

Testing and Migration Advisory Group (TMAG) #21 19 July 2023

Version 1.0

Agenda

#	Item		Objective	Туре	Lead	Time	Page
1	Welcom	е			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 <i>5 min</i> s	3
3	Program	ime 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	Top 5 ris	ks relevant to TMAG	Provide updates on progress and mitigation actions of the top 5 risks related to Testing and Migration	Information	Programme PMO	0 mins	9
6	Migra tion/ Trans ition	Data Cleanse Plan	Approve version 0.3 of the <u>Data Cleanse Plan</u> Approve new Data Cleanse Working Group	Decision	Programme (John Wiggins)	10:10-10:25 15 mins	11
7		Milestone changes for approval	Milestones changes for approval: Environment Approach and Plan, CIT Scenarios, SIT Functional Test Scenarios	Decision	Programme (Lee Cox)	10:25-10:35 10 mins	19
8	sting	Overarching Test Data Approach and Plan	Approve of version 0.8 the Overarching Test Data Approach and Plan	Decision	Programme (Lee Cox)	10:35-10:40 5 mins	23
9	Test	CIT Test and Test Data Approaches & Plans	Approve of version 0.4 of <u>CIT Test and Test Data Approaches & Plans</u>	Decision	Programme (Lee Cox)	10:40-10:45 5 mins	24
10		Working group progress updates	Qualification update	Information	Programme (Working Group Leads)	10:45-10:50 5 mins	26
11	IPA Test	Assurance Update	Provide an update on the IPA Test Assurance for Periodic Reports P1 & P2	Information	IPA	10:50-11:00 <i>10 min</i> s	28
12	Summar	ry and next steps	Summarise actions/decisions and look ahead to the next TMAG	Information	Chair and Secretariat	11:00-11:05 <i>5 min</i> s	33
13	Appendi	ces	Appendix 1 – Test Data deliverables plan-on-a-page				35

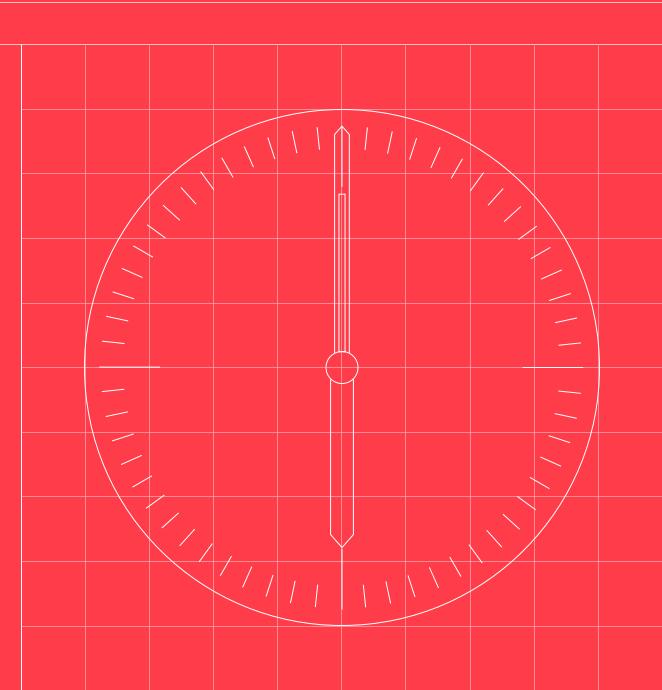


Minutes and Actions

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

Chair and Secretariat





Minutes and Actions review

- 1. Approval of Minutes from 21 June 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
TMAG19-02	31/05/23	Programme to produce a plan-on-a-page for the Migration deliverables (including lower-level artefacts).	Programme (John Wiggins)	16/08/23	Open	The plan-on-a-page for the Migration deliverables will be produced for the August TMAG, with Data Cleanse Plan dates still being consolidated.
TMAG19-03	31/05/23	Programme to provide responses to participant comments on the Overarching Test Data Approach and Plan. Programme to then ask for an offline approval from Constituency Representatives for the plan.	Programme (Cesar Lopes)	21/06/23	Recommend Closed	All participant comments have been responded to by the Programme.
TMAG19-04	31/05/23	Programme to produce a plan-on-a-page for the Test Data deliverables (including lower-level artefacts).	Programme (Cesar Lopes)	21/06/23	Recommend Closed	The plan-on-a-page for the Test Data deliverables are provided in appendix of this pack.
TMAG20-01	19/06/23	Programme to provide regular updates on the progress and management of the mitigating actions of risks R281 & R525*.	Programme & Code Bodies	Ongoing	Recommend Closed	Programme will provide updates on both risks on a as and when basis.
TMAG20-02	19/06/23	Programme to discuss End-to-end Testing Integration Strategy, and provide a plan to socialise when industry will see this document.	Programme (Lee Cox)	16/08/23	Open	Verbal update to be provided during the meeting.

^{*}R281: There is a risk that there may not be sufficient time for later Qualified Participants to complete their migration activities between M14 and M15.

R525: There is a risk that Suppliers with large portfolios of MPANs could be allocated to later qualification tranches as a result of the 'first come first served' approach, which would not leave enough time to migrate a large portfolio before the M15 deadline.



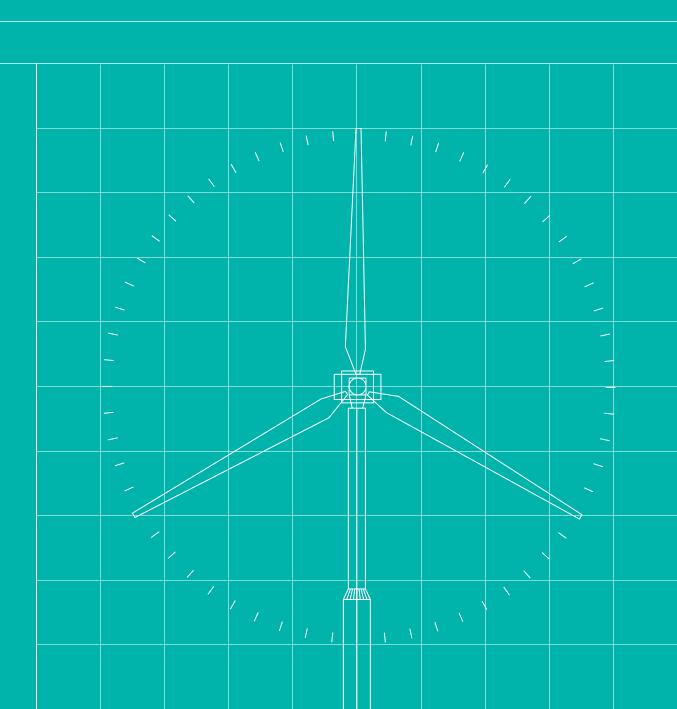
Programme Updates

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)

Updates from PSG 05 July 2023

- Sponsor Update: Ofgemstated a desire to see no slippage in MHHS timelines following the re-baselining of the Programme Plan in June 2023. Ofgem are at the early stages of considering incentives/penalties.
- SASWG ToR: The Settlement Analysis Scoping Working Group (SASWG) ToR w as approved. The group will analyse settlement impacts arising from MHHS and make recommendations. Contact PMO@mhhsprogramme.co.uk to attend.
- 3. Fast Track Design Update
 Process Review: PSG
 received information on the
 operation of the new process,
 and were advised it has worked
 well and will continue. Members
 and the IPA provided
 comments. The cut off for IR3
 objections is 12 July 2023.

