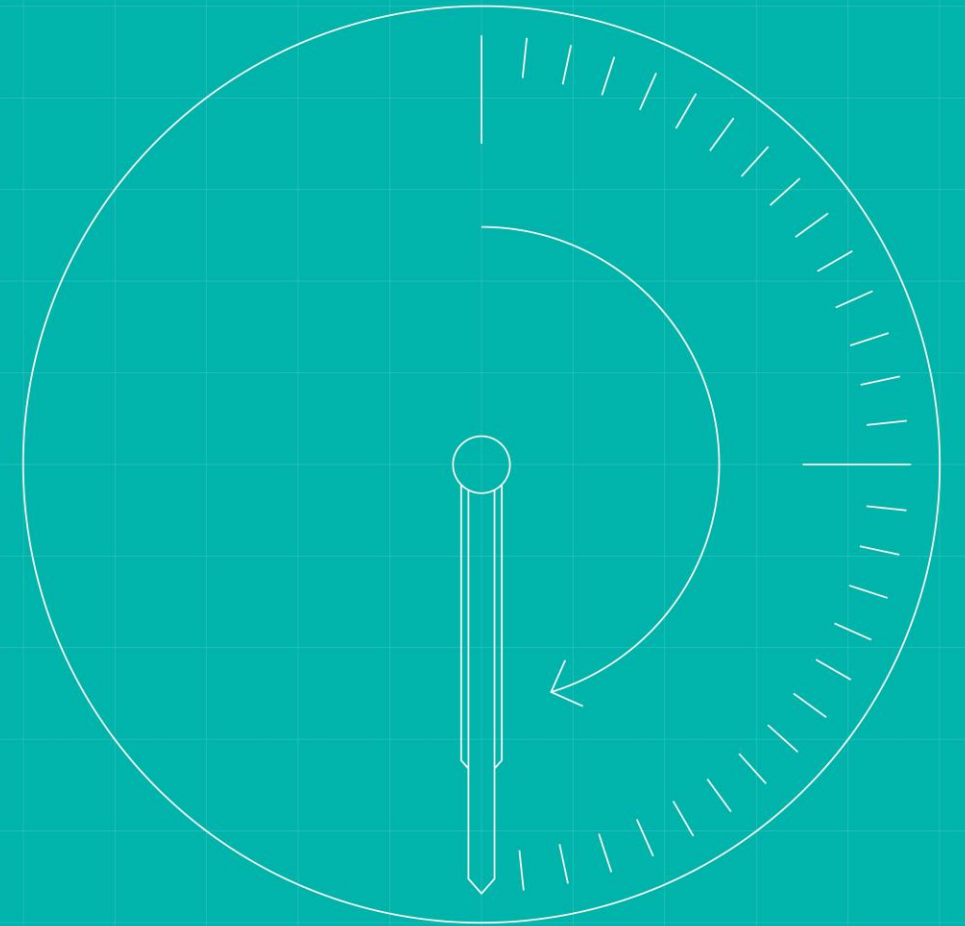


Qualification Testing Updates

INFORMATION: Updates on Qualification Testing from the Programme and Elexon

Elexon (Laura Kennedy) & Programme (Nicola Farley)

10 mins



Qualification Update

Qualification Route	Topic	Update
All	Qualification Approach & Plan (QA&P)	<ul style="list-style-type: none"> The QA&P is being provided for consultation on 31/01 running until 14/02. The document is relevant for all parties and is also being published with Annex 4: Non-Completion of Qualification and Annex 1 on Non-SIT LDSO QT Test and Plan (see next slide). March's QAG will be asked to approve the QA&P (ahead of final approval by BSC PAB/REC PAB in March) and the subsequent changes to Tier 3 qualification programme milestone to realign the programme plan. The proposed milestones will be shared at February's QWG and QAG.
	Qualification Assessment Document (QAD)	<ul style="list-style-type: none"> The QAD role specific section was presented at QWG on 17/01. The QAD content is currently going through internal sign off and is expected to go out for consultation on 16/02.
	UMS Exemption	<ul style="list-style-type: none"> BSC PAB approved the exemption of UMS Qualification for non-UMS capable Supplier, subject to taking forward specific actions to: Include a change to the BSC to support this as part of the MHHSP Consequential Code drafting. Progress a change with REC to look to make a CSS change to automate a prevention to switching (not as part of the MHHs baseline).
Non-SIT	PIT – DBT1/2 Confusion	<ul style="list-style-type: none"> Concerns have been raised by Participants that the scope of PIT as part of Qualification is not clear, in particular regarding DBT1/DBT2. An update will be taken to Feb QWG to clarify the position.

Qualification Update

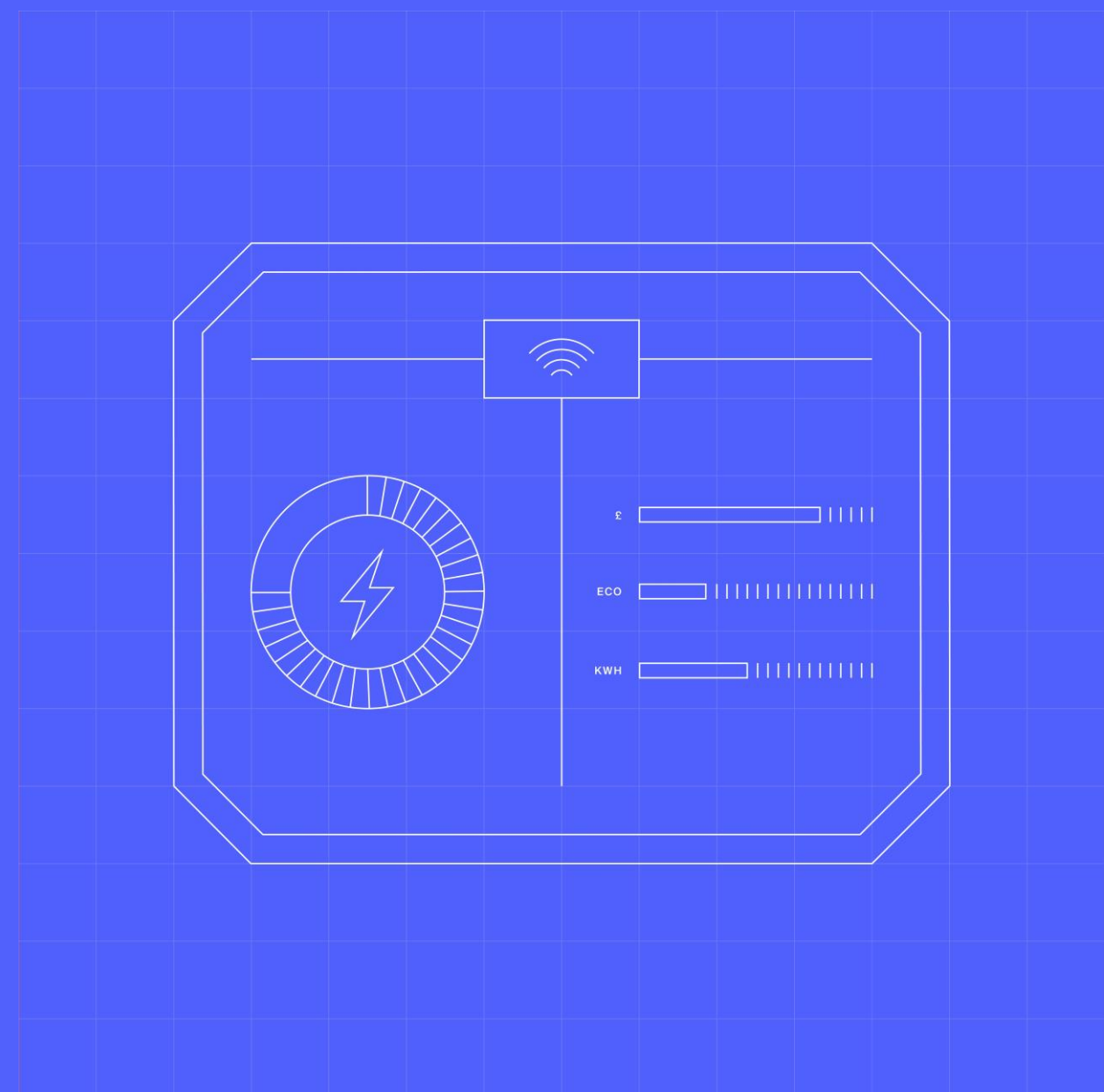
Qualification Route	Topic	Update
Non-SIT Supplier and Agents	Pre-Qualification Submission	<ul style="list-style-type: none"> QWG consultation complete and launch of the Pre-Qualification Submission form is 05/02 and Non-SIT Suppliers and Agents are welcome to start completing the form from this date. The deadline for submission is 26/04. Submission date will not impact a participant's wave allocation as long as it is received before deadline. Webinar scheduled in March to support participants with completion of the form.
	Test Environment and Test Data Approach	<ul style="list-style-type: none"> Industry experts from CGI have joined the Supplier and Agent Qualification Test Team and are currently running a PoC to validate their proposed approach to the QT environment and test data. An update will be given at Feb QWG for feedback from Participants. The Non-SIT Supplier and Agent Qualification Testing Approach and Plan (Annex 2 of the QA&P) is expected to be issued for consultation in late Feb.
Non-SIT LDSO	Annex 1 (Non-SIT LDSO MHHS QT Approach & Plan)	<ul style="list-style-type: none"> Non-SIT LDSO MHHS Qualification Testing Approach and Plan is Annex 1 of the QA&P and will be issued for consultation at the same time as the QA&P. The consultation will run from 31/01 till 14/02.
	Test Environment and Test Data Approach	<ul style="list-style-type: none"> Development of test data plan is underway with early draft to be shared in February Test environment approach has been shared at QWG for discussion. MHHSP-DEL618 Environment Approach & Plan will be updated to reflect the outcome of these discussions.
	Test Scenarios	<ul style="list-style-type: none"> First LDSO review session of test scenarios scheduled for 1st February
	Placing Reliance	<ul style="list-style-type: none"> Placing Reliance submissions are outstanding from 2 new entrant LDSOs. Code Bodies and MHHSP have completed their initial review of submissions and will be sharing feedback shortly with LDSOs. Still on track for finalisation by the end of February.

Migration Update

INFORMATION: Programme updates on Migration plan

Programme (Warren Fulton)

10 mins



Migration preparation approach

Framework approach

It is proposed that we use a framework to govern the Migration phase of the Programme as well as the operational running of the Migration Control Centre (MCC).

The MCC framework will define the necessary elements required to govern the MHHS Migration phase and maintain the integrity of the MCC, including;

- Migration principles (e.g. Capacity allocation and re-allocation principles)
- Success criteria
- Migration Governance (e.g. decision-making responsibilities, entry/exit criteria, exception management processes, Migration partner SLA's)
- MCC Operating model (e.g. objectives, processes, reporting)

The MCC framework will be developed in collaboration with the Migration Working Group (MWG) and will be issued for industry consultation and ultimately approval by the Migration and Cutover Advisory Group (MCAG). Once baselined, the Framework will come under Change Control under the MCAG.

This approach and a preliminary framework was proposed and well received at the January 2024 MWG and will be developed over the next quarter.

PSG 'call to action'

PSG is requested to note:

1. Incentives – The Programme continues to work with Code Bodies and Ofgem to agree on consequential incentives to mitigate qualification and migration risks. Incentives will be a key contributing factor to realising the MHHS benefits and preventing programme delays and additional cost to the consumer.

PSG is requested to action:

1. MWG attendance – Although MWG attendance is healthy, Participants are reminded to join the MWG to contribute to the development of the MCC framework. The framework is being developed incrementally, and key principles agreed in the MWG will not be revisited during the final industry consultation. PSG representatives are kindly requested to convey this message to their constituencies.

PSG is requested to comment:

1. If there are any concerns with the migration principles listed in the subsequent slide. No comments required if in agreement.

Migration complexities and preliminary principles

Migration purpose

The purpose of the MHHS Migration Phase is to complete the migration of Meter Point Administration Numbers (MPANs) to the new settlement arrangements in a manner that:

1. Seeks to accelerate the realisation of the MHHS benefits
2. Is fair and transparent
3. Is in accordance with the MHHS Programme plan and prevents unnecessary overrun costs to Balancing & Settlement Code (BSC) parties and consumers
4. Achieves the M15 acceptance criteria

Migration complexities

1. Fixed timeline – The migration must be completed by M15 otherwise legacy settlement operations will need to be maintained for longer than expected which will come at significant cost. In addition, any future industry change will be delayed / complicated due to an extended change freeze. Mitigations and incentives will be required to contain this risk.

2. Finite migration capacity – The MHHS migration phase has a finite migration capacity due to the daily migration thresholds and the fixed timeline. This means the daily capacity should be used as much as possible and ‘back-loading’ of the migration should be avoided at all costs.

3. Differing approaches – Participants will most likely have differing approaches to completing their migration and their preferred schedules may not align with migration capacity availability. Due to the finite migration capacity, and the need for fair allocation, participants will be required to be flexible and align with the available migration capacity.

Migration complexities (continued)

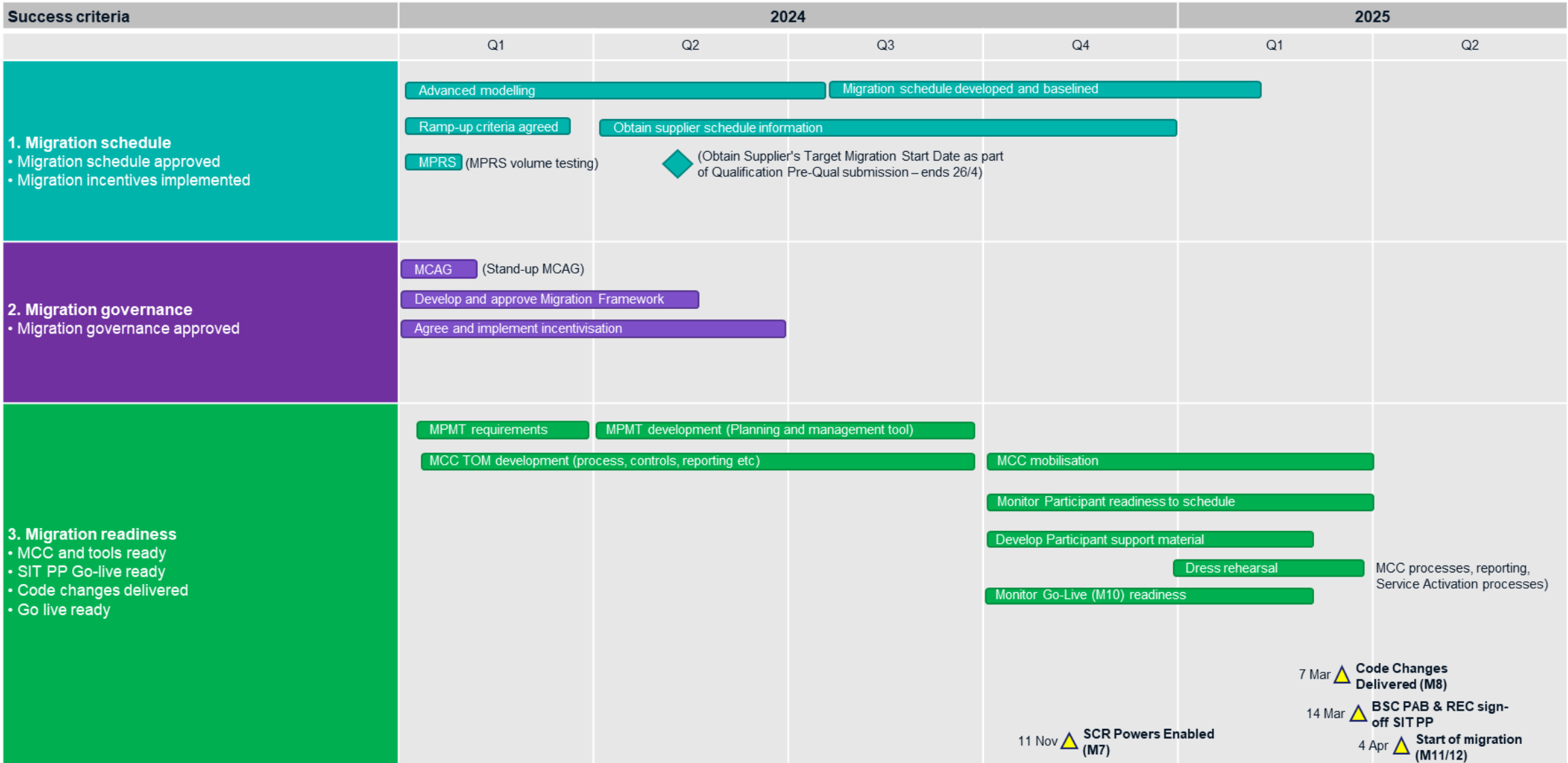
4. Ecosystems – Supplier hubs must be in place before migrations can start.

5. Ramp-down – Participants may leave their ‘Non-Smart/Advanced’ MPANs and complex MPANs to the tail-end of the migration phase and the Programme may run out of time and capacity to complete the migrations.

Migration principles (work in progress)

1. A Migration schedule will be agreed with participants before M10 and allocation principles will govern the allocation of migration capacity to participants in an **objective, fair and transparent manner**
2. Participants will be required to be **flexible** with their migration schedules to enable the optimal utilisation of the finite migration capacity and support fair capacity allocation
3. The MCC will continuously seek to **use all available capacity** with the management of the migration schedule, monitoring of participant readiness, monitoring migration effectiveness and managing the re-allocation of capacity if required
4. The MCC will have **delegated authority** to manage changes to the Migration Schedule and re-allocations as per the MCC framework
5. The MCC will provide **transparency** of total planned migrations per day, per Licensed Distribution System Operator (LDSO); and will regularly report on migration performance (success, exceptions)
6. The MCC will provide **transparency** of participant performance to plan. This may be in the form of a RAG status and not participant MPAN volumes.

