



MHHS
PROGRAMME

Industry-led, Elexon facilitated

Testing and Migration Advisory Group (TMAG) #32 – 17 January 2024

Version 1.1

MHHS-DEL2137

Agenda (1/2)

#	Item	Objective	Type	Lead	Time	Page	
1	Welcome			Chair	10:00-10:05 5 mins	2	
2	Minutes and Actions	Approve minutes. Update on open actions, closing where appropriate	Decision	Chair and Secretariat	10:05-10:10 5 mins	4	
3	Programme Updates	Provide updates from L2/3 governance groups and wider Programme activity	Information	Programme (PMO)	0 mins	6	
4	Working Group Report	Provide updates from discussion at the DWG, MWG, EWG, QWG, SITWG, NFTWG and MDSG	Information	Working group leads	0 mins	8	
5	New Advisory Groups Update	Update on the monthly cadence and current constituency nominations for SITAG, MCAG, QAG	Information	Programme (PMO)	10:10-10:20 10 mins	10	
6	Migration	CR037	Approval of CR037: Migration Message Processing Choreography for Impact Assessment	Decision	Programme (Immy Syms)	10:20-10:30 10 mins	12
7	Testing	SIT Functional Test Scenarios and Test Cases	Update on progress on test scenarios and test cases	Information	Programme (Kevin Davis)	10:30-10:40 10 mins	18
8		SIT Functional Test Scenarios and Test Cases (Themes 6,7,9)	Approval of the SIT Functional Test Scenarios and Test Cases (themes 6,7,9), following SITWG recommendation	Decision	Programme (Kevin Davis)	10:40-10:50 10 mins	20
9		SIT Migration Test Themes	Introduction to SIT Migration Test themes	Information	Programme (Lee Cox)	10:50-11:00 10 mins	22
10		Additional Secondary Routing	Update on additional secondary routing following CIT reduction – delivery plan (<i>placeholder</i>)	Information	Programme (Lee Cox)	11:00-11:15 15 mins	24
11		Qualification Update	Update on discussions with code delivery bodies on qualification and activity at the QWG	Information	Elexon & REC Performance Assurance	11:15-11:20 5 mins	26

Agenda (2/2)

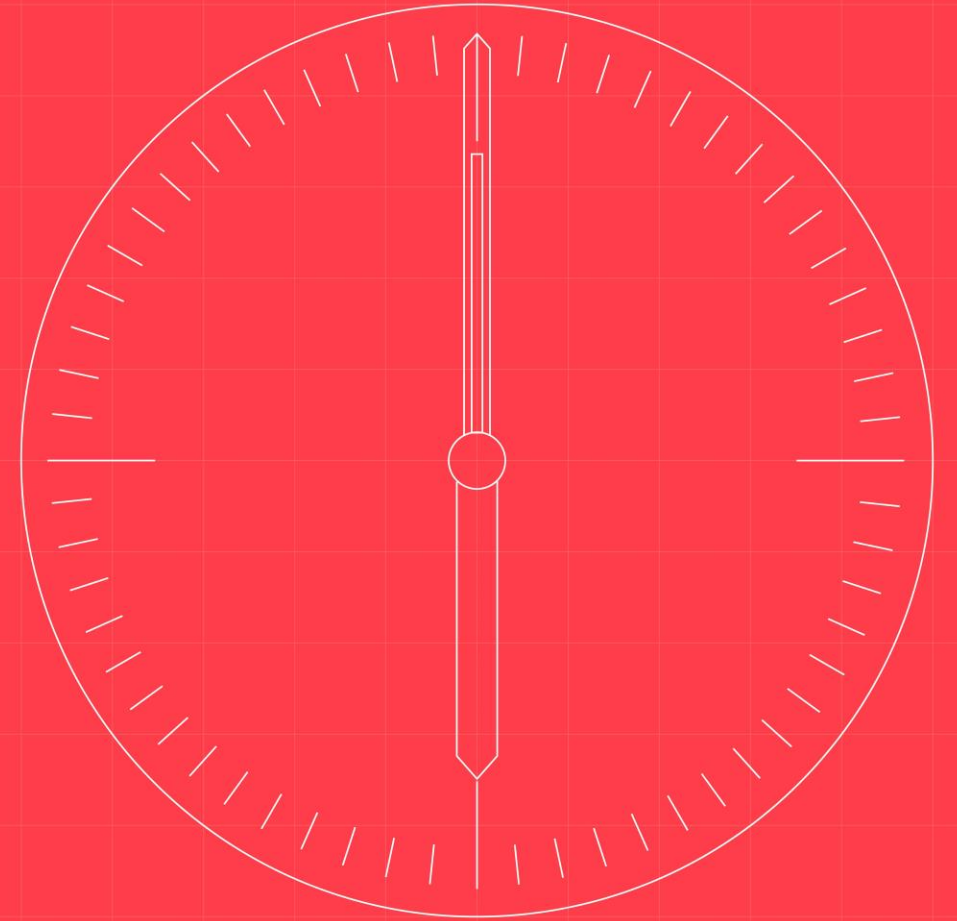
#	Item	Objective	Type	Lead	Time	Page
12	IPA Test Assurance Period 3	Update on IPA Test Assurance Period 3	Information	IPA	11:20-11:25 <i>5 mins</i>	28
13	3 Month Milestone Look Ahead & Milestone Changes	Update on upcoming Programme milestones related to TMAG and milestone changes coming for approval	Information / Decision	Programme (PMO & Workstream leads)	11:25-11:30 <i>5 mins</i>	30
14	Top Programme Risks related to TMAG	Update on the top Programme risks related to TMAG	Information	Programme (PMO & Workstream Leads)	11:30-11:35 <i>5 mins</i>	37
15	Summary and Next Steps		Information	Chair and Secretariat	11:35-11:40 <i>5 mins</i>	39

Minutes and Actions

DECISION: Approve minutes. Update on open actions, closing where appropriate

Chair and Secretariat

5 mins



Minutes and Actions review

1. **Approval of Minutes** from 20 December TMAG
2. **Open Actions and Actions from previous TMAG** (actions will be discussed by exception. Please review the action updates ahead of the meeting)

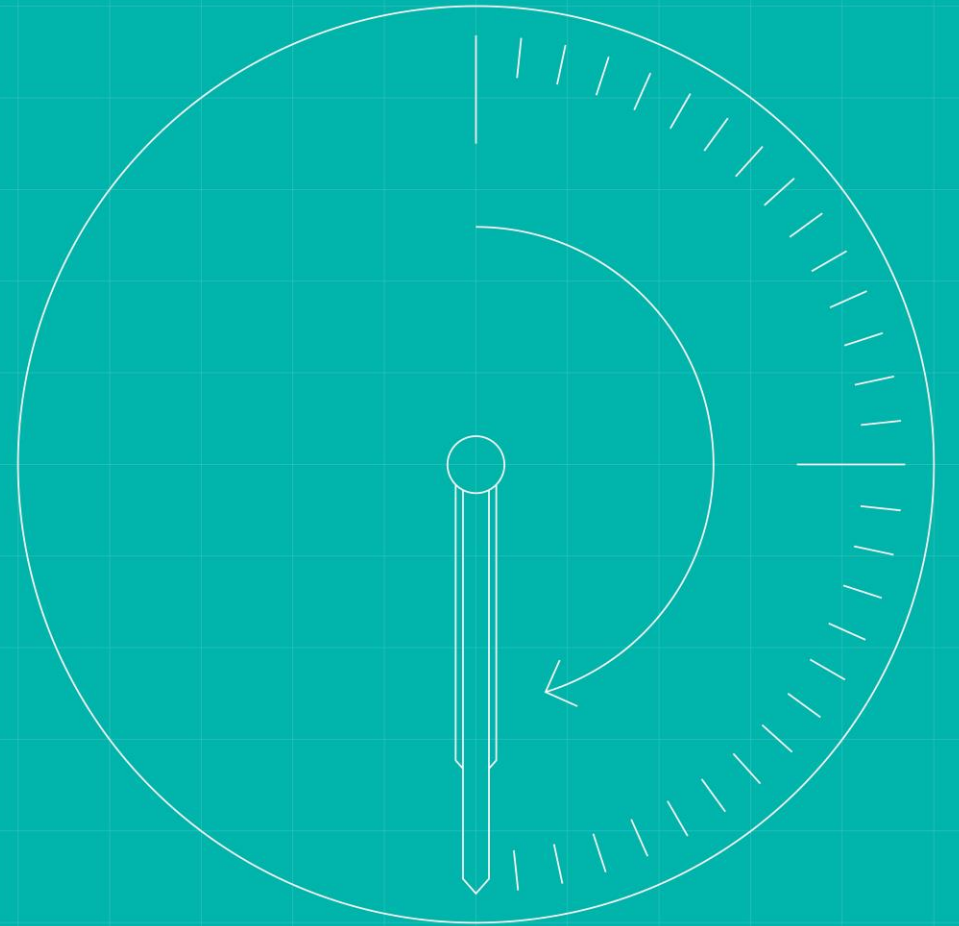
Ref	Date	Action	Owner	Due	Status	Latest Update
TMAG29-02	20/11/23	Programme to identify ownership of milestones which Advisory Group they sit within.	Programme (PMO)	February 2024	Open	To be completed on the mobilisation of the new Advisory Groups.

Programme Updates

INFORMATION: Provide updates from L2/3 governance groups and wider Programme activity

PMO

0 mins – taken as read, questions by exception



Governance group updates

Programme Steering Group (PSG)	Testing and Migration Advisory Group (TMAG)
<p>Updates from PSG 06 December 2023</p> <ol style="list-style-type: none"> CR035 Decision: CR035 (Programme proposal to restructure TMAG in the MHHS Governance Framework and other housekeeping updates) was approved by the MHHS Senior Responsible Owner (SRO). This change restructures the TMAG into three separate advisory groups covering SIT, Migration, and Qualification. The new groups are due to hold their first meetings in February 2024 and constituency nominations are in progress. The change also removes minutes as a meeting output for Level 2 and 3 MHHS governance groups and replaced this with an enhanced headline report. Qualification testing Updates: Elxon and the Programme provided updates on Supplier, Agent, and LSDO qualification testing. Further information is available in the meeting papers and Headline Report. Programme Reporting: The Programme provided updates on CIT progress, noting current challenges and the support available. SIT Functional commencement is currently tracking as amber. Change Freeze: The Programme's approach to managing change during testing and code deployment was formalised. <p>PSG papers available here.</p>	<p>Update from TMAG 20 December 2023</p> <ol style="list-style-type: none"> TMAG Restructure approved by PSG: this was approved by PSG on 06 December. M15 Acceptance Criteria: TMAG members approved this document. CR037: TMAG members approved the issuing of CR037: Migration message processing choreography for impact assessment to industry. CIT Governance Milestones: The TMAG members approved the remaining ICT interval milestones, based on the revised governance approach. SIT Migration Test Approach and Plan. The TMAG members approved this document. SIT Migration Test Data Approach and Plan: The TMAG members approved this document. SIT CIT Batch 3 Test Cases (Interval 5 and 6): The TMAG members approved these test cases. SIT Functional Test Scenarios and Test Cases (Themes 1 – 5) The TMAG members approved these themes. Release Management and Change Freeze Update. CIT and Secondary Routing Update. 3 Month Milestone Look Ahead & Milestone Changes: The TMAG approved milestone changes to the Programme Plan. <p>TMAG papers available here</p>