PSG papers available here.

Testing and Migration Advisory Group (TMAG)

Update from TMAG 21 June 2023

- 1. CIT Test Scenarios & CIT Functional Test Scenarios:
 The Programme gave an update on both the CIT Test Scenarios & CIT Functional Test Scenarios . It was noted that neither were now coming to TMAG for June approval.
- 2. CIT and SIT Functional Test
 Approach and Plan: The
 Programme shared there was a
 change in the delivery approach
 of the CIT Functional Test
 Approach and Plan, resulting in
 new timeframes.
- 3. Overarching Test Data
 Approach and Plan: The
 Programme shared that on
 Monday 12 June participants
 should have received v0.7 of
 the Overarching Test Data
 Approach and Plan for the final
 5-day consultation period, w hich
 included the changes of the
 plan for the tw o data cuts.
- 4. Working Group Progress
 Updates: The Programme
 provided an update on the
 Qualification and E2E Sandbox
 Working Group.
- IPA Test Assurance for period P1: The IPA provided an update on the overall plan for the periodic reports.

TMAG papers available here

Design Advisory Group (DAG)

Updates from DAG 14 June 2023

- 1. Transition Design: The DAG approved the Tranche 1 Transition Design documents, which will now be baseline and subject to change control. The documents will be published to the Programme Collaboration Base and notice issued in The Clock.
- 2. Change Requests 024 & 025: Interim Release 1: DAG agreed two new changes requests (CRs), raised by RECCo, could be issued to Impact Assessment. The CRs were issued 14 June 2023 with response due by 17:00 28 June 2023.
- 3. DIP Documents: The DAG agreed a revised timeline for the approval of the Interface Code of Connections and PKI Policy documents. The documents will be reviewed at an assurance forumon 28 June 2023, and issued to the Dag for excommittee approval thereafter.
- 4. D-Flow and Interface Mapping: The Programme have produced a mapping document to support understanding of how D-Flows are treated/changed/ not impacted by MHHS. The document will be issued for DAG consultation shortly.

DAG papers available here

Cross Code Advisory Group (CCAG)

Update from CCAG 28 June 2023

- Code Drafting Triage and Assurance Process: The Programme provided an overview of the Code Drafting Triage and Assurance Process. The CCAG recognised that the triage and assurance process is iterative and will develop as the programme progress.
- Code Artefact Tracker: The Programme presented new changes to the Code Artefact Tracker.
- 3. Horizon Scanning Log: For the BSC, P432, P441, P442, P455 were discussed. The Programme clarified as per the Migration Strategy and agreed policy position of Programme Steering Group, complex sites will not be migrated until post M14 in order to avoid reverse migration. This will be managed via the Migration Control Centre. For REC, R0083, R0083A, R0097, R0101, R0109, R0121 were discussed.
- 4. CCAG Reporting: The Programme provided updates on code drafting activities against approved code drafting plan, including updates on Registration and BSC Central Services consultation, and updates on Interfaces, Qualification, and Migration code drafting.

CCAG papers available here

Wider Programme updates

MHHS Design: Interim Release 2 Artefacts:

As of 5 July 2023, the Programme has published the Interim Release 2 Design Artefacts.

These Artefacts will be available on the <u>Baselined Design Artefacts page of the MHHS website</u>. For ease we have also published red-lined documents with tracked changes on the <u>Red-lined Design Artefacts page</u> to make clear which sections have been updated.

A reminder that the objection cut-off for Interim Release 3 is Wednesday 12 July.

Code Consultation (BSC Central Services) open until 12 July 2023:

The Code Workstream issued the **BSC Central Services Code Artefacts** for industry consultation which closes at **17.00** on **Wednesday 12 July 2023**. Visit the <u>Tranche 2 Code Artefacts page of the MHHS website</u> to view the Code Artefacts under review, as well as information and guidance on the consultation and how to submit your comments.

Interface Code of Connection (CoCo) and Public Key Infrastructure (PKI) Certificate Policy:

The Programme have published updated versions of both of these documents and an updated Consolidated Comments Log, available on the <u>Data Integration</u>
<u>Platform (DIP)</u> page of the <u>MHHS</u> website. The **DIP PKI Certificate Profiles** have also been published alongside the CoCo and PKI Certificate Policy and contain the definitive profile for the DIP PKI Certificates.

Delivery Assurance Questionnaire for Cohort 2 closed:

The Delivery Assurance Questionnaire for Cohort 2 closed on **Friday 30 June 2023**. With both Cohorts now closed, the Programme are reviewing the responses and are following up through bilateral meetings as required. Where practical, and attendees are likely to be similar, the bilateral meetings for Delivery Assurance are being conducted alongside Design Assurance. The aimis to complete the Delivery Assurance activity for all Fast Track Implementation Group (FTIG) members during July.

Testing and Qualification of Meter Data Retrieval (MDR) and Smart Data Services Clarification:

The Programme has published the **Meter Data Retrieval (MDR) Testing and Qualification** document to provide clarity on the current approach to testing MDR services and the Code Bodies approach to Qualification. You can view the MDR Testing and Qualification document on the <u>Planning page of the MHHS website</u>, which includes current assumptions and risks.

BSC Issue 101 Consultation:

Elexon is seeking wider industry feedback on the framework and supporting Business Requirements, via the BSC Issue 101 Issue Group, so that consultation responses can be considered during preparation of the legal text. This consultation closes at 17:00 on Wednesday 12 July 2023.

For more information, please visit the <u>Issue 101</u> or the <u>Change Consultations pages</u> of the <u>Flexon website</u>.