Migration Preparation PoaP



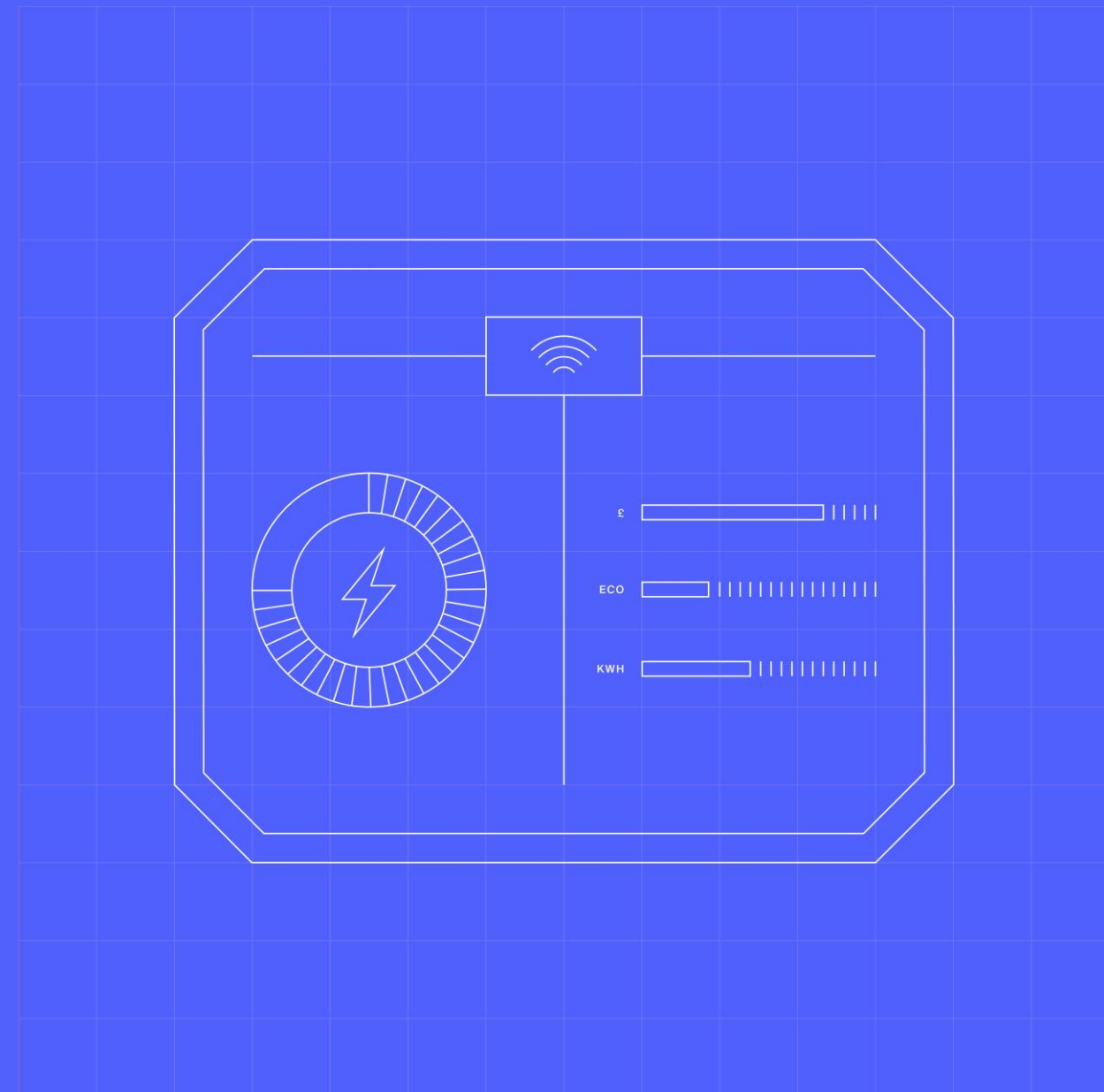
Programme Reporting

INFORMATION: Updates from the Programme on:

- Milestone reporting against the Programme Plan
- Test progress update
- SIT Functional commencement risks
- SIT Functional commencement decision choreography

Programme (Keith Clark & Adrian Page)

20 mins



MHHS Milestone Status*

Milestone ID	Milestone Title	Baseline Date	Forecast Date	Previous RAG 10 th Jan	Current RAG 7 th Feb	Forecast RAG 6 th Mar	Commentary
T3-TE-0091	Environment Approach and Plan – Non-SIT LDSO	Wed 15/11/23	Wed 17/04/24				Sims and Ems team are confirming test harness requirements and build options with the LDSO Qualification Team. QWG & EWG will review before the document is updated, reviewed at SITAG and approved in April QAG
T3-DB-0093	SIT Functional PIT Test Approach & Plan (PIT) submitted to Programme for assurance	Fri 17/11/23	Fri 04/12/24				
T3-DB-0091	SIT Functional PIT RTTM submitted to Programme for assurance	Thu 07/12/23	Thu 07/12/23				See next slide for details.
T3-DB-0089	SIT Functional PIT test scenarios submitted to Programme for assurance	Thu 07/12/23	Thu 07/12/23				See next slide for details.
T3-DB-0139	All SIT Functional Test approach and plans MHHS Reviews Completed	Thu 11/01/24	Thu 11/01/24				See next slide for details.
T3-DB-0140	All SIT Functional RTTMs MHHS Reviews Completed	Thu 18/01/24	Thu 18/01/24				SI reviews will be complete once all PP documents have been received.
T3-DB-0141	All SIT Functional Test scenarios' MHHS Reviews Completed	Thu 18/01/24	Thu 18/01/24				SI reviews will be complete once all PP documents have been received.
T3-DB-0181	All UMSO PIT (CIT interval 6) Completion Reports MHHS Review Completed	Fri 19/01/24	Fri 19/01/24				SI reviews will be complete once all PP documents have been received.
T3-TE-0103	SIT Functional Connectivity Proving Complete	Fri 02/02/24	Fri 01/03/24				More time required for all PPs to ensure they have updated their DTN gateway.
T3-DB-0142	All SIT Functional PIT Completion Reports MHHS Review Completed	Fri 23/02/24	Fri 23/02/24				SI reviews will be complete once all PP documents have been received.
T3-TE-0032	SIT Component Integration Testing End (incl. confirmation that PPs have submitted their Test Completion Reports to Programme for assurance)	Fri 23/02/24	Fri 23/02/24				Currently, all PPs are expected to complete their CIT by the target date on 09-Feb.
T3-BC-0010	Service Management Strategy approved	Tue 27/02/24	Tue 27/02/24				
T2-TE-0550	SIT Functional Testing Preparation Complete	Fri 01/03/24	Fri 01/03/24				See Risk Theme 1 later in this presentation.
T2-TE-0600	SIT Component Integration Testing Test Completion Report Approved	Fri 08/03/24	Fri 08/03/24				
T3-TE-0034	SIT Functional Testing Start	Mon 11/03/24	Mon 11/03/24				See Risk Theme 1 later in this presentation.

Milestone RAG definitions

Complete	On track	Likely to be met if issues / risks are resolved / mitigated	Unlikely to be met without escalated support
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- All Tier 1 and Tier 2 milestones to SIT Functional Testing Start are included. Selected Tier 3 milestones are included for context

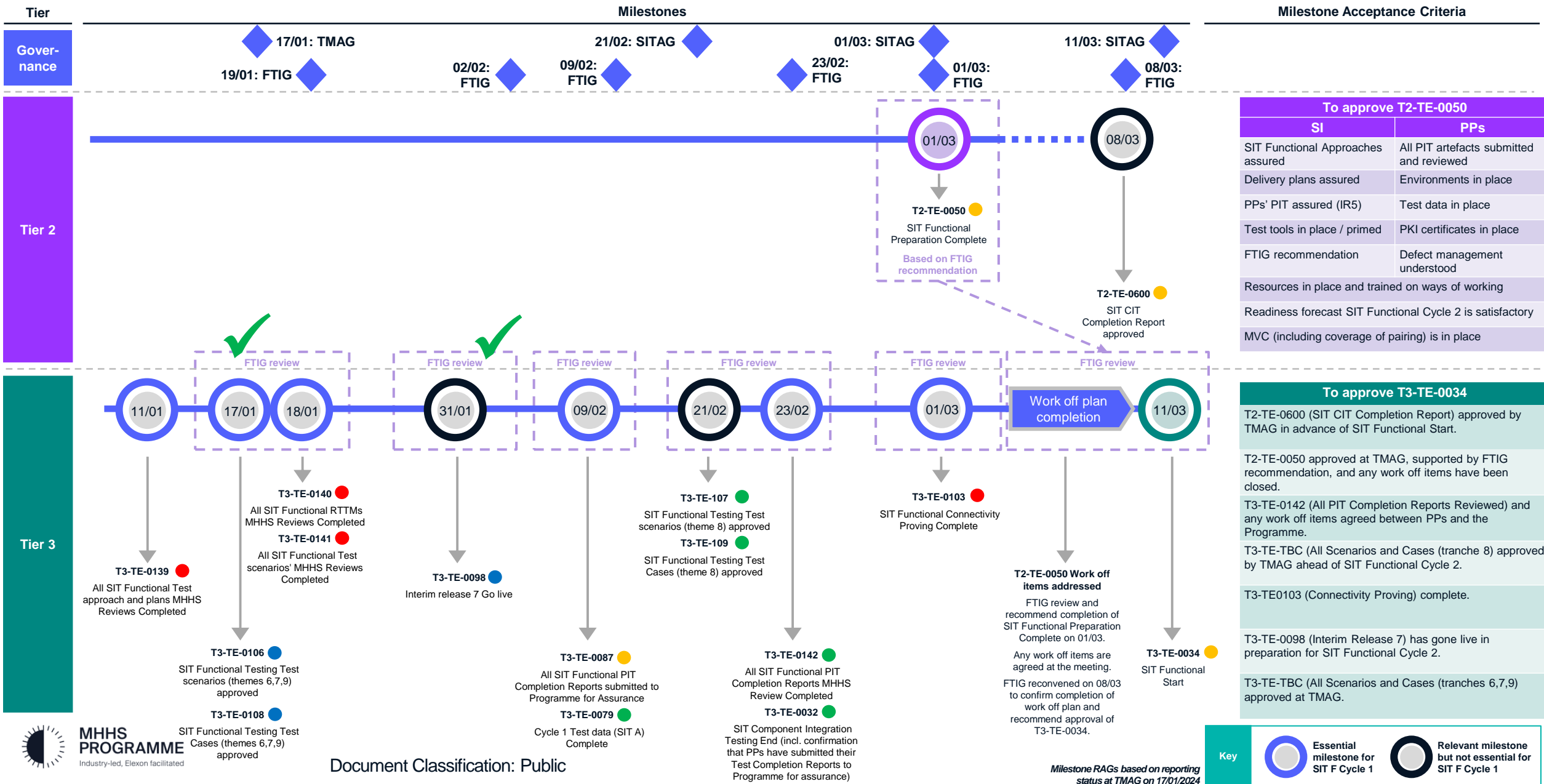
CIT (data as of 30-Jan-24)

- 23 of 30 active PPs have completed CIT
- 5 of 30 PPs in Formal CIT (1 MVC Critical)
- 2 of 30 PPs left to commence CIT, of which 1 is Onboarding (Interval 3) and 1 is in Smoke Test (Interval 6 / MVC Critical)
- All interfaces successfully tested (36 in scope for CIT)
- PPs on track to complete by 09-Feb-24
- Onboarding lessons learnt session planned for Feb for application ahead of LDSO qualification in the summer
- DIP development of secondary routing in test
- Programme testing secondary routing starts 05-Feb-24

SIT Functional

- Test execution commences: 11-Mar-24
- Test Scenarios and Test Cases – Themes 1-9 approved except for Theme 8 (Settlement) planned for Feb SITAG approval (to be used in Cycle 2 of testing)
- PPs sending in test artefacts - all A&Ps received, and feedback provided. Majority of RTTMs and test scenarios received, and feedback provided, last few being chased
- SIT F PIT – being performed by CCPs and PPs on IR5.3 to complete by 09-Feb-24, we expect some to overrun
- Data – 8 cohorts defined and communications through FTIG, data preparation on track
- Environments – uplift to SITA to IR5.4 from 01-Mar-24 ready for SIT Functional
- Supporting processes being updated from lessons learnt on CIT and different requirements for SIT F (e.g. ADO set up, DITL)

Overview of SIT Functional Decision Choreography

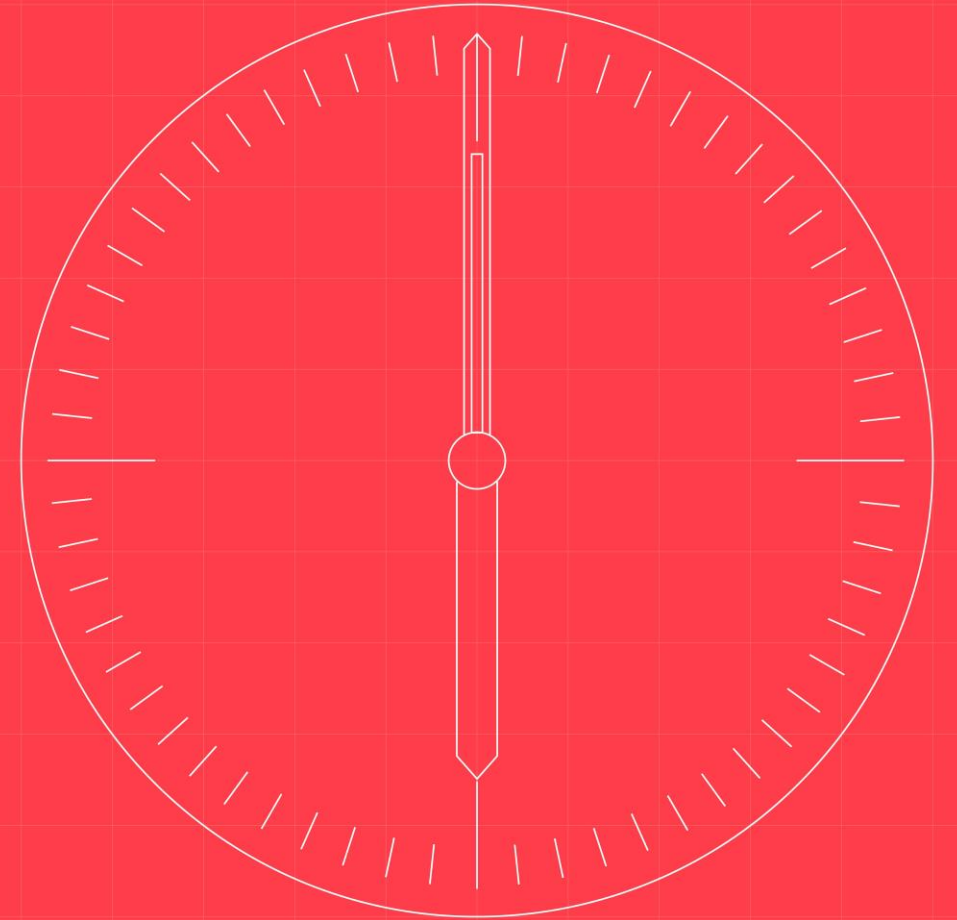


CR042 Decision

INFORMATION: Decision on approval of CR042

Programme (Matthew Breen & Immy Syms)

10 mins



CR042 Overview

Objective: PSG to approve CR042 and agree on next steps

Amending the 'M16 Methodology Approved' Milestone

Issue Statement:

- The 'M16 methodology approved' (Success Criteria) milestone date is currently 26 April 2024 however, the Transition workstream is proposing that this date is pushed back.

Description of Change:

- The proposal is to amend the Programme Plan T2 Milestone date for the 'M16 methodology approved' milestone to 22 October 2024 and adjust it to a T3 milestone.
- By moving the delivery date to 22 October, this moves the deliverable in line with the October MCAG and allows the Programme to deliver the M10/M11 Cutover Plan, the Early Life Support Model and the M15/M16 Cutover plan ahead of the M16 methodology, all of which will be required ahead of the M16 methodology. Some of these deliverables will be required later in 2024, while the M16 Success Criteria relate to a milestone that is in late 2026.
- In addition, this will allow the Transition workstream to progress through the deliverables that it needs to produce in chronological order, and it will allow the Transition and Operational Readiness Working Group to follow a logical path, with milestones relating to M10/M11 delivered first, followed by deliverables relating to M14 and M15 and then finally deliverables relating to M16.
- The recommendation to change this milestone to a T3 milestone is based on the definition of a T3 milestone: "Milestones that are considered key input activities to Tier 2 (Critical Thread) milestones"... "Working Groups and Sub-groups will be tasked with completing these tasks and reporting progress and completion to the appropriate Advisory Group to inform a decision.". This milestone aligns to this definition. Furthermore, by changing the milestone to a T3 milestone, this means it can be approved by MCAG rather than having to go to PSG.

Target Date of Change and Next Steps:

- If the PSG believes the Change Request is valid, the Change Board recommends that it should be approved without Impact Assessment due to the negligible impact on Programme Participants.
- As the change only requires an update to the plan, it can be implemented immediately following approval.

MHS PROGRAMME
Industry-led, Elexon facilitated

Change Request Form

Change Request details

Change Request details	
Change Request Title	Amending the 'M16 Methodology Approved' Milestone
Change Request Number	CR042
Originating Advisory / Working Group	Transition and Operational Readiness Working Group
Risk/issue reference	-
Change Raiser	Matthew Breen, MHHS SI
Date raised:	16/01/2024

For further guidance on how to complete this document please see the supporting Change Request Form Guidance for Programme Participants. The guidance will support raising a change and responding to a change request via Impact Assessment. The Change Raiser should consider sharing the draft Change Request Form with impacted programme parties, prior to submission to PMO. The guidance, as well as other key documents are referenced below and can be found via the MHHS website.

Change Request to be read in conjunction with:

MHHS Change Request Form Guidance for Programme Participants
MHHS Change Control Approach
MHHS Governance Framework
Ofgem's MHHS Transition Timetable

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MHS PROGRAMME
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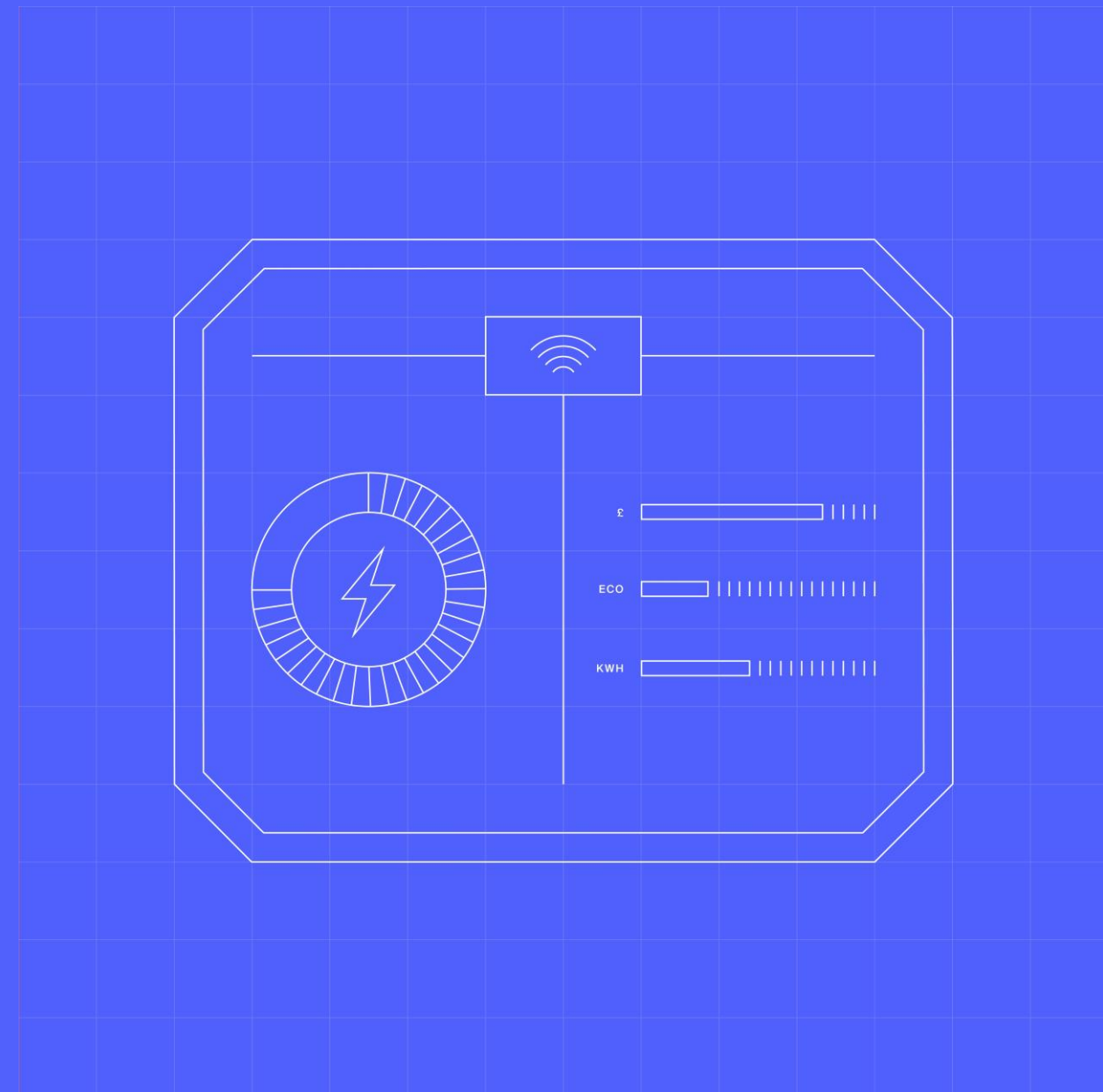
MHHS-DEL2180 CR042 Draft

Future Readiness Assessments

DECISION: Decision on approval of proposal to re-align future Readiness Assessments better with key Programme milestones

Programme (Francesca Drew)

10 mins






Proposal to re-align future Readiness Assessments better to key Programme milestones

- Readiness Assessments are an essential tool in ensuring all parties are meeting their obligations to allow the Programme to deliver on time and identify risks and issues where readiness has not been met. Readiness Assessments form part of the data-driven approach to targeting PPC support where it is most needed.
- The **timelines** and **scope** for Readiness Assessments 3, 4, 5 and 6 per the **current version of the Programme Plan** are shown in the diagram below.
- Having reviewed this information off the back of Readiness Assessment 3 and Control Point (CP) 2, the Programme is proposing **re-aligning future Readiness Assessments better to key Programme milestones**. These changes and supporting rationale are outlined in the next slide and are being **presented to PSG for your approval**.

