



MHHS
PROGRAMME

Industry-led, Elexon facilitated

Testing and Migration Advisory Group (TMAG) #16 15 March 2023

Version 1.0

MHHS-DEL1056

Agenda

#	Item	Objective	Type	Lead	Time	Page	
1	Welcome			Chair	10:00-10:05 5 mins		
2	Minutes and actions	Approve minutes. Update on open actions, closing where appropriate	Decision	Chair and Secretariat	10:05-10:10 5 mins	3	
3	Programme updates	Provide updates from L2/3 governance groups and wider Programme activity	Information	Programme PMO	0 mins	5	
4	Working group report	Provide updates from discussion at the DWG, MWG, EWG, QWG, SITWG, NFTWG and MDSG	Information	Working group leads	0 mins	7	
5	Migration/ Transition	Data Cleanse Plan	Provide overview of plan scope and timescales	Information	John Wiggins	10:10-10:15 5 mins	9
6		Migration, Cutover and Data Strategy	Update on progress to date	Information	John Wiggins	10:15-10:20 5 mins	13
7	Testing	SIT scope	<ul style="list-style-type: none"> Update on SIT Scope document Update on plans to update and rebaseline the MHHS E2E Testing and Integration Strategy 	Information	Kate Goodman	10:20-10:35 15 mins	17
8		Placing Reliance Policy update	Provide status of Placing Reliance Policy for review ahead of planned approval at 28 March extraordinary TMAG	Information	Dom Mooney	10:35-10:50 15 mins	19
9		Test Data Approach and Plan	Update on progress of the Test Data Approach and Plan ahead of decision at May TMAG	Information	Kate Goodman	10:50-10:55 5 mins	21
10		NFTWG update and ToR approval	Update on the first Non-Functional Testing Working Group (NFTWG) and approve the meeting ToR	Decision	Nigel Hunt	10:55-11:00 5 mins	23
11		Qualification update	Update on discussions with code delivery bodies on qualification and activity at the QWG	Information	Elexon & REC Performance Assurance	11:00-11:05 5 mins	25
12	Summary and next steps	Summarise actions/decisions and look ahead to the next TMAG	Information	Chair and Secretariat	11:05-11:10 5 mins	27	

Attachments

- Attachment 1 - NFTWG Terms of Reference

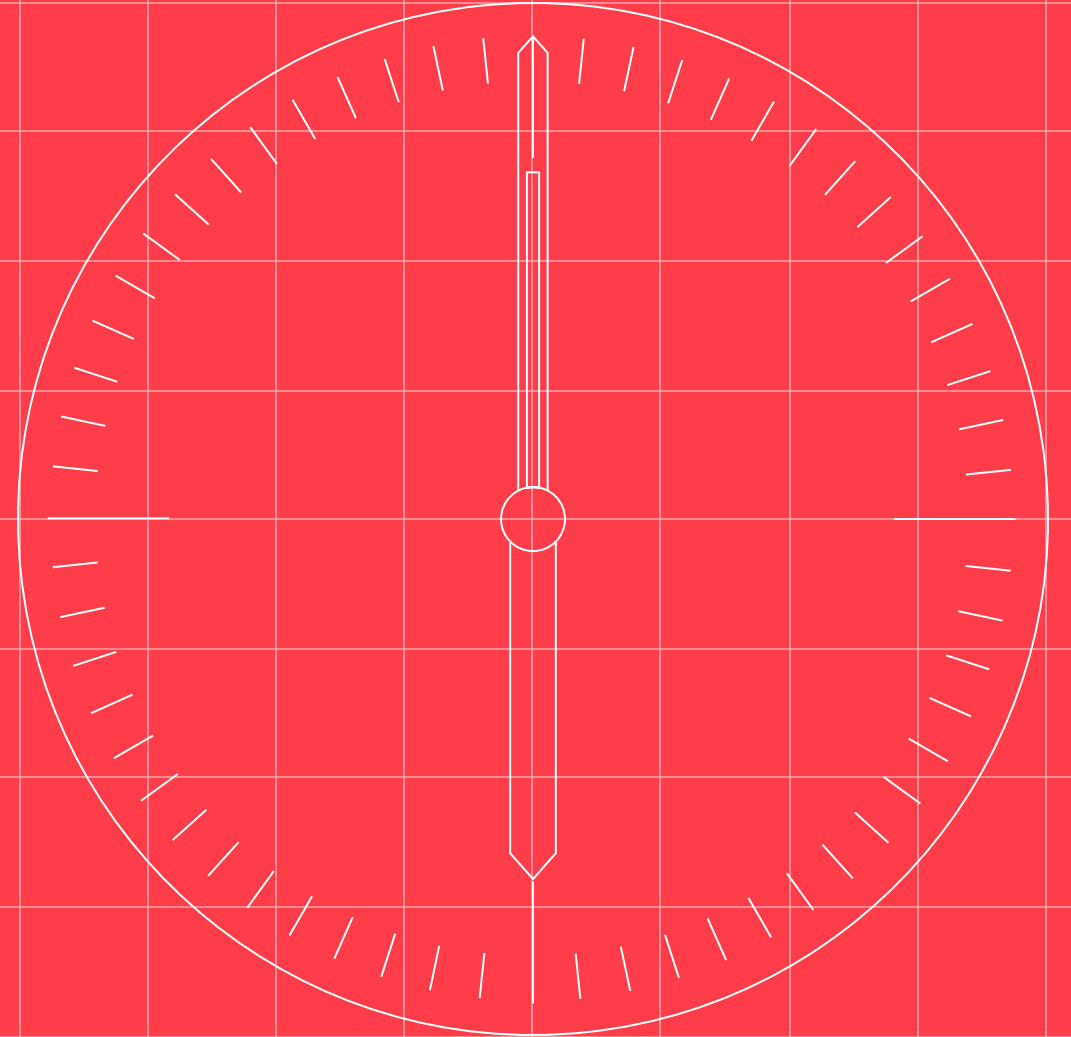


Minutes and actions

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

Chair and Secretariat

5 mins



Minutes and Actions review

1. **Approval of Minutes** from 15 February and 28 February TMAGs
2. **Open Actions and Actions from previous TMAG** (actions will be discussed by exception. Please review the action updates ahead of the meeting)