Document Classification: Public

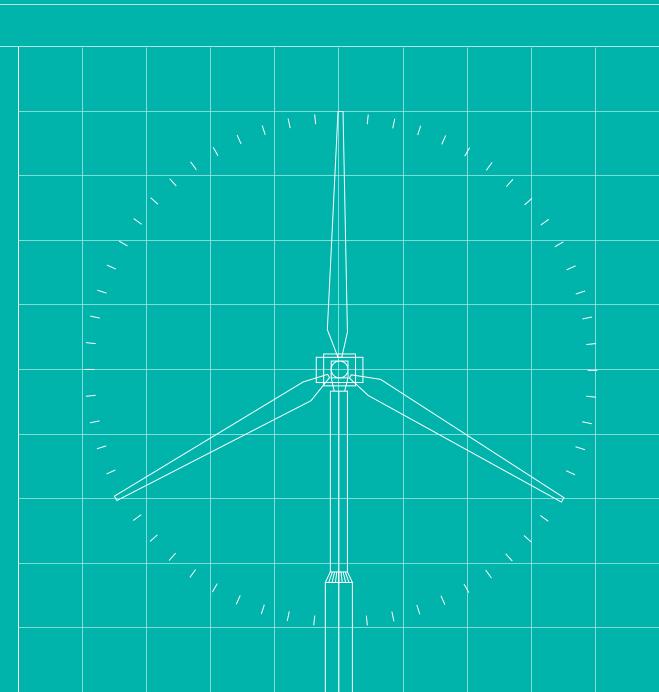
Working Group Report

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





TMAG Working Group Progress Report

	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	Overall Test Data Approach and Plan (July TMAG)	Data Cleanse Plan (July TMAG 2023)	Environments Approach and Plan (final version planned to come to August TMAG)		CIT / Functional Test Approach & Plans (July/Aug 2023)	
Next meeting's agenda items	03 August 2023 • TBC	 13 July 2023 Migration Thresholds and Migration Profile Data Cleanse Plan 	01 August2023 • TBC	 11 July 2023 Qualification Artefact Plan Qualification Approach And Plan 	03 August 2023 • TBC	18 July 2023 Non-Functional Requirements Draft NFT PIT Guidance NFT Roadmap DIP NFT Overview
Agenda items from last meeting	O6 July 2023 Next Steps on Test Data Review of Overarching Test Data Approach and Plan Feedback Review of SIT CIT Test Data Approach and Plan Smart Meter – Consumption Data	Migration Thresholds and Migration Profile Data Cleanse Plan	 04 July 2023 Central Parties Test Environment Architecture for CIT Market Role Connection Points for Sit Functional Testing Sit Functional Test Connectivity Proving Phase 	 12 June 2023 Data Cut for multiple MPIDs Qualification Testing Data Approach TMAG and PAB response Placing Reliance Policy Qualification stubs and harnesses 	 06 July 2023 PIT Guidance CIT Test Scenarios SIT Functional Test Scenarios CIT Test Approach & Plan Deliverable Design Interim Releases > Test Programme Approach to establishing MPANs in MHHS steady state SIT Functional Test Approach & Plan Deliverable 	20 June 2023 PIT Requirements Phased SIT / PIT Entry Option DIP Non- Functional Requirements
TMAG escalations	None	None	None	None	None	None



Document Classification: Public 8

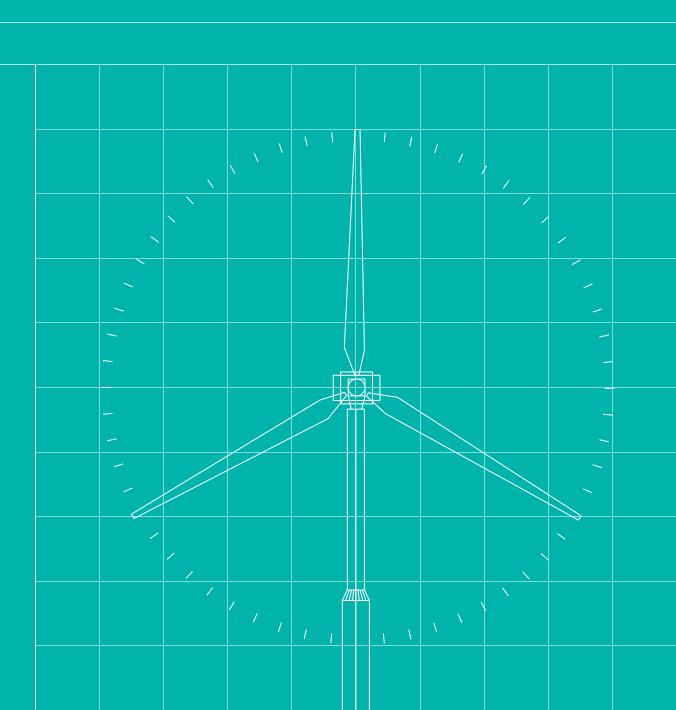
Top 5 Risks Relevant to TMAG

INFORMATION: Provide updates on progress and mitigation actions of the top 5 risks related to Testing and Migration

Programme (PMO)

0 mins - taken as read, questions by exception





Top 5 risks relevant to TMAG

Risk ID	Risk	Mitigation Plan	RAG
R272	There is a risk that Core Capability Providers may be late arriving into their CIT Interval	 Design and delivery assurance PIT assurance FTIG (and PSG) monitoring of participants' delivery progress and managing of obstacles to readiness (inc. deep dives for those w ho are higher risk) Staggered PIT approach Account Management meetings 	High Risk
R525	There is a risk that Suppliers with large portfolios of MPANs could be allocated to later qualification tranches as a result of the 'first come first served' approach, which would not leave enough time to migrate a large portfolio before the M15 deadline	EDF suggestions: 1) MHHSP to request participants to share their tranche preferences (in the next readiness assessment or similar to identify if there is likely to be any contention for tranches – target to complete by end Q3 2023) 2) Penalties could be w aived (if a large supplier is allocated a later tranche and doesn't have enough time to complete migration by the M15 deadline as a result) Update from MHHS Programme: 1) Notification of tranches is managed by the Code Bodies and is currently under discussion at the Qualification Working Group. We expect that the Code Bodies will set out the timing for tranche notification in QWG and that Suppliers will comply with requests 2) This is not in the control of the Programme — any enforcement of incomplete migration for Suppliers is a matter for Ofgem. Suggest that the Impact is reduced from 5 to 4 as this doesn't prevent the majority of the market from migrating MPANs, the impact is restricted to a small number of Large Suppliers w ho are not participating in SIT 3) Legal advice from Elexon has been clear that the allocation of Programme Participants to tranches cannot be influenced by portfolio size 4) For any Supplier that is in Tranche 7 of Qualification, there is still planned to be over 6 months to migrate MPANs. 5) The capacity within the plan will be set at a level to enable suppliers in Tranche 7 to migrate within the >6 month period. (e.g. 35k av MPANs migrated by them each day, which will be a low percentage of the overall capacity).	High Risk
R331	There is risk that analogous estimating has been used to assess the likely duration of SIT testing using FSP as a benchmark, as well as the test cases/scenarios not being tied down. There is a high degree of uncertainty over the accurate estimating of SIT duration which may be longer or shorter	1) The current duration has been sense-checked comparable with an implementation of this scale and complexity - complete 2) Detailed bottom-up estimate will follow, based on coverage and scenarios being produced over next quarter following the M5 design baseline (modelling approach for estimates) - complete 3) The risk will be mitigated, and estimates validated in parallel with Round 3 and in preparation for the CR for the replan - complete 4) As SIT scope and scenario coverage is developed SIT working group and approved by TMAG, estimates will be refined and validated. Can assess post test case creation (CIT and Sit Functional test cases authored and approved) 5) Need to work with Design team on logical sequence of Test execution 28/06/2023 - Mit 3 and 4: Lee Cox has recently refreshed estimates for SIT Functional (based on test cases that need to be run and number of PPs involved in SIT). In order to determine resources needed to coordinate resource. Further changes being refined on an ongoing basis as changes to scenarios/test cases are finalised.	Medium Risk
R332	There is a risk that Suppliers may require maximum amount of time to complete their DBT and subsequently qualify, resulting in backlog in final tranche(s) of Qualification	1) The potential for incentives for completion of migration has been raised with the Programme, but this would require further discussion with Ofgembefore it is given any further consideration 2) Ongoing tracking of suppliers' delivery plans and progress through PPC bilateral meetings and account management 3) Delivery assurance activities 4) Programme to create a migration control centre which will create a robust plan, factoring in Qualification timings, size of suppliers portfolio etc. (end 2024)	Medium Risk
R415	There is risk that qualified Suppliers will not be able to start migrating MPANs at M11 (and beyond) if they do not have Service Providers contracted that have qualified for particular customer segments (SDS and MSS for smart/dumb meters; MSA and ADS for advanced meters; UMSDS for UMS)	07/03/23 - MHHSP is looking to support suppliers and service providers testing together through SIT where we can and this will be a focus through SIT to gain assurance that M11 will start as soon as is practical. 07/06/23 - MHHSP is seeking to understand the risks by identifying supplier ecosystems	Medium Risk

