

MHHS Testing and Migration Advisory Group Actions and Minutes

Issue date: 27/04/22

Meeting number	TMAG004	Venue	Virtual – MS Teams
Date and time	20 April 2022 1000-1200	Classification	Public

Attendees

Chair

Chris Welby (CW) MHHS IM SRO

Industry Participants

Badruddin Khan (BK) Exelon Representative (as central systems provider)
 Chris Butterfield (CB) (as alternate for Martin Hanley) Large Supplier Representative
 Ian Hall (IHal) Supplier Agent Representative
 Ian Hatton (IHat) DNO Representative
 Stacey Buck (SB) iDNO Representative

MHHS IM members

Adrian Ackroyd Test Manager
 Jason Brogden (JB) Industry Expert
 Kate Goodman (KG) Test Architect
 Martin Cranfield (MCra) PMO Governance & Secretariat Lead
 Miles Winter (MW) PMO Governance & Secretariat Support

Other Attendees

Martin Crozier (MCro) MHHS IM IPA Stage-Based Assurance Lead
 Sinead Quinn (SQ) Ofgem (as observer)

Apologies

Nickie Bernsmeier-Rulow DCC Representative (as smart meter central system provider)

Actions

Area	Action Ref	Action	Owner	Due	Update
E2E Testing and Integration Strategy	TMAG04-01	Issue the updated TMAG004 slide pack (as presented)	Programme (PMO)	21/04/22	CLOSED: Issued alongside meeting Headline Report
	TMAG04-02	Provide any final comments on the E2E Testing and Integration Strategy and	TMAG members	22/04/22	

		participation expectations by COP this Friday 22 April			
	TMAG04-03	Meet with the MHHSP Design team to discuss SDS service provider split and participation in testing and qualification	Programme (Kate Goodman, Jason Brogden)	29/04/22	
	TMAG04-04	Provide feedback on Advanced Data Service participation expectations (focus qualification)	Ian Hall, Chris Butterfield, Martin Hanley	22/04/22	
	TMAG04-05	Provide feedback on DNO/iDNO approach to participation	iDNO rep (Stacey Buck)	22/04/22	
	TMAG04-06	Update the E2E Testing and Integration Strategy as per the comments received in TMAG and offline. Issue to TMAG members for ex-committee approval ahead of May TMAG (see TMAG-DEC07)	Programme (Kate Goodman)	29/04/22	
	TMAG04-07	Share the meeting recording with the Large Supplier representative	Programme (PMO)	21/04/22	CLOSED: shared 22/04/22

Decisions

Area	Dec Ref	Decision
E2E Testing and Integration Strategy	TMAG-DEC07	The E2E Testing and Integration Strategy was approved in principle subject to updates as discussed.

Minutes

1. Welcome

CW welcomed all to the meeting.

2. Minutes and Actions

The minutes from March TMAG were **approved**.

CW ran through the actions as per the slides.

KG provided updates on:

- a) TMAG03-03 was awaiting feedback from Martin Crozier.
- b) TMAG03-04 and -05 could be closed as they are being captured in the document review of the E2E Testing and Migration Strategy.

CW gave an update on Change Requests as per the slide. CW highlighted that a decision on CR001 (moving M5) was due this week or early next from Ofgem. CR003 is a CR to move M6 and M7 which is more of a formal governance change. CR004 has progressed as a house-keeping change. CR005 is going to PSG 04 May following Impact Assessment to make a decision. CW invited questions. None received.

3. Governance group updates

CW gave an overview of the slide and invited questions. None received.

4. E2E Testing and Integration Strategy

KG noted that the slides had been updated since being issued and a new version would be shared. KG gave an overview of comments received on the E2E Testing and Integration Strategy and fed back that the response rate had been very good. KG noted scope was a particular point to discuss today following a number of comments, among a number of other areas for discussion. KG clarified that comments could either be changes (that are new items that were not in the strategy before) or clarifications (where points were already included in the strategy document) but required better explanation. Some clarifications have a response/explanation but have not resulted in a change to the document.

Action TMAG04-01: PMO to issue the updated TMAG004 slide pack (as presented)

KG noted the Programme had begun updating the document to be re-issued to ensure comments have been reflected. KG explained that the Programme are looking for sign off in principle of the document at this TMAG. This does not mean that the document won't change in the future (it will) but it is important to get it baselined. The document will feed into the re-baselining of the plan (after M5) and requires a confirmed strategy (e.g. activities, responsibilities etc). If the document is not baselined, this will create uncertainty in the re-plan.