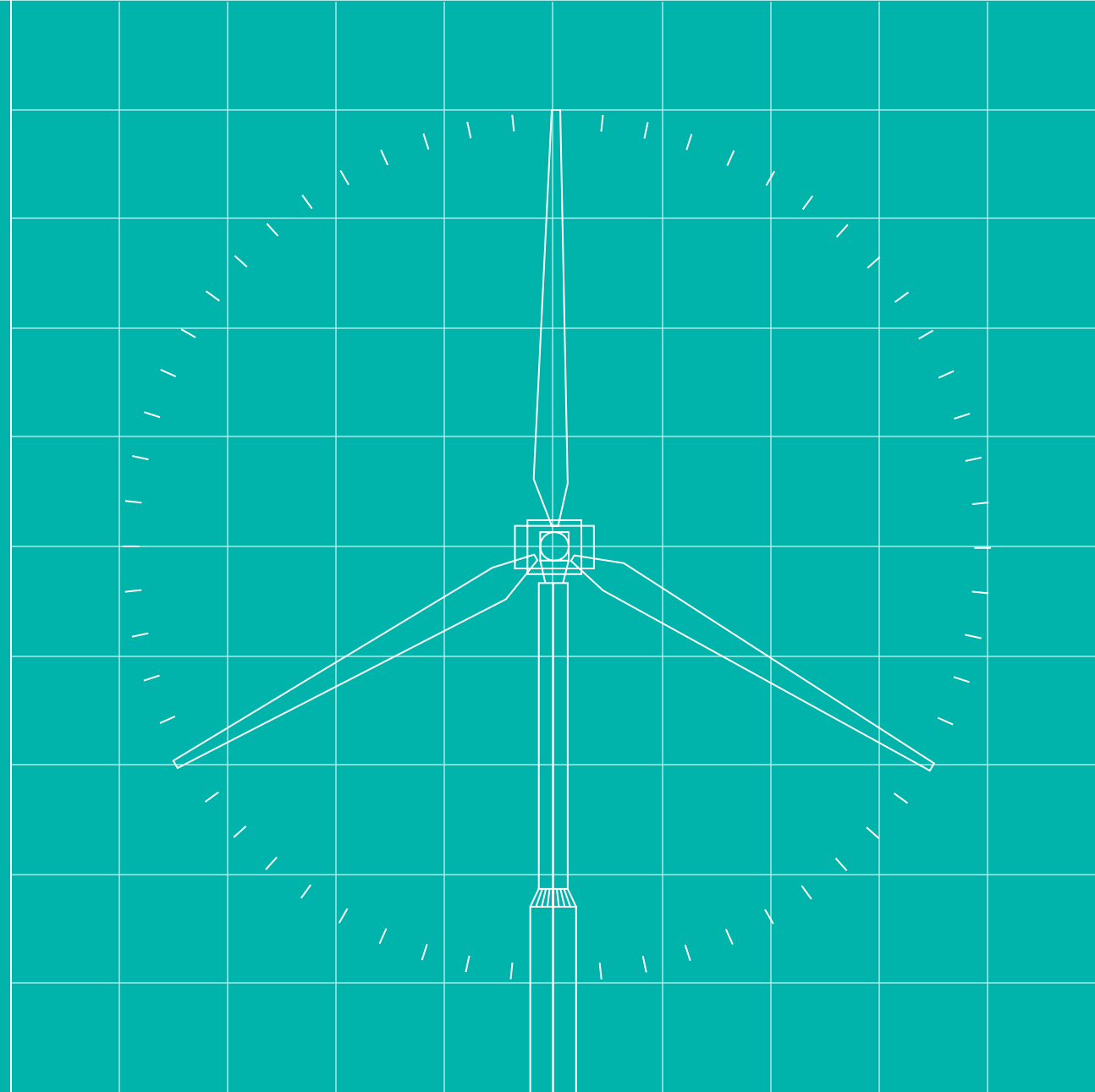
Ref	Date	Action	Owner	Due	Status	Latest Update
TMAG14-01	15/02/23	Discuss offline SIT scope and requirements for Elexon	Matt Hall, Simon Berry, Kate Goodman	15/03/23	Recommend closed	Meeting held
TMAG14-02	15/02/23	Include a Migration Design update in the Working Group Progress report	Programme PMO	15/03/23	Recommend closed	Migration Design update incorporated into Working Group Progress report

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)

Update from PSG 01 February 2023

- Avanade introduction:** The new DIP provider, Avanade, provided an overview of themselves and their DBT plan
- Status updates:** The PSG heard updates on progress of the M5 Work-Off Plan (which was being proposed for sign off at DAG) and Round 3 of consultation on the Programme plan (which had an excellent response rate with a positive outlook for SIT).
- Benefits Realisation Plan:** The PSG discussed the approach to benefits realisation post-go live and approved the updated Benefits Realisation Plan
- Change Control:** The PSG approved CR013, agreed to raise CR015 to Impact Assessment, and heard an update on the outcome of CR016
- Working Group Engagement:** The PSG discussed analysis on the engagement of constituencies and the organisations within them at the various MHHS Working Groups.

PSG papers available [here](#).

Testing and Migration Advisory Group (TMAG)

Update from TMAG 15 February 2023

- Data Assessment Report:** The Programme updated on progress of the Data Assessment Report ahead of planned approval at an extraordinary TMAG on 28 February
- Environments Approach and Plan:** The TMAG reviewed and approved the uplifted draft v2.2 of the Approach and Plan
- TMAG future:** The TMAG agreed to maintain TMAG but to split the meeting in two halves for Test and Migration, with an option for constituencies to have co-representation for each
- Working group updates – Updates were provided on activity at the Qualification, Systems Integration Testing and Non-Functional Testing Working Groups

TMAG papers available [here](#)

Design Advisory Group (DAG)

Updates from DAG 16 February 2023

- M5 Work-Off Plan:** DAG agreed the M5 Work-Off Plan could be closed, noting the resolutions to each work-off item and the next forward actions. Full details of the resolutions to each item can be found within the [M5 Work-Off Plan - Final DAG Report v2.0](#) and minutes of the DAG meetings held 01, 08, and 16 February 2023.
- Re-Baseline of MHHS Design Artefacts:** DAG unanimously agreed to the re-baselining of the MHHS Design Artefacts, following updates made as part of the closure of the Work-Off Plan and BPRWG & TDWG Design Assurance Forums. The baselined Design Artefacts can be found on the [MHHS website](#).
- Programme Change Requests (CR):** DAG discussed new CR018 (Registration Service Operating Hours) which has been raised to accompany CR017 (LDSO Registration Service Dip messages processing times). DAG requested amendments to CR018 and the change resubmitted for a decision on issuance to impact assessment alongside CR017.

DAG papers available [here](#)

Cross Code Advisory Group (CCAG)

Update from CCAG 22 February 2023

- Horizon Scanning Log:** BSC Modification P432 has been approved and issued to Ofgem for decision. The change is dependent on DCUSA CP415 and decision timeframes are unknown at present. REC Change Proposal R044 has been approved, which facilitates provision of the new Meter Data Retrieval (MDR) role. New REC changes have also been raised as a result of detailed design work ongoing by the DCC (see R093 & R097).
- Ofgem Code Designation Update:** Ofgem advised of a current preference to utilise Significant Code Review (SCR) powers to implement the code change required to give effect to MHHS. Other options are available and Ofgem continue to work with the Programme to ensure the most effective method is used.
- Code Drafting Replan:** Changes are required to the Code Drafting Plan following comments received as part of the wider Programme Replan. Key changes will include increased time for code drafting and associated consultations.

CCAG papers available [here](#)

Wider Programme updates

Programme replan

Round 3 consultation is closed. **Round 3 Artefacts** are still available on the [Planning page of the MHHS website](#) for reference. You can also view **Planning Playbacks** slides and recordings on the [Events page](#).