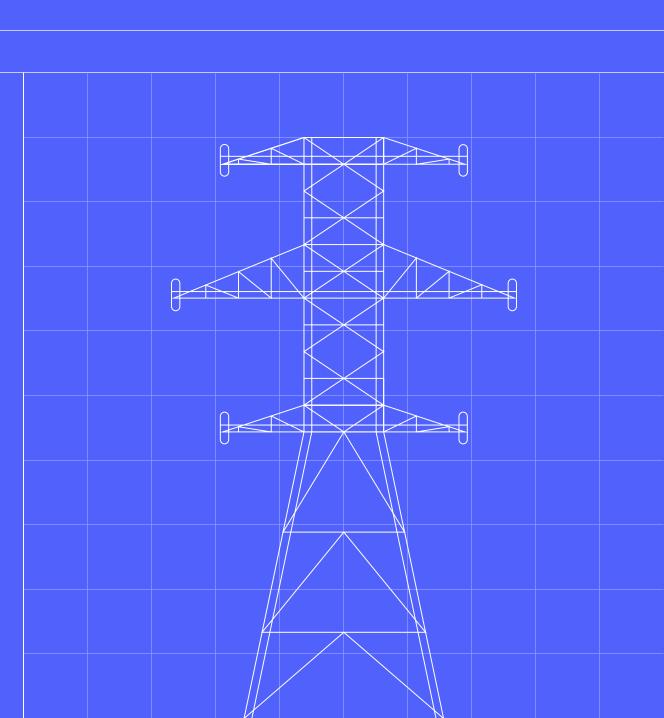


Data Cleanse Plan

DECISION: Approve version 0.3 of the Data Cleanse Plan

Programme (John Wiggins)





Overview of the Data Cleanse Plan

- The Data Cleanse Plan sets out the data improvement activities that are required to be undertaken by Programme Participants and/or the MHHS Programme to ensure data is of the required quality and completeness prior to the cutover to the new arrangements at M10 and the start of migration at M11.
- The requirement for the development of a Data Cleanse Plan and the responsibilities of the MHHS
 Programme and MHHS Participants in respect to it are set out within Section C of the BSC

Key Sections

#1	Assumptions, Risks and Dependencies	#4	Registration Data
#2	MTDs	#5	Import / Export MPANs
#3	Advanced Meters	#6	Reporting



Summary of Feedback

Consultation on the Migration, Cutover and Data Strategy Document lasted for 2 weeks from 9 June – 23 June 2023. In that time, we received 297 comments from 21 organisations and 24 participants.

#1

SDEP – Use of the SDEP to communicate data securely when collaboration is required between Suppliers and LDSOs

#2

Advanced Meter – Issues associated to clock changes, no comms, missing or incomplete NHH Advanced MTDs

#3

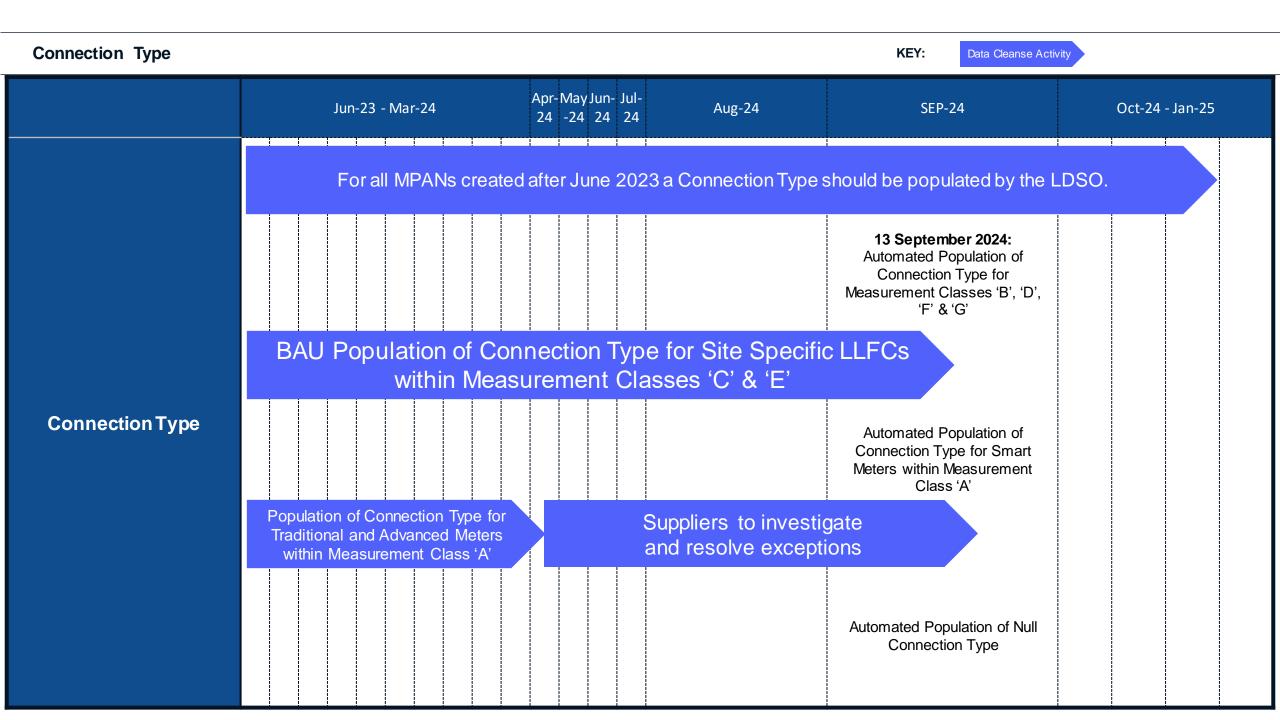
Technical Development – Approach to population of Connection Type, import/export linkage

#4

Dates – The planned dates, ensuring that LDSOs and Suppliers have enough time to develop technical capabilities to support data cleanse/population and manual investigation and resolution.