Design Advisory Group (DAG)
<p>Updates from DAG 13 December 2023</p> <ol style="list-style-type: none"> CR032 Decision: CR032 (Change to Interface IF-165 P0210 TuoS Reporting) was approved by the SRO. Updated Design Artefacts will be released in Interim Release (IR) 7 on 31 January 2024 and testing dates will be confirmed in due course. CR034 Decision: CR034 (Delay to Elxon Level 4 validation response – NFR (1009)) was approved by the SRO. Updated Design Artefacts will be released in IR7 with testing to be undertaken in SIT Functional Cycle 2 in June 2024. CR036 Decision: CR036 (Use of Clock Midnight for Appointments and Reads) was approved by the SRO. Design Artefact relinding was issued for review/improvement ahead of release in IR7. Participants will be required to complete design/build by 27 May 2024 ahead of SIT Functional Cycle 2 commencement on 10 June 2024. <p>DAG papers available here</p>

Cross Code Advisory Group (CCAG)
<p>Update from CCAG 20 December 2023</p> <ol style="list-style-type: none"> Horizon Scanning Log: For BSC, CP1589, CP1590 were discussed. For REC, R0043, R0062, R0064, R0093, R00150, R0117 were discussed, for DCUSA, DCP419 was discussed, for SEC, DP256 was discussed. There were no new changes that the Programme believed will impact them. CDWG Escalations: No items raised. CCAG Reporting, Risks and Milestones: The Programme shared an update on the Code workstreams status against the plan, including top programme risks related to CCAG, and future activities. Consequential Code Change Delivery: Updates from Elxon and NGESO were provided in relation to their delivery status. CDWG Update: The Programme provided an overview from CDWG. DIP Code/Rules and Issue 101: The BSC representative provided an update on the DIP Manager issue 101 code approach and consultation. <p>CCAG papers available here</p>

Wider Programme Updates

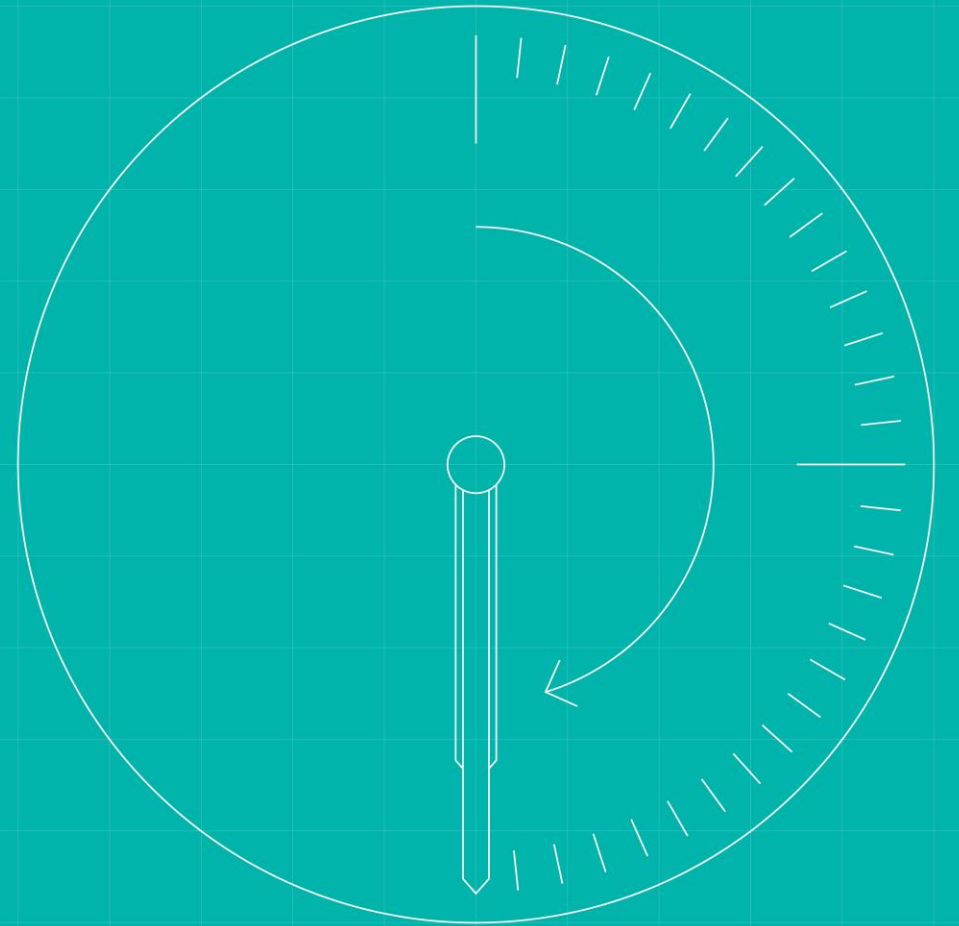
<p>Participant Checklist: This week's Participant Checklist includes the following items for Programme participant review, feedback and awareness: 1. Change Request CR037 issued for Impact Assessment- the deadline is 19 January 2024 2. Design Interim Release 7 objection cut-off date – the deadline for objections is 19 January 2024 3. Data Breach Reporting Process 4. Design Interim Release 5.2 Data Integration Platform (DIP) Simulator uplifted You can view the Participant Checklist on the respective Planning pages of the Collaboration Base and the MHHS website.</p> <p>As we mentioned last week, we'll also include a link each week, to where you can find the Interim Release and Swagger version alignment document on the respective Systems Integration Testing (SIT) pages of the Collaboration Base and MHHS website.</p>
<p>Guidance Documents The Programme has published the Data Integration Platform (DIP) Surgery recordings alongside an uplifted version of the DIP FAQs document on the DIP Guidance Documents page of the Collaboration Base. If you have any questions, please email the Testing team at Testing@mhsprogramme.co.uk</p>
<p>Upcoming Governance Meetings January 2024:</p> <ul style="list-style-type: none"> Thursday 11 January 2024: Migration Working Group (MWG) Monday 15 January 2024: Transition and Operational Readiness Working Group (TORWG) Monday 15 January 2024: Environments and Configuration Management Working Group (EWG) Tuesday 16 January 2024: Code Drafting Working Group (CDWG) Tuesday 16 January 2024: Non-Functional Testing Working Group (NFTWG) Wednesday 17 January 2024: Testing & Migration Advisory Group (TMAG)
<p>Elxon's Code drafting to prepare for Market-wide Half-Hourly Settlement (MHHS): To prepare for Market-wide Half-Hourly Settlement (MHHS), Elxon has been working with the MHHS Programme to make changes to Balancing & Settlement Code (BSC) documents, or to develop new documents if required. Elxon presented the proposed documents to the Performance Assurance Board (PAB) PAB275 meeting on 14 December 2023 for endorsement. Following PAB endorsement at the January 2024 meeting, the assurance code drafting will be sent for consultation on 19 February 2024. Following this consultation, the MHHS Programme will request that the assurance documents are recommended by the Code Drafting Working Group (CDWG), before they go to the Cross-Code Advisory Group (CCAG) for approval. For more information and to find out which BSC documents are impacted, please see the new s section of the Elxon website.</p>

Working Group Report

INFORMATION: Provide updates from discussion at the DWG, MWG, EWG, QWG, SITWG, NFTWG and MDSG

Programme (working group leads as required)

0 mins – taken as read, questions by exception



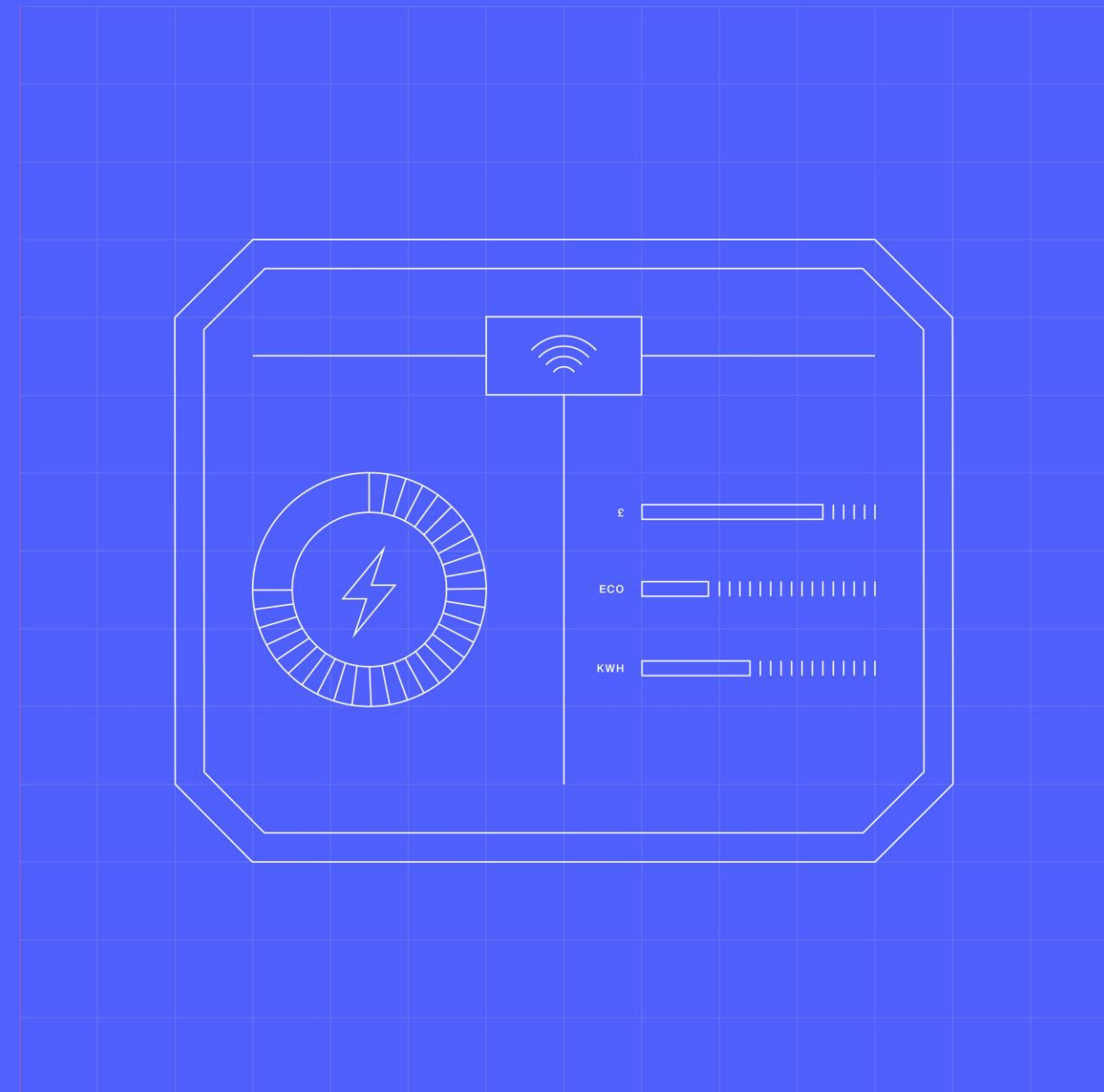
	Data Working Group (DWG)	Migration Working Group (MWG)	Environments and Configuration Management Working Group (EWG)	Qualification and E2E Sandbox Working Group (QWG)	Systems Integration Test Working Group (SITWG)	Non-Functional Testing Working Group (NFTWG)
Upcoming deliverables	<ul style="list-style-type: none"> • Test data loaded for Interval 4 • SIT Migration Test Data Approach and Plan (December TMAG) 		<ul style="list-style-type: none"> • Environments Approach and Plan (SIT Functional and Non-SIT LDSO) (November TMAG) 	<ul style="list-style-type: none"> • SIT-Migration Approach & Plan • SIT-Non-Functional Approach & Plan 	<ul style="list-style-type: none"> • SIT Functional Test Themes 6,7,9 (January TMAG) • SIT Functional Test Themes 8 (February TMAG) 	<ul style="list-style-type: none"> • TBC
Next meeting's agenda items	01 February 2024 <ul style="list-style-type: none"> • TBC 	11 January 2024 <ul style="list-style-type: none"> • Migration PoaP • Migration Framework Approach 	06 February 2024 <ul style="list-style-type: none"> • TBC 	17 January 2024 <ul style="list-style-type: none"> • Forward look of QWG • QAD • Update on QA&P • UIT Environment for Qualification Testing • Update on Sandbox Approach • Non-completion of MHHS Qualification Process • Pre-Qualification submission • BAU Changes beyond MHHS Qualification • LDSO QT Artefacts 	01 February 2024 <ul style="list-style-type: none"> • TBC 	16 January 2024 <ul style="list-style-type: none"> • Update on Transaction Volumetrics • Revised version of PIT guidance with appendices related to NFT • Introduction to SIT/QT NFT Approach • Revised NFT Scenarios Environments suitability to tests
Agenda items from last meeting	07 December 2023 <ul style="list-style-type: none"> • Data Schedule Update • Update of sFTP Onboarding • Sit Migration Test Data Approach and Plan • CIT Data Allocation Status • CIT Lessons Learnt 09 January 2024: eDWG <ul style="list-style-type: none"> • SIT Functional Plan • SIT Functional Data Preparation Approach 	09 November 2023 <ul style="list-style-type: none"> • M15 Criteria • Migration Thresholds Document Consultation 	16 January 2024 <ul style="list-style-type: none"> • DCC CSS PKI Certificates • Cit Onboarding Status • Qualification Environment Approach 	12 December 2023 <ul style="list-style-type: none"> • General Qualification Update • BSC & REC Assessment Criteria • LDSO QT Approach Update • Test Data Approach 	04 January 2024 <ul style="list-style-type: none"> • SIT Functional Test Themes • CIT Changing Governance SIT CIT Functional Update • CR036: Use of Clock Midnight for Appointment and Reads 	19 December 2023 <ul style="list-style-type: none"> • NFT PIT Guidance • Draft NFT Scenarios
TMAG escalations	None	None	None	None	None	None

