MHHS PROGRAMME
Industry-led, Elexon facilitated

Design Advisory Group #16
14 October 2022

Version 1.0

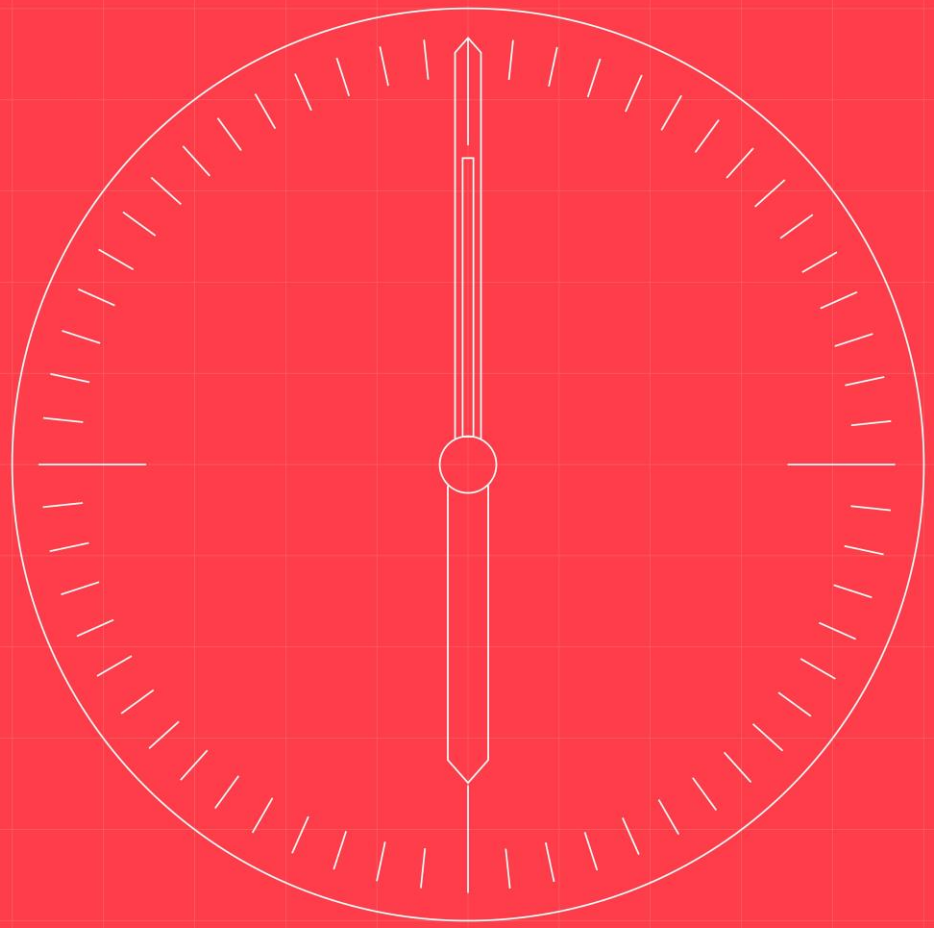
MHHS-DEL655

Document Classification: Public

Agenda

#	Item	Objective	Type	Lead	Time	Page
1	Welcome			Chair	13:00-13:05 *5 mins*	1
2	MHHS Design Status Update	Update on design status	Information	Programme (Claire Silk)	13:05-13:40 *35 mins*	3
3	M5 Decision Process	M5 Acceptance Criteria	Information	Programme (Warren Fulton)	13:40-13:55 *15 mins*	7
4	Transition Approach	Updates on DAG comments on ACTION DAG15-02, ISD entity values release, and other updates	Discussion	Programme (Claire Silk)	13:55-14:25 *30 mins*	9
5	DAG Design Principles	Review DAG Design Principles and discuss new principle on transition	Discussion	Programme (Ian Smith)	*14:25-14:40* *15 mins*	11
6	MHHS Design Assurance Summary	Update on the progress of Design Assurance Activities	Information	Programme (Paul Pettit)	14:40-15:00 *20 mins*	14
7	Minutes and Actions	Approval of minutes and review of outstanding actions	Decision	Chair & Secretariat	15:00-15:20 *20 mins*	18
8	CCIAG Progress Update	Updates from the CCIAG	Information	Secretariat	15:20 – 15:35 *15 mins*	21
9	Programme Updates	Updates from other MHHS governance groups and wider Programme updates	Information	Programme (PMO)	15:35-15:40 *5 mins*	24
10	Summary and Actions	Summarise actions and plan agenda for next meeting.	Information	Chair & Secretariat	15:40-15:45 *5 mins*	26