ESME ID, Meter Location, Number of Displayed Register Digits and D0312 Maintenance Timelines KEY: Data Cleanse Activity								
	Jun-23 – Jul 24	Aug-24	SEP-24	Oct-24 / Nov-24	Dec-24	Jan -25		
ESMEID	For all smart meters installed from June 2023 onwards the MEM must send a valid D0312 to the Registration Service, containing the ESME ID.	16 August: The DCC will extract ESME ID from the smart metering system and via a secure means provide a file to each LDSO 24 August Each LDSO will load the file	29 September: Each LDSO will undertake a 'full refresh' between their Registration Service and the EES MHHS Programme verifies data completeness. Each LDSO notifies the Registered Supplier of any exceptions which have occurred because of the data		20 December: Each Supplier completes investigation of exceptions and resolution of exceptions			
Meter Location & Number of Displayed Register Digits	For all smart meters installed from June 2023 onwards the MEM must send a valid D0312 to the Registration Service, containing the Meter Location and Number of Displayed Register Digits.	16 August: The MEM will extract the data from their systems and via a secure means provide a file to the SI who will verify and send to each LDSO 24 August: Each LDSO will load the file	load. 29 September: Each LDSO will undertake a 'full refresh' between their Registration Service and the EES MHHS Programme verifies data completeness. Each LDSO notifies the Registered Supplier of any exceptions which have occurred because of the data load.		20 December: Each Supplier completes investigation of exceptions and resolution of exceptions			
D0312 Maintenance	MEMs should start this activity from June 2023 onwards and D currently missing from the registration Service should have been the DCC and MEM producing extracts (by 16 August 2)	populated prior to						



Import / Export MPANs Li	inking		KEY: Data Cleans	se Activity
	Jun-23 - Feb-24	Mar -24 Apr-24 May Jun- Jun- Jun- Jun- Jun- Jun- Jun- Jun-		Sep Oct-24 Nov-24 - Jan- -24 25
		LDSO Import/	Export Linking	
Import/Export MPANs Linking	Each LDSO utilises BAU processing (DB05s) to populate each import/export linkage	Suppliers to investig LDSC 19 April 2024: Each LDSO notifies the Registered Supplier of any exceptions which have occurred because of the data load.		18 October 2024: Each LDSO has investigated the Supplier response and updated records.

Summary of Updates and Recommendation for Approval

Summary of Changes / Updates

- 1. We have re-worked the planned dates to accommodate Programme Participant capacity and feedback.
- 2. We have clarified which activities will be automated and which will be manual.
- 3. We have clarified the structure of data when sent between parties.
- 4. We have clarified the approach to managing the clock change.
- 5. We have provided further additional clarity throughout the plan.

Recommendation for Approval

The Programme recommends that TMAG approves v0.3 of the Data Cleanse Plan.



Recommendation for a new Working Group

Requirement for a new Data Cleanse Working Group

In order to manage the Data Cleanse Plan and all of the activities that it sets out, the Programme proposes that a new working Data Cleanse Plan Working Group is established under TMAG.

This will allow for the Data Cleanse Plan to be kept separate from the Migration Working Group and ensure that the appropriate focus can be given to the activities set out in the Data Cleanse Plan.

This was raised in the Data Cleanse Plan Assurance Meeting on 7th July and attendees were in favour of this approach.

Recommendation for Approval

The Programme recommends that a new Working Group is established for the management of the Data Cleanse Plan and the activities that it sets out.



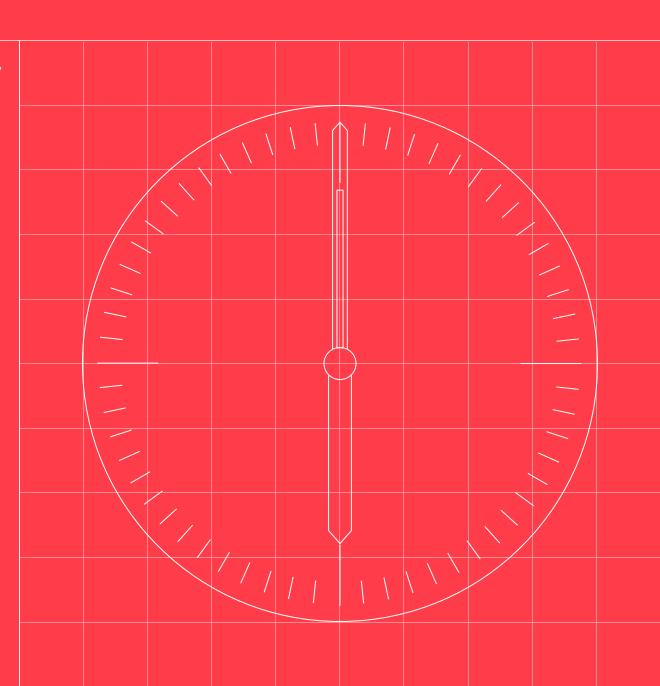
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Milestone Changes for Approval

DECISION: Milestone changes for approval: Environment Approach and Plan, CIT Scenarios, SIT Functional Test Scenarios

Programme (Lee Cox)





Upcoming milestones relevant to TMAG (1/2)

Upcoming milestones (rolling 3 months)

Milestone Tier	Milestone ID	Milestone Title	Plan Section	Milestone Date	Critical Path
T3	T3-TE-0012	SIT Component Integration Testing Test Approach & Plan approved	TE	19 July 2023	
T3	T3-DB-0028	Registration Services Test Approach & Plan (PIT) submitted to Programme for assurance	DB	28 July 2023	
Т3	T3-TE-0067	E2E Sandbox Guidance approved	TE	04 August 2023	
Т3	T3-DB-0030	Elexon Central Systems RTTM submitted to Programme for assurance	DB	04 August 2023	
Т3	T3-DB-0032	Elexon Central Systems test scenarios submitted to Programme for assurance	DB	04 August 2023	
Т3	T3-DB-0034	DIP RTTM submitted to Programme for assurance	DB	04 August 2023	
Т3	T3-DB-0036	DIP test scenarios submitted to Programme for assurance	DB	04 August 2023	
T3	T3-DB-0035	DIP Simulator uplifted to align with Interim Release 2	DB	11 August 2023	
T3	T3-DB-0038	Data Services Test Approach & Plan (PIT) submitted to Programme for assurance	DB	11 August 2023	
T3	T3-TE-0013	SIT Functional Testing Test Approach & Plan approved	TE	16 August 2023	
T3	T3-TE-0017	Production data cut GONG decision	TE	16 August 2023	
T2	T2-TE-0200	Data cut from relevant participants' production systems completed	TE	21 August 2023	Yes
T3	T3-DB-0040	Metering Services Test Approach & Plan (PIT) submitted to Programme for assurance	DB	25 August 2023	
T3	T3-MI-0021	Threshold volumes approved at TMAG	MI	31 August 2023	
Т3	T3-TE-0019	SIT Participants' SIT A environments ready to start connectivity proving (incl certificates and security compliance) CIT Interval 1	TE	01 September 2023	
Т3	T3-TE-0069	SIT Component Integration Testing Test Cases approved	TE	01 September 2023	
T3	T3-TE-0070	SIT Functional Testing Test Cases approved	TE	01 September 2023	
Т3	T3-DB-0042	Registration Services RTTM submitted to Programme for assurance	DB	01 September 2023	
Т3	T3-DB-0044	Registration Services test scenarios submitted to Programme for assurance	DB	01 September 2023	
T3	T3-DB-0046	SIT Suppliers Test Approach & Plan (PIT) submitted to Programme for assurance	DB	15 September 2023	
T3	T3-DB-0048	Metering Services RTTM submitted to Programme for assurance	DB	15 September 2023	