New Advisory Groups Update

INFORMATION: Update on the monthly cadence and current constituency nominations for SITAG, MCAG, QAG

Programme (PMO)

10 mins



New Advisory Groups Update

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

Migration & Cutover Advisory Group (MCAG)	
Monthly cadence: Fourth Tuesday of the month	
Representative	Nomination received
Elexon (as central systems provider)	Yes
DCC (as smart meter central system provider)	No
RECCo	Yes
Large Supplier	TBD
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	No

Qualification Advisory Group (QAG)	
Monthly cadence: Third Thursday of the month	
Representative	Nomination received
RECCo (Qualification Body)	Yes
BSCCo (Qualification Body)	Yes
Large Supplier	TBD
Medium Supplier	Yes
Small Supplier	No
I&C Supplier	Yes
Supplier Agent	No
Supplier Agent (Independent)	Yes (multiple nominations)
DNO	Yes
iDNO	Yes
Consumer	No

*Large Supplier Constituency has advised they will provide a single joint nomination once meeting dates are confirmed

**I&C constituency has advised they do not intend to provide a representative for SITAG owing to there being no I&C Suppliers undertaking SIT. As such, this seat will remain vacant.

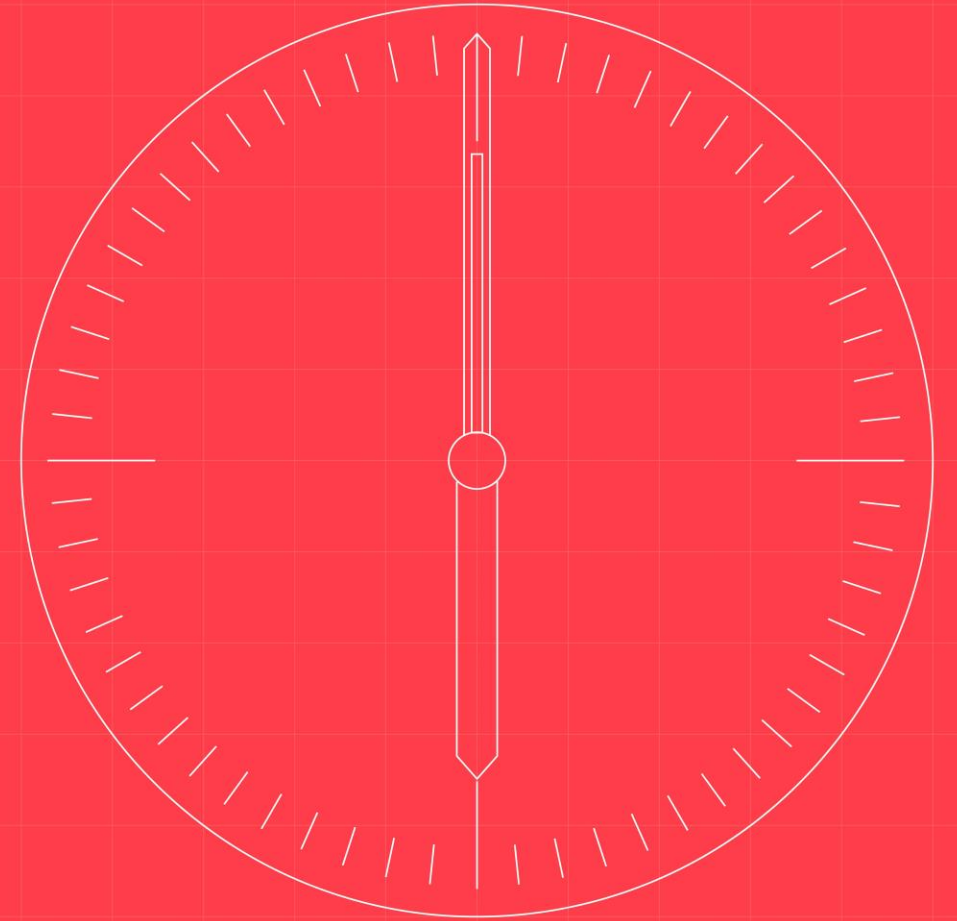


CR037

DECISION: Approval of CR037 Migration Message Processing Choreography for Impact Assessment

Programme (Immy Syms)

10 mins



CR037 – Impact Assessment Summary

Objective:

TMAG to review the outputs of the issued CR037 Impact Assessments and advise SRO on their decision to approve or reject the redlining in the Change Request.

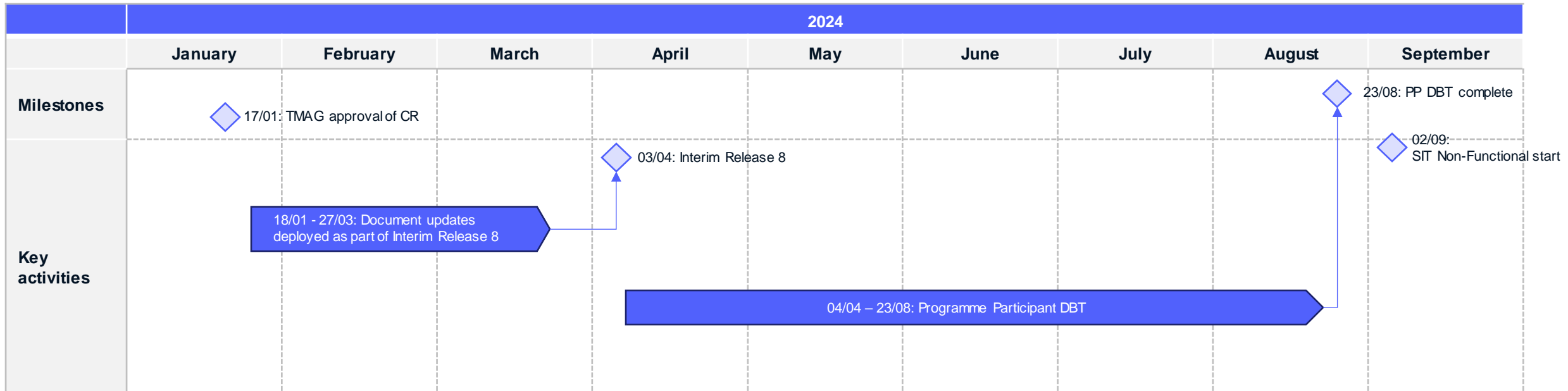
Headlines:

- Overall: **17 respondents supported the change; no respondents rejected the change; and 2 respondents abstained.**
- **Those who supported the Change Request did so on the following basis:**
 - Implementing the changes mitigates a risk on meeting delivery milestones, and the changes bring documentation in line with the Migration Design.
 - The solution should allow MPRS System infrastructure to handle a lower migration processing workload during longer hours in the background, whilst the rest of activities run on the foreground with high priority to meet the shorter SLAs.
 - Whilst the actual costs experienced by LDSOs has not been shared, it is likely to outweigh the costs and diminished benefits within other participants.
- **The following caveats/assumptions/requests were raised:**
 - A request was raised for reference to be made to changes to code drafting: currently, BSCP708 retains the 60 min SLA for migration CoA messages.
 - The CR makes an assumption that LDSOs can deliver the stated volumes. A risk remains until assurance testing is completed by St Clements in January 2024.
 - One Agent raised the following caveats:
 - Agreement is required from all roles that the proposed processing windows are workable;
 - Rewording is required to clarify that the change removes the 60-minute processing window for MS/DS to process IF-033 and required IF-24, not that IF-033s received before 23:00 need to be responded to by 23:00;
 - Clarity is needed on whether the output of IF32s/33s between 05:00 and 17:00 should be for all IF-031s received before 12:00;
 - And migration related requirements should be added to the E2E002 NFR document.
 - Confidence was requested that expected volumes could be dealt with in the required timescales as a result of the processing of the IF-036 triggering the SDS to send read schedules to the DCC, given how late in the day this schedule will be issued to the DCC.
 - As a result of the CR, RECCo would expect to see:
 - Redlined changes made to the Migration Design, clearly stating how the interfaces affected by the new SLAs are identified;
 - And the operational choreography for for Supplier Agent appointment flows to be tested through SIT.

CR037 – Implementation Plan

Summary

- The design updated required for CR037 will be included for publication into Interim Release 8 on 03 April 2024.
- Design changes in Interim Release 8 will be deployed into testing at SIT Non-Functional, scheduled currently to begin on 02 September. Participant testing expectations will be expected to align with what is set out at the NFTWG.
- This will allow testing of the functionality for CR037 in SIT Non-Functional.