Activity	Scope	Timing	2023		2024				2025	
			Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Readiness Assessment 3	Design & Build progress check CP2 check	Sept 23 – Nov 23								
Readiness Assessment 4	Design & Build progress check	Apr 24 – Jun 24								
Readiness Assessment 5	Start of Qualification	Nov 24 – Jan 25								
Readiness Assessment 6	Start of Migration CP3/CP4 check	Jan 25 – Apr 25								

Proposal to re-align future Readiness Assessments better to key Programme milestones

Activity	Scope	Timing	2023		2024				2025	
			Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Readiness Assessment 3	Design & Build progress check CP2 check	Sept 23 – Nov 23								
Pre-Qualification Submission	Qualification readiness check	Feb 24 – Jul 24								
Readiness Assessments 5 & 6	Start of Qualification Readiness for M10 Readiness for M11 CP3/4 check	Nov 24 – Jan 25								

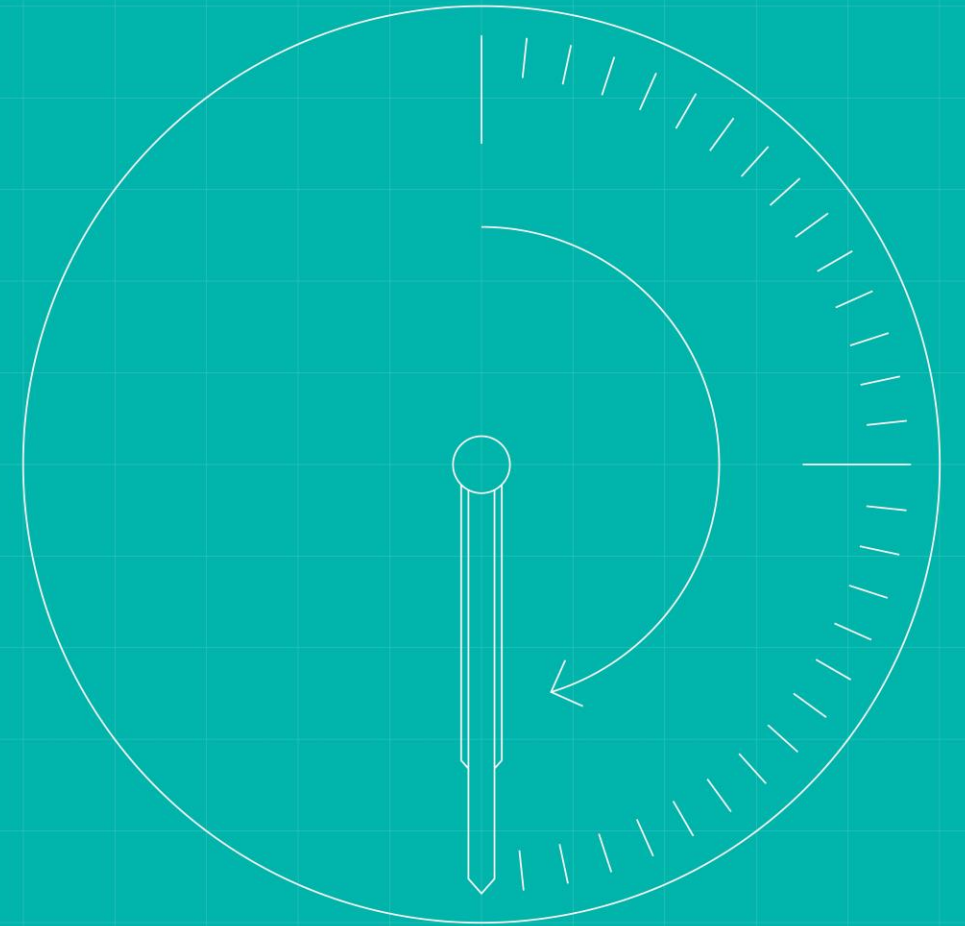
- Firstly, we are proposing to **remove Readiness Assessment 4**. This is because:
 - The **Pre-Qualification Submission** published to industry earlier this month will provide a **strong indication of Non-SIT Supplier and Agent readiness for Qualification Testing and Migration**.
 - The Programme will already have a **clear view of progress in SIT and LDSO readiness for Qualification Testing**.
 - The Programme recognises that Readiness Assessments require significant commitment from participants in terms of time, effort and resource, and is keen to **reduce the burden on participants in the midst of preparing for / executing SIT or Qualification Testing**.
- Secondly, we are proposing to **combine Readiness Assessments 5 and 6** to avoid running two separate Readiness Assessments at the same time as is outlined in the current version of the Programme Plan. The scope of these two Readiness Assessments will be combined and altered slightly to focus on:
 - The **start of Qualification Testing**
 - **Participant readiness for M10 (Go-Live) and for M11 (Start of Migration)**
 - **Control Point 3/4 checkpoint**.

CR036 Appeal Update

INFORMATION: Updates from the IPA on CR036 appeal

IPA (Richard Shilton)

10 mins



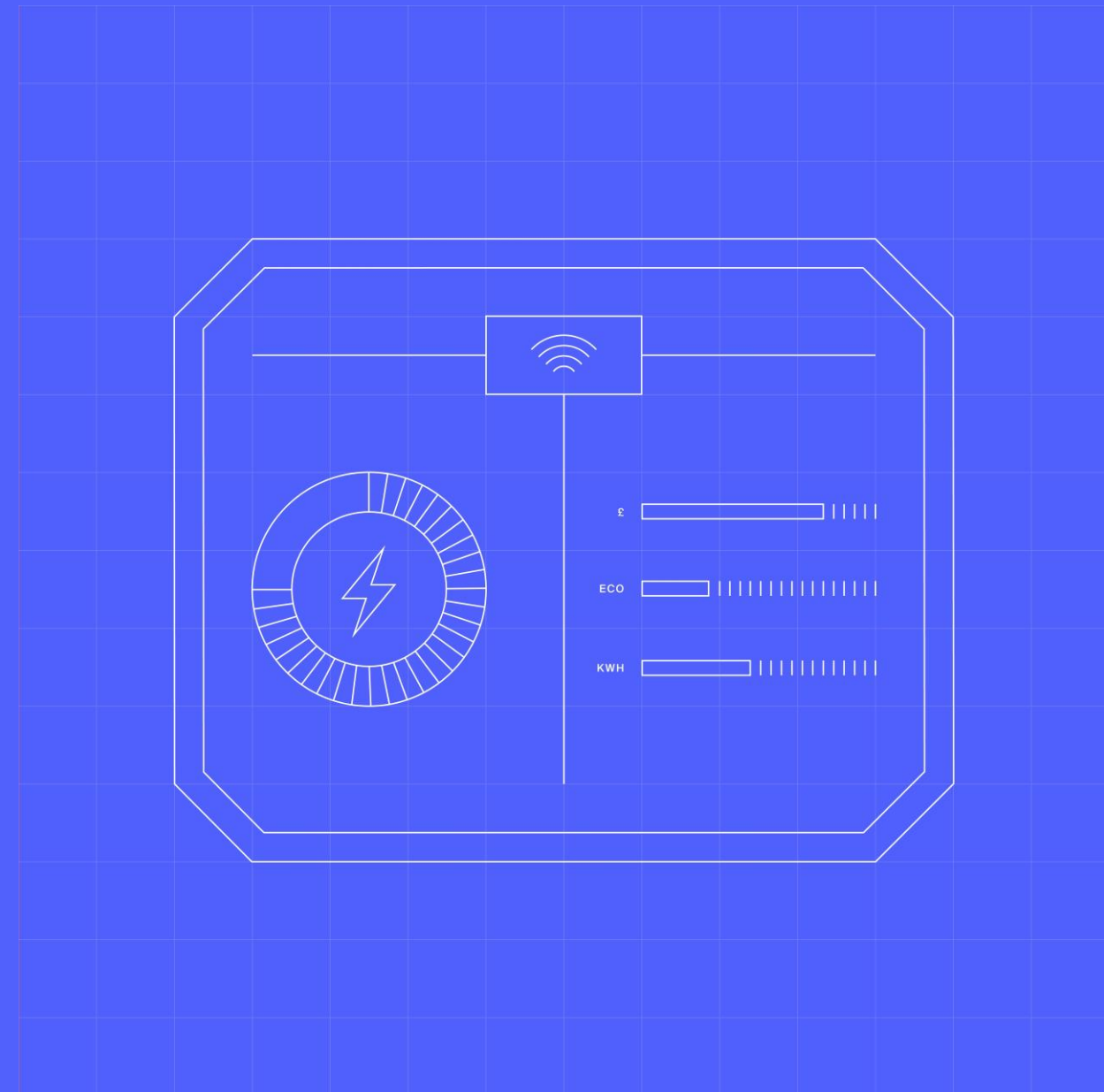
- The IPA received a decision appeal from a constituent group over **CR036 - Use of Clock Midnight for Appointments and Reads** on 23 January 2024.
- The IPA are reviewing the appeal in line with the prescribed process, as shared at the PSG in November 2023, and are aiming to provide their **initial recommendation by 2 February 2024**.
- The recommendation will be discussed with the appeal raiser and SRO in the first instance, before being communicated more widely, as appropriate.
- ***Programme Participants are reminded that whilst the appeal is ongoing, it is expected they should continue working based on the original decision and in line with the MHHS Programme plan.***

Delivery Dashboards

INFORMATION: Questions from PSG members on delivery dashboard content

Chair

20 mins



Delivery Dashboards Overview

Area	Title	Purpose
MHSP Programme Status	Risk Themes	Provide a high-level view of Programme Risks
	Change Control	Update on the status of Change Requests
Industry Delivery Status	SIT MVC Status	Provide the status of SIT participants
	SIT Stage Statuses	Provide status of SIT stages
	Core Capability Provider Delivery Reports	Provide an overview of Helix, DIP, St Clements, RECCo, DCC and ElectraLink delivery plans and progress against them
	LDSO Delivery Updates	Provide the combined status and progress of LDSO delivery (DNOs and iDNOs)
	Central Party Finances	Provide high level Central Party budgets and expenditure
	SI Workstream Update	Update on activity and progress in the Design Management, Testing and Transition workstreams
MHSP Workstream Activity	Fast Track Implementation Group (FTIG) Update	Update on the progress of FTIG
	Code Drafting Status	Update on the progress of Code Drafting against the Code Draft plan
	Level 3 Advisory Group Updates	Update on key discussion items and outcomes from recent Level 3 Advisory Groups and provide a forward look of agenda items
	PPC Activity	Provide information on PPC activity and participant engagement – includes a summary from the recent open day
	Industry Change	Summarise items raised to the Programme horizon scanning process
Assurance	Independent Programme Assurance (IPA)	Provide a progress update on in-flight and planned assurance activities

Risk theme 1: Commencing SIT Functional as planned

RAID (1 of 3)
Updated to 29/01/2024

Theme	Summary	Mitigation Approach Overview	RAG Status	
Commencing and completing SIT as planned	SIT success is reliant on (1) Core Capability Providers being ready and (2) sufficient volunteers being available to sustain a minimum viable cohort (MVC) through SIT – whilst aiming to de-risk migration start and maximise early migration volumes.	<ul style="list-style-type: none"> Continuous monitoring of the MVC (through SIT CIT) to ensure that the MVC remains viable Construction of pairing relationships via go-live cohorts, to enable better programme decisions based on risk Ongoing liaison with Code Bodies on Qualification requirements that might drive SIT requirements (e.g. assurance activities that might be required to mitigate any risks from differences between SIT and production environments). The Programme is maintaining the assumption that no additional Qualification Testing execution will be required for SIT participants. 	Previous RAG	(27 Risks)
			Current RAG	(35 Risks)

Risk ID	Risk Description	Key Risks															Current score movement since last PSG	Mitigation Plan																												
		Risk Score Assessment																																												
		Critical			High			Medium			Low																																			
															30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1		
R759	Completion of SIT parties' CIT testing Not all SIT parties may complete their CIT activities by the target date of 09-Feb.																		I	C	T	Improving	<ol style="list-style-type: none"> Ensure strong programme support to enable 09-Feb to be reached by all SIT parties, focused on resolving blockers Contingency plan in place - support for remaining SIT parties to complete their CIT between 09-Feb and 23-Feb, on the existing DIP version (IR2.3) 																							
R761	Secondary Routing Secondary Routing scope may be insufficient to fully supplement SIT Parties' own CIT tests.																		I	C	T	Improving	<ol style="list-style-type: none"> SI has provided evidence (to IPA) to demonstrate the scoped Secondary Routing tests being sufficient to complete CIT satisfactorily (traceability). 																							
R749	Secondary Routing DIP Service provider may not be PIT complete, for the updated build for IR5.3 and Secondary Routing start by 09-Feb.																		I	C	T	Improving	<ol style="list-style-type: none"> MHHSP to work closely with the DIP Provider to ensure that the appropriate resources can maintain a focus on delivery. SI to witness DIP PIT to avoid subsequent stage of PIT assurance. MHHSP to work collaboratively with DIP Provider delivery team to ensure all defects are addressed promptly. MHHSP to support any DIP work-off items alongside SI witnessing of secondary routing testing. 																							
R669	Commencement of SIT Functional testing All SIT parties may not be ready for SIT Functional by 11-March, even if they enter and execute CIT successfully and on schedule.																		I	C	T	Unchanged	<ol style="list-style-type: none"> MHHS to continue to monitor and chase CCPs & PPs for remaining (late) documents. Progress reported weekly at FTIG. Bilaterals requested by some PPs to discuss. SIT Parties' pairings now validated; MVC 'go live cohorts' are now baselined and locked. Testing schedule will aim to accommodate a 'soft start', reducing sensitivity to the need for every MVC party to be ready on Day 1. 																							
R758	Commencement of SIT Functional testing SIT Functional testing may not commence as scheduled due to programme readiness.																		I	C	T	Unchanged	<ol style="list-style-type: none"> Risk-managed approach to support and track activities most relevant to the preparation of the core go-live cohorts (the MVC). Programme will review readiness towards SIT Functional, through PPs' SIT CIT and Secondary Routing Test execution progress to ensure any risks are identified, mitigated and shared with FTIG. SIT Functional testing can start provided that the MVC is materially in place. 'Soft start' is being considered as Cycle 1 test allocations and test ordering are defined and communicated. 																							

Key	
I	Initial Score
C	Current Score
T	Target Score

Risk theme 3: Commencing and completing Migration successfully

RAID (3 of 3)
Updated to 29/01/2024

Theme	Summary	Mitigation Approach Overview	RAG Status	
Commencing and completing Migration successfully	The theme explores the factors which may affect the Programme meeting M10 / M11 and completing Migration and how the Programme is planning to mitigate these to stop these risks from converting into issues	<ul style="list-style-type: none"> Some of the existing risk factors around M10 / M11 will be mitigated by the findings throughout SIT Testing, which will evaluate assumptions, highlight to the Programme the areas which require attention and allow the Programme enough time to make the changes necessary for M10 / M11 success The Migration Design, the Migration Cutover & Data Strategy, the Data Cleanse Plan, the Migration Thresholds Document and ongoing Code Drafting will provide Participants necessary materials to prepare for M10 / M11 	Previous RAG	Yellow (38 Items)
			Current RAG	Yellow (31 Items)

		Key Risks																			Current score movement since last PSG	Mitigation Plan										
Risk ID	Risk Description	Risk Score Assessment																														
		Critical					High					Medium					Low															
		30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
R663	There is a risk that those large Supplier Agents, who support multiple large Suppliers, will not be able to support planned migration volumes due to operational or technical constraints																														No change	<ol style="list-style-type: none"> Large Agents have invested in infrastructure (e.g. IT hardware and operating systems) capable of supporting NFR volumes. Large Agents have operational plans and resources in place to manage migration volumes. Suppliers have commercial contingencies in place to manage performance issues of Large Agents (SRO activity once validating supplier plans)
R536	There is a risk that the SCR on charging methodology does not provide sufficient time for MHHS to prepare for M11																														No change	<ol style="list-style-type: none"> Work closely with ESO to resolve the issue and consider making changes to the CUSC to ensure that an appropriate charging methodology is in place for migration CR0032 DAG approved for implementation in IR7 incl. pseudo Measurement Class mapping Continue to work with ESO and Ofgem Network Charging Lead to ensure any workaround is reflected in Transmission Charging
R560	There is a risk that a small number of data services will be contracted to most SIT suppliers, limiting ability of that service to deliver Migration volumes to forecasted plan																														No change	<ol style="list-style-type: none"> Non-functional requirement testing to be considered for data services (volume testing) Suppliers contract with other data services if there are any issues highlighted by data services themselves, or by NFR testing (Mitigation1)
R561	There is a risk that the Registration Service could be overwhelmed if too many messages are sent through at one point during the Migration Period																														New item	<ol style="list-style-type: none"> Non-functional requirement testing to be considered for data services (volume testing) Volume testing on MPRS in Jan 24
R677	There is a risk that performance testing of the Migration functionality within MPRS identifies an issue that cannot be resolved in time for SIT and non-SIT LDSO Non-Functional Testing																														No change	<ol style="list-style-type: none"> SCS planning to undertake testing in/by end of Jan 2024 to confirm that MPRS can comply with the planned Migration volumes allocated to DNOs Relaxation of the 60-minute SLA for LDSOs to process all migration messages during the migration period was approved 20-Nov-23 TMAG with the approval of the Migration Thresholds Document.