Upcoming milestones relevant to TMAG (2/2)

Upcoming milestones (rolling 3 months)

Milestone Tier	Milestone ID	Milestone Title		Milestone Date	Critical Path
T3	T3-DB-0050	Metering Services test scenarios submitted to Programme for assurance	DB	15 September 2023	
T3	T3-DB-0052	UMSO Test Approach & Plan (PIT) submitted to Programme for assurance	DB	15 September 2023	
T3	T3-DB-0054	Network Operation Test Approach & Plan (PIT) submitted to Programme for assurance	DB	15 September 2023	
Т3	T3-TE-0020	SIT Participants' SIT A environments ready to start connectivity proving (incl certificates and security compliance) CIT Interval 2	TE	22 September 2023	
T3	T3-DB-0056	Data Services test scenarios submitted to Programme for assurance	DB	22 September 2023	
T3	T3-DB-0058	Data Services RTTM submitted to Programme for assurance	DB	22 September 2023	
Т3	T3-DB-0013	PP PIT Completion Report (excl. Migration/Reverse Migration) submitted to Programme for assurance CIT Interval 1	DB	29 September 2023	
T3	T3-DB-0011	Network Operation test scenarios submitted to Programme for assurance	DB	06 October 2023	
T3	T3-DB-0025	UMSO test scenarios submitted to Programme for assurance	DB	06 October 2023	
T3	T3-DB-0037	SIT Suppliers test scenarios submitted to Programme for assurance	DB	06 October 2023	
Т3	T3-TE-0021	SIT Participants' SIT A environments ready to start connectivity proving (incl certificates and security compliance) CIT Interval 3	TE	06 October 2023	
T3	T3-DB-0060	UMSO RTTM submitted to Programme for assurance	DB	06 October 2023	
T3	T3-DB-0062	Network Operation RTTM submitted to Programme for assurance	DB	06 October 2023	
T3	T3-DB-0064	SIT Suppliers RTTM submitted to Programme for assurance	DB	06 October 2023	
T3	T3-DB-0066	EES Test Approach & Plan (PIT) submitted to Programme for assurance	DB	13 October 2023	
T3	T3-DB-0068	DCC Test Approach & Plan (PIT) submitted to Programme for assurance	DB	13 October 2023	
T3	T3-DB-0070	CSS Test Approach & Plan (PIT) submitted to Programme for assurance	DB	13 October 2023	



Milestones changes for approval

• TMAG members are being asked to decide whether to approve changes in dates to the Programme Plan milestones. Once approved these changes will be incorporated into the Programme Plan through a housekeeping change.

Milestone Tier	Milestone number	Milestone Title	Milestone Description	Baseline Date	Forecast Date	Artefact/Deliverable	Evidence met	Decision
Т3	T3-TE-0068	Environment Approach & Plan - Work Off Approved	The approval by TMAG of the Environment Approach & Plan Work Off Items	30 June 2023	Staged approval (next date 17 August 2023)	Environment Approach & Plan		
ТЗ	T3-TE-0014	SIT Component Integration Testing Test scenarios approved	The approval by TMAG of Test scenarios for SIT Component Integration	02 June 2023	16 August2023	SIT - Component Integration Test Data Approach and Plan		
Т3	T3-TE-0015	SIT Functional Testing Test scenarios approved	The approval by TMAG of Test scenarios for the SIT Functional stage	02 June 2023	20 September 2023	SIT Functional Testing Approach & Plan (formerly E2E Testing Approach and Plan)		

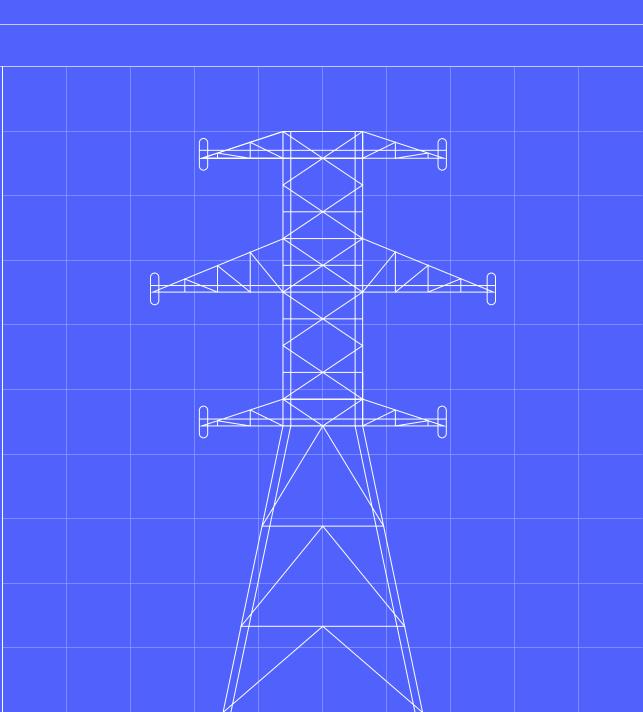


Overarching Test Data Approach and Plan

DECISION: Approve version 0.8 of the Overarching Test Data Approach and Plan (verbal update)

Programme (Lee Cox)



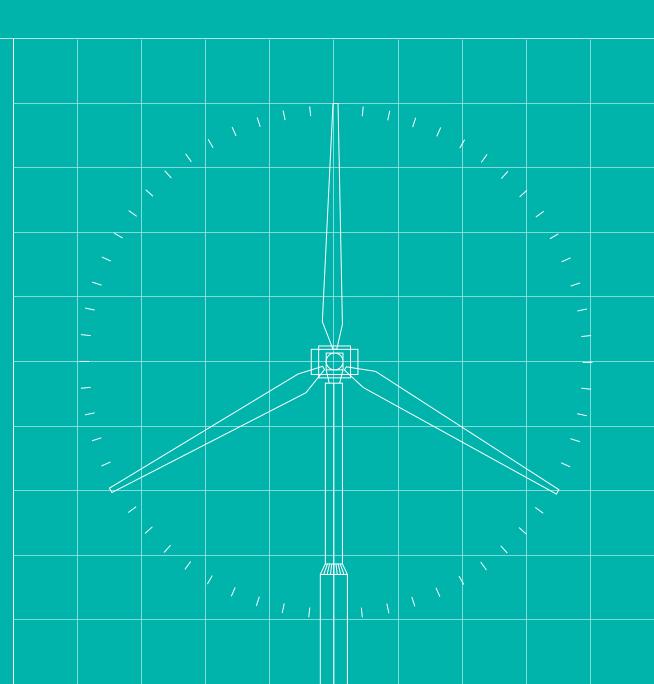


CIT Test and Test Data Approaches & Plans

DECISION: Approve version 0.4 of the CIT Test and Test Data Approaches & Plan

Programme (Lee Cox)