CR037 – Submitted Impact Assessments

Programme Parties	CR037 Recommendations			
	Yes	No	Abstain	No Reply
Large Suppliers	3	-	-	2
Medium Suppliers	1	-	-	6
Small Suppliers	-	-	-	33
I&C	2	-	-	39
DNOs	3	-	-	3
iDNOs	1	-	-	12
Ind. Agents	3	-	-	44
Supplier Agents	1	-	-	6
S/W Providers	1	-	-	24
REC Code Manager	1	-	-	-
National Grid ESO	-	-	-	1
Consumer	-	-	-	1
Elexon (Helix)	-	-	-	1
DCC	-	-	1	-
SRO / IM & LDP	1	-	-	-
IPA	-	-	1	-
Avanade	-	-	-	1
Totals	17	0	2	173

Market Share			
Yes	No	Abstain	No Reply
59%	-	-	41%
10%	-	-	90%
-	-	-	100%
45%	-	-	55%

Market Share information is according to the latest Meter Point Administration Number (MPAN) data held by the Programme as of August 2023. Market Share has not been provided for constituencies where MPAN data is not currently available.

Notes:

The classification of Independent and Supplier Agents is maintained by the Programme Party Coordinator and is subject to change.

Rationale for being marked down as abstained:

- The IPA and DCC are comfortable that the change request is not expected to have an impact on their activities.

CR037 Impacts – Views on the proposed approach (Page 1)

Programme Parties	Range of respondents' views on benefits and concerns (related to the approach in CR037)
Large Suppliers	<ul style="list-style-type: none"> + All responding Large Suppliers support the implementation of the Change Request. + They noted that the Change Request mitigates a risk on meeting delivery milestones.
Medium Suppliers	<ul style="list-style-type: none"> + The one responding Medium Supplier supports the implementation of the Change Request.
Small Suppliers	<i>Did not respond.</i>
I&C	<ul style="list-style-type: none"> + Both responding I&C Suppliers support the implementation of the Change Request.
DNOs	<ul style="list-style-type: none"> + All responding DNOs support the implementation of the Change Request. + They agreed that the Change Request will bring documentation in line with the Migration Design. + The solution gives the MPRS systems a few hours to handle every step of the daily migration workload and includes the night batch in it. So, it should allow the infrastructure to handle a lower migration processing workload during longer hours in the background, whilst the rest of activities run on the foreground with high priority to meet the shorter SLAs. The solution should allow no significant changes over the infrastructure needed to meet the rest of the requirements. <ul style="list-style-type: none"> ▪ One DNO requested that amendments to code drafting are referenced: currently, BSCP708 retains the 60 min SLA for migration CoA messages. They request that the CR acknowledges the changes that need to be made to codes if the CR is approved. For example, BSCP708 'Migration of Metering Systems to and from the MHHS Arrangements' will need to be amended, re-issued and consulted upon as part of Mop Up 2 code drafting. ▪ One DNO that there is an assumption that LDSOs can deliver the stated volumes, and that a risk remains until assurance testing is completed by St Clements in January 2024.
iDNOs	<ul style="list-style-type: none"> + The one responding iDNO supports the implementation of the Change Request. + Managing CoA migration in the proposed way will increase the likelihood of the required outcome by making it less onerous for LDSOs.
Agents	<ul style="list-style-type: none"> + All responding Agents support the implementation of the Change Request. + Whilst the actual costs experienced by LDSOs has not been shared, it is likely to outweigh the costs and diminished benefits within other participants. <ul style="list-style-type: none"> ▪ One Agent raised the following caveats: they agree the proposed windows of processing are workable but requirement agreement from all roles to be workable; rewording is required to clarify that the changes removes the 60-minute processing window for MS/DS to process IF-033 and required IF-24, not that IF-033s received before 23:00 need to be responded to by 23:00; clarity whether the output of IF32s/33s between 05:00 and 17:00 be for all IF-031s received before 12:00; and that migration related requirements should be added to the E2E002 NFR document. ▪ One Agent requested confidence expected volumes could be dealt with in the required timescales as a result of the processing of the IF-036 triggering the SDS to send read scheduled to the DCC, given how late in the day this schedule will be issued to the DCC.

CR037 Impacts – Views on the proposed approach (Page 2)

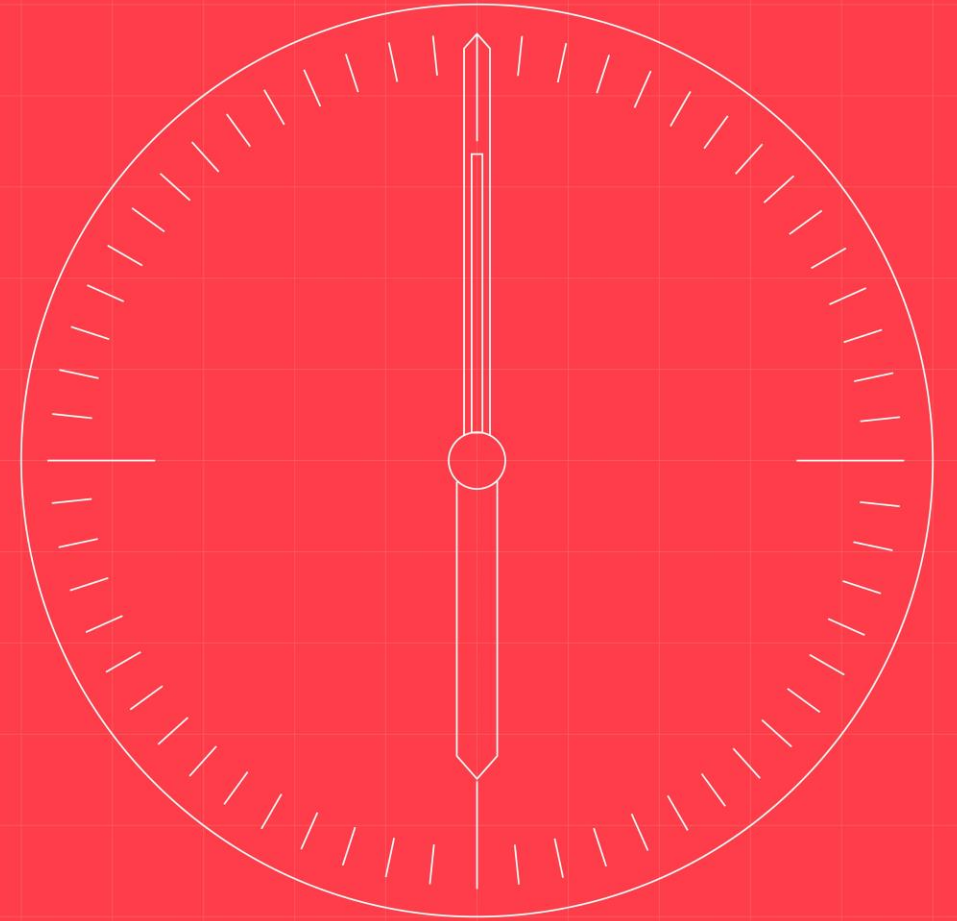
Programme Parties	Range of respondents' views on benefits and concerns (related to the approach in CR037)
S/W Providers	+ The one responding Software Provider supports the implementation of the Change Request.
REC Code Manager	+ RECCo supports the implementation of the Change Request. <ul style="list-style-type: none"> ▪ They have noted that as a result of the CR, they would expect to see: redlined changes to the migration design, clearly stating how the interfaces affected by the new SLAs are identified; and the operational choreography for for Supplier Agent appointment flows to be tested through SIT.
National Grid ESO	<i>Did not respond.</i>
Consumer	<i>Did not respond.</i>
Elexon (Helix)	<i>Did not respond.</i>
DCC	<ul style="list-style-type: none"> ▪ The DCC is comfortable that the Change Request is not expected to have an impact on their activities.
SRO / IM & LDP	+ As the Change Raiser, the Programme is supportive of the Change Request. The Change Request proposes a change to baselined documents as per the migration threshold agreed at the November TMAG. <ul style="list-style-type: none"> ▪ The changes will be published in IR8 on 03 April 2024. Participant DBT will be expected to align with IR8. Publishing the changes in IR8 will meet the start of Non-Functional Testing on 02 September 2024. The code will need to be updated accordingly following IR8.
IPA	<ul style="list-style-type: none"> ▪ The IPA is comfortable that the Change Request is not expected to have an impact on their activities.
Avanade	<i>Did not respond.</i>

SIT Functional Test Scenarios and Test Cases

INFORMATION: Update on the SIT Functional Test Scenarios and Test Cases

Programme (Kevin Davis)

10 mins



Theme 8 – Settlement and Coverage Gaps

- The team are progressing drafting of the Theme 8 Settlement test cases.
- The coverage gaps analysis has been completed across all themes; backfilling is underway of residual scenarios and test cases, where required.

The above will be issued in two batches:

- Fri 12-Jan
- and Fri 19-Jan

We are allowing a week after each drop for review feedback and comments, so we can resolve issues in a time manner, with the goal of Feb TMAG approval.

Baseline Inventory – SIT Functional Release Notes

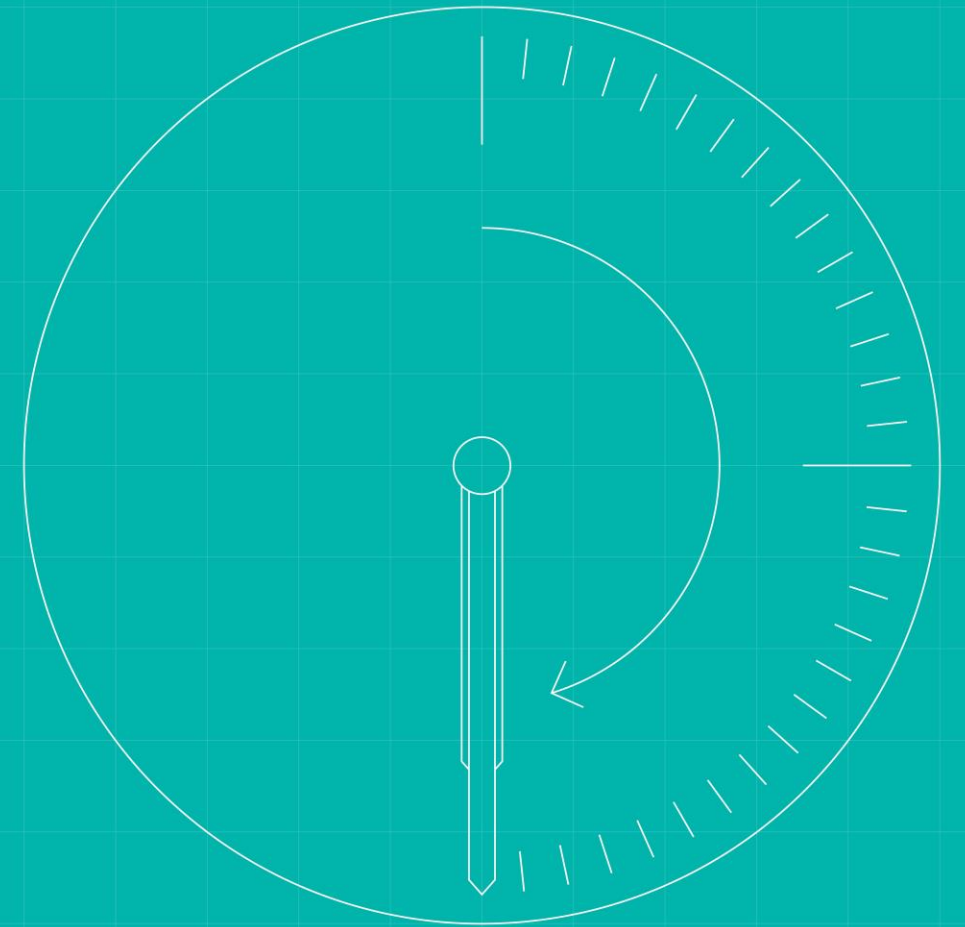
- To make it easier for participants to navigate the SIT Functional test baseline, we will be issuing a release note with each drop.
- The release note will catalogue all the scenarios and associated test cases.
- It will distinguish items that are already baselined (as per previous TMAGs) versus the new items to be considered for approval and inclusion in the SIT Functional baseline.