On **Wednesday 1 March 2023**, the Programme team will inform the Programme Steering Group (PSG) of a one-month extension to the Programme's Replan release date. This means a Replan Change Request will now be issued to industry for Impact Assessment following the PSG on **Wednesday 5 April 2023**.

The proposed date for Milestone 9 (M9) remains unaltered from the Round 3 consultation, whilst acknowledging that there is still some risk to that date whilst we work with a number of parties on the critical path to confirm their alignment to that date. We've received very encouraging Round 3 responses which confirm that many industry participants will be ready for Systems Integration Testing (SIT)

Webinars

- Webinar:** [Systems Integration Testing \(SIT\) Participation](#), 23 February
- Webinar:** [Introduction to the Data Integration Platform \(DIP\)](#), 28 February

Re-baselined MHHS Design Artefacts:

At the Design Advisory Group on 16 February, the DAG unanimously approved the Design Artefacts to be re-baselined. The design is now under Change Control. Design Artefacts are published on the respective Design Artefacts pages of the [Collaboration Base](#) and the [MHHS website](#).

Consultation reminder:

- Migration Design Artefacts:** consultation on Migration Design Artefacts closes on 24 February. Migration Design pages of the [MHHS website](#) and the [Collaboration Base](#) provide information about the consultation.
- Code Drafting:** consultation on Code Drafting Artefacts is open until 13 March. Outstanding artefacts will be issued on 24 February Visit the [Code Artefacts page of the MHHS website](#) for more information

DIP simulator

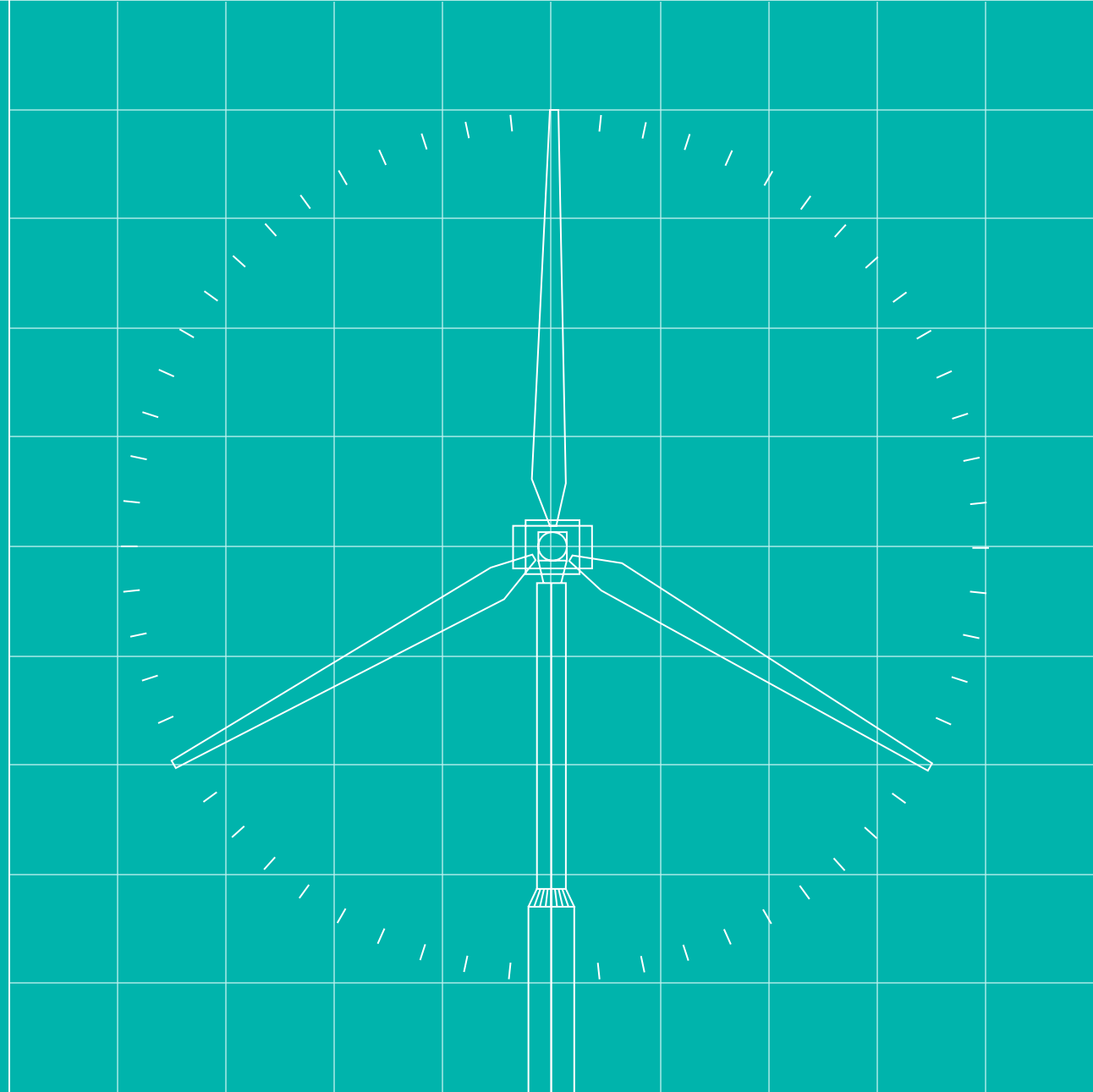
The Programme is producing a range of testing. This is being scheduled to incorporate Version 5 of the Design. Information on Release 1 will follow. Simulators and Emulators Testing tools are provided for final validation in testing. We encourage participants to start and continue testing ahead of Release 1. 16 participants have requested early access to the current version of DIP Simulator. If you would like early access, email Sims.Ems@mhsprogramme.co.uk