CIT Test Approach & Plan



Principal updates

- CIT Test Approach and Plan assurance review on v0.3 red-line changes ended on 7th July 23 comments received from 6 participants.
- 6 comments have resulted in the following minor changes in v0.4:
 - References to Settlement Operations have been removed from CIT scope.
 - In section 7.2.1.1 the reference to PPs' ability to 'take on ISD' has been amended to 'download ISD' to be consistent with the rest of the document.
 - In section 7.2.2 the reference to 'MPANs records' has been changed to 'MPAN records'.
 - Two references to test 'scripts' in Section: 7.2.4 and 7.2.6 have been changed to 'cases' for consistency with the rest of the document.
 - In section 7.2.8 the statement '...will be required to provide an individual Test Completion Report within 5 days of completing their tests...' has been amended to 5 working days for clarification.
- In addition:
 - A red box has been added to the diagram in section 6.1 'MHHS Architecture and Coverage' as an enhancement to depict the DIP interfaces in scope for CIT more clearly.
 - MHHS-DEL1309 CIT Test Data Approach & Plan has been added to the references table and within the document.
- Comment responses have been published along with version 0.4 (clean and red-line versions) on the collaboration base.
- July 12th Extraordinary SITWG recommended TMAG Approval of the document
- Decision: Requesting TMAG Approval



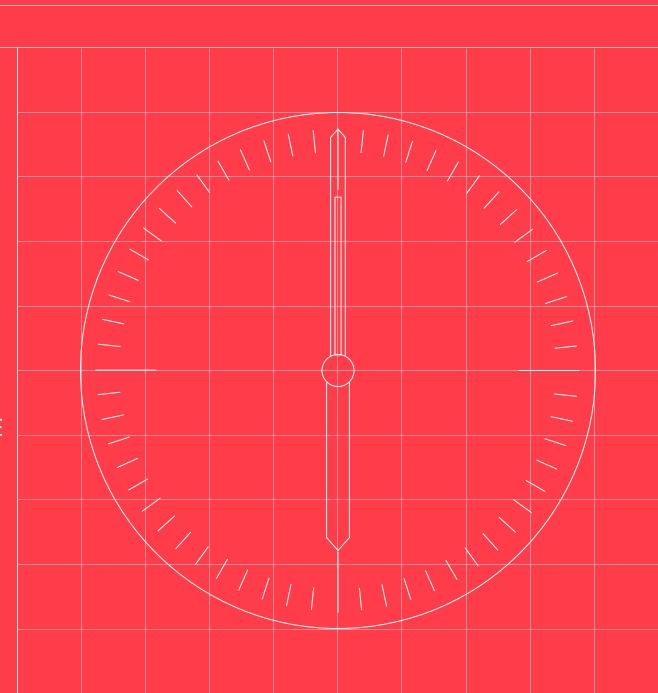
Working Group Progress Updates

INFORMATION:

 Update on discussions with code delivery bodies on qualification and activity at the Qualification and E2E Sandbox Working Group (QWG)

Elexon & REC Performance Assurance





The QWG discussed the following areas this month:

- Qualification artefact plan
- High level approach and plan for CIT
- Current position on test data approach
- General PIT Guidance
- Update on Placing Reliance timescales

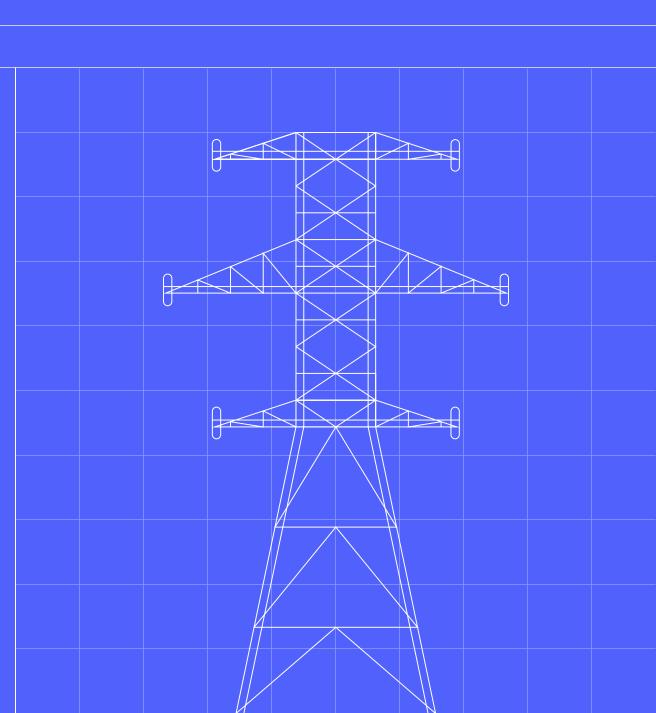


IPA Test Assurance

INFORMATION: IPA update on the on the activities for Test Assurance

IPA





MHHS IPA

WP9-11: IPA Test Assurance for Periodic Reports P1 & P2

FINAL

July 2023

Privileged & Confidential



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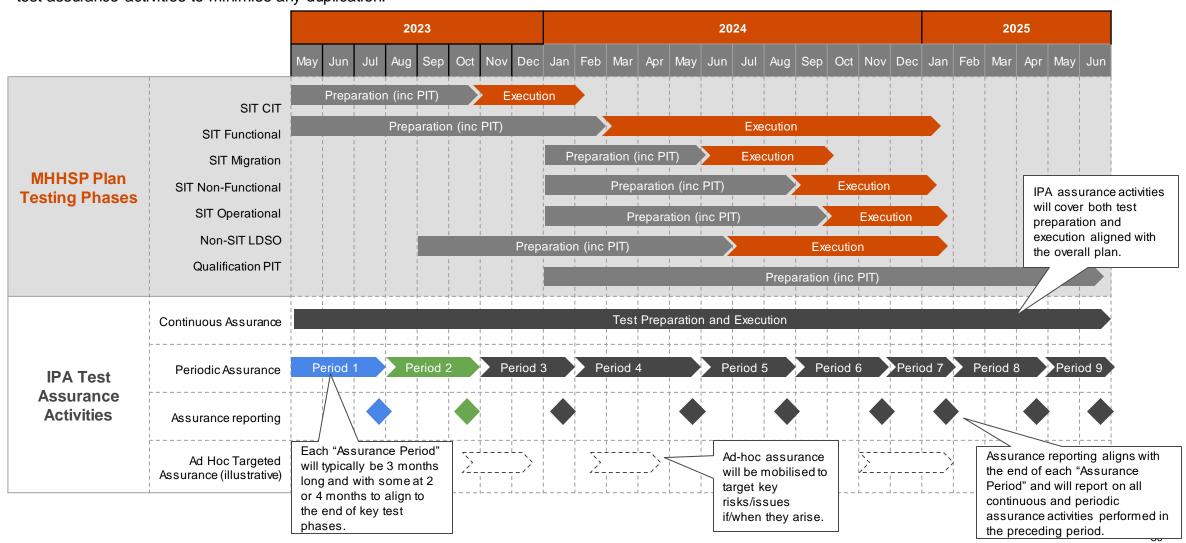
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Test Assurance Plan