SIT Functional Test Scenarios and Test Cases (Themes 6,7,9)

DECISION: Approval of the SIT Functional Test Scenarios and Test Cases, following SITWG recommendation

Programme (Kevin Davis)

10 mins



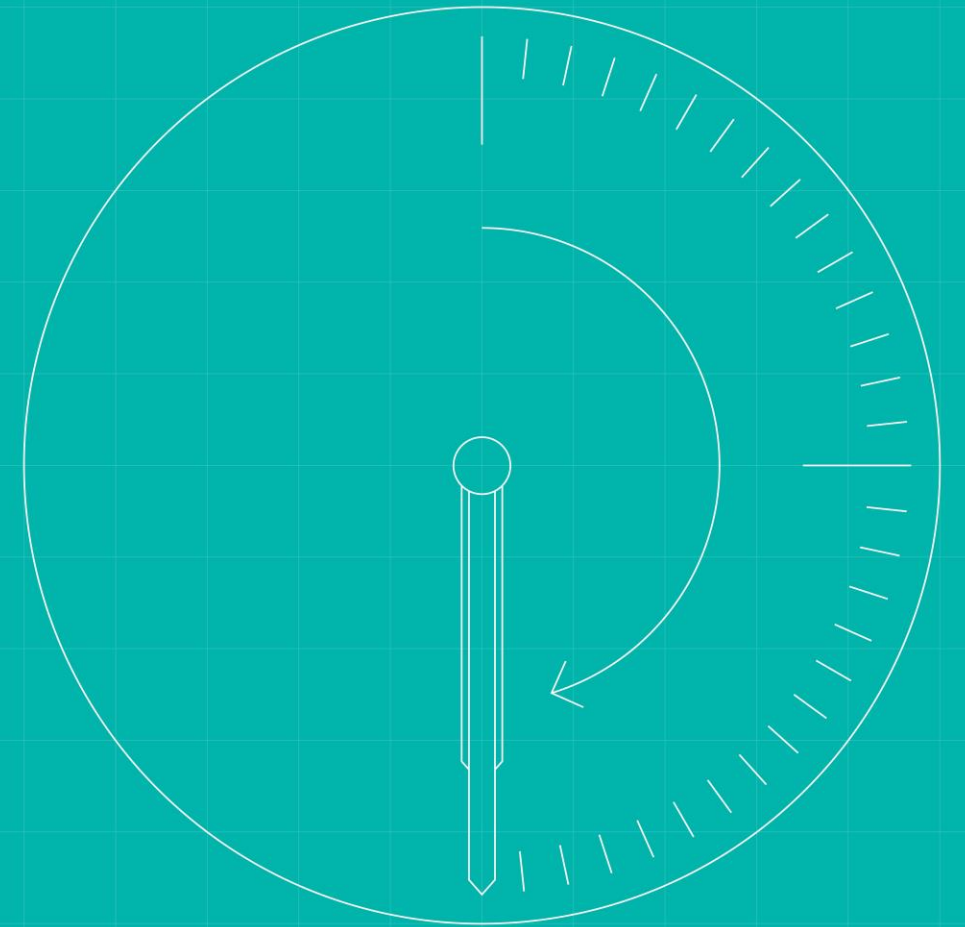
- We have completed a round of reviews and updates for the following themes:
 - **6 - Metering Changes**
 - **7 - Consumption**
 - **9 - ISD**
- A final approval candidate package for all the above themes was issued to PPs on 15-Dec, addressing PP review feedback and comments.
- The programme received 08-Jan SITWG recommendation for TMAG approval.
- **Decision:** We would like to request TMAG Approval of Theme 6, 7 and 9 SIT Functional Test Scenarios and Test Cases.

SIT Migration Test Themes

INFORMATION: Introduction to SIT Migration Test themes

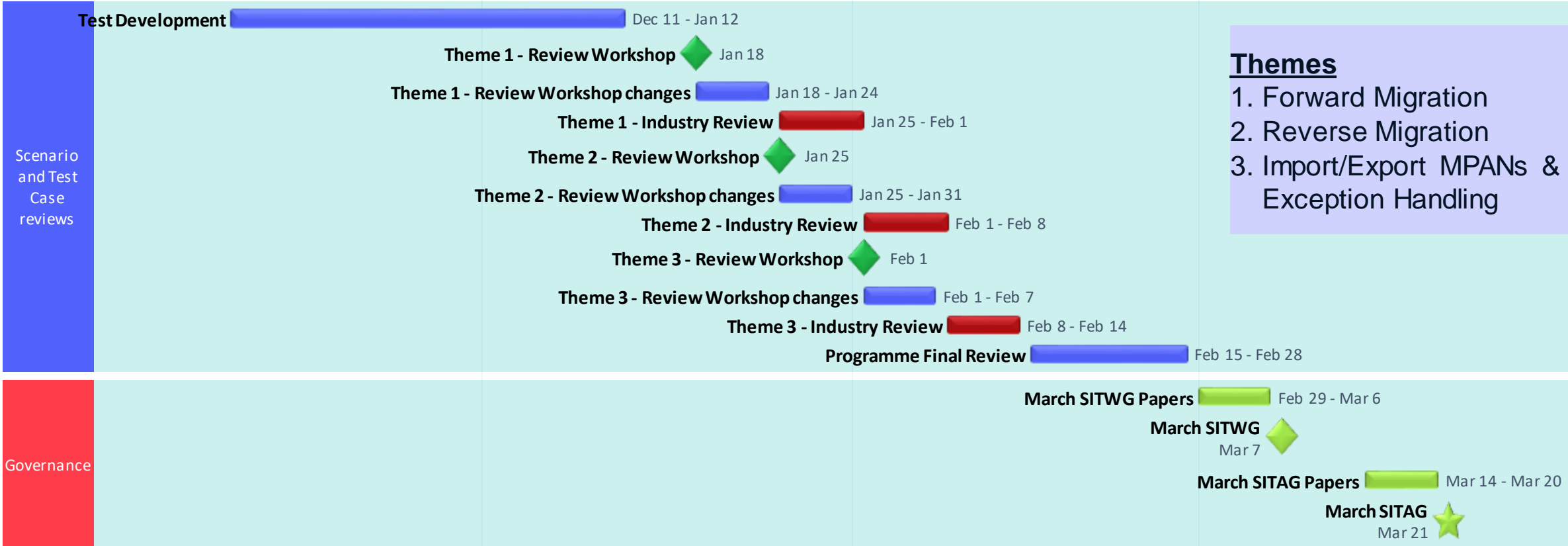
Programme (Lee Cox)

10 mins



SIT Migration Test Scenario and Test Cases delivery – draft plan

2024



- Themes**
1. Forward Migration
 2. Reverse Migration
 3. Import/Export MPANs & Exception Handling

Scenario and Test Case reviews

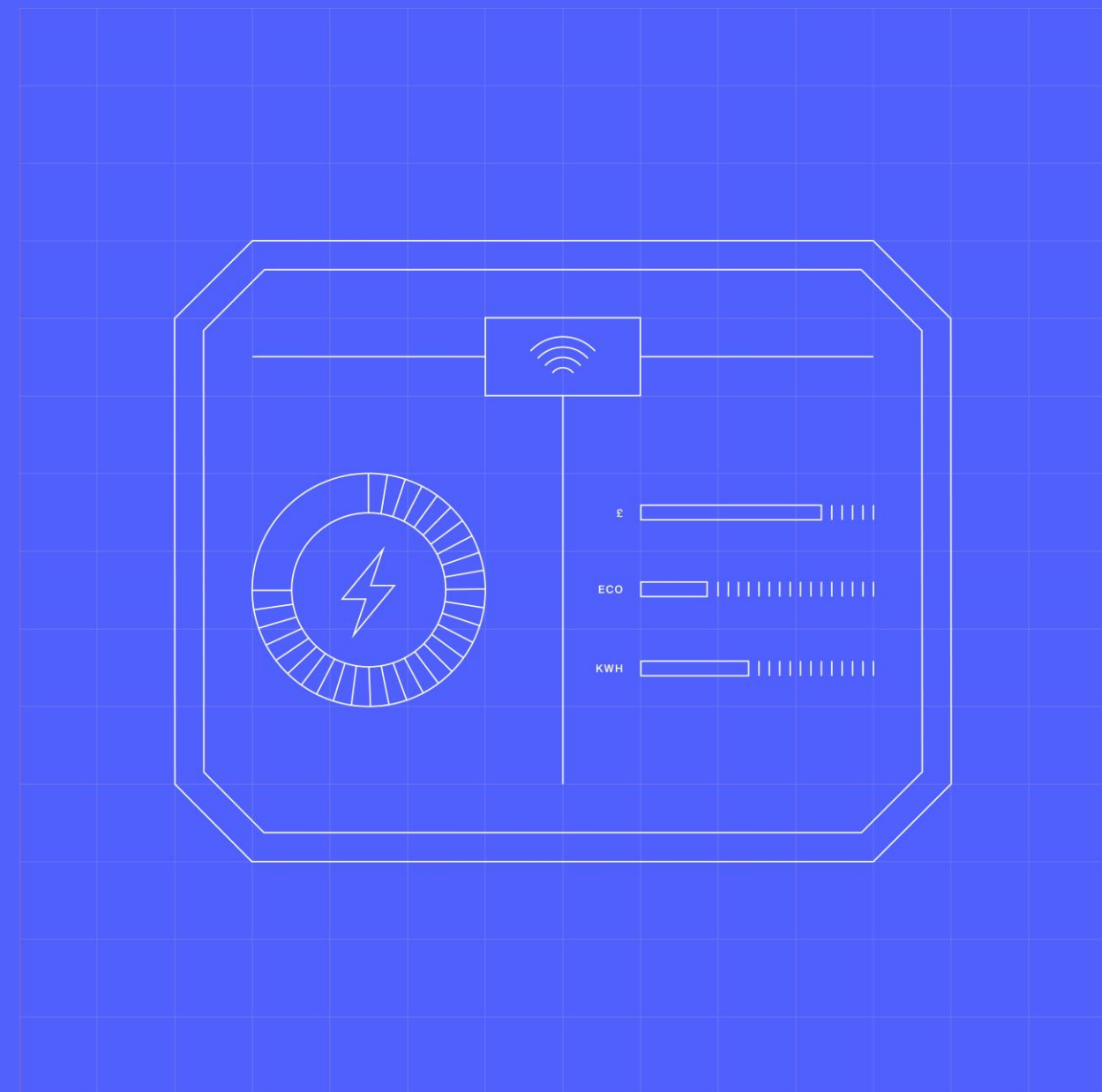
Governance

Additional Secondary Routing Testing

INFORMATION: Update on additional secondary routing following CIT reduction – delivery plan (*placeholder*)