Key	
I	Initial Score
C	Current Score
T	Target Score

Change Request Status

Change Control
Updated to 25/01/2024

Ref.	Key Detail	Change Raiser(s)	Change Type	Latest Action	Approval Status	Current Stage in Change Control	Action <i>If approved</i>	Implementation date/milestone	Change Owner(s) <i>If approved</i>
CR032	Change to Interface MHHS-IF-165 P0210 TUoS Reporting	Andrew Dudkowsky, National Grid ESO	Full Impact Assessment	Approved by DAG (13-Dec-23)	Approved	Implementation	Implement in IR7	IR7 (Jan-24)	Paul Pettitt and Lee Cox, MHHS Programme
CR033	Remove ELEX REP-005 and include LLF details as part of ISD catalogues	Rashmi Radhakrishnan, HELIX WP3	DIN	Issued to DIN Log by Change Board (24-Oct-23)	Issued to DIN Log	Issued to DIN Log	-	-	Paul Pettitt, MHHS Programme
CR034	Delay to Elexon Level 3 validation response – NFR (1009)	Nigel Rees, Elexon	Full Impact Assessment	Approved by DAG (13-Dec-23)	Approved	Implementation	Implement in IR7	IR7 (Jan-24)	Paul Pettitt, MHHS Programme
CR035	Programme proposal to restructure TMAG in the MHHS Governance Framework and other housekeeping updates	Amy Clayton, MHHS Programme	Full Impact Assessment (Expedited)	Approved by PSG (06-Dec-23)	Approved	Implementation	Appoint constituency reps (PMO)	Jan-24	Lewis Hall, MHHS Programme
CR036	Use of Clock Midnight for Appointments and Reads	Matt Hall, MHHS Programme	Full Impact Assessment (Expedited)	Approved by DAG (13-Dec-23)	Approved	Implementation	Implement in IR7 NOTE: Appeal in progress	IR7 (Jan-24) NOTE: Appeal in progress	Paul Pettitt, MHHS Programme
CR037	Migration Message Processing Choreography Update	Sean Tuffy, MHHS Programme	Full Impact Assessment	Approved by TMAG (17-Jan-24)	Approved	Implementation	Implement in IR8	IR8 (Apr-24)	John Wiggins, MHHS Programme
CR038	Amendments to the MHHS Change Board Terms of Reference	Immy Syms, MHHS Programme	Housekeeping	Approved by Change Board (19-Dec-23)	Approved	Complete			Lewis Hall, MHHS Programme
CR039	Registration Service IF-40 Change	Daniel Tadecicco, St Clements Services	Full Impact Assessment	Issued by DAG to Impact Assessment (response deadline 31-Jan-24)	Open	Impact Assessment			Paul Pettitt, MHHS Programme
CR040	Change to NFR E2E1009 for DNO and iDNO roles	David Yeoman, UKPN	Full Impact Assessment	Impact Assessment window closed (24-Jan-24)	Open	Awaiting DAG approval decision (14-Feb-24)			Paul Pettitt, MHHS Programme
CR041	Change the format of Market Participant Code from Char(1) to Char(2)	Colin Berry, Elexon	Full Impact Assessment	Impact Assessment window closed (24-Jan-24)	Open	Awaiting DAG approval decision (14-Feb-24)			Paul Pettitt, MHHS Programme
CR042	Amending the 'M16 Methodology Approved' Milestone	Matthew Breen, MHHS Programme	TBC		Open	Awaiting Change Board validation (30-Jan-24)			Matthew Breen, MHHS Programme

SIT Stage Statuses (as of 31-Jan-24)

SIT Stage Readiness Key – Outlook to reach and progress through each Stage

On track per programme plan

Expected to meet programme plan if risk mitigation is successful

Unlikely to comply with programme plan

Test Stage	RAG	Comment
CIT	Yellow	<p>Test execution commenced: 31-Oct-23</p> <p>CCPs and PPs</p> <p>23/30 active PPs have completed</p> <ul style="list-style-type: none"> Int 1 – Helix Test Complete Int 2 - Both Adaptor Services executed all tests. BUUK has 2 outstanding failures, SSEN 3 outstanding failures. Being retested from w/c 29 Jan Int 3 – 7 PPs Test Complete, 1 PP onboarding Int 4 – all 7 PPs Test Complete Int 5 – 5 PPs Test Complete, 3 PPs in CIT Int 6 – 3 PP Test Complete, 1 PP in CIT All interfaces have been successfully tested <p>Secondary Routing</p> <ul style="list-style-type: none"> Additional Secondary Routing testing communication to Jan TMAG DIP testing of solution in progress Programme testing due to start w/c 5 Feb
Functional	Yellow	<p>Test execution commences: 11-Mar-24</p> <p>Test Approach (plus associated Test Data) Approach and Plans: Approved @TMAG 16-Aug</p> <p>Test Scenarios and Test Cases – Themes 1-9 approved except for Theme 8 (Settlement) planned for Feb SITAG approval (to be used in cycle 2 of testing)</p> <p>PPs sending in test artefacts - all A&P received and feedback provided, majority of RTTMs and test scenarios received and feedback provided, last few being chased</p> <p>SIT F PIT – being performed by CCPs and PPs on IR5.3 for 09-Feb-24, expect some to overrun</p> <p>Data – 8 cohorts defined and comms through FTIG, data prepare on track</p> <p>Environments – uplift to SITA to IR5.4 from 01-Mar-24 ready for SIT Func</p> <p>Supporting processes being updated from lessons learnt on CIT and different requirements for SIT F (e.g. ADO set up, DITL)</p>
Migration	Green	<p>Test execution commences: 10-Jun-24</p> <p>Test Approach (plus associated Test Data) Approach and Plans: Approved Dec TMAG</p> <p>Test Scenarios & Test Cases: Delivery plans shared Industry, forecast approval Theme 1 - Themes 2&3 April 24.</p> <p>Note – Migration Design complete and follows existing Business Processes with relevant deviations to enact migration. Migration Testing will therefore follow SIT Functional Testing with relevant deviations</p>
Non-Functional	Yellow	<p>Test execution commences: 02-Sep-24</p> <p>Test Approach (plus associated Test Data) Approach and Plans: Planned – Industry Consultation revised to 06-Mar, SITAG Approval revised to 15-May</p> <p>Test Scenarios & Test Cases: Delivery plans to be shared and agreed, forecast approval Jul 24</p> <p>Note – Non-Functional Requirements allocation across PIT and SIT to be socialized in September NFTWG.</p>
Operational	Green	<p>Test execution commences: 07-Oct-24</p> <p>Test Approach (plus associated Test Data) Approach and Plans: Planned – Industry Consultation 21-Mar, SITAG Approval 15-May</p> <p>Test Scenarios & Test Cases: Delivery plans to be shared and agreed, forecast approval July 24</p>

SIT – MVC Status (as of 31-Jan-24)

CCP Readiness Key

Ready

Expected to be ready

Expected to be ready if risk mitigation is successful

Unlikely to be ready

Core Capability Providers (CCPs)	CIT Commentary	SIT F Start Status	Comment
Elexon (Helix)	CIT commenced 01-Nov IFs and PUBs being successfully sent and received with DIP All Tests Progressed, nearing completion, final 2 defects left to resolve	Green	Helix currently in PIT for IR5.2 and on track for SIT F start on 11 Mar.
DIP	IR2.1 PIT – completed with excellent stats. Final review of Test Completion and Work-Off Plan in progress Supporting CIT Interval 1,2 and 3 testing Supporting DIP Onboarding for all remaining PPs	Yellow	Plan agreed and on track to deliver the SIT F code inc secondary routing. This has the programme witnessing DIP PIT testing and then performing some smoke/confidence tests performed prior to SIT F.
St Clements	Expect to be able to start Interval 6 on 29-Jan-24 as planned (smoke testing already complete as part of Interval 2) (Reduced) CIT test scope expected to be achievable in the time allocated – subject to any defects to be resolved	Green	Programme has provided augmented data. Data load can't be effected until CIT execution is complete (environment constraints) but there is expected to be adequate time to do this
RECCo	No expected CIT challenges (EES)	Green	On track
DCC	No DCC participation in CIT.	Green	MDR, CSS changes and capacity upgrades on track. MDRs starting UEPT
ElectraLink	No ElectraLink participation in CIT.	Green	On track
LDP (SI)	All intervals able to start following final data loads, test scripts loading into ADO and ADO training Secondary Routing – CIT Scope reduction communicated to PPs. Additional Secondary Routing testing being planned	Yellow	Approach and plan approved. Test scenarios and phased test cases being approved in themes at TMAG (Dec 23 - Feb 24) on track Data on track. Supporting processes (inc ADO, DITL) in progress with tight deadlines.. Risks and associated mitigation actions worked through within the programme and at SIT Func risk workshops with IPA (9/1, 16/1)

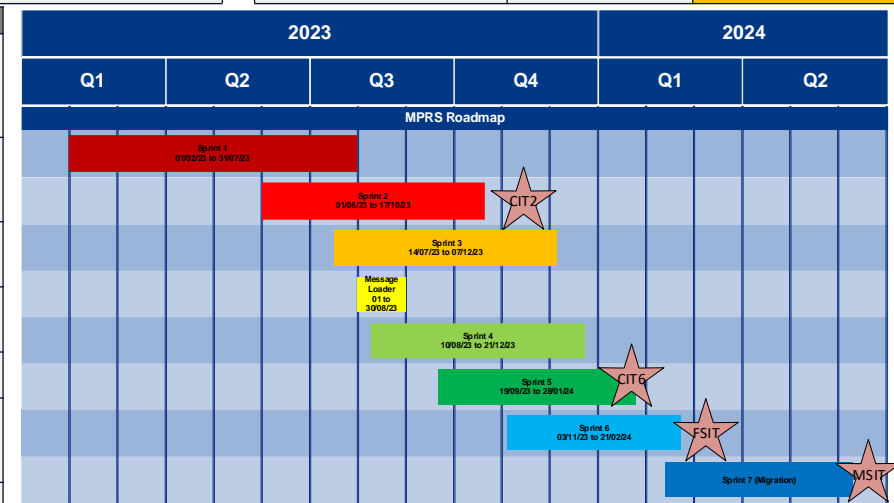
SIT Participants Constituency	Number of PPs confirmed for SIT (FTIG attendees)	Market Roles	Number of Market Roles required for SIT MVC	Number of Market Roles confirmed for SIT	Names of Participants (RAG – Green = confirmed, Black = TBC)
Supplier / Independent Agent	17	Advanced Data Services	2	10	Callisto, Energy Assets ,IMServ, Itron, Kraken Data Services, npower Business Solutions, Procode, SMS, Stark, TMA
		Smart Data Services	2	6	Callisto, IMServ, Kraken Data Services, SMS, Stark, TMA
		Metering Services Advanced	2	11	British Gas, Callisto, EDF, Energy Assets, E.ON UK Energy Solutions, IMServ, npower Business Solutions, Octopus Energy Services, SMS, Stark, Utilita
		Metering Services Smart	2	11	British Gas, Callisto, EDF, Energy Assets, E.ON UK Energy Solutions, IMServ, Octopus Energy Services, OVO, SMS, Stark, Utilita
		UMSDS	2	2	Power Data Associates, Tym Huckin Ltd
		HHDC	1	1	Callisto
		HHMOp	1	2	Callisto, npower Business Solutions
		NHHDC	1	1	Callisto
NHHMOp	1	2	Callisto, E.ON UK Energy Solutions		
Large, Medium, Small, I&C Supplier	8	Suppliers	2	8	British Gas, E, Edgware, E.ON Next, Octopus, Rebel Energy, Unify Energy, Utilita
DNO, iDNO, LD SO	2	Network Operations	1	2	BUUK, SSEN
		UMSO	1	2	BUUK, SSEN
Managed Service Providers	8		n/a	n/a	C&C, ENSEK., ESG, Kraken, SeaGlass, Utiliteam, Procode, Wheatley
National Grid (ESO)	1		1	1	National Grid (ESO)

RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers
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Status & Outlook	<p>Progress this Month:</p> <ul style="list-style-type: none"> Commenced UAT testing of Sprint 5 MPRS Testing Completed for CIT interval 2 via both adapters Delivered test readiness report for PIT for CIT Interval 6 Completed PIT test execution CIT interval 6 Delivered PIT for Functional SIT approach Delivered PIT for SIT Test scenarios & RTTM Partial review of SIT Test Cases/Scenarios CIT Interval 6 readiness report delivered 	<p>Progress expected in the coming month:</p> <ul style="list-style-type: none"> Complete CIT Test execution for Interval 6 Complete Test completion report for CIT Interval 6 Complete PIT for SIT Test execution Complete Test completion report for PIT for SIT Start Data augmentation load into BU-UK for SIT Start Data augmentation load into SSEN for SIT UAT testing of Sprint 4 and 5 code in preparation for PIT for SIT & SIT Functional Continue working DIs into MP RS design Completion of the review and agreement of the SIT Test Cases/Scenarios Commence UAT testing of Sprint 6 code
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Party Milestones & Deliverables	Original or Baseline Date	Forecast date & RAG
MPRS ready for start of CIT interval 2	06-11-23	09-11-23
MPRS ready for start of CIT interval 6	22-01-24	22-01-24
MPRS ready for start of functional SIT	14-02-24	14-02-24

Risk or Issue & RAG	Mitigating or resolving action required	Date to be resolved	Action owner
STC111 – ISSUE - The significant overrun of CIT interval 2 testing impacting subsequent test phases	The programme has reduced the scope of CIT tests, but this does not address the time lost which has been 'borrowed' from future test phases (CIT interval 6/functional SIT). Whilst Parties are looking at how they can accommodate such increasing Programme demands, the Programme must consider the parties having to commit significantly more time than planned and its impact on future programme milestones.	31/01/2023	Programme
STCR18 - The programme plan is challenging and SCS has been consistent in its feedback to the programme. There is insufficient time to complete the testing of all functionality to the normal SCS quality standards to meet the entry points for CIT and FSIT.	St Clements is focused on delivering the functionality that is required, for when it is required by concentrating on the testing required to meet the programme timelines. 'Full' testing will be completed later in the programme	Q1 2024	St Clements
STCR14 - BAU issues divert resource from MHHS programme (such as FS changes)	Ongoing Faster Switching issues diverting resource from MHHS activities to resolving BAU issues. Forced to tolerate and manage. The Programme to recognise that BAU may be higher priority than MHHS	Ongoing	St Clements
STCR15 - There is a risk that programme governance / engagement diverts resource from delivery activities	Restricting SCS participation in programme meetings will help to mitigate. We will look to meet programme assurance/documentation requirements but the programme to consider minimum required. SCS focus is on MP RS delivery	Ongoing	St Clements
STCR53 - If CIT interval 6 completes after 9/02/2024 there may be insufficient time to load the augmented data ready for the start of FSIT	9/2 has been suggested as a hard stop for CIT Interval 6 by the programme but we are awaiting confirmation of this. Data cannot be loaded until CIT completes	31/01/2024 NEW	Programme
STCR23 – With Programme artefacts being delivered late there is a risk that there is insufficient time to review/develop MP RS without impacting delivery timescales	Programme to consider staggering delivery of Programme artefacts requiring review. Artefacts need to be delivered on time with sufficient time allowed to review. For example, with the late delivery of SIT test cases, the MP RS team does not have the capacity to dedicate time to review activity without impacting delivery and testing activities	Q1 2024	Programme
STCR35 - No registration service reports defined within the MHHS design and changes/new reports will be required	Information on existing MP RS mandatory reports provided to Elexon/Ofgem. Any MP RS report development required can only take place after the migration code has been delivered if MP RS delivery into programme test phases is to be unaffected	31 January 2024	Programme
STCR45 - With the functional SIT testing requirements so far undefined there is a risk that there is a misalignment between programme and St Clements expectations	The programme has not provided any guidance as to the experience to be expected for executing FSIT. Suitable levels of resource may not be available to support FSIT.	15 January 2024	Programme
STCR52 - Weekly Release Requirement for FSIT detracts resource from other DBT activities	Programme would like defects fixed in weekly releases. This may have an impact on Migration development	31 January 2024 NEW	Programme
Assumption & RAG	Action required to remove assumption	Date to be resolved	Action Owner
MP RS high level plan broadly remains the same following detailed IA	Detailed IAs for later sprints (including migration) to be completed	Through to last sprint	SCS
Scope of MP RS development does not extend	Scope change (eg data cut/data cleanse/CRs) to impact milestones. Consider delaying when functionality is required for testing	28 February 2024	Programme
Governance/assurance does not impact MP RS delivery activities	Light touch and targeted approach	Q1 2024	Programme
Dependency & RAG	Managing action required	Date to be resolved	Action Owner
Dependency on Programme to confirm decisions on above	Prompt responses and decisions required	ASAP	Programme



RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers
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Status & Outlook

Progress last month:

- REC**
- R0044 Systems Integrated testing completed
 - R0093 – discussions with RECCo on vehicle for actual uplift of capacity outside of R0093
- SEC**
- MP162 (MDR Role) 8 parties running through UEPT with 1 complete. On-track for completion ahead of SIT FT start 11/03
- Capacity**
- MHHS Capacity uplift commercial negotiations are in progress to ensure value for money capability is provided.
- New Requirements**
- Planning activities to underpin support for SIT starting in March completed & tracking to baseline plan.
 - DCC Costs for New Requirements to support E2E SIT approved at Dec23 Board.
 - Test Data & Evidence Requirements confirmed & included in commercial arrangements with suppliers. Continue to work with the programme to rationalize & reduce these where applicable
 - Comms Plan & Webpage content shared with MHHSP & working-level contacts made to jointly plan updates
 - Service Management Strategy reviewed & feedback provided

Progress expected in the coming month:

- REC - Complete R0044 SIT testing, R0093 to be discussed
- SEC - Initiate MP162 UIT testing
- Capacity – Planning due to complete Jan 24, to support 2024 delivery of uplift
- R0093 re-planning
- E2E SIT Test Data Uploaded
- DCC SIT Test Support Teams stood up in readiness for 11/03 SIT FT Start

Party Milestones & Deliverables	Original or Baseline Date	Forecast date & RAG
Ofgem approval	25-10-22	28-11-22
MHHS SIT Start	11-03-24	11-03-24
MP162 Go-LIVE	27-06-24	27-06-24
R0044	27-06-24	27-06-24
Capacity Uplift	June 24/25	June 24/25
R0093	2025	April 2025