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



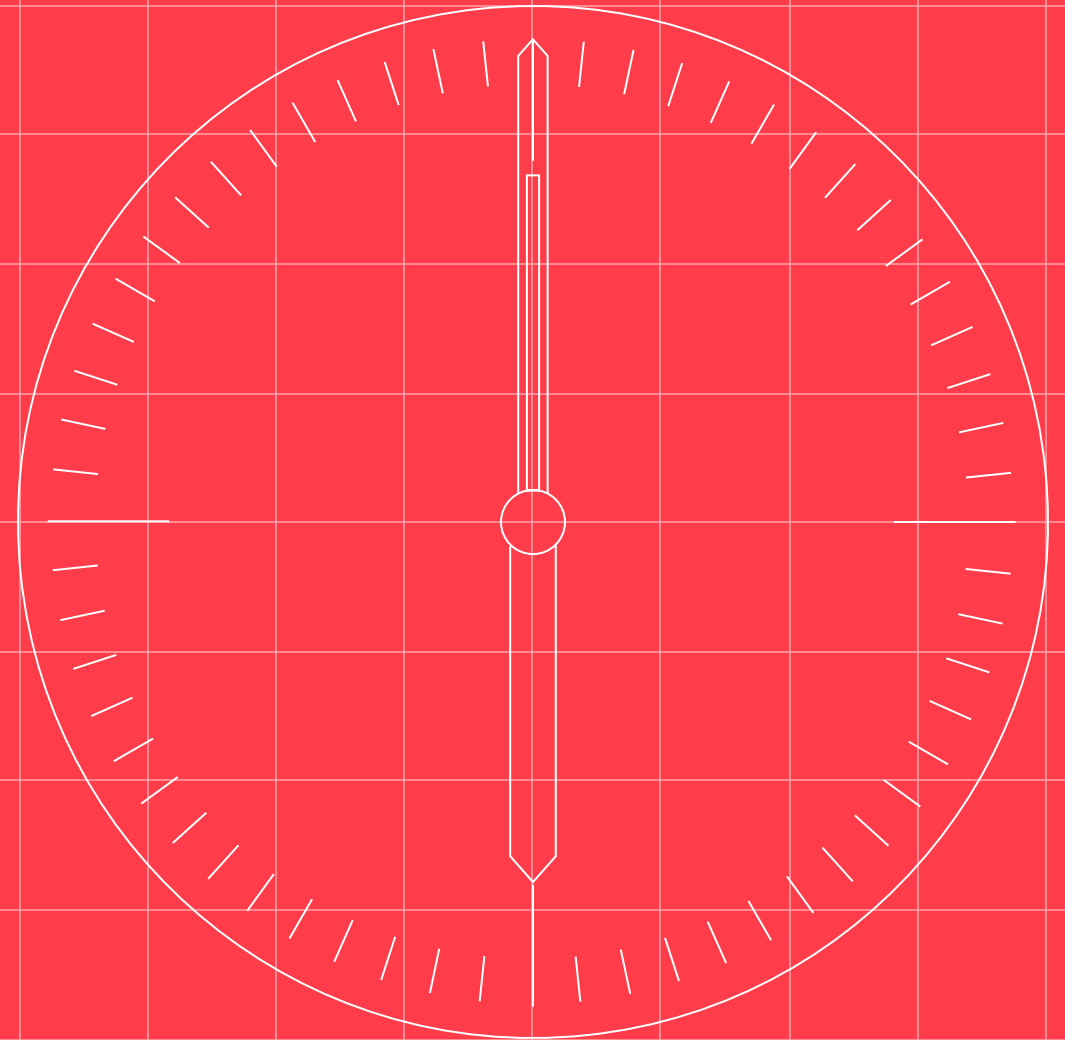
	Data Working Group (DWG)	Migration Working Group (MWG)	Environments and Configuration Management Working Group (EWG)	Qualification and E2E Sandbox Working Group (QWG)	Systems Integration Test Working Group (SITWG)	Non-Functional Testing Working Group (NFTWG)	Migration Design Sub-Group (MDSG)
Upcoming deliverables	<ul style="list-style-type: none"> Overall Test Data Approach and Plan (planned February 2023, to come to March TMAG) 	<ul style="list-style-type: none"> Data Assessment Report (planned 28 February 2023, to come to extraordinary February TMAG) Migration Cutover and Data Strategy (planned 28 April 2023, to come to April TMAG) 	<ul style="list-style-type: none"> Environments Approach and Plan (final version planned to come to TMAG for decision) 	<ul style="list-style-type: none"> Qualification Test Approach and Plan (planned to come to May 2023 TMAG) 	<ul style="list-style-type: none"> CIT & Functional Test Approach & Plans (Apr 23) CIT & Functional Test Scenarios (May 23) CIT & Functional Test Scripts (Aug 23) 	<ul style="list-style-type: none"> Meeting Terms of Reference (to come to March TMAG) 	<ul style="list-style-type: none"> Red-lined Migration Design Artefacts Updated Migration Design Artefacts
Next meeting's agenda items	<p>02 March 2023</p> <ul style="list-style-type: none"> Introduction to Data Lead Overall Test Data Approach & Plan update Data Assessment Report Update 	<p>09 March 2023</p> <ul style="list-style-type: none"> Data Cleanse Plan Migration Strategy MPAN Profiling 	<p>07 March 2023</p> <ul style="list-style-type: none"> Environments Proving Environments Approach and Plan Release and Configuration Approach and Plan 	<p>14 March 2023</p> <ul style="list-style-type: none"> Organisation vs MPID Approach to Qualification Scope Qualification Approach and Plan Product Description Qualification PoaP for delivery of Qualification Approach and Plan RACI for Qualification Approach to Tranches Placing Reliance Update on PIT Guidance 	<p>02 March 2023</p> <ul style="list-style-type: none"> SIT Scope document Placing Reliance policy Software provider Programme Participant relationship Scenarios and test cases PIT guidance Update on CIT and functional test approach and plans 	<p>21 March 2023</p> <ul style="list-style-type: none"> PIT Assurance Timelines PIT Approach and Plan 	<p>Activity in next month:</p> <ul style="list-style-type: none"> Feedback highlights from Migration Design Consultation Transition Design Overview
Agenda items from last meeting	<p>The February DWG has been stood down due to proximity to the previous DWG and no agenda items</p>	<p>09 February 2023</p> <ul style="list-style-type: none"> Data Assessment Report Advanced Meters Import / Export Meters 	<p>07 February 2023</p> <ul style="list-style-type: none"> Update on Environment Approach & Plan Update on Release & Configuration Management Approach 	<p>14 February 2023</p> <ul style="list-style-type: none"> Code Requirements for qualifications High-level principles for MHHSP Overview of roles to undertake MHHSP Qualification Suggested structure for Qualification Assessment Document PIT Guidance 	<p>16 February 2023</p> <ul style="list-style-type: none"> SIT scope to support participants' planning Policy position on placing reliance and equivalence Initial review of key principles and sections of the CIT & Functional Test Data Approach & Plan 	<p>21 February 2023 – first meeting</p> <ul style="list-style-type: none"> NFTWG Terms of Reference Introduction to NFT Non-Functional Requirements Non-Functional Testing in PIT 	<p>Activity in last month:</p> <ul style="list-style-type: none"> Forward and Reverse Migration of Unmetered MPANs Appointment Lead Times as part of CoA D0151 SLAs Clock Time vs UTC Playback of Key Themes from Consultation Feedback
TMAG escalations	None	None	None	None	None	None	None

Data Cleanse Plan

INFORMATION: Provide overview of plan scope and timescales

John Wiggins

5 mins



Data Cleanse Plan Introduction

- The Data Cleanse Plan is set out in section C of the BSC.
- The plan will identify, in detail, each activity that needs to be completed to support the new arrangements.
- The plan will build on the recommendations in the Data Assessment Report.
- Each Activity will be supported by a clear plan describing:
 - Responsibility of each participant
 - Target end state and means of measurement and monitoring approach
 - Dates for commencement and completion (and any other required milestones)
 - Reliance on other industry initiatives – e.g. CP1558, UMS data cleanse (supporting move to HH)

MWG

- The March MWG will review the draft plan and seek feedback in the meeting and afterwards.
- Bilateral or focused meetings with participants will be offered to anyone who wishes to discuss the creation of the plan in more detail.