Programme (Lee Cox)

5 mins



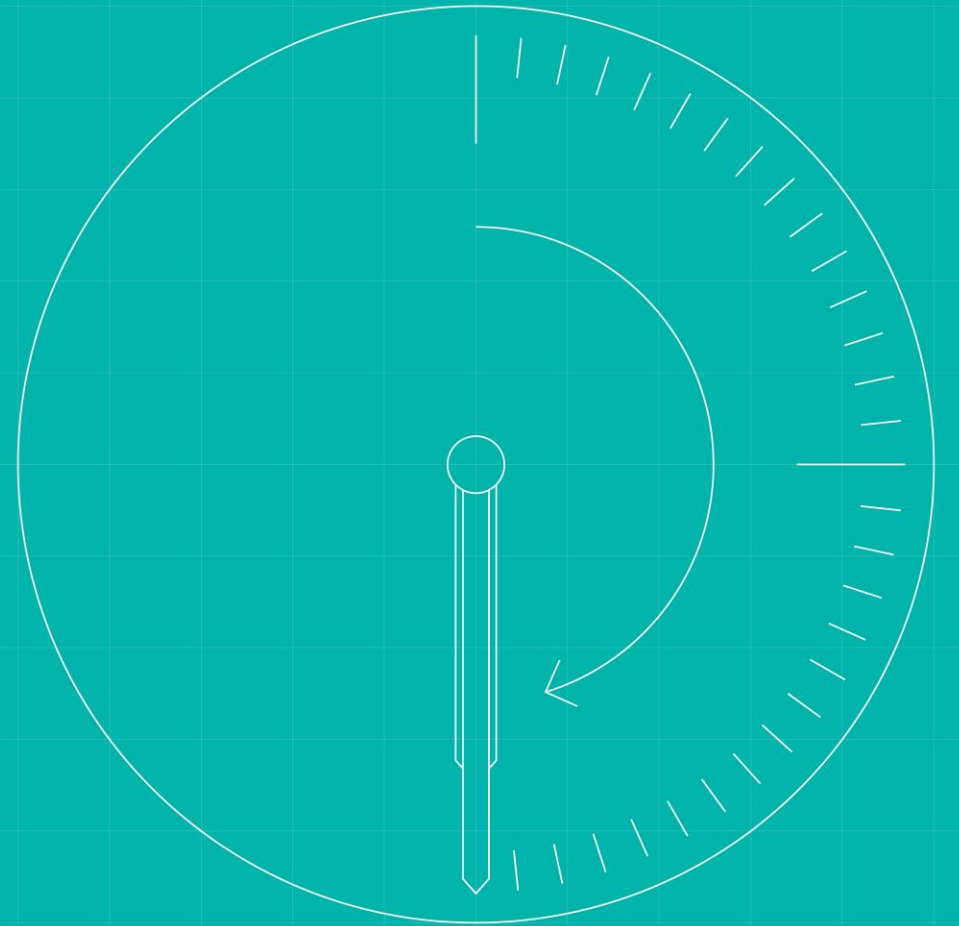
Placeholder – content to be added after paper issuance

Qualification Update

INFORMATION: Update on discussions with code delivery bodies on qualification and activity at the QWG

Elexon & REC Performance Assurance

5 mins



This Month the QWG outlined:

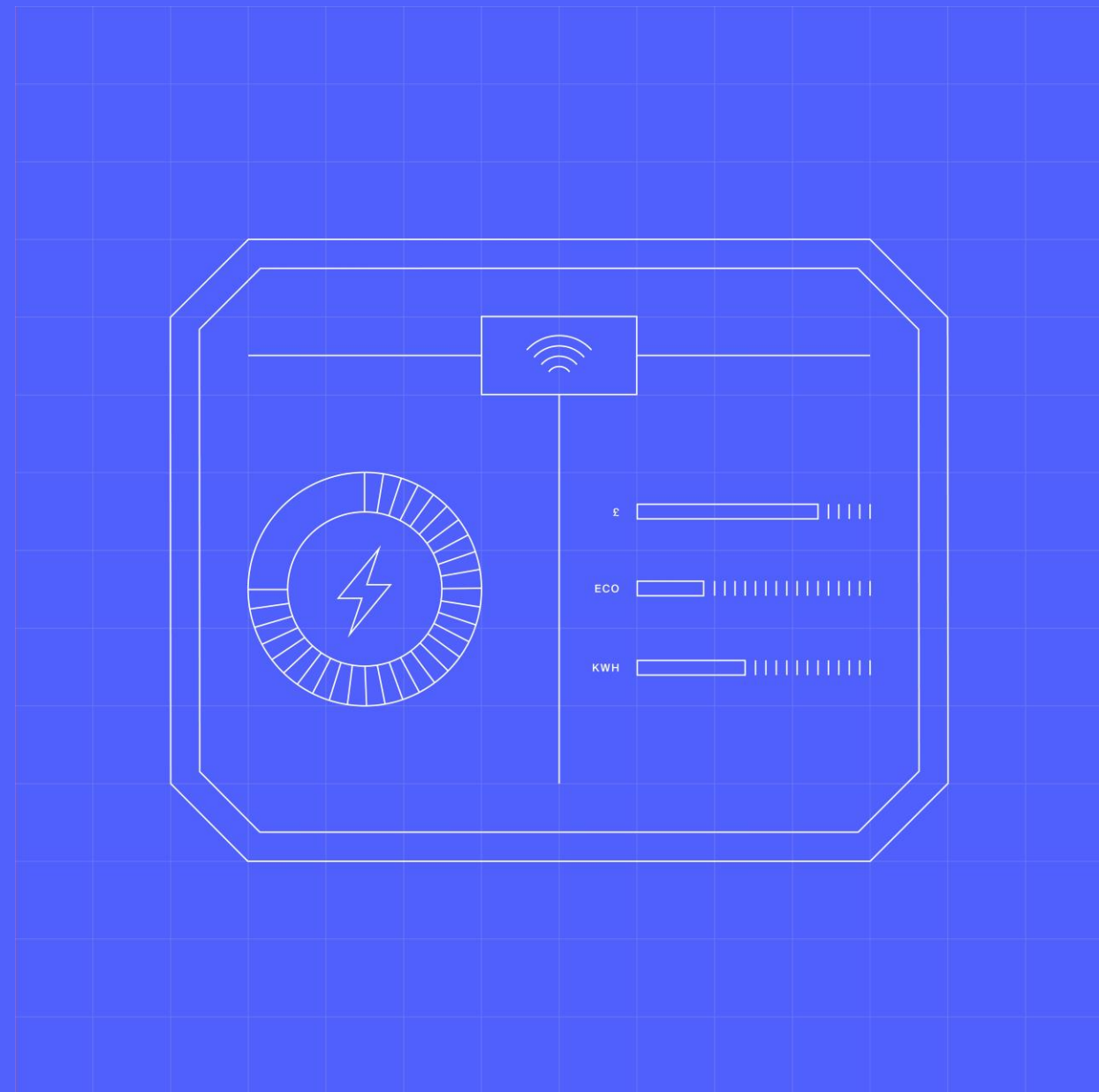
- Qualification Assessment Document (QAD)
- Qualification Approach & Plan (QA&P)
- UIT Environment for Qualification Testing
- Sandbox Update
- Non Completion of MHHS Qualification
- Pre-Qualification Submission
- LDSO Qualification Testing

IPA Test Assurance Period 3

INFORMATION: Update on IPA Test Assurance
Period 3

IPA

5 mins



Status as at 13 December 2023 (P1 - Test Assurance “Period 1” ending August 2023; P2 - “Period 2” ending October 2023; P3 - “Period 3” ending January 2024)

Earlier Report Recommendations

- **P1: 25 actions agreed in total (7 open)**
- **P2: 32 actions agreed in total (20 open)**
- **P3 (Interval 3): 7 actions agreed in total (6 open)**

We meet monthly with LDP to track progress of agreed actions from earlier Testing Assurance reports. The current status of the agreed actions is as follows:

 **In Progress: 33/64**

 **Completed: 31/64**

Of those currently in progress, three are overdue. Good progress has been made on these, but final updates and validation are required to close them. One relates to the version alignment of design information, and two need detail following the update to the CIT approach.

SIT-CIT - ongoing assurance activity

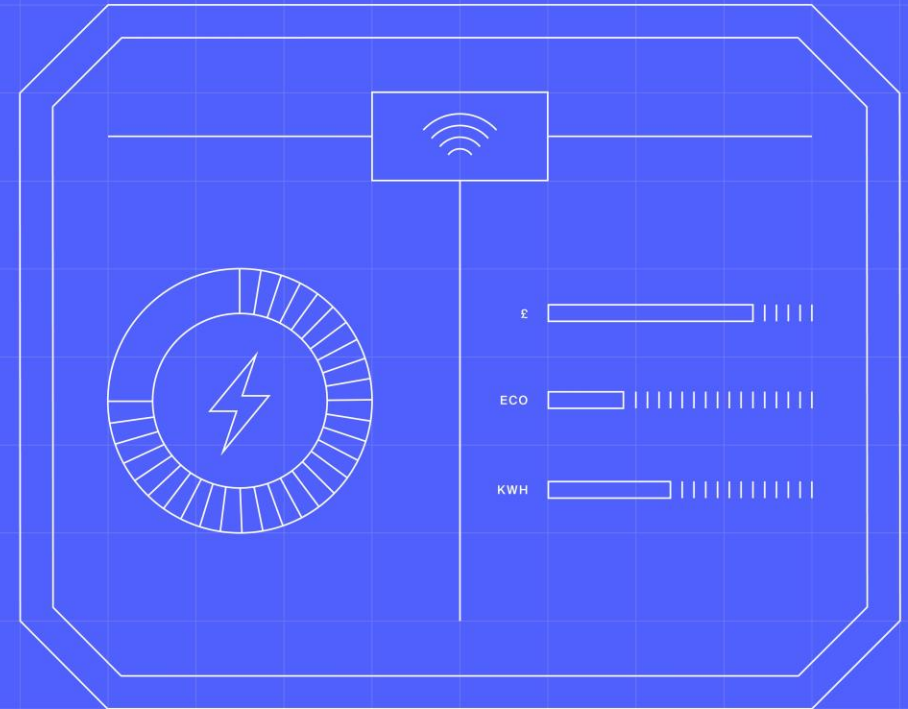
- The IPA are continuing to work closely with the Programme to work through the updated approach to CIT, identifying risks and potential mitigations associated with the remaining CIT activity, as well as to support an effective and efficient SIT Functional testing phase.
- The Programme held a risk review with IPA on 10 Jan which focused on reviewing the plan to SIT Functional and beyond to identify potential areas of risk and collaborate on additional actions that could be taken to reduce these risks.
- The IPA have been reviewing our forward assurance plan and approach to better reflect the new Programme’s updated approach and will be sharing with TMAG following validation.