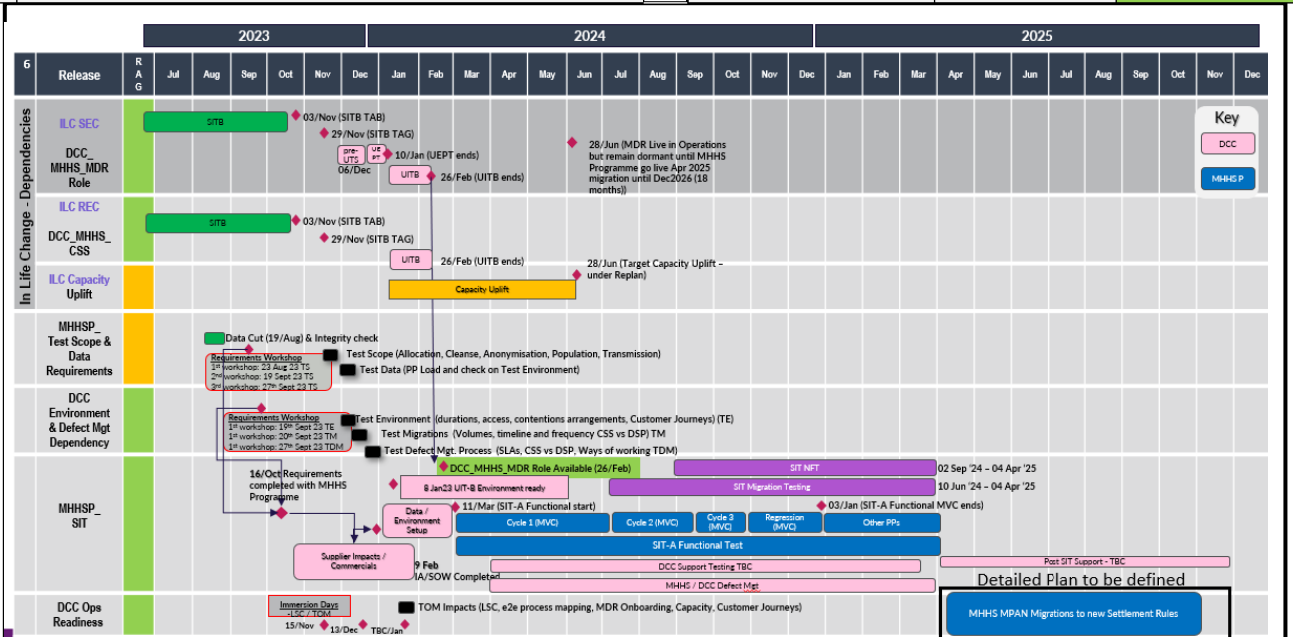
Decisions required	From whom?	By when?
None	n/a	n/a

Top Risks and or Issues (See detail on page 2)

R0093 (CR4990) – agreement with RECCO to workup new change for actual capacity uplift

Assumption & RAG	Action required to remove assumption	Date for action to be resolved	Action Owner
Tests to Meters will start in SIT Cycle 2	Confirmed via Bilat call		

Dependency & RAG	Managing action required	Date for action to be resolved	Action Owner
Clarification on proposed changes to SIT Functional Test Cases & Scenarios, following deep dive sessions	Ongoing review with MHHSP Test Tam, as updates to Scenarios & Cases continue. Theme 8 (Settlement) subject of focus regarding evidence requirements from DSP.	31 Jan '24	MHHSP



Change requests supporting MHHS	Descriptions	Completion date	Action owner	Status
IN PROGRESS: PR7806 (DSP), PR7822, (CSS) (MHHS Test Data Upload)	Define and set up SIT data for CSS & DSP as well as MPANs for meter sets in end-to-end testing with DSP	Jan '24	DCC/Service Providers	7806 SoW Signed, PO Requested 7822 PO Raised
IN PROGRESS: PR7809 SIT Support (DCC as Participant) (Combined with PR7772)	Provision of support for SIT Testing to provide required evidence of DSP/CSS participation, support E2E SIT Defect Management, & support meters used in DCC testing	2024/2025	DCC/Service Providers	Open – in final version SoW
IN PROGRESS: PR7771 (For Data Cleanse)	Support the Data Cleansing requirements as specified by Elexon to support the Migration activities planned for 2025	2024/2025	DCC/Service Providers/MHHSP	SoW's signed, PO's in Progress
IN PROGRESS: PR7760 (MHHS Programme Engagement)	To address the definition of the new requirements for DCC Service Providers to allow them to estimate the duration/costs to support – UPDATED with Support Requirements for ongoing programme delivery	Dec '23	DCC/Service Providers	All PO's Raised
IN PROGRESS: CR4813 (DCC CR that supports the SEC Modification MP162)	Creation of the new MDR role within the DSP systems and progressed by DCC and its Service Providers through Design, Design Assurance, Build, PIT, DCC SIT, User End Processing Testing (UEPT) and Testing Participant User Integration testing	09/02/24	DCC/Service Providers	Complete – full commercial cover agreed
IN PROGRESS: R0044 (CSS to DSP Interface changes)	Updating of existing interface with additional MDR data fields to support the new role and allow agent appointments to be made and support the change of supplier/agent Industry process. This will be testing across SIT/UIT.	09/02/24	DCC/Service Providers	Complete – full commercial cover agreed
IN PROGRESS: CR4879/CR5815 (Capacity)	Infrastructure and Capacity uplift to support the increased network traffic modelled to allow the MDR Service Requests to be processed within SLA and ensure the Service to End Users is maintained	2024/2025	DCC/Service Providers	Open
IN PROGRESS: R0097 (Consequential change for CSS MDR appointments)	ERDS change asking them to make changes at their end to be ready to use the new 'tick box' when they want a message confirmation.	2025	RECCo	Closed – Incorporated in R0044
IN PROGRESS: R0093 (Uplift to CSS Max demand volumes during MHHS migration period)	Ensuring there is sufficient capacity across the CSS systems to support the increase in Service Requests pertaining to the new MDR role. Currently with RECCo for final clarification of scope.	2025	RECCo	Open

Change requests supporting MHHS	Descriptions	Completion date	Action owner	Status
PRxxxx DSP Migration Capacity	Any additional capacity required to cope with peak-of-peak migration threshold	Jan '24	DCC/Service Providers	To Be Raised
PRxxxx DCC Operational Support for Migration	Potential Hypercare during early phase (c. 3 months) of migration to ensure success	Jan '24	DCC/Service Providers	To Be Raised

COMPLETED: PR7742 (DCC PR that supports the Data Backup requirement)	Data backup and retention of both CSS (Faster Switching) and DSP (SMETS) data to support the Elexon SIT Functional testing stage	19/08/23	DCC/Service Providers	Complete
COMPLETED: PR7788 (MHHS SIT Preparation – CSS-DSP Connectivity)	Work required to re-configure both CSS and DSP components in UIT-B to connect to each other rather than the simulators.	Dec '23	DCC/Service Providers	Complete

DCC – MHHS Top Risks

Core Capability Provider
DCC

Ref.	Risk	Probability	Mitigation	Owner	Area
1	There is contention in the use of DCC UIT-B Test Environment for MHHS Programme Testing.	Low	Segregate MHHS Programme testing from other UIT-B testing through allocation of MPANs Relevant MPANs for exclusion provided to MHHSP	DCC	Environment
2	'Peak-of-peak' migration volume occurs when DCC hypercare has been stood down.	Low	Request the MHHS Programme to attempt to include a 'peak-of-peak' migration day during the 3 months of hypercare. Will be addressed with Elexon Migration Delivery Manager	MHHS Programme	Migrations
3	The current peak-of-peak migration thresholds defined in the Migration Thresholds document assume a peak-of-peak of 300K CoAs per day above "business as usual" (BAU) volumes. BAU volumes today may not reflect BAU volumes between April 2025 and October 2026 as we can anticipate MHHS to stimulate higher levels of switching as Suppliers offer new MHHS products and services.	Medium	CSS and DSP should be sized for a peak-of-peak CoA volume of 300K plus 291K (the original CSS peak-of-peak volume) to allow for growth in switching rates.	DCC	Migrations / Capacity
4	The changes required in CSS and/or DSP to achieve a peak-of-peak CoA volume of 591K may not be cost effective and/or technically feasible.	Medium	Include performance testing within the PRs raised with CGI and Landmark & Netcompany to confirm compliance with these volumes and make DCC commitment to associated SLAs contingent on successful completion of this testing.	DCC	Migrations / Capacity
5	MPANs chosen for SIT Migration Testing are not included in the PR7822 load of 10,000 MPANs, resulting in the need to perform another DSP test data load and, thus, incurring additional cost to the industry	Low	Data Loading exercise will be repeated for Migration Testing & plans reflect activity	MHHS Programme	SIT Migr Testing
6	Level of change in MHHS Test Artefacts remains high and review time is very short	Medium	Any outstanding issues with Test Scenarios will be addressed during SIT Functional Testing	MHHS Programme	Test Team
7	SIT Functional Test scripts (and underlying BP004) does not reflect smart meter operation resulting in delayed tests	High	Session with MHHS Test and Design Teams to explain smart meter operation (held). MHHS Design/Test team to redraft tests	MHHS Programme	Test Team
8	As the SIT FT schedule is still to be finalised, DCC will resource its Test Support on the basis of assumptions to ensure that sufficient resources are assigned to run & evidence tests involving DCC. There is therefore a risk that this may be over-resourced.	Medium	Continue to work with MHHSP Test Team to refine assumptions, and put in place commercial arrangements which allow the level of resource to be reduced if required.	DCC	Test Support
9	Any changes which materially impact the Capacity Assumptions that form the basis of DCC's MHHS Capacity increases may not be able to be met, due to the time required to deliver capacity increases	Medium	Assumptions have been shared with Programme & will be shared with suppliers via bi-lateral meetings, led by DCC. Once complete, any changes will be under change control.	DCC/MHHS Programme	Capacity

RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers
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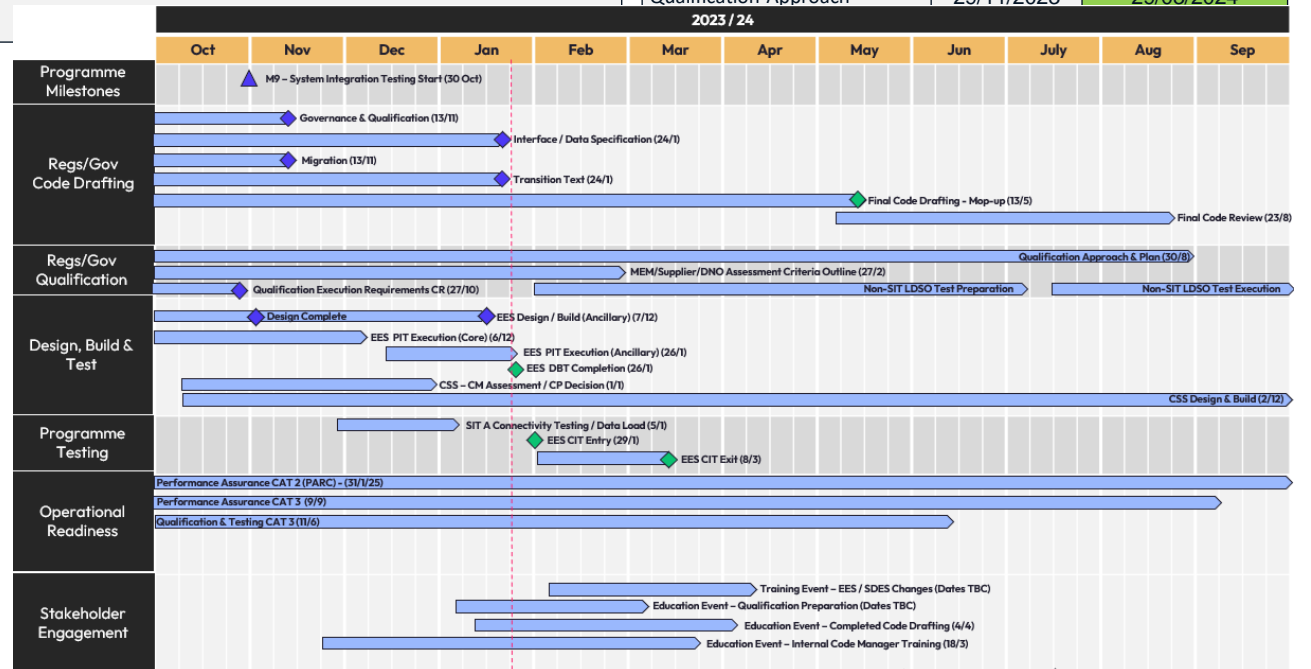
Status & Outlook	<p>Progress last month:</p> <ul style="list-style-type: none"> EES core build and test complete SIT CIT Completed successfully. QA&P (jointly developed with Elexon) on track for industry consultation on 31 Jan. Non-SIT Supplier and Agent Pre-Qualification Submission Template (jointly developed with Elexon) reviewed with QWG in Jan, and on track for publication on 5 Feb. Continuing to support development of Non-SIT LDSO Testing Approach and Plan (led by Programme) for industry consultation on 31 Jan and reviewing Non-SIT LDSO Placing Reliance submissions (with Programme and Elexon). Code Drafting Tranche 4 (Transition and Interface) approved by CCAG on 23 Jan.
	<p>Progress expected in the coming month:</p> <ul style="list-style-type: none"> Complete preparation for SIT Functional, including data load. Complete testing of ESS ancillary changes Code Drafting Mop Up 2 industry consultation on track for publication on 19 Feb. Publish QAD (jointly developed with Elexon) for industry consultation and continue to support Elexon on development of its Non-SIT Supplier and Agent Testing Approach and Plan for industry consultation.

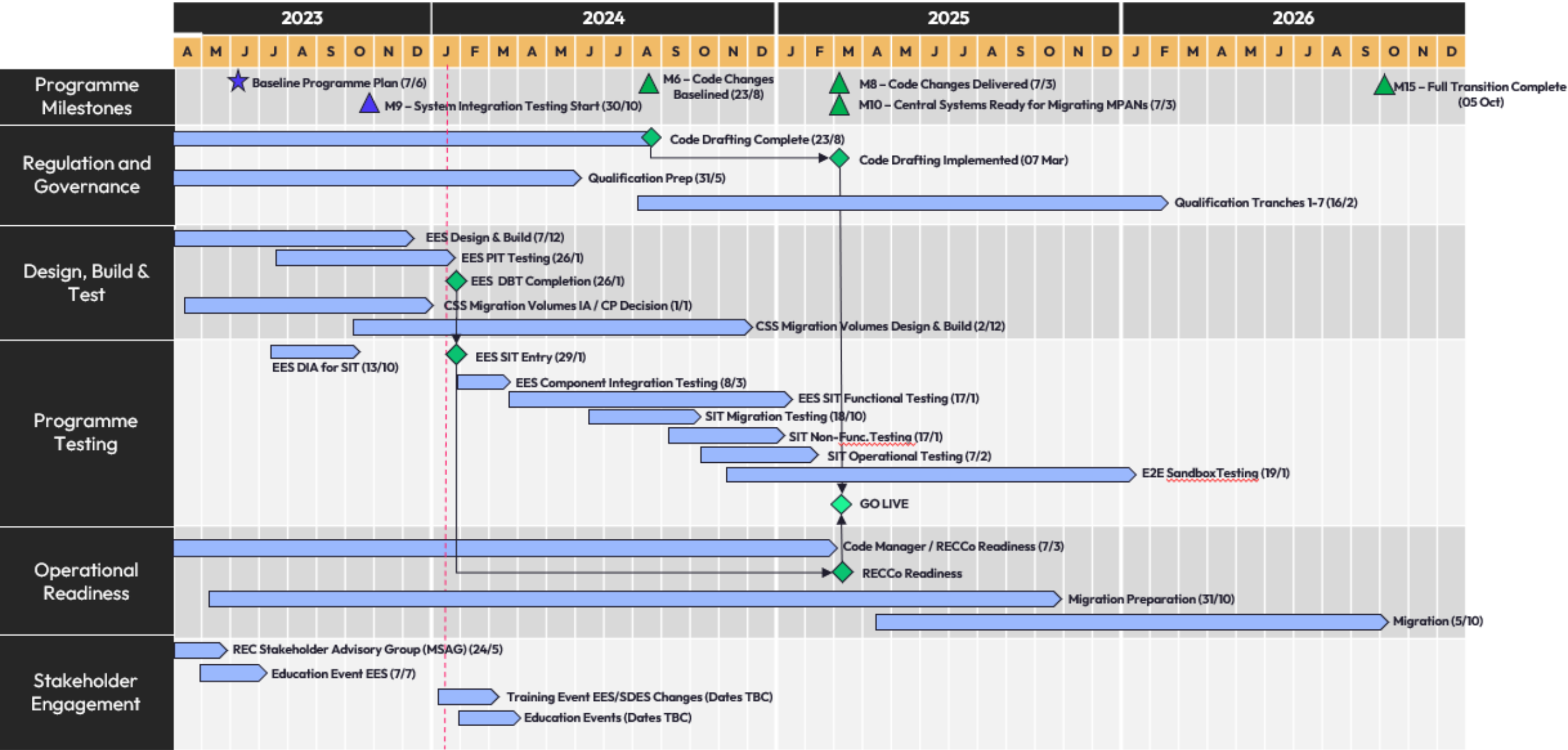
Party Milestones & Deliverables	Original or Baseline Date	Forecast date & RAG
Interface / Data Spec Code Drafting	24/1/2024	Complete
Transition Text Code Drafting	24/1/2024	Complete
EES PIT Completion Report submitted to MHSP	09/02/2024	09/02/2024
CIT Execution (Interval 6) Complete	09/02/2024	09/02/2024
SIT Functional Testing Start	11/03/2024	11/03/2024
Qualification Assessment Doc v 0.1 published	29/11/2023	29/03/2024
Qualification Approach	29/11/2023	29/03/2024

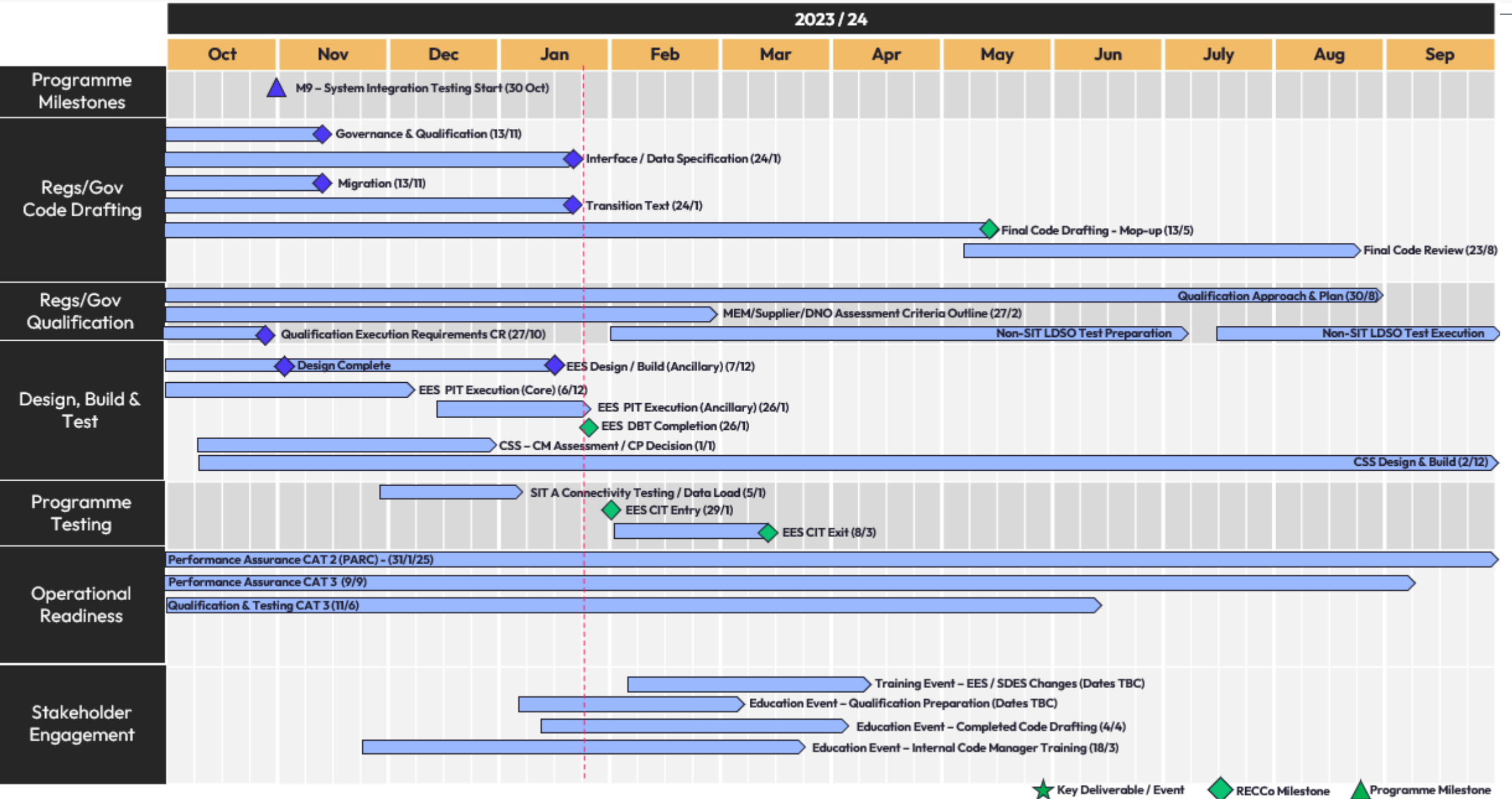
None

Risk or Issue & RAG	Mitigating or resolving action required	Date for action to be resolved	Action owner
Programme does not provide expected / required UIT environment to support Qualification Testing	Ongoing discussion with Programme and Elexon to confirm provision of test environment and test data to support Qualification.	Feb'24	Andrew Wallace