KG invited comments before going into detailed discussion on specific comments reviewed. BK asked if there is further opportunity to provide queries/clarifications. KG responded that there will be no formal review but all PPs are invited to contact informally with discussion sessions offered where requested. Anything important share with KG by COP this week (22/04).

Action TMAG04-02: TMAG members provide any final comments on the E2E Testing and Integration Strategy and participation expectations by COP this Friday 22 April

KG moved to run through the comments for discussion on the slide in turn:

1. **Scope of REC Services in Programme Testing:** KG noted that the Programme will take this up directly with RECCo.
2. **Scope and impact of Qualification:** KG noted this was an important issue regarding qualification and would be taken up with RECCo. The Programme's focus is on BSC qualification which will be included in the detailed approach and plan for qualification. JB noted there is an option to review the qualification approach up front with BSC to get more clarity on how the test and qualification approach will work.
3. **Exec Summary comments:** KG noted this was a comment for the programme to address. The Programme does not currently have a detailed feel for software providers. This will be worked through and detailed in the approach and plan (including qualification) such as how software providers will do qualification when working independently for suppliers.
4. **DTN in Scope:** KG commented that DTN is in scope and that the scoping diagram previously presented in TMAG has been updated and included in the document. This feedback was also raised at a previous TMAG.
5. **Entry and Exit Criteria:** KG noted that the PIT entry criteria were not intended to mandate waterfall. PIT entry is about the start of final system testing and after DBT a user acceptance test will start. PIT is for standalone tests by PPs and so a waterfall/agile approach is up to PPs. The end of PIT will look at all PITs done together to ensure individual testing is solid and can move forward into SIT/qualification.
6. **SEC Panel TAG's role:** KG noted that governance should include a reference to SEC Panel TAG role. KG has had discussions with MH on when best to go to SEC Panel TAG to discuss MHHS progress and plans. KG will present at SEC TAG after the E2E Testing and Integration Strategy has been agreed. CB asked if there is a reference in the strategy into SEC TAG governance. KG confirmed there will be and may not go into the level of detail of DCC governance. JB noted a previous discussion on recognising joint governance with SEC. KG agreed and referred to discussions with the DCC constituency rep on joint governance such as how steps in PIT and SIT should be presented across MHHSP and DCC when signed off, to ensure approvals in one governance group work in practice when transferred to the other's workstreams.
7. **CVA interactions:** KG noted CVA interactions will be clarified which will be done in the updated strategy document with internal discussion required offline.
8. **Data generation:** KG noted data generation will be clarified in the updated strategy document with discussion required offline with David Yeoman. This will include how test data will be generated (as raised via the DWG).

9. **SIT and iDNO participation:** KG noted the participation clarification (focus DNOs) will be included in the updated strategy document following further discussion in this TMAG (see following slide). *Please see content below for detailed discussion on participation.*
10. **Test Environments:** KG noted clarification will be provided on the environments and the strategy document currently includes the maximum number currently foreseen. When the environment plan is developed, if test stages do not overlap then the environments will be planned to be re-purposed accordingly. This includes to minimise the number of environments as environments are high cost for industry. There have been suggestions for >1 environment in SIT. Internal discussions have led to the agreement of a single SIT environment as an extra environment could significantly raise cost. SB agreed and noted this is linked to participation clarification 9 and if MHHSP were expecting smaller iDNOs to participate as this would be very high cost for some small iDNOs that cannot be sustained.

KG presented the participation expectations for each BSC role across the E2E testing process as per the slide, in response to clarification 9 above. KG invited comments on this in the meeting and offline by COP this week (22 Apr), as per action TMAG04-02.

KG noted the programme need to add SEC to the SDS role. CB queried on SDS that this is made up of a number of different organisations with different responsibilities – should there be only one responsible organisation per BSC role line? KG clarified if this was in reference to large suppliers. CB clarified not necessarily and that SDS may be suppliers and supplier agents across different data services and therefore that this needs to be split out as testing will be complex across the different groups. JB noted an internal discussion is required given the different BSC roles and how the groups should be split. CB asked if qualification and testing would be split out for multiple service providers within one space. KG confirmed this was complex and required internal review. JB added that the design team should be engaged. KG noted that the document will be reviewed and updated alongside the outputs of the design.

Action TMAG04-03: Programme to meet with the MHHSP Design team to discuss SDS service provider split and participation in testing and qualification

KG asked for comments on the advanced role (e.g. if similar to as per SDS). CB and IH noted they needed to give this some thought. JB asked if IH could consider the SDS breakdown as well. KG noted CVA interactions will be clarified which will be done in the updated strategy document with discussion required offline with David Yeoman. CB noted that the TMAG can get this as right as possible by COP this week and then review again after M5. KG agreed that the TMAG must strike a balance between getting it right enough given known information now and then update at M5.