3 Month Milestone Look Ahead & Milestone Changes

INFORMATION / DECISION: Update on the upcoming Programme milestones related to TMAG and milestone changes coming for approval

Programme (PMO & Workstream leads)

5 mins



Key Milestones and Change – Introduction

- The non-SIT LDSO and qualification testing activities are being reviewed and this will continue into the next period as they are integrated into the Programme Plan. Work has commenced with the Programme team and Code Bodies to review key activities and timelines. This activity is contingent on the approach being agreed with Industry Participants
- Following approval of CR35 (TMAG restructuring) at PSG on 06/12/23 the plan will be updated to reflect these changes and new milestone ownership between the newly formed SITAG and MCAG. These changes will be published in Februarys TMAG.
- The following slides provide a detailed 3-month look ahead of all upcoming programme milestones and any milestone changes

Look Ahead – Key Milestones Status at 10/01/24 (1) *To align to weekly FTIG reporting, the previous, current and forecast RAGs reflect milestone status from last week, this week and next week, respectively.*

Milestone ID	Forum	Milestone Title	Baseline Date	Forecast Date	Responsible	Previous RAG 03/01/24	Current RAG 10/01/24	Forecast RAG 17/01/24	Commentary
T3-TE-0067	TMAG	E2E Sandbox Guidance approved	Fri 04/08/23	Fri 04/08/23	SI Test	Red	Red	Red	Red because awaiting programme decision on Sandbox
T3-QU-0063	BSC PAB & REC Manager	Functional Testing elements of Qualification Approach & Plan approved by REC Manager & BSC PAB	Tue 31/10/23	Tue 31/10/23	Code Bodies	Red	Red	Red	Red because a review of the approach is being undertaken by the programme with the code bodies
T3-TE-0099	TMAG	PPs Register PKI Officers and Request PKI certificates Complete - Interval 3	Fri 10/11/23	Fri 15/12/23	PP	Red	Red	Red	Red because 1 participant yet to complete onboarding
T3-TE-0091	TMAG	Environment Approach and Plan - Non SIT LDSO	Wed 15/11/23	Wed 20/03/24	SI Test	Red	Red	Red	Red because the LDSO element is on hold whilst discussions are being held between Programme and Code Bodies re: LDSO testing. When concluded, that update will be re-planned by agreement with TMAG. Update scheduled for 17/1/24 QWG
T3-DB-0093	TMAG	SIT Functional PIT Test Approach & Plan (PIT) submitted to Programme for assurance	Fri 17/11/23	Fri 17/11/23	PP	Red	Red	Red	Red because not all test approach and plans received. Escalated at FTIG and PSG
T3-DB-0068	TMAG	DCC Test Approach & Plan (PIT) submitted to Programme for assurance	Fri 17/11/23	Fri 17/11/23	PP	Red	Red	Red	Red because not received. Currently no impact.
T3-TE-0100	TMAG	PPs register PKI Officers and Request PKI Certificates Complete - Interval 4	Fri 24/11/23	Fri 24/11/23	PP	Red	Red	Red	Red because 4 participants yet to complete onboarding
T3-DB-0179	TMAG	All UMSO Test scenarios' MHHS Review Completed	Thu 30/11/23	Thu 30/11/23	SI Test	Red	Red	Red	Red because assurance review conducted, but outstanding comments to be addressed

Milestone RAG definitions

Complete	On track	Likely to be met if issues / risks are resolved / mitigated	Date missed or unlikely to be met without escalation
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Look Ahead – Key Milestones Status at 10/01/24 (2) *To align to weekly FTIG reporting, the previous, current and forecast RAGs reflect milestone status from last week, this week and next week, respectively.*

Milestone ID	Forum	Milestone Title	Baseline Date	Forecast Date	Responsible	Previous RAG 03/01/24	Current RAG 10/01/24	Forecast RAG 17/01/24	Commentary
T3-DB-0091	TMAG	SIT Functional PIT RTTM submitted to Programme for assurance	Thu 07/12/23	Thu 07/12/23	PP	Red	Red	Red	Red because not received. Adds risk to SIT Functional. Escalated at FTIG
T3-DB-0089	TMAG	SIT Functional PIT test scenarios submitted to Programme for assurance	Thu 07/12/23	Thu 07/12/23	PP	Red	Red	Red	Red because not received. Adds risk to SIT Functional. Escalated at FTIG
T3-TE-0101	TMAG	PPs register PKI Officers and Request PKI Certificates Complete - Interval 5	Fri 08/12/23	Fri 08/12/23	PP	Red	Red	Red	Red because 9 have yet to complete onboarding
T3-TE-0102	TMAG	PPs register PKI Officers and Request PKI Certificates Complete - Interval 6	Fri 08/12/23	Fri 08/12/23	PP	Red	Red	Red	Red because 2 have yet to complete onboarding
T3-DB-0115	TMAG	DCC Test Approach & Plan (PIT) MHHS Review Completed	Fri 15/12/23	Fri 15/12/23	SI Test	Red	Red	Red	Red because not received
T3-DB-0074	TMAG	DCC RTTM submitted to Programme for assurance	Fri 15/12/23	Fri 15/12/23	PP	Red	Red	Red	Red because not received
T3-DB-0078	TMAG	DCC test scenarios submitted to Programme for assurance	Fri 15/12/23	Fri 15/12/23	PP	Red	Red	Red	Red because of late delivery of PIT approach and plan. No impact. No action
T3-DB-0180	TMAG	All UMISO PIT (CIT interval 6) Completion Reports submitted to Programme for assurance	Fri 05/01/24	Fri 05/01/24	PP	Green	Red	Red	Red because not all received
T3-DB-0023	TMAG	PP PIT Completion Report (excl. Migration/Reverse Migration) submitted to Programme for assurance CIT Interval 6	Fri 05/01/24	Fri 05/01/24	PP	Green	Red	Red	Red because not all received
T3-DB-0139	TMAG	All SIT Functional Test approach and plans MHHS Reviews Completed	Thu 11/01/24	Thu 11/01/24	SI Test	Yellow	Yellow	Yellow	Amber because not all test approach and plans received.
T3-TE-0106	TMAG	SIT Functional Testing Test scenarios (themes 6,7,9) approved	Wed 17/01/24	Wed 17/01/24	SI Test	Green	Green	Green	
T3-TE-0108	TMAG	SIT Functional Testing Test cases (themes 6,7,9) approved	Wed 17/01/24	Wed 17/01/24	SI Test	Green	Green	Green	
T3-DB-0140	TMAG	All SIT Functional RTTMs MHHS Reviews Completed	Thu 18/01/24	Thu 18/01/24	SI Test	Yellow	Yellow	Yellow	Amber due to late delivery of artefact for review

Milestone RAG definitions

Complete	On track	Likely to be met if issues / risks are resolved / mitigated	Date missed or unlikely to be met without escalation
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Look Ahead – Key Milestones Status at 10/01/24 (3) *To align to weekly FTIG reporting, the previous, current and forecast RAGs reflect milestone status from last week, this week and next week, respectively.*

Milestone ID	Forum	Milestone Title	Baseline Date	Forecast Date	Responsible	Previous RAG 03/01/24	Current RAG 10/01/24	Forecast RAG 17/01/24	Commentary
T3-DB-0141	TMAG	All SIT Functional Test scenarios' MHHS Reviews Completed	Thu 18/01/24	Thu 18/01/24	SI Test	Amber	Amber	Amber	Amber due to late delivery of artefact for review
T3-DB-0181	TMAG	All UMSO PIT (CIT interval 6) Completion Reports MHHS Review Completed	Fri 19/01/24	Fri 19/01/24	SI Test	Green	Green	Green	
T3-RE-0350	CCAG	Code drafting for Interfaces / Data Specification topic areas approved	Wed 24/01/24	Wed 24/01/24	PP	Green	Green	Green	
T3-RE-0450	CCAG	Code drafting for Transition Text topic area approved	Wed 24/01/24	Wed 24/01/24	PP	Green	Green	Green	
T3-DB-0116	TMAG	DCC RTTM MHHS Review Completed	Fri 26/01/24	Fri 26/01/24	SI Test	Green	Green	Green	
T3-DB-0117	TMAG	DCC Test Scenarios MHHS Review Completed	Fri 26/01/24	Fri 26/01/24	SI Test	Green	Green	Green	
T3-QU-0011	TMAG	Confirm Qualification Testing for Non-SIT LDSOs (Functional, Migration, NFT, Operational) Participants	Mon 29/01/24	Mon 25/12/23	Code Bodies	Green	Green	Green	
T3-DB-0098	DAG	Interim release 7 Go live	Wed 31/01/24	Wed 31/01/24	SI Design	Green	Green	Green	
T3-TE-0103	TMAG	SIT Functional Connectivity Proving Complete	Fri 02/02/24	Fri 16/02/24	SI Test	Amber	Red	Red	Red because the only connectivity proving required in addition to CIT is ElectraLink DTN. This is an existing solution and the change in dates is not a cause for concern
T3-DB-0024	TMAG	DCC PIT Completion Reports submitted to Programme for assurance	Fri 09/02/24	Fri 09/02/24	PP	Green	Green	Green	
T3-DB-0087	TMAG	All SIT Functional PIT Completion Reports submitted to Programme for Assurance	Fri 09/02/24	Fri 09/02/24	PP	Green	Green	Green	
T3-TE-0079	TMAG	Cycle 1 - PP's confirmation that test data is ready for SIT Functional	Fri 09/02/24	Fri 09/02/24	SI Test Data	Green	Green	Green	
T3-DB-0143	TMAG	All SIT Migration PIT Test Approach & Plans submitted to Programme for assurance	Fri 16/02/24	Fri 16/02/24	PP	Green	Green	Green	
T3-TE-0107	TMAG	SIT Functional Testing Test scenarios (theme 8) approved	Wed 21/02/24	Wed 21/02/24	SI Test	Green	Green	Green	
T3-TE-0109	TMAG	SIT Functional Testing Test cases (theme 8) approved	Wed 21/02/24	Wed 21/02/24	SI Test	Green	Green	Green	
T3-TE-0071	TMAG	SIT Migration Testing Test Scenarios Approved	Wed 21/02/24	Wed 21/02/24	SI Test	Green	Green	Green	

Milestone RAG definitions

Complete	On track	Likely to be met if issues / risks are resolved / mitigated	Date missed or unlikely to be met without escalation
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Look Ahead – Key Milestones Status at 10/01/24 (4) *To align to weekly FTIG reporting, the previous, current and forecast RAGs reflect milestone status from last week, this week and next week, respectively.*