Dependency & RAG	Managing action required	Date for action to be resolved	Action Owner
Programme SIT Artefacts for provision of equivalent Qualification documents, providing clarity on roles & responsibilities and confirming any additional qualification requirements that Code Bodies need to undertake for SIT parties.	Programme recently pushed back date for finalising SIT Functional Test Scenarios/Cases. RECCo requesting early sight of these and RTTM. Documenting risk for Qualification if further delays including SIT Migration, NF and Operational.	Feb'24	Andrew Wallace







RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers
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Status & Outlook	<p>Progress last month: Overall (CIT): continued to support onboarding and progress of CIT testing for all intervals with defect triage and remediation as required</p> <p>SIT Support & Change Backlog •Supporting Market Participants via surgery calls or 1:1 sessions •Releases into SIT (weekly) to address open defects from CIT •Initial deployment into PIT with the changes for IR5 and agreed scope of secondary routing interfaces for Functional SIT Cycle 1 •Finalized Test creation and commenced execution of PIT testing (Cycle 0) of build for Functional SIT Cycle 1 •Started development of the 'One to Many' user profile changes •Completed draft of information Security Management System (ISMS) plan for ISO certification</p>	<p>Progress expected in the coming month:</p> <p>Overall (CIT): continue to support onboarding and progress of remaining testing within CIT. PIT testing to be completed and build delivered ahead of Functional SIT.</p> <p>SIT Support & Change Backlog •CIT Support via surgery calls or 1:1 sessions, as needed •Further weekly releases into SIT where necessary with defect fixes •Review programme CRs against interim release effort estimates •Complete work on implementing user profile change •Complete development of in scope dynamic reporting requirements •Finish development of agreed items on MPAN v0.9 for look up and update channels to be ready for the start of Functional SIT •Further deployment of IR5 scope items into PIT •Completion of PIT per exit criteria for Functional SIT •Progress defect work items for IR5 in line with plan •Release into SIT environment for the start of Functional SIT •Review latest Programme volumetrics and impact on NFRs</p>
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Party Milestones & Deliverables	Original or Baseline Date	Forecast date & RAG
DIP 4b – Final build (Provisional)	01/03/24	09/02/24
Functional SIT Start	11/03/24	11/03/24
DIP 5 – Migration / Transition	20/09/24	21/02/25
DIP 6 – Hypercare	20/09/24	21/03/25

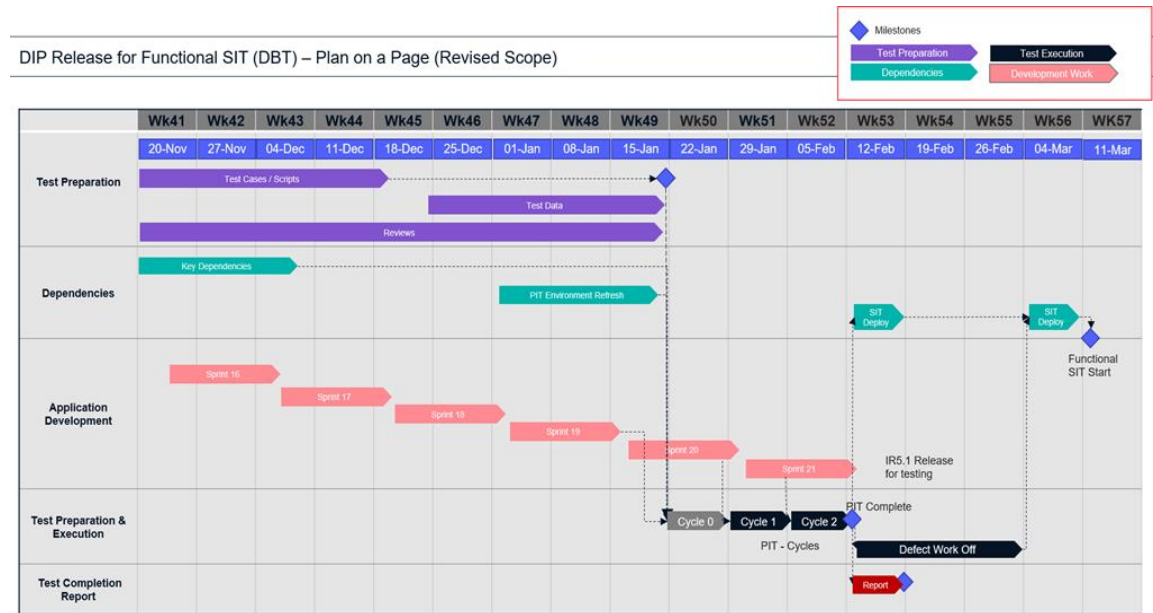
Decisions required	From whom?	By when?
None	n/a	n/a

Risk or Issue & RAG	Mitigating or resolving action required	Resolution Date	Action owner
CIT support delays in defect triage impacting test progress	<ul style="list-style-type: none"> •Monitor L1 process (ongoing) •Feedback to programme SI test team on process gaps & Monitor performance moving forward •Ensure reporting reflects actual obligation 	23/02/2024	Richard Gwatkin (Paul Daniels)
MPAN Addressing – further iterations of requirements impacting solution scope and delivery plan for Functional SIT	<ul style="list-style-type: none"> •Scope reviewed with SRO team •Approach to testing secondary routing under discussion •Clarifications being raised with SRO via ADO •Timely responses and actions 	09/02/2024	Richard Gwatkin (Paul Daniels)

Assumption & RAG	Action required to remove assumption	Date for action to be resolved	Action Owner
Data Load Required for Functional SIT – no load required as industry flows will be used to 'seed' the DIP	<ul style="list-style-type: none"> •Established that data load is required - detail expected 29.01 •Review data once shared 	02/02/2024	Richard Gwatkin (Paul Daniels)

Dependency & RAG	Managing action required	Date for action to be resolved	Action Owner
Industry-led, Elexon facilitated			

DIP Release for Functional SIT (DBT) – Plan on a Page (Revised Scope)

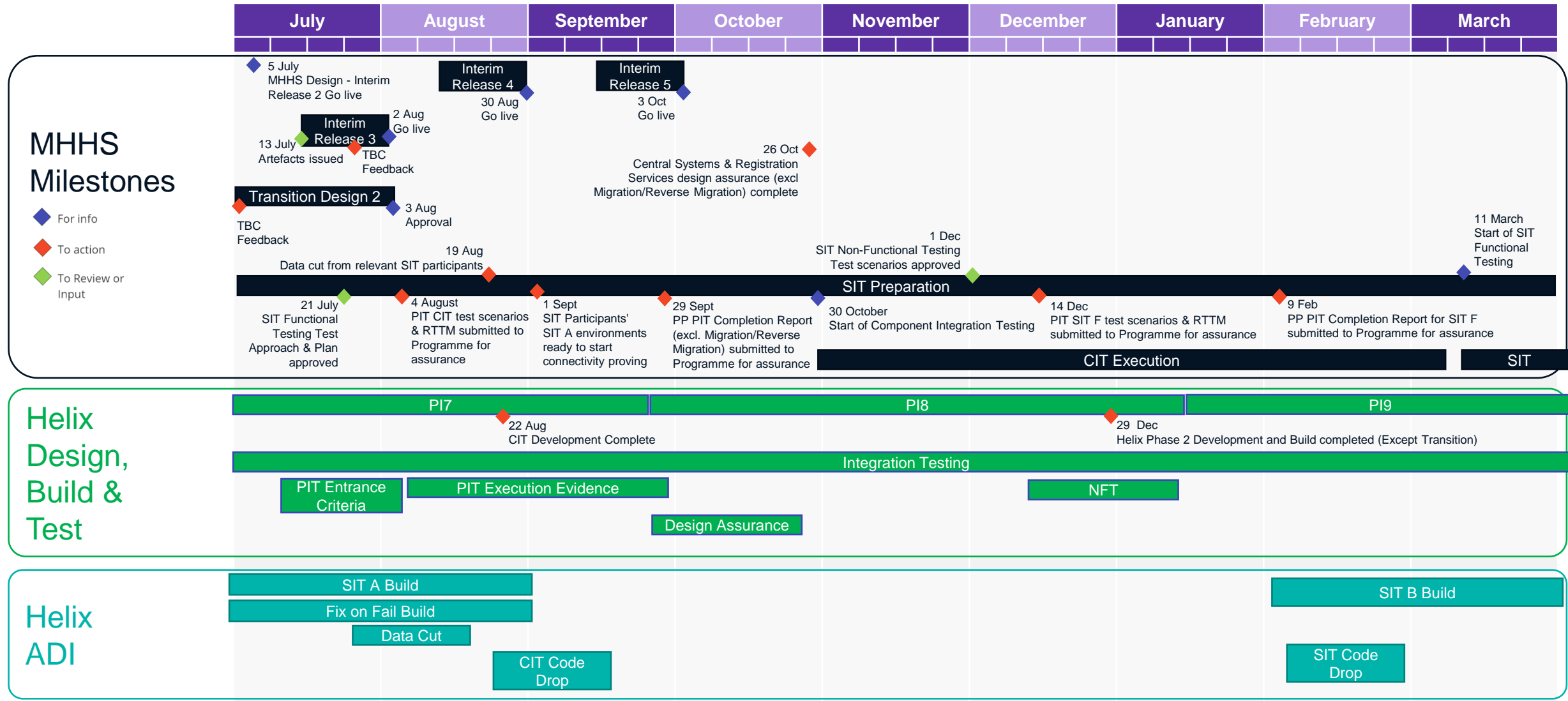


RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers
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Status & Outlook	<p>Progress last month:</p> <ul style="list-style-type: none"> Helix CIT is complete with all scenarios successfully tested. Release 8.6 for SIT Functional has passed smoke testing and is not in internal PIT test due to complete 8th Feb. PI9 Planning completed 11/12th January with objectives and delivery plans agreed. Significant progress on re-structure of technical testing approach for PAF and resourcing strategy. Service Workstream, organisation structure, high level plan and budget drafted. Resourcing of key positions has begun. End to end budget review completed to inform Transcom process in February. 	<p>Progress expected in the coming month:</p> <ul style="list-style-type: none"> Transcom review of overall Helix budget 6th February. Completion of PIT test of 8.6 Code build in readiness for SIT Functional in March. Outline approach for end-to-end testing and go live preparation. Documentation and presentation of testing approach to meet Qualification requirements. Initial plan for transition of MHHS and overall approach for migration to be prepared. Further planning of changes to existing Elexon systems to be reviewed with key suppliers and aligned to overall Helix delivery plan.
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Party Milestones & Deliverables	Plan Date	Forecast date & RAG
Delivery phase ends (DBT End) – for CIT IR2	29/09/23	Complete
Industry phase starts (CIT Starts)	30/10/23	Complete
Helix Test Plan provided to MHHS for review	08/12/23	Complete
Code drop for SIT based on IR5.2.(Release 5.8)	22/12/23	Complete
Complete integration test of Release 8.6 ahead of SIT preparation	10/01/24	Complete
PIT completion report of SIT	9/02/24	In Progress
Target Release of 8.6 to SIT functional environment.	13/02/24	Not started
Target second code release for SIT (with additional functionality)	TBC	Not started
SIT functional phase1 ends	30/05/24	Not started
Release for SIT functional phase 2 deployed	01/07/24	Not started

RAID and RAG	Type	Mitigating or resolving action required	Date to be resolved/ updated
If further changes impact on the scope of Helix, they may impact on SIT preparation and will drive further cost into the programme.	Risk	Recognition that Helix has a materially complete code base with due consideration given to avoidance of refactoring of this code base within future change requests. Reduced the severity of this risk due to the change freeze being introduced by MHHS.	Ongoing
Interface changes released in IR 5.1 and 5.2 has caused some items to slip from PI8 and this will require a later release to SIT Functional.	Issue	The interface changes released in IR 5.1 and 5.2 have increased the amount of work required from Helix, some functionality has been moved out of PI8 to accommodate this and will not be available for the start of SIT functional. A formal acknowledgement of this is being discussed.	5/1/24
If the transition plans for go-live of Helix and transition of MHHS are not advanced urgently there is a risk that this phase will not run smoothly.	Risk	Additional leadership roles added to Helix team. First draft of Transition plan to be prepared in January 2024, with support from MHHS Transition Lead.	31/1/24
There is a risk that all aspects of PAF and Qualification readiness are not completed to plan.	Risk	Resource augmentation by KPMG in place for overall Qualification process. On-boarding of specialised HH testing team to be progressed in January 2024.	31/1/24



RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers
Status Update	<p>ElectraLink updates for February PSG:</p> <ul style="list-style-type: none"> The MHHS programme has identified the need for a set of data flow changes and additions for SIT. These were delivered this month. Continued collaboration with MHHS Programme and teams engaged via participating in working groups such as SITWG, FITG, S&T, DAG, DWG and fortnightly sessions with the programme and Webinars. 						<p>Milestones and Deliverables:</p> <ul style="list-style-type: none"> The updated DTC was delivered in January 	

Decisions required	From whom?	By when?

RAID	Mitigating or resolving action required	Date for action to be resolved	Action owner
Assumption: TR03 will be used by all SIT customers for testing on the DTN and no further communication is needed to SIT customer from ElectraLink	This has been confirmed by the Programme. Programme to determine if formal communication is required from ElectraLink	-	Elexon/ElectraLink

Dependencies	Managing action required	Date for action to be resolved	Action Owner

RAGs	Overall	Approach	Plan	Resources	Budget	Risk
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Status & Outlook	<p>Activities reported as progressed in January:-</p> <p>SSEN (as MVC for SIT)</p> <ul style="list-style-type: none"> PIT Test Completion Reports for CIT submitted for Networks Ops & UMSO. Successfully SENT messages to the DIP via the EL Adapter. Ongoing issues with RECEIPT of messages from the DIP. Issue is with Avanade to resolve. ADQM & LOCUS for CIT releases successfully installed. Continuing bi-laterals with other DNO's re Placing Reliance Progress use of MPRS API code in ADQM development for SIT Functional <p>General DNO Comments</p> <ul style="list-style-type: none"> Detailed design and build of impacted systems. Planning Testing activities (subject to revised Qualification timelines). Continuing MPRS and Oracle 19c upgrade activities (required for Rel. 9). Responded to any general Programme Requests/ CRs/ notification of NFRs/ PPIRs (including Placing Reliance Questionnaire). Raised new CR040 re NFR E2E1009 on behalf of all DNOs and IDNOs. Attended various Programme meeting with MHHS, St-Clements, Adapter DNO forum. 	<p>Activities reported as expected to progress February:</p> <p>SSEN (as MVC for SIT)</p> <ul style="list-style-type: none"> Completed CIT Smoke Testing. Commence CIT Interval 5 CIT Testing. Reviewing Service Management Strategy. Responding to CR041 Continuing weekly bi-laterals with SI. Supporting other DNO's with their Placing Reliance policies. Connectivity proving completed successfully with DURABILL X.1 release. Producing PIT for SIT Functional documentation. <p>General DNO Comments</p> <ul style="list-style-type: none"> Detailed design and build of impacted UKPN systems. Planning Testing activities (subject to revised Qualification timelines). Continuing MPRS and Oracle 19c upgrade activities (required for Rel. 9). Respond to any general Programme Requests/ CRs/ notification of NFRs/ PPIRs. CR036 (UTC v Clock Time) implementation date still to be agreed (we note the Large Suppliers have submitted an appeal).
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Decisions to be made by DNOs	Impact of no decision	Decision by when?
DNO sign off on C&C use of MPRS API code for ADQM API delivery. ADQM = Network Ops solution	Slow down delivery of ADQM for SIT Functional. Could impede delivery of SIT Functional testing	12/02/24
Placing Reliance Approach	Failure to qualify – Not able to submit the placing reliance in time for code manager.	Jan 2024

Decisions required from the Programme	Impact of no decision	Decision by when?
Confirmation of CR's and Outstanding Design Decisions (DIN Log).	Delay to DBT and unable to achieve R3 SIT dates. Potential delay to DBT of UKPN internal downstream systems.	ASAP
Industry/ Business rules for handling IF19 & 20 association management.	Unable to proceed with design and build of an appropriate solution.	ASAP
Clarity of scope for Non-SIT LDSO and timelines and data requirements for Qualification testing.	Can not complete testing preparation.	ASAP.
Need clarity on involvement of 3rd party adapter services provider in performing SIT Non-Functional and Operational testing on behalf of DNOs.	Failure to qualify – unable to validate non-functional and operational requirements.	ASAP
Need decision on validation/ testing of DUoS Settlement process prior to the migration.	Accuracy of Billing/ settlement for LDSOs are not proven for the new settlement arrangements.	ASAP
Test data requirements for non-SIT LDSO Qualification Testing.	Failure to qualify – Data inconsistency between different applications and rejection of messages causing validation failures.	Q1 2024
Clarify expectation of DNO Service Desk for the Service Management of MHHS issues.	The support infrastructure to resolve MHHS related issues will not be available when the systems go-live.	Q1 2024

Escalations (priority items for attention and support from the Programme)	Action by when?
SIT Migration, Non-Functional & Operational testing requirements are yet to be fully detailed.	ASAP
Decisions on outstanding DIN Log items, CRs, Design Queries and Non-SIT LDSO and timelines and data requirements for Qualification - as above. IF19 & 20 association management (imports/ exports)	ASAP

Risks or Issues	Impacts	Opportunities to resolve and deliver as soon as possible
Late delivery of Network Operations Applications for SIT Functional (mid to late February).	Readiness for start of SIT Functional Cycle 1.	In negotiation with vendors ongoing.
The Reverse Migration Solution is too complex to enable Core Capability Providers to Achieve Testing & M10.	Migration phase is delayed.	N/A
Data Cleanse activities may take longer than expected timelines.	Failed migration and/ or extended timelines and/ or poor quality data	Question remains over whether import and export linkage is required (as per Elexon P459).
Clarity of scope for Non-SIT LDSO and timelines and data requirements for Qualification testing.	Can not complete testing preparation.	This has been escalated to the MHHS Programme.
Implementation date of CR036 not agreed amongst all parties.	SIT cases will fail if all parties not aligned.	Confirm outcome of Large Supplier Appeal and agree realistic implementation date.
Potential impacts on DNO budgets due to new change requests.	Require additional funding allocation.	Clarify scope (DBT, SIT, environment) and secure funding
Potential impact on DNO budgets dependant on Environment requirement and timescales.	Potential under-recording of DNO cost impacts in the Programme benefits	Require firm commitments on requirements for Environment requirements for Non-SIT LDSO testing.
Delayed delivery of the QAD (Qualification Assessment Document).	Not enough time for parties to provide response in preparation for QT.	Provide early visibility of the content of QAD in QWG.