TMAG

- TMAG will approve the plan, a draft version of the plan will be presented to the April TMAG.
- A finalised plan will be presented for approval at the May TMAG.

Key Activities and Participant Feedback related to the Data Assessment Report

MTDs

- A means of MTD population will need to be undertaken within the Registration Service. (Post REC and BSCP June 2023 implementation).
- The role of Supplier, MEM, LDSO, DCC will need to be determined.
- The most effective approach needs to be determined, based on cost, outcomes, timescales etc.

ISD/MDD

- Alignment needs to be agreed with the Transition Design of ISD / MDD (the design will be progressed using the MDWG).
- A plan will then be produced to support the design requirements.

Registration Data

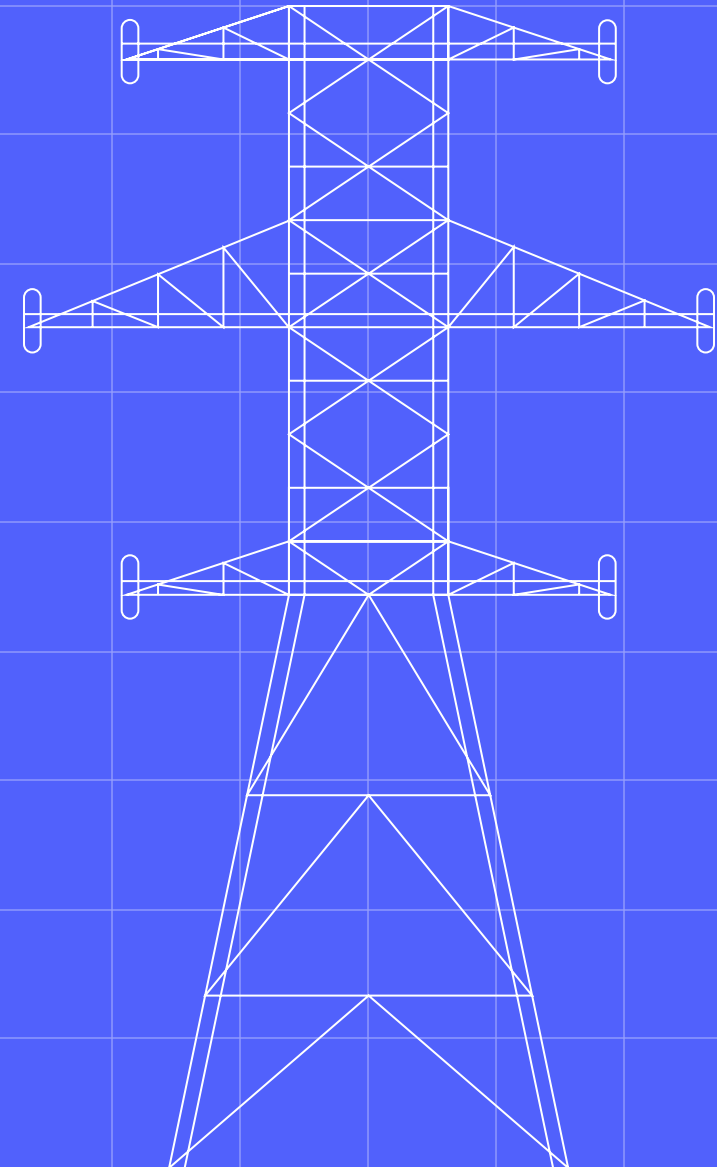
- Planning needs to align with implementation of June 2023 changes.
- Approach to data population and rules for population need to be documented and form the basis of additional activities required to be set out in the plan post June 2023.
- Note: Some activities may require data migration/population activities to support cut-over such as population of Market Segment data into EES and other services.

Migration, Cutover and Data Strategy

INFORMATION: Update on progress to date

John Wiggins

5 mins



Migration Design - Technical Solution

- The Migration Design activities did not identify a compelling rationale to develop a technical solution which would support the exclusion of certain MPANs based on Market Segment etc.
- A technical solution, which would be capable to excluding MPANs, would need to have been developed within the CSS as Reverse Migration is initiated by a supplier operating in Legacy arrangements initiating a Switch for a MPAN currently operated under the new MHHS arrangements.
- A technical solution would be costly and complex to implement within the CSS (and throw away post M14).

Migration Design – Business Process Controls

- Several 'edge case' scenarios have been identified, by participants, where a Reverse Migration should not take place. Those scenarios now require further investigation to develop the rationale for exclusion.
- It is proposed that in place of a technical design to prevent Reverse Migration, a set of policies will be developed which will set out which MPANs should not be subject to Reverse Migration, represented in the Migration Approach.
- As the Supplier initiates a Reverse Migration via a Switch, the responsibility will then be placed on the Supplier, via controls within their own business to prevent initiation under those scenarios.

Identification and evaluation of Scenarios for exclusion

- The decision to exclude certain scenarios from Reverse Migration needs to consider the following:
 - Impact on quality of industry data and processes (which will have a settlement and consumer impact).
 - Impact on consumer choice and competition.
 - Any rationale needs to be evidence based and clearly defined, weighted against the above criteria.

Scenarios identified to date

- Unmetered Supplies
- Complex Sites, Pseudo MPANs, Private Networks
- Participants may have other scenarios that they wish to table for consideration.
- Please document risks and rationale, then send to the migration mailbox for consideration.
- Further bilateral or wider participant discussions will be offered to develop policy for consideration by MWG.

Migration Message Volumes - NFRs

- The Migration Approach will set out the NFRs required by participants services to support migration.
- Registration Services, CSS, Smart Metering will be subject to significantly higher message volumes than those experienced under legacy arrangements (and the volumes to be experienced under MHHS BAU).
- The Migration Profile will enable the creation of NFR volumes, by service, to be reflected in code (e.g. REC CR 093).