Milestone ID	Forum	Milestone Title	Baseline Date	Forecast Date	Responsible	Previous RAG 03/01/24	Current RAG 10/01/24	Forecast RAG 17/01/24	Commentary
T3-DB-0118	TMAG	DCC PIT Completion Report MHHS Review Completed	Fri 23/02/24	Fri 23/02/24	SI Test	Green	Green	Green	
T3-DB-0142	TMAG	All SIT Functional PIT Completion Reports MHHS Review Completed	Fri 23/02/24	Fri 23/02/24	SI Test	Green	Green	Green	
T3-TE-0032	TMAG	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	SI Test	Green	Green	Green	
T2-TE-0550	TMAG	SIT Functional Testing Preparation Complete	Fri 01/03/24	Fri 01/03/24	SI Test	Yellow	Yellow	Yellow	Amber because of additional industry development for IR5.2
T3-QU-0064	BSC PAB & REC Manager	Migration Testing elements of Qualification Approach & Plan approved by REC Manager & BSC PAB	Wed 06/03/24	Wed 06/03/24	Code Bodies	Green	Green	Green	
T3-DB-0145	TMAG	All SIT Migration PIT RTTMs submitted to Programme for assurance	Thu 07/03/24	Thu 07/03/24	PP	Green	Green	Green	
T3-DB-0147	TMAG	All SIT Migration PIT test scenarios submitted to Programme for assurance	Thu 07/03/24	Thu 07/03/24	PP	Green	Green	Green	
T2-TE-0600	TMAG	SIT Component Integration Testing Test Completion Report Approved	Fri 08/03/24	Fri 08/03/24	SI Test	Green	Green	Green	
T3-TE-0034	TMAG	SIT Functional Testing Start	Mon 11/03/24	Mon 11/03/24	SI Test	Yellow	Yellow	Yellow	Amber because of additional industry development for IR5.2
T3-TE-0092	TMAG	Environment Approach and Plan - SIT Non Functional	Wed 20/03/24	Wed 20/03/24	SI Test	Green	Green	Green	
T3-TE-0093	TMAG	Environment Approach and Plan - Qualification and Sandbox	Wed 20/03/24	Wed 20/03/24	SI Test	Green	Green	Green	
T3-TE-0025	TMAG	SIT Migration Testing Test Cases Approved	Wed 20/03/24	Wed 20/03/24	SI Test	Green	Green	Green	
T3-TE-0026	TMAG	SIT Non-Functional Testing Test Approach & Plan approved	Wed 20/03/24	Wed 20/03/24	SI Test	Green	Green	Green	
T3-MI-0023	TMAG	TMAG approval of cut-over plan	Wed 20/03/24	Wed 20/03/24	SI Migration	Green	Green	Green	
T3-DB-0182	TMAG	DIP Simulator uplifted to align with Interim Release 7	Fri 22/03/24	Fri 22/03/24	SI DevOps	Green	Green	Green	

Milestone RAG definitions

Complete	On track	Likely to be met if issues / risks are resolved / mitigated	Date missed or unlikely to be met without escalation
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Key Milestones Change at 10/01/24

To align to weekly FTIG reporting, the previous, current and forecast RAGs reflect milestone status from last week, this week and next week, respectively.

Milestone ID	Responsible	Change Type	Milestone Title	Baseline Date	Forecast Date	Previous RAG 03/01/24	Current RAG 10/01/24	Forecast RAG 17/01/24	Commentary
T3-TE-0027	SI Test	Remove	SIT Participants' SIT-Staging environments ready to start connectivity proving (incl. certificates and security compliance)	Tue 02/01/24	Tue 02/01/24	Red	Red	Red	In process of re-planning SIT Staging activities. It is anticipated that tasks will be able to be removed. N.B. There will be no connections from staging Ens to the DIP and therefore no Security Certs required. To go to Jan TMAG for removal
T3-BC-0010	SI Design	Date Change	Service Management Strategy approved	Wed 21/02/24	Tue 27/02/24	Green	Red	Green	Red because MCAG has been scheduled for 27/2. To go to Jan TMAG for date change

Milestone RAG definitions

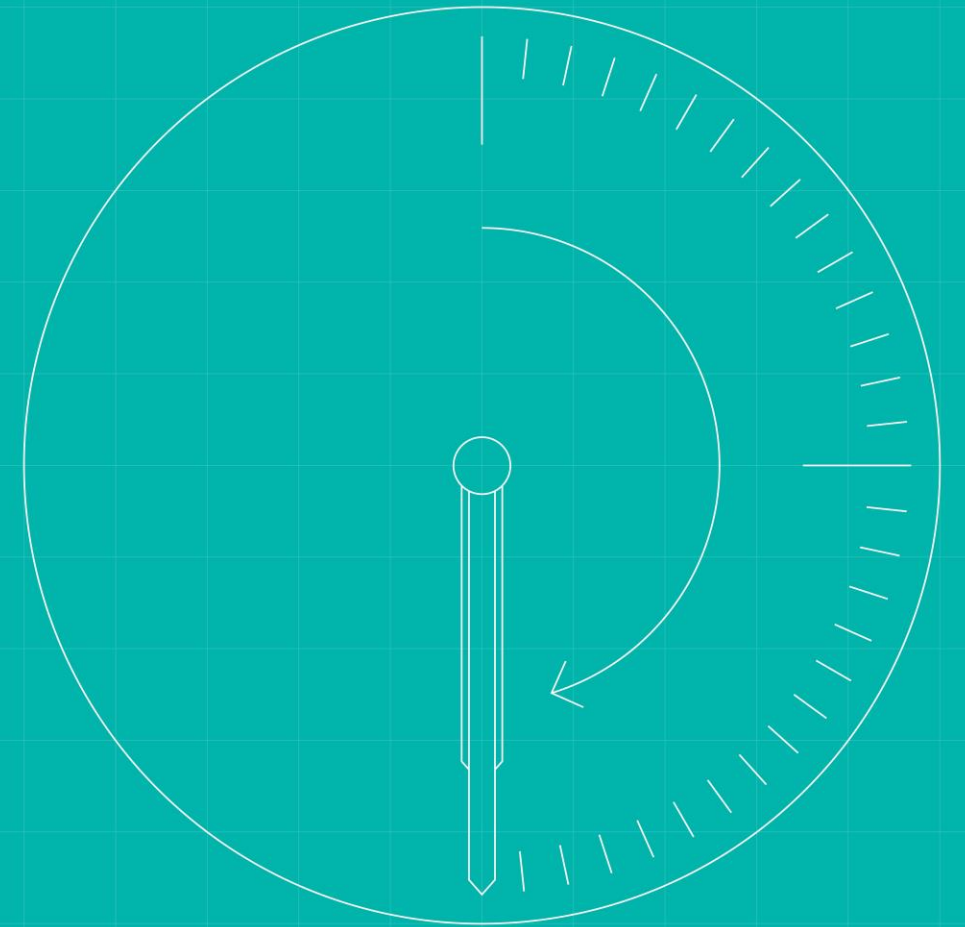
Complete	On track	Likely to be met if issues / risks are resolved / mitigated	Date missed or unlikely to be met without escalation
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Top Programme Risks related to TMAG

INFORMATION: Update on the top Programme risks related to TMAG

Programme (PMO & Workstream Leads)

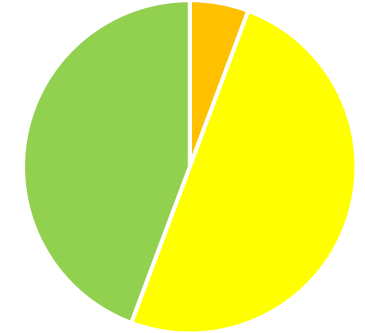
10 mins



Top Programme Risks Related to TMAG

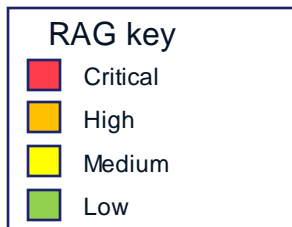
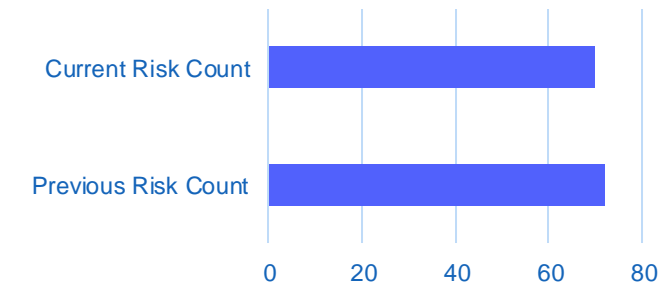
Risk/ Issue ID	Risk description	Risk impact	RAG	Mitigation
R677	There is a risk that performance testing of the migration functionality within MPRS identifies an issue that cannot be resolved in time for SIT and non-SIT LDSO Non-Functional Testing	If Performance Testing identifies that LDSO hardware is insufficient to meet Migration Volumes and a platform upgrade is required, the timelines for this upgrade could exceed M10, potentially requiring a Migration replan	High	<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 Early performance testing of the Change of Service Process in 2023 which has some shared functionality with Migration. 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.
R695	There is a risk that Code Bodies will not have completed planning and preparation activities in time for S+A to commence Qualification Testing on time	Delays to starting and completing Qualification impacting the ability of Suppliers to start migration with their preferred service providers	High	<ol style="list-style-type: none"> Supplier and Agent high level plan in place from Code Bodies and communicated to PSG and QWG, which needs to be monitored for delivery. Additional resource for QAD support has been mobilised by Elexon Code Bodies have presented supporting plan for key qualification deliverables (QA&P & QAD) and updated QA&P and lower-level approaches are being developed.
R532	There is a risk that SIT participants will need to execute additional Qualification Testing in order to qualify	If there is additional testing required for Qualification over and above SIT, then participants will need to undertake additional Qualification testing (which undermines a key programme assumption and would require replanning)	High	<ol style="list-style-type: none"> MHSP in discussion with Code Bodies to confirm their requirements to build these into SIT so that any testing is done in SIT and no testing is outstanding, as per Assumption A165 SIT Team to review Qualification material Qualification Team to review SIT material PSG (06/12) highlighted there has been good engagement with RECCo and how well the collaboration is currently working to mitigate this risk Linked to R567 and R584 where BSC PAB are yet to determine if Suppliers not serving UMS have to test UMS
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	Failure to be able to support Supplier migration plans will impact the overarching M15 milestone and/or early realisation of MHHS benefits.	High	<ol style="list-style-type: none"> Ensure that NFRs for migration activities are understood and committed to by all large Supplier Agents Sign-off revised migration NFRs at TMAG. Ensure NFR testing in SIT is robust. NFR testing for each large Supplier Agent in qualification is robust. 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

TMAG related risks RAG



■ High risks ■ Medium risks ■ Low risks

TMAG risk count



Summary and Next Steps

INFORMATION: Summarise actions/decisions and look ahead to the next SITAG

Chair and Secretariat

5 mins

Summary and next steps

Next steps:

1. Confirm actions and decisions from meeting
2. Date of inaugural SITAG: 21 February 2024

SITAG Agenda Roadmap – a rolling view of upcoming SITAG agenda items:

Meeting dates	21-Feb
Relevant milestones or activities	<ul style="list-style-type: none">• SIT Functional Test Scenarios and Test Cases (Theme 8)
Agenda items	<ul style="list-style-type: none">• Revised Qualification Plan• SIT Functional Test Scenarios and Test Cases• SIT Functional Test Scenarios and Test Cases (Theme 8)• SITAG Terms of Reference• Qualification Update
Standing items	<ul style="list-style-type: none">• Minutes and actions review• Programme updates• Working group report• 3 Month Milestone Look Ahead & Milestone Changes• Top Programme Risks related to TMAG• Next steps and agenda roadmap

If you would like to propose an agenda item for the inaugural SITAG, please contact the PMO (PMO@mhhsprogramme.co.uk)