Assurance activities have been aligned to the test phases within the overall MHHSP plan. Regular meetings are being held with the LDP to align on test assurance activities to minimise any duplication.



Test Assurance TMAG July Update



The purpose of this update is to provide TMAG members with an update on IPA test assurance activities; the output of the P1 draft report and the scope and approach for the P2 assurance activities. A verbal update will be provided on the high-level observations captured during the P1 assurance as this report is in the process of being finalised / signed-off with ofgem and SRO.



Planning & Mobilisation - This milestone consists of defining the mini- Terms of Reference (ToR) for the specific periodic report and the outreach to the sampled participants. The report details proposed participants to be sampled and to be agreed with the SRO and ofgem.

- The mini-ToR for the P2 test assurance activities has been aligned with the LDP and in the process of being signed-off by SRO and ofgem including the sampled participants.
- TMAG & PSG will be presented with an update on the approach & scope for the #P2 report at retrospective meetings.
- Participants selected for the P2 assurance activities will be notified by PPC within a week of the TMAG meeting and the IPA team will reach out to schedule a briefing call.



Fieldwork - This milestone consists of holding deep-dive calls with the sampleted participants to assess status against assurance exam questions and review of evidence provided by participants;

- A maximum of 15 participants will be selected for the P2 test assurance activities, these are combined of LDP, Central Parties, Suppliers, LDSO, Agent, Cody Bodies and Non-SIT Participants (entering via the qualification route).
- Key takeaways / observations noted will be shared with sampled participants after each deep-dive call.



Analysis - This milestone consists on reviewing artifacts (POAP, testing approach and delivery model) shared by sampled participants)

• Following deep-dive calls, a high-level summary of discussion, status against key exam questions and key observations with RAG status and recommendations will be sent to sampled participant to factuaty align on content.



Draft Report - The full draft report will be shared with ofgem / SRO for review & feedback. A high level summary anonymised will be shared at Octobers TMAG and at the November's PSG.

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WP9-11: P2 Assurance POAP

Activities	July	August	September	October	November
Mobilisation & Planning					
IPA Fieldwork	TMAG: 19-July	Prep PSG: 16-Aug	Execution		
IPA Analysis			PSG: 6-Sept		
Report Preparation			TMAG: 20-Sept		
Sign-off and Reporting			PSG: 4-Oct	◆ TMAG: 18 Oct	PSG: 1 Nov

P2 Report Key Events and Dates

- 19th July 2023: TMAG Socialise the scope of work and ToR with Industry Participants
- 6th Aug 2023: PSG Socialise Assurance Activities update by IPA at PSG
- 16th Aug 2023: TMAG Interim update on IPA Activities at the TMAG
- 6th September 2023: PSG Socialise Assurance Activities update by IPA at PSG
- 20th September 2023: TMAG Interim update on IPA Activities at the TMAG
- 4th October 2023: PSG Socialise Assurance Activities update by IPA at PSG
- 18th October 2023: TMAG Share the summary of P2 Report at the TMAG
- 1st November 2023: Share the summary of P2 Report at the PSG

Summary and Next Steps

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

Chair and Secretariat



Summary and next steps

Next steps:

- 1. Confirm actions and decisions from meeting
- 2. Date of next TMAG: 16 August 2023

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

Meeting dates	19-Jul	16-Aug	20-Sep
Relevant milestones or activities	 Data Cleanse Plan Milestone Approvals Overarching Test Data Approach and Plan CIT Test and Test Data Approaches & Plans 	 SIT Functional Test Approach and Plan and Test Data Approach and Plans CIT Test Scenarios Environments Approach and Plan 	SIT Functional Test Scenarios
Agenda items	 Data Cleanse Plan Milestone Approvals Overarching Test Data Approach and Plan CIT Test and Test Data Approaches & Plans Working Group Progress Update 	 SIT Functional Test Approach and Plan and Test Data Approach and Plans CIT Test Scenarios Environments Approach and Plan Working Group Progress Update 	• TBC
Standing items	Minutes and actions reviewProgramme updatesWorking group reportNext steps and agenda roadmap	Minutes and actions reviewProgramme updatesWorking group reportNext steps and agenda roadmap	 Minutes and actions review Programme updates Working group report Next steps and agenda roadmap

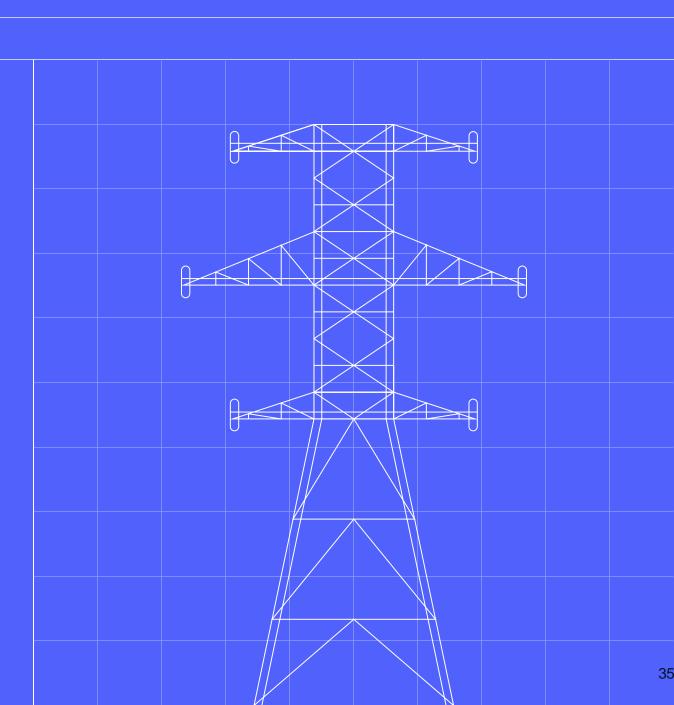


Public

Appendix

Test Data deliverables plan-on-a-page





Test Data - Plan on a Page - SIT (CIT, Functional, Migration and NFT)