Profile planning sensitivities

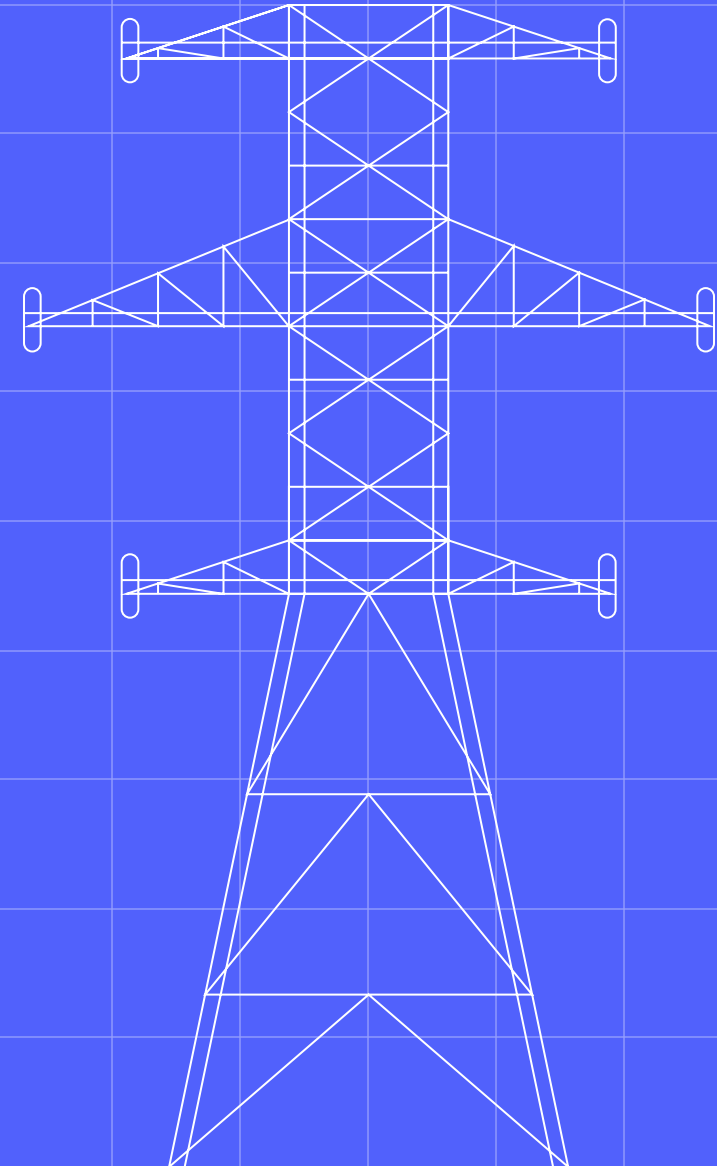
- The period under which migration will occur (assumption 18 months between M11 and M15).
- When Suppliers will become qualified and the respective size of those Suppliers.
- The speed at which Suppliers wish to migrate post their qualification.
- The daily thresholds under which centralised services should operate, which need to be reasonable
- Customer Own Agents

SIT Scope

- **INFORMATION:**
- Update on SIT Scope document
- Update on plans to update and rebaseline the MHHS E2E Testing and Integration Strategy

Kate Goodman

15 mins





SIT Scope for Voluntary Participants' Planning

- Document has been renamed MHHS-DEL872 - SIT Scope for Voluntary Participants' Planning
- It is being updated and **is being issued in week commencing 6 March** (participants will be notified when it is available)
- We have the response to some (but not all) design queries
- We are issuing the document with a marker against each point that is subject to a design query so that participants can see clearly where updates *may* be made in future
- Main updates made are clarifications on:
 - Change from test coverage being very wide to a more **risk-based test** scope (eg an SDS has to demonstrate at least one different estimation method rather than all possible methods)
 - **Scope of DBT1 and DBT2**, including an example provided by a Supplier
 - Meaning of “**intake of a PUB message**” (that sending back the correct http response to the DIP is the success criterion)
 - **Use of adaptors** in SIT (where it may be possible to use *only* an adaptor)



E2E Testing & Integration Strategy

Originally planned to be updated following the re-baselining of the Programme Plan

Will now be refreshed shortly (likely published for review during late March/early April)

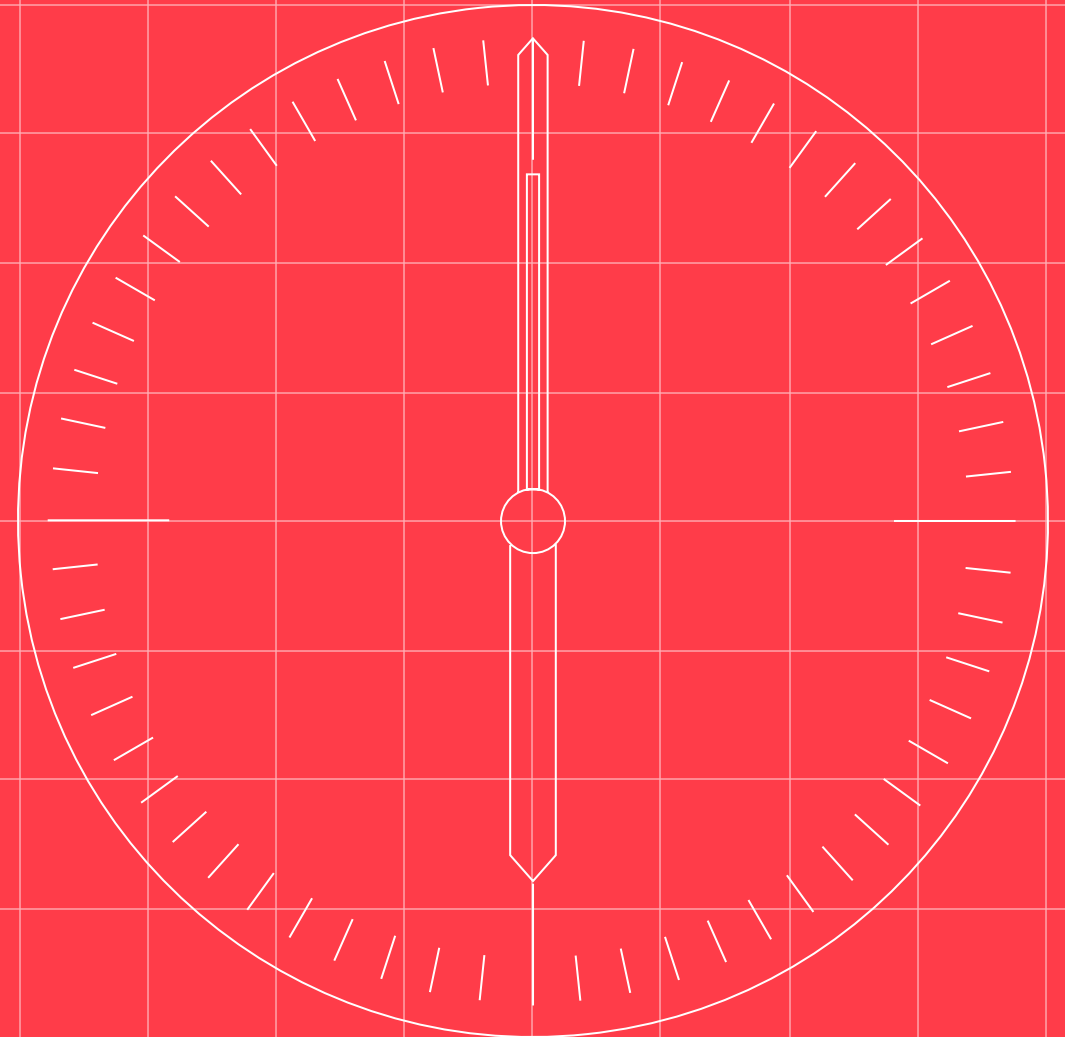
Approvals process – TMAG approval, with recommendations from the various Working Groups

Placing Reliance Policy

INFORMATION: Provide status of Placing Reliance Policy for review ahead of planned approval at 28 March extraordinary TMAG

Dom Mooney

10 mins



Placing Reliance Policy - Status and Next Steps

Status:

- MHHS programme attended both BSC and REC February PABs:
 - Background and context provided
 - Both boards support the need to define and agree the policy and support the plan and timeline to achieve this
- Extraordinary TMAG has been scheduled for Mar 27th – this will be where programme governance approval will be sought for the policy
- Lessons Learned workshop held with DCC and Code Delivery Bodies
- Draft ‘MHHS-DEL1064 - Placing Reliance Policy’ document currently under development and review

Next Steps

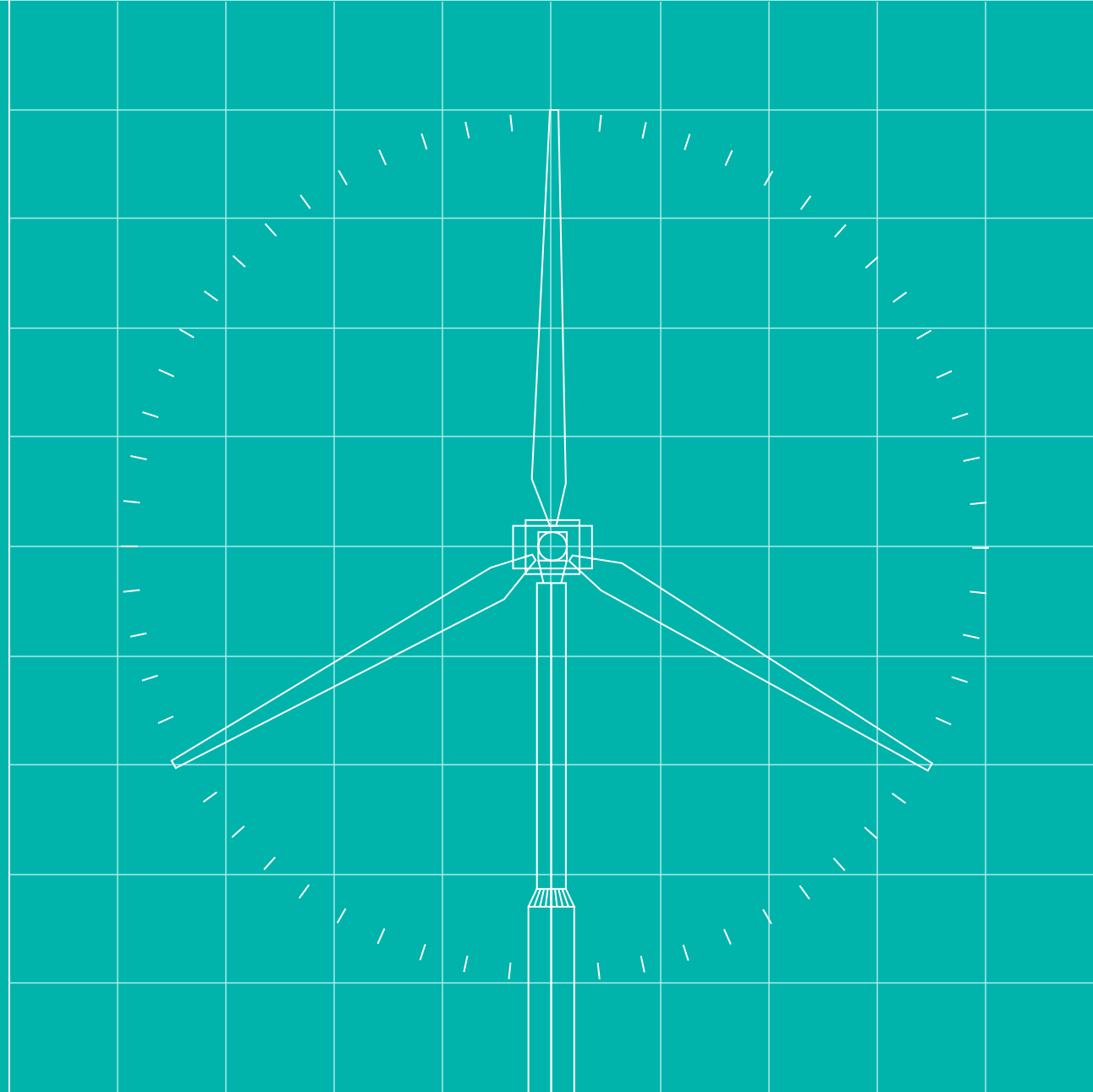
1. Upon conclusion of internal review the draft policy to be published on the collaboration base (est. early next week)
2. All SITWG/ QWG attendees and PP testing contacts will be notified via a direct email from the MHHS test mailbox with the link to the document on the collaboration base:
 - We will invite comments over a 5 day period
 - Comments log will be available to download from the same location as the doc and then can be emailed back to the test mailbox
3. Comments will be subsequently addressed and the document will be updated where required
4. Policy and status update will be presented at 15th March TMAG
5. The document will then be issued to TMAG, BSC PAB and REC members for review (20th – 24th March)
6. Governance meetings where approval will be sought:
 - 27th March - Extraordinary TMAG
 - 28th March - REC PAB
 - 30th March – BSC PAB

Test Data Approach and Plan

INFORMATION: Update on progress of the Test Data Approach and Plan ahead of decision at May TMAG

Kate Goodman

5 mins





Plan will be issued for review

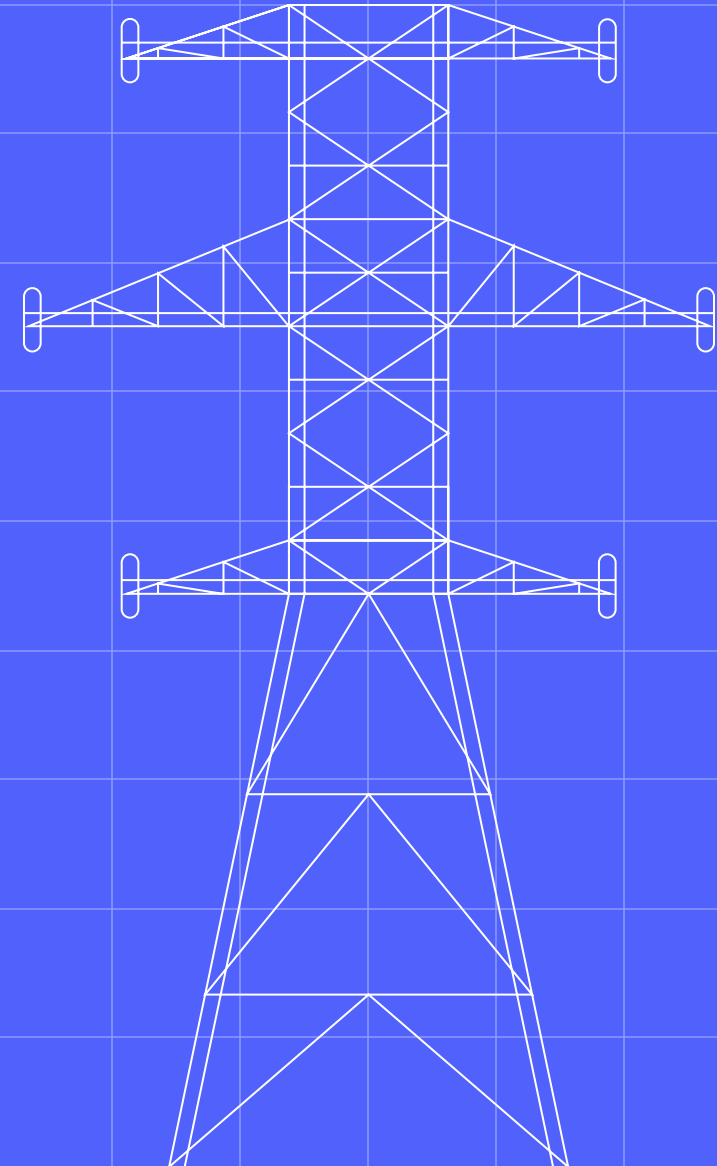
- Document will be issued for review during April and is planned to come to TMAG for approval in May