DNO Key Milestones (in Round 3 plan)	Round 3 date & confidence level / RAG	Reasons for confidence levels
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For those intending to participate in Systems Integration Testing (SIT) - SSEN		
SIT (Functional) start	27-Feb-24 1 Medium confidence	<ul style="list-style-type: none"> SCS to carry out on behalf of SSEN for Registration Services. But challenge raised re Placing Reliance on Networks Operations & UMSO SIT Testing. To be resolved.
M10 - readiness to support migration start, including Registration Services. Network Operators and UMSOs	07-Mar-25 1 Medium confidence	<ul style="list-style-type: none"> Further outcomes of testing success required from SIT Functional before being 100% confident re migration testing. Proposed Migration volumes are still not proven by any empirical testing

For those intending to participate in non-SIT LDSO (qualification) testing		
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Non-SIT LDSOs testing start (Functional / Migration / NFT / Ops)	02-Jul-24 5 Medium confidence	<ul style="list-style-type: none"> Lack of detail regarding non-SIT LDSO Qualification Testing requirements and approach
M10 - readiness to support migration start, including Registration Services. Network Operators and UMSOs	07-Mar-25 5 Medium confidence	<ul style="list-style-type: none"> Lack of detail regarding non-SIT LDSO Qualification Testing requirements and approach

DNO Adaptor status		
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Decision to use an adaptor	Functional scope of adaptor agreed	Adaptor procurement completed
Yes 6	Wider 6	6 Complete

RAGs	Overall	Approach	Plan	Resources	Budget	Risk
Status & Outlook	Activities reported as progressed in January: <ul style="list-style-type: none"> Progressed IDNO SIT CIT activity. Progressed IDNO SIT and Non-SIT Qualification requirements by liaising with Code Bodies and the Programme. Monitored progress of LDSO DINs and CRs and responded where appropriate. Continued Data Preparation requirements activity. Progressed Placing Reliance Statements. Further progressed changes to DTN Gatekeeper systems. Reviewed and submitted responses to the MHHS Service Management Strategy Consultation. Reviewed SIT Functional Test Scenarios. Engaged with the Programme re: LLF ID/DUoS Tariff ID mapping. 		Activities reported as expected to progress in February: <ul style="list-style-type: none"> Ongoing preparation for SITF readiness, including activity with DTN Gatekeeper environment. Continued review of draft Code changes. Continued monitoring of LDSO DINs progress and review CRs. Continue to undertake data cleanse and preparation requirements. Continue to identify Programme impacts to current BAU processes. Update internal Project Plans with latest Programme knowledge. 		IDNO Key Milestones (in Round 3 plan)	
	Decisions to be made by IDNOs		Impacts of no decision		Decision by when?	
	Decisions required from the programme		Impact of no decision		Decision by when?	
	Qualification requirements are still to be fully confirmed by Programme and Code Bodies, including QAD submission dates.		Unknown testing requirements and timescales for completion of stages.		QWG Sessions in February should provide clarity.	
Escalations (priority items for attention and support from the programme)						Action by when?
Risks or Issues		Impacts	Opportunities to resolve and deliver as soon as possible			
There is a risk that Programme decisions/design assurance may not be robust enough. Eg. For Avacade to not deliver secondary routing for CIT.		Additional resource requirements and delays in SIT progress could impact Programme delivery.	Thorough and robust decision making and design assurance.			
There is a risk that Qualification requirements might challenge delivery.		Additional qualification requirements may threaten other areas of delivery.	Code Bodies fully identify what requirements there are for Qualification/Qualification Testing.			
Continued changes to Design		IDNOs unable to complete enduring build and testing.	Continued engagement with Programme to determine design. Change freeze might help.			
Based on recent data augmentation activity taking longer than the Programme anticipated, there is a risk that future such activity might impact Programme delivery timelines.		This could impact achieving subsequent testing and general Programme milestones.	Consider future data augmentation activities and attempt to assess the time required to undertake the activity. Potentially, begin the activity sooner, if necessary.			
Secondary Routing issues in CIT to be managed and tested by programme before start of SIT Functional.		Potential delay to SIT Functional if testing does not go to plan.	Programme to test in window between end of CIT and start of SIT Functional. This is a fairly small window if issues arise.			
Service Management Review potential requirement for LDSO Service Desk – review document not 100% clear and could be interpreted in different ways.		Potential additional expense if LDSOs are required to provide individual service desks post MHHS go live.	LDSO session with the SI team to clarify, and await consultation results.			
Ongoing issues with CIT Intervals – programme still pushing ahead despite previous stages not complete		Knock on effect to further CIT intervals and testing.	All parties working to resolve issues. Programme taking a 'party ready' view, so PPs ready to enter CIT don't have to wait till their specific interval.			
For those intending to participate in Systems Integration Testing (SIT)			Reasons for confidence levels			
M9 - SIT CIT start		30-Oct-23 <input type="checkbox"/> High confidence <input type="checkbox"/> Medium confidence <input type="checkbox"/> Low confidence	Progress for M9 is positive.			
SIT (Functional) start		11-March-24 <input type="checkbox"/> High confidence <input type="checkbox"/> Medium confidence <input type="checkbox"/> Low confidence	We are currently on track to commence SITF on 11th March.			
M10 - readiness to support migration start, including Registration Services. Network Operators and UMSOs		07-Mar-25 <input type="checkbox"/> High confidence <input type="checkbox"/> Medium confidence <input type="checkbox"/> Low confidence	Progress for M10 looks positive. However, this is still a fair way away, with multiple challenges between now and then.			
For those intending to participate in non-SIT LDSO (qualification) testing						
Non-SIT LDSOs testing start (Functional / Migration / NFT / Ops)		02-Jul-24 <input type="checkbox"/> High confidence <input type="checkbox"/> Medium confidence <input type="checkbox"/> Low confidence	Expecting potential delays (1 IDNO)			
M10 - readiness to support migration start, including Registration Services. Network Operators and UMSOs		07-Mar-25 <input type="checkbox"/> High confidence <input type="checkbox"/> Medium confidence <input type="checkbox"/> Low confidence	Expecting potential delays (1 IDNO)			
IDNO Adaptor status						
Decision to use an adaptor		Functional scope of adaptor agreed		Adaptor procurement completed		
Yes [3]		No [0]		MPRS only [0] Wider [2] [2]		

Overarching Costs for MHHS Central Parties FY 23/24

Financial Measure	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Totals (£m)*
	£m	£m	£m	£m	£m	£m	£m	£m	£m	£m	£m	£m	
MHHS Budget	1.39	1.60	1.61	1.70	1.51	1.56	1.55	1.47	2.01	2.10	1.95	3.60**	22.05
MHHS Actual/Forecast	1.68	1.88	1.94	1.82	1.51	1.75	1.83	1.68	1.84	1.95	1.88	2.29	22.05
DCC Budget	1.20			2.50			2.50			3.80			10.00
DCC Act/Forecast***	0.15	0.70	0.24	0.46	0.64	1.43	1.14	0.30	0.92	1.70	0.86	1.34	9.86
Helix Budget	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	1.80	2.40	2.40	2.40	28.20
Helix Act/Forecast	1.89	2.18	2.29	2.02	2.28	2.20	2.36	2.60	1.98	2.60	2.60	2.60	27.60
RECCo Budget****	0.24	0.15	0.17	0.15	0.18	0.17	0.47	0.22	0.24	0.38	0.24	0.26	2.85
RECCo Act/Forecast	0.12	0.03	0.05	0.03	0.03	0.04	0.02	0.29	0.05	0.38	0.24	0.26	1.54
Total Budget	4.43	4.55	4.58	5.08	4.92	4.96	5.25	4.92	4.88	6.15	5.86	7.53	63.12
Total Act/Forecast	3.84	4.79	4.52	4.33	4.46	5.42	5.35	4.67	4.61	6.43	5.38	6.29	60.09

Please note:

- *Totals – totals are as provided by central parties. Please note rounding of individual months may result in the sum of individual months differing from the total provided by central parties
- **MHHS – includes contingency
- ***Note from DCC – figures amended from previous month to only reference costs incurred in this financial year
- ****RECCo – includes only 3rd party costs (does not include internal resources)

Central Party Finances – Colour Key
Actuals data

Workstream	Progress	Next steps		
		What	Owner	By When
Design	Design queries <ul style="list-style-type: none"> The volume of outstanding calls remains low. Average response time in December for closed tickets remains at approx. 1wd Interim Release have been reduced in cadence to align with testing releases, IR7 now 31-Jan-24 IR8 3-Apr-24 887 items recorded on the DIN log with >678 being deployed since the fast-track process started. 	Continue to answer queries and monitor levels, the nature of the call is moving to testing and data related queries	MHHS	Ongoing
	CR036 – Clock-time / UTC <ul style="list-style-type: none"> The assurance session was held on the 12-Jan-24 with a design updates approved by the SRO published as part of IR7 An appeal has been raised by the Large Suppliers that is currently with the IPA for decision 	Interim Release 7 was published 31-Jan-24	MHHS	31-Jan-24
Testing	Placing Reliance <ul style="list-style-type: none"> SIT volunteers – Placing Reliance Proposals, with SIT Functional addendums re-issued for Programme and Code Bodies review. Programme/Code Bodies Review 	Review ahead of SIT Functional	SIT volunteers	09-Feb-24
			MHHS	From 12-Feb-24
Testing	Testing documentation in progress/published in last month: <ul style="list-style-type: none"> SIT Functional Themes 6,7 and 9 achieved 17-Jan TMAG Approval SIT Functional Theme 8 completing Industry Reviews into Governance 	Feb SITWG Feb SITAG	MHHS MHHS	07-Feb-24 21-Feb-24
Testing	Test Data <ul style="list-style-type: none"> SIT Functional pairing finalised SIT Functional data sent to Participants 29th Jan 	SIT Functional Participants to start data integrity checks DCC to start augmenting data with Reg Id's St Clements to load data to MRPS	SIT PP's DCC St Clements	31-Jan-24 Ongoing 19-Feb-24
Sims & Ems	<ul style="list-style-type: none"> Successfully delivered IR5.3 uplift to DIP Simulator on 26th January as planned Progressed the scoping of the non-SIT LDSO test stubs, completed several review meetings around the requirements specification, and developed an initial plan and set of solutions CIT documentation completed 	<ul style="list-style-type: none"> Finalise scoping of non-SIT LDSO test stub and progress with the 'thin slice' delivery phase Delivery of IR7 uplift to DIP Simulator Delivery of IR5.4 uplift to DIP Simulator 	MHHS MHHS MHHS	Mar-24 Mar-24 Feb 24
Transition	The updated version of the Data Cleanse Plan was published for Industry consultation on 29 January.	The updated document will be brought to the MCAG for approval on 27 February.	MHHS	27-Feb-24
Transition	The consultation on the Service Management Strategy ended on Friday 26 January	An assurance meeting will be held on 9 February to ensure that all comments have been addressed before the document is brought to MCAG for approval on 27 February.	MHHS	9-Feb-24 27-Feb-24

FTIG meetings

- Focus on CIT progress and SIT Func readiness
- Recent key topics:
 - SIT Func cohorts
 - Defect release inc build version for SIT Func PIT
 - UMS testing assumption
 - DTS gateway
 - IPA test assurance
- Continued good engagement from CCPs and PPs
- Open & transparent discussion on the above topics both in FTIG and in associated bilaterals
- Maintaining a weekly cadence with ~70 attendees

MHHS Programme
 IPA
 Avande (DIP)
 British Gas / Centrica
 BUUK Infrastructure
 C&C Group Holdings
 Callisto
 Data Communications Company (DCCo)
 E (Gas and Electricity) Ltd
 EdF (metering services)
 E.ON Next Energy Limited
 E.ON UK Energy Solutions (metering services)
 Edgware Energy
 Electralink
 Elexon Central Systems (Helix)
 Energy Assets Ltd
 Ensek
 ESG
 IMServ
 Itron Metering Solutions (UK)
 Kraken Data Services
 Last Mile Electricity Ltd
 National Grid Electricity Distribution

National Grid ESO
 Npower Business Solutions
 Octopus
 Octopus Energy Services (metering services)
 OVO (metering services)
 Power Data Associates
 Rebel Energy
 RECCo
 SeaGlass
 SMS
 SSEN
 St Clements Services
 Stark
 TMA Data Management
 Tym Huckin Ltd
 Unify Energy
 Utilita
 Utiliteam
 Wheatley Solutions



Overall Status

- The Code Drafting Workstream is on track for M6 delivery in August 2024 and lower-level tier 3 milestones are all on track



January Summary

- Mop-Up 1 consultation closed on 02/01. Triaging and actioning of comments started
- Tranche 4 Interface/Data Specification and Transition Text to be sent to CDWG for recommendation before approval request escalated to January CCAG
- Send Mop-up 1 items for industry assurance review



February Deliverables

- Action any Mop-up 1 assurance comments
- Send Mop-up 2 consultation for industry review on 19 Feb

Mstn Ref	Drafting Milestones	Baseline date	Forecast date	Status
T2-RE-0100	Data Services approved at CCAG	24/05/23	24/05/23	Complete
T2-RE-0150	Metering Services approved at CCAG	24/05/23	24/05/23	Complete
T2-RE-0250	Registration approved at CCAG	23/08/23	23/08/23	Complete
T2-RE-0200	BSC Central Services approved at CCAG	27/09/23	27/09/23	Complete
T3-RE-0300	Governance, Migration and Qualification approved at CCAG	22/11/23	22/11/23	Complete
T3-RE-0350	Transition Text and Interfaces approved at CCAG	24/01/24	24/01/24	Complete
T3-RE-0500	Topic Area Mop Up approved at CCAG	22/05/24	22/05/24	Green
T3-RE-0500	Consequential Change approved at CCAG	22/05/24	22/05/24	Green
T3-RE-0550	Finalise and consistency check approved at CCAG	23/08/24	23/08/24	Green
T3-RE-0550	Code changes baselined (M6)	23/08/24	23/08/24	Green
T2-RE-0600	Smart Meters Act powers enabled (M7)	11/11/24	11/11/24	Green
T2-RE-0650	Code changes delivered (M8)	07/03/25	07/03/25	Green

Governance group updates

Programme Steering Group (PSG)

PSG 10 January 2024

- Change Freeze Update:** The criteria for assessing whether a Programme Change Request should be implemented despite the current Programme Change Freeze include:
 - Resolving defects in the MHHS Design
 - Resolving issues which may affect the ability of all participants, or a single class of participants from meeting M10 (central systems ready for migrating MPANs)
 - Where Ofgem direct the change is required
- Sponsor Update:** Ofgem are considering incentives for delivery of the Programme Plan and will present information to MHHS governance groups in due course. Discussion is underway with DESNZ to consider the impacts of MHHS on the retail market and how benefits can be realised.
- Qualification Testing:** Elexon provided updates on arrangements and timelines for Supplier and Agent QT, and the Programme provided updates on LDSP QT. See Headline Report for further information.
- IPA Updates:** The IPA are reviewing QT artefacts and working with the Programme to review risks to SIT Functional commencement.

PSG papers available [here](#).

Testing and Migration Advisory Group (TMAG)

TMAG 17 January 2024

- CR037 Decision:** The TMAG approved CR037 ([Migration Message Processing Choreography Update](#)) was approved for implementation. The updated MHHS Design will be included in Interim Release (IR) 8 on 03 April 2024 and will be deployed into SIT Non-Functional testing scheduled to commence on 02 September 2024.
- SIT Functional Test Scenarios and Test Cases:** Theme 8 (settlement and coverage gaps) were issued for review on 12 & 19 January 2024. The Programme will respond to all comments received ahead of the target approval date at the February 2024 SIT Advisory Group (SITAG).
- SIT Functional Test Scenarios and Test Cases (Themes 6,7,9):** Themes 6, 7, 8 were issued to participants for review on 15 December 2024 and replies provided to respondents. On 08 January 2024 the SITWG recommended approval. The TMAG approved themes 6, 7, 8.
- Additional Secondary Routing:** The Programme advised additional secondary routing testing would be conducted between CIT and SIT Functional, led by the Programme Testing Team. The DIP Simulator will be extended for this, and following successful completion, IR5.3 will be deployed.

TMAG papers available [here](#)

Design Advisory Group (DAG)

DAG 10 January 2024

- CR039 Impact Assessment:** CR039 ([Registration Service IF-40 Change](#)) was approved for issuance to IA subject to agreed amendments. Responses are due by 31 January 2024.
- CR040 Impact Assessment:** CR040 ([Change to NFR E2E1009 for DNO IDNO roles \(LD SO UM SO Registrations\)](#)) was approved for issuance to IA subject to agreed amendments. Responses are due by 24 January 2024.
- CR041 Impact Assessment:** CR041 ([Change the format of Market Participant Role Code from Char\(1\) to Char\(2\)](#)) was approved for issuance to IA subject to agreed amendments. Responses are due by 24 January 2024.
- Interim Releases:** The next design releases are IR7 on 31 January 2024 and IR8 on 03 April 2024. Subsequent release dates are TBC.
- CR036 Updates:** CR036 ([Use of Clock Midnight for Appointments and Reads](#)) was approved at the December 2023 DAG meeting and is scheduled for IR7 with implementation in SIT Functional Cycle 2 in June 2024. A Design Resolution Group (DRG) was held 12 January 2024 to refine the redlining of the change that will be released in IR7.

DAG papers available [here](#)

Cross Code Advisory Group (CCAG)

CCAG 23 January 2024

- CDWG Escalations:** The CCAG approved the Transitional Text and Interfaces code drafting following a recommendation from the CDWG. It was confirmed that any changes to the approved text as a result of new Programme Change Requests (CRs) or Design Issue Notifications (DINs) which progress despite the Programme change freeze would be reviewed and approved as part of the 'Topic Area Mop-Up' code drafting tranche.
- Consequential Code Change Delivery:** The BSC advised qualification and performance assurance code drafting will be discussed at the January 2024 Elexon PAB. The CUSC advised changes to TNUoS charging required as a result of MHHS have been discussed with Ofgem and will be decoupled from CCAG-led code drafting and progressed via standard CUSC governance. CUSC changes are targeted for approval by 30 September 2024 for the start of the charging year.
- Licence Review:** The Programme has reviewed potential licence changes required for MHHS and no change requirements have been identified. A consultation will be issued in due course.

CCAG papers available [here](#)

Wider Programme Updates

Participant Checklist:

- REMINDER: Code Topic Mop Up 1 Assurance Review – the deadline is **Wednesday 31 January 2024**
- REMINDER: Change Request (CR039) issued for Impact Assessment – the deadline is **Wednesday 31 January 2024**
- Design Interim Release (IR) 5.3 Artefacts [published](#)
- Data Integration Platform (DIP) Simulator Uplift for Interim Release 5.3 will be deployed **Friday 26 January 2024**
- IR7 will be released **Wednesday 31 January 2024** and deployed into the DIP Simulator on **Friday 22 March 2024**.