KG noted on unmetered that this was more straightforward. KG added that the table is useful for showing the full testing scope (e.g. who will/won't need to requalify). On central systems, KG noted this is not required in qualification but is mandatory in SIT. On DNOs and iDNOs, KG noted there had been a lot of questions and the Programme currently see that both are required to requalify as their roles are subject to change due to MHHS. Requalification will be focussed only on things that have changed. DIP and PKI (Public Key Infrastructure) are both central systems and will not go through qualification.

KG noted comments on smoke and connectivity testing on the strategy had been included. SIT functional testing etc will then follow. Central systems must all participate in SIT. Some but not all of the other parties will participate – MHHSP want a representative sample (enough organisations to prove E2E functioning but not so many that testing becomes difficult to manage). Choosing organisations to participate requires further discussion. This also applies for DNO/iDNOs. KG invited questions on SIT. JB added that SIT is there to test the E2E design so enough participants are required to prove the whole E2E design, while qualification is individual specific.

CB noted that terminology and the test stages used by TMAG needs to be reflected in the transition plan (terminology currently in the E2E Testing and Integration Strategy is different from the current Ofgem transition plan) – is this an action that can go into the PM2 replan? KG agreed terminology has been used deliberately including replacing some terms currently used in the transition plan. The current approach is different from the transition plan eg there is “connectivity testing” in the transition timetable but not in the Strategy. CB confirmed that the re-plan would be aligned with the Strategy. JB responded that while the programme is working to the transition plan, there are CRs (CR001/002/003) and the approach to replan is in progress. Only after the CRs and replan will the content of the test strategy be reflected in the transition plan. Until then, there will be a mismatch. KG noted she would add some context on the way E2E Strategy maps to the current transition plan e.g. Component Integration replacing “Connectivity” and “Basic Message Exchange” and Migration testing (additional stage). JB added that the Programme will be translating what the E2E Testing and Integration Strategy means for PPs as part of the replan (e.g. different DBT and PIT timelines depending on when qualification will happen).

KG ran through the final columns on SIT in the participation expectations. KG reiterated the importance of all BSC roles participating in SIT to demonstrate E2E functionality. All roles will require a test environment to ensure this works. Different parties will come into the Component Integration process at different times (e.g. DNOs may come in later than others). SB agreed and noted they wanted to review the registration services approach as different providers have different software. SB would review with providers (e.g. St Clements) but in some cases all DNOs/iDNOs may have to do testing due to different software providers/processes. DNOs could share out SIT stages between organisations. Registration services should be done in a representative way. SB noted they would review with DNOs via DNO forums. JB added that the Programme sees it important to have the level of participation presented to prevent suppliers phasing their migration approach (this would be complex) depending on the parties involved in SIT Operational and Migration testing.

KG invited final comments. None received. KG asked for agreement in principle based on the programme updating the document as per the comments and discussion today and ex-committee approval ahead of May's TMAG.

CB noted he had to leave the call and requested the meeting recording was shared with the Large Supplier Representative.

Action TMAG04-04: Supplier representatives to provide feedback on Advanced Data Service participation expectations (focus qualification)

Action TMAG04-05: iDNO/DNO representative to provide feedback on DNO/iDNO approach to participation

Action TMAG04-06: Programme to update the E2E Testing and Integration Strategy as per the comments received in TMAG and offline. Issue to TMAG members for ex-committee approval ahead of May TMAG (see TMAG-DEC07)

Action TMAG04-07: Programme to share the meeting recording with the Large Supplier representative

TMAG DEC-07: The E2E Testing and Integration Strategy was approved in principle subject to updates as discussed.

5. **Test Data Strategy**

KG provided an update on the Test Data Strategy as per the slide. CW requested that TMAG members provide comments on the document when re-issued. KG noted that the document will be uploaded to the Portal for comment. Parties can write comments directly in the portal or complete a comments log separately.

6. **Working Group plan**

KG provided an update on plans for working groups below TMAG as per the slide. Migration Working Group (MWG) had its first introductory meeting last week. Next month the migration approach will be presented. KG encouraged TMAG members to publicise in their constituencies. The Environments and Configuration Management Working Group (ECMWG) will be mobilised soon (around M5). Further working groups will come and these will be planned in the Programme replan after M5. KG invited comments. None received.

7. **Summary and next steps**

MC summarised the actions as per the summary table. CW ran over the planned agenda items for May TMAG. KG noted the Test Tools Strategy Approval agenda item for May's TMAG would be a discussion not an approval. CW invited any final comments and closed the meeting.

Date of next meeting: 18 May 2022