NFTWG update and ToR approval

DECISION: Update on the first Non-Functional Testing Working Group (NFTWG) and approve the meeting ToR

Nigel Hunt

5 mins



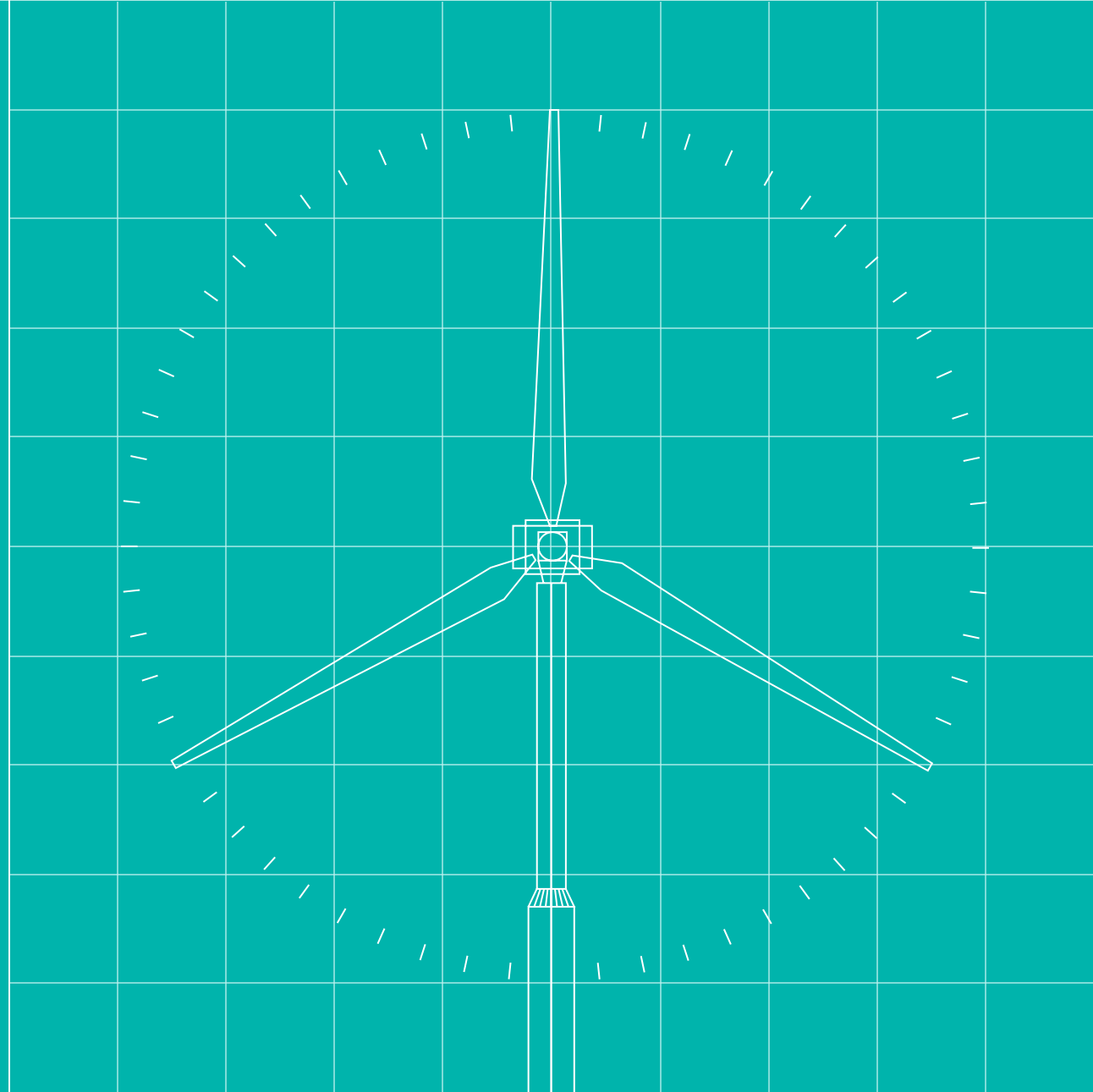
- First NFTWG held on 21st February 2023.
- The Programme ran through the Terms of Reference, which was recommended for approval at TMAG.
- NFTWG will be used to build out the scope of the SIT Non-Functional Testing stage (likely to be confined to Elexon Central Systems and the DIP).
- NFTWG will be used to notify of the non-functional PIT Guidance updates.
- NFTWG will be used to provide updates on the Service Management Strategy.

Qualification update

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

Elexon & REC Performance Assurance

5 mins



The QWG discussed the following areas this month:

- The approach to Qualification for organisations with multiple MPIDs;
- The approach to Qualification scope;
- The Qualification Approach and Plan Product Description;
- The high level plan for producing the Qualification Approach and Plan;
- The RACI for Qualification;
- The approach to the Qualification tranches
- The placing reliance policy; and
- An update on PIT Guidance

Summary and next steps

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

Chair and Secretariat

5 mins

Summary and next steps

Next steps:

1. Confirm actions and decisions from meeting
2. Date of next TMAG: 19 April 2023

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

Meeting dates	15-March	19-Apr	17-May	21-Jun
Relevant milestones or activities				
Agenda items	<ul style="list-style-type: none"> • Data Cleanse Plan • Migration, Cutover & Data Strategy • SIT Scope • Placing Reliance Policy update • CIT and Functional Test Approach and Plans • Test Data Approach and Plan • NFTWG update and ToR approval • Qualification update 	<ul style="list-style-type: none"> • Migration, Cutover & Data Strategy approval • CIT & Functional Test Approach and Plans approval • Data Assessment Report part 2 approval • Release and Configuration Management Approach 	<ul style="list-style-type: none"> • Overarching Test Data Approach and Plan 	<ul style="list-style-type: none"> • TBD
Standing items	<ul style="list-style-type: none"> • Minutes and actions review • Programme updates • Working group report • Next steps and agenda roadmap 	<ul style="list-style-type: none"> • Minutes and actions review • Programme updates • Working group report • Next steps and agenda roadmap 	<ul style="list-style-type: none"> • Minutes and actions review • Programme updates • Working group report • Next steps and agenda roadmap 	<ul style="list-style-type: none"> • Minutes and actions review • Programme updates • Working group report • Next steps and agenda roadmap