MHHS Design Status Update



Information: Update on design status

Programme – Claire Silk

35 mins

Design Review Update:

- 3182 comments received from 20 organisations
- 89% of the comments received were determined in triage to be clarifications or cosmetic/minor changes and no significant issues with the design were identified.
- Comment responses were published on 3rd October and are available in the Consolidated Comments Log
- . An Objection process is now in place and the Design Team are engaging directly with participants to discuss any concerns
- Clarification Questions have been moved to the Clarification Log. 69% have already been responded to. The remaining questions will be answered following publication of the revised Design Artefacts on 17th October

Triage Category	No. Comments	%
Cosmetic Change	992	31%
Clarification Question	944	30%
Minor Change	721	23%
Rejected	252	8%
Design Clarification	164	5%
Design Issue	44	1%
Further Information Required	31	1%
Investigation Ongoing	22	1%
Transition Issue	11	0%
Dissensus Issue	1	0%
Grand Total	**3182**	

Constituency	Clarification Question	Cosmetic Change	Design Clarification	Design Issue	Dissensus Issue	Further Information Required	Investigation Ongoing	Minor Change	Rejected	Transition Issue	Grand Total
Central Party	288	218	49	13	1	5	8	267	92	5	946
DNO	75	26	10	6		2		22	8		149
IDNO	12	13	3	1			1	2	3		35
Independent Agent	107	158	39	13		2	5	91	42	2	459
Large Supplier	249	176	12	6		8	3	101	49	2	606
Small Supplier	1										1
Software Provider	212	401	51	5		14	5	238	58	2	986
Grand Total	**944**	**992**	**164**	**44**	**1**	**31**	**22**	**721**	**252**	**11**	**3182**

Design Issues Status Update

- 4 new Design Issues have been raised, details of which can be found on the Baseline Design Issues Log in the Design Artefact Tracker
- Impact Assessment Meetings are in progress to discuss these issues with industry participants and decisions will be sought on preferred option/resolution at the Dissensus Forum meetings scheduled for Wednesday 11th and Thursday 13th Oct- a further update will be provided in the DAG meeting

Tranche	ID	Issue	Description	Impact Assessment Meeting
E2E Review	SNG_045	Advanced Segment- AMR Impacts	Clarity required with regard to AMR meters currently settled under the NHH arrangements	Mon 3rd Oct
E2E Review	SNG_046	DIP Role Code and Participant ID	Preferred option for DIP Role Codes and Participant ID to be agreed	Tues 4th Oct
E2E Review	SNG_047	UMS Data	Clarity required around UMS data and how it is accessed	Wed 5th Oct
E2E Review	SNG_048	E7/E10	Decision required on E7/E10 options	Dissensus Forum- Wed 12th Oct

- Only 1 Dissensus Issue has been identified through the comment triage process, details of which can be found on the Dissensus Register in the Design Artefact Tracker
- Further items may be added to the Dissensus Register depending on the resolution of Objections
- There are a further 22 comments for which further investigation is ongoing within the Design Team to understand the impact, these will be reviewed and prioritised and a further status update provided.