You can view the **Participant Checklist** on the respective **Planning pages** of the [Collaboration Base](#) and the [MHHS website](#).

We've created the **Interim Release and Swagger version alignment document** for Systems Integration Testing (SIT) participants. You can view this document on the respective **SIT pages** on the [Collaboration Base](#) and [MHHS website](#).

Upcoming Governance Meetings:

- Thursday 01 February 2024 – Data Working group (DWG)
- Tuesday 06 February 2024 – Environments Working Group (EWG)
- Wednesday 07 February 2024 – Programme Steering Group (PSG)
- Wednesday 07 February 2024 – SIT Working Group (SITWG)
- Thursday 08 February 2024 – Migration Working Group (MWG)
- Tuesday 13 February 2024 – Code Drafting Working Group (CDWG)
- Tuesday 13 February 2024 – Qualification Working Group (QWG)
- Wednesday 14 February 2024 – Design Advisory Group (DAG)
- Wednesday 14 February 2024 – Transition and Operational Readiness Working Group (TORWG)
- Tuesday 20 February 2024 – Non-Functional Testing Working Group (NFTWG)
- Wednesday 21 February 2024 – SIT Advisory Group (SITAG) (NEW)
- Thursday 22 February 2024 – Qualification Advisory Group (QAG) (NEW)
- Tuesday 27 February 2024 – Migration and Cutover Advisory Group (MCAG) (NEW)



Testing

- The PPC Team is working with the Testing Team on SIT Functional readiness planning and will be supporting on uplifting ADO and DITL documentation and scheduling sessions with participants ahead of cohort rehearsals.
- The PPC Team continues to support the Testing Team with the coordination and publication of SIT Functional Theme 8 + Coverage Gaps Test Scenarios and Test Cases files.
- The PPC team is also supporting with the facilitation of the SIT Migration Review Workshops and will be managing the subsequent publication of Test Scenarios and Cases for industry review.
- **Next Steps:** Preparation of packs and documentation for SIT Functional readiness sessions and the uplift of Theme 8 Test Cases to reach approval at February TMAG.



Qualification

- PPC team continue to work with the Programme Qualification team and the Code Bodies to develop an FAQ to support participant engagement and address participant bilateral feedback.
- Increased collaboration and coordination with the Code Bodies to identify disengaged participants and executing plan to engage them.
- PPC team developed communications plan for key Qualification deliverables to drive participant awareness and engagement: Pre-Qualification Submission, Qualification Approach & Plan consultation and the Qualification Assessment Document.
- **Next Steps:** Finalise the FAQ and participant Qualification pathways to support participant engagement and address participant bilateral feedback.



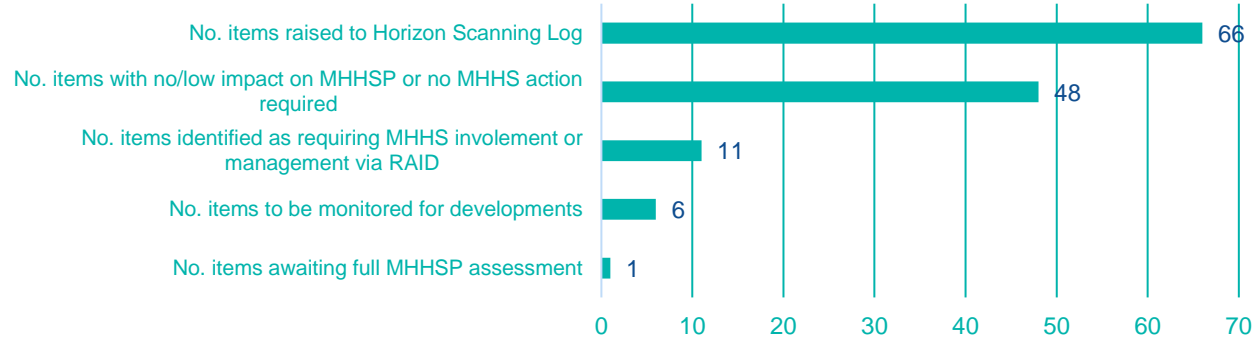
Targeted and Tailored Communications

- The PPC team have identified 2 webinar topics for Q1 2024 (Pre-Qualification Submission (PQS) and Migration) and planning/ preparation has started for the Open Day on 23 April 2024 which will focus on Qualification. The PQS webinar will be led by the Code Bodies and will be scheduled in March.
- Phase 2 of the Communications Channels action plan has one outstanding item on the MHHS website: the search function. Planning for Phase 3 is underway – to include participant journeys and update to the Qualification information on communications channels..
- **Next steps:** Continue to support DIP Onboarding and SIT Functional Readiness activities, communications and engagement where required.

Industry horizon scanning: Summarise items monitored via the Cross-Code Advisory Group (CCAG) horizon scanning process

Horizon scanning metrics

The following graph summarises items being monitored via the Programme's horizon scanning process



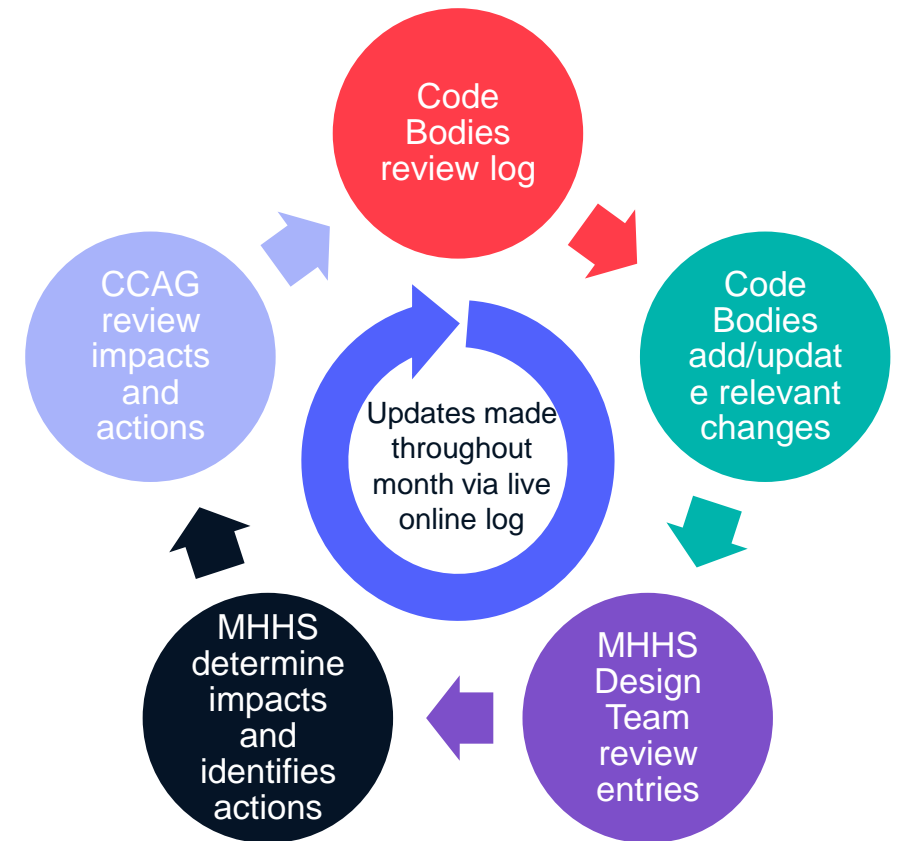
More information can be found via the [CCAG meeting papers](#)

Direct link: [MHHS-DEL387 CCAG Code Change Horizon Scanning Log v1.0](#)

- Industry code changes: 66** – REC: 34, BSC: 15, SEC: 5, DCUSA: 11, CUSC: 1
- Wider industry changes: 5** – HH opt-out, DUoS SCR, code review, microbusiness definition, licence change
- Criticality of horizon scanning items** – High: 11, Medium to High: 3, Medium: 3, Low/No impact: 48
- Top RAID linked items:**
 - **SEC MP162** (R0011, R0083, R0113, R0115, R0116, R051, R0182, R0191, D0076, D0077)
 - **REC R0032** (D0068, D0069)
 - **REC R0044** (D0055)

Horizon Scanning Process

The CCAG collaborate to populate the Horizon Scanning Log and the Programme undertakes impact assessment of each change. Where a change requires actions by the Programme beyond simple monitoring or initial definition, this is entered into the Programme RAID framework with an appropriate action plan and owner put in place.



Dashboard Objective: To provide PSG with a progress update on in-flight and future planned assurance activities.



Assurance Activities in Progress / Completed during month

Theme-Based Assurance

- **Ongoing Embedded Assurance Activities (WP1) - In Progress** - Monthly cadence of regular interactions with MHHSP.
- **Design Documentation (WP4) - In Progress** - Continued monitoring of ongoing design updates/change requests through attendance at DAG and DRG, and review of supporting documentation.
- **Management of Separation Plan (WP5) - In Progress** - A review is underway to assess the operating effectiveness of the separation plan and whether it remains fit-for-purpose for future phases of the Programme.
- **Data Review (WP14)** - A review is underway to understand the strategy and approach to data activities across the end-to-end programme and whether they meet the Programme's objectives.

Stage-Based Assurance

- **Test Assurance (WP9) "Period 5 (P5)" - In progress** - Ongoing assurance activities are being performed during SIT CIT. We have been working closely with the SI team, providing real time assurance and recommendations to the Programme.
- **Qualification (WP12) - In Progress** - Continue to monitor progress on the approach to Qualification, identifying risks and recommendations where appropriate.



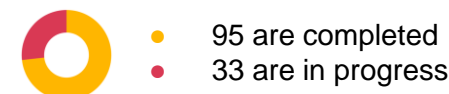
Upcoming Assurance Activities

- **SIT Functional Readiness (WP9/10/11)** - Assurance of updated testing approach and readiness for SIT Functional.
- **DBT2 Risk Assessment (WP1)** - assess the risks associated with DBT2 delivery to inform what additional assurance activities may be required.



Assurance Action Status

Of the 128 actions agreed with the Programme team or Participants to date:



Of those in progress, three are overdue. Good progress has been made on these, but final updates and validation are required to close them:

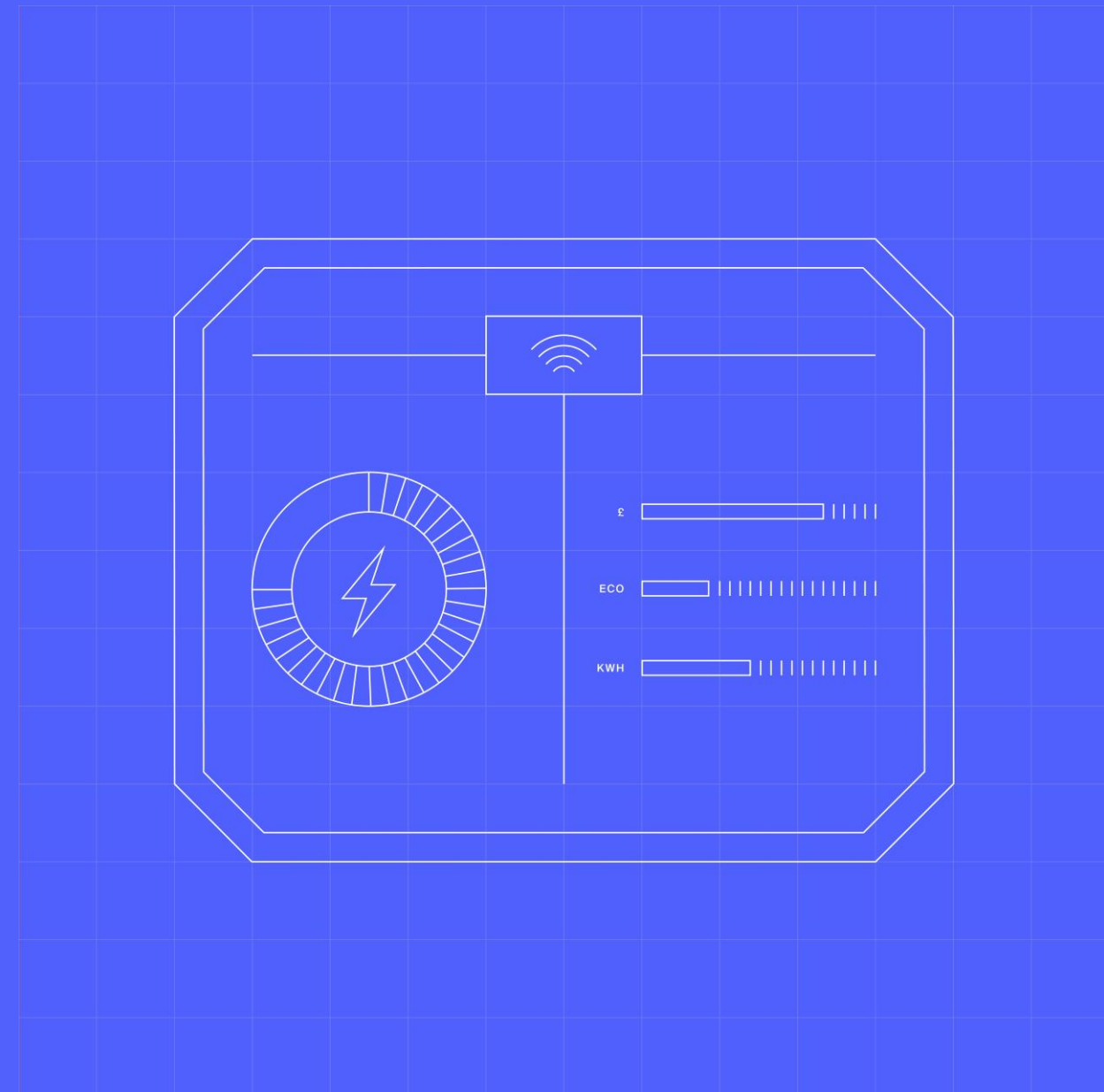
- Two need detail following the update to the CIT approach
- One will be validated through the work on the Management of the Separation Plan (WP5).

Summary and Next Steps

INFORMATION: Summarise actions and decisions.
Look ahead to next meeting

Chair and Secretariat

5 mins



Summary and next steps

1. Confirm actions and decisions from meeting
2. Next PSG meeting: **06 March 2024 10:00 – 12:30** (F2F – Elexon’s Offices, 350 Euston Rd, London. NW1 3AW.)
3. MHHS Open Day: 23 April 2024

06 March 2024 agenda items

- Qualification Testing
- Testing Updates
- Migration Updates

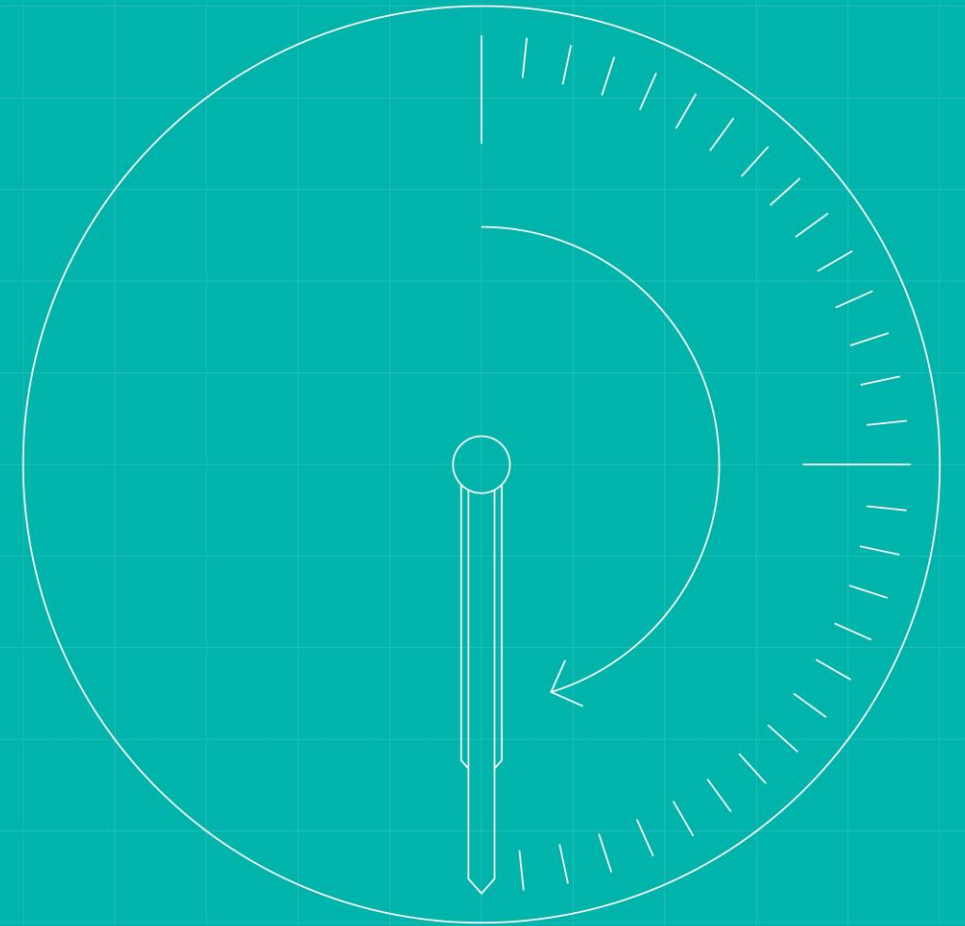
Standing items

- Minutes and action review
 - Sponsor update
 - Programme reporting
 - Delivery dashboards
 - Summary and next steps
-

If you would like to propose an agenda item for the PSG, please contact the PMO at PMO@mhhsprogramme.co.uk

Thank you

Appendix



System Integration & Testing Advisory Group (SITAG)	
Monthly cadence: Third Wednesday of the month First Meeting: Weds 21 Feb 2024	
Representative	Nomination received
Elxon (as central systems provider)	Yes
DCC (as smart meter central system provider)	Yes
RECCo	Yes
Large Supplier	Yes
Medium Supplier	No
Small Supplier	Yes
I&C Supplier	No*
Supplier Agent	No
Supplier Agent (Independent)	Yes
DNO	Yes
iDNO	Yes
National Grid ESO	Yes
Consumer	No

Migration & Cutover Advisory Group (MCAG)	
Monthly cadence: Fourth Tuesday of the month First Meeting: Tues 27 Feb 2024	
Representative	Nomination received
Elxon (as central systems provider)	Yes
DCC (as smart meter central system provider)	Yes
RECCo	Yes
Large Supplier	Yes
Medium Supplier	No
Small Supplier	No
I&C Supplier	Yes
Supplier Agent	No
Supplier Agent (Independent)	Yes
DNO	Yes
iDNO	Yes
Consumer	No
National Grid ESO	Yes

Qualification Advisory Group (QAG)	
Monthly cadence: Third Thursday of the month First Meeting: Thurs 15 Feb 2024	
Representative	Nomination received
RECCo (Qualification Body)	Yes
BSCCo (Qualification Body)	Yes
Large Supplier	Yes
Medium Supplier	Yes
Small Supplier	No
I&C Supplier	Yes
Supplier Agent	Yes
Supplier Agent (Independent)	Yes
DNO	Yes
iDNO	Yes
Consumer	No

Colour Key	
Changed since last PSG	Seat vacant