- A DAG Summary Report was published alongside the revised Design Artefacts issued for review on 8th August providing detail of the resolution of the outstanding design issues and dependencies which formed the basis of the Conditional Approval of Tranches 1 to 3

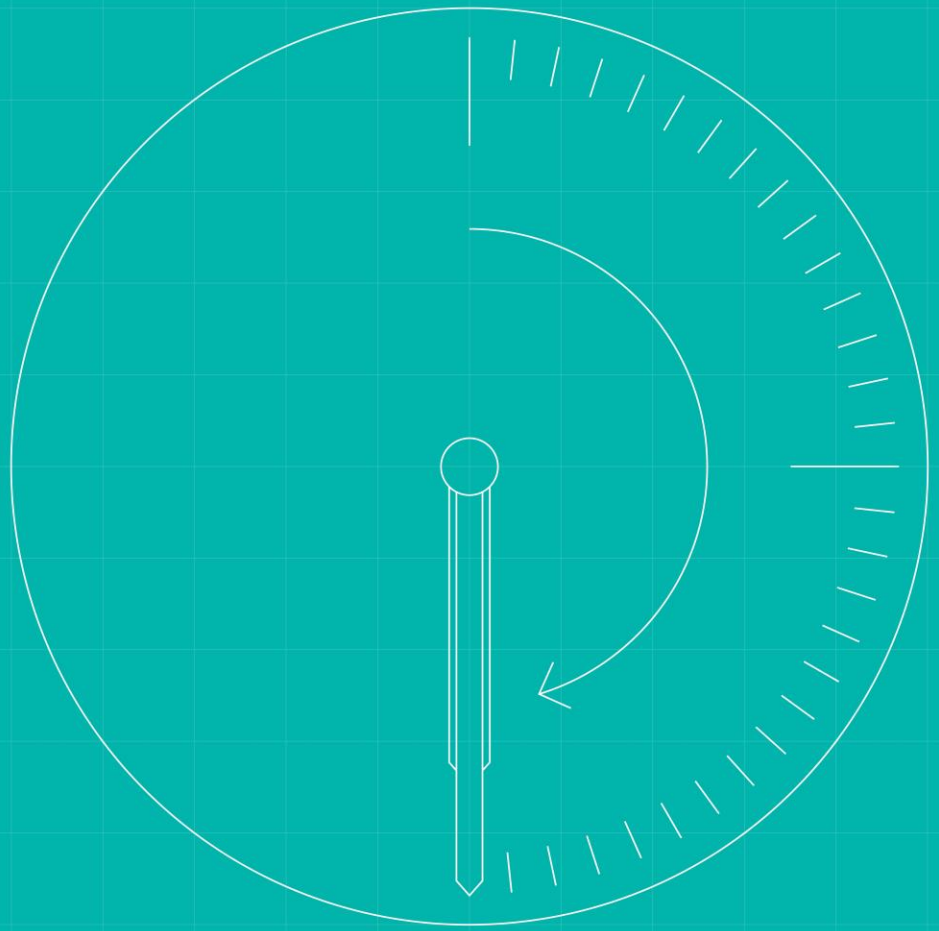
- Detail of the resolution of each issue or dependency, along with reference to the related Design Artefact(s) and the relevant Sub-Working Group was recorded in the Baseline Design Issues Log and Dependency Log in the Design Artefact Tracker.

- The Consolidated Tranche Review Comments Log was updated to reflect where issues and dependencies had been resolved with the associated SNAG ID or Dependency ID referenced to ensure traceability back to the Design Artefact Tracker.

- The Design Artefacts published on 8th August comprised the updated Artefacts from Tranches 1 to 3 along with the Tranche 4 Design Artefacts. Documents were also published with tracked changes along with a Change Control Log for the Business Process Diagrams in the Change Control area of the Collaboration Base.

- BPRWG were asked to review the Design Artefacts to ensure that previous issues had been resolved and to feed back any concerns within their review comments.

M5 Decision Process



INFORMATION: M5 Success Criteria

Programme – Warren Fulton

15 mins

Proposed M5 acceptance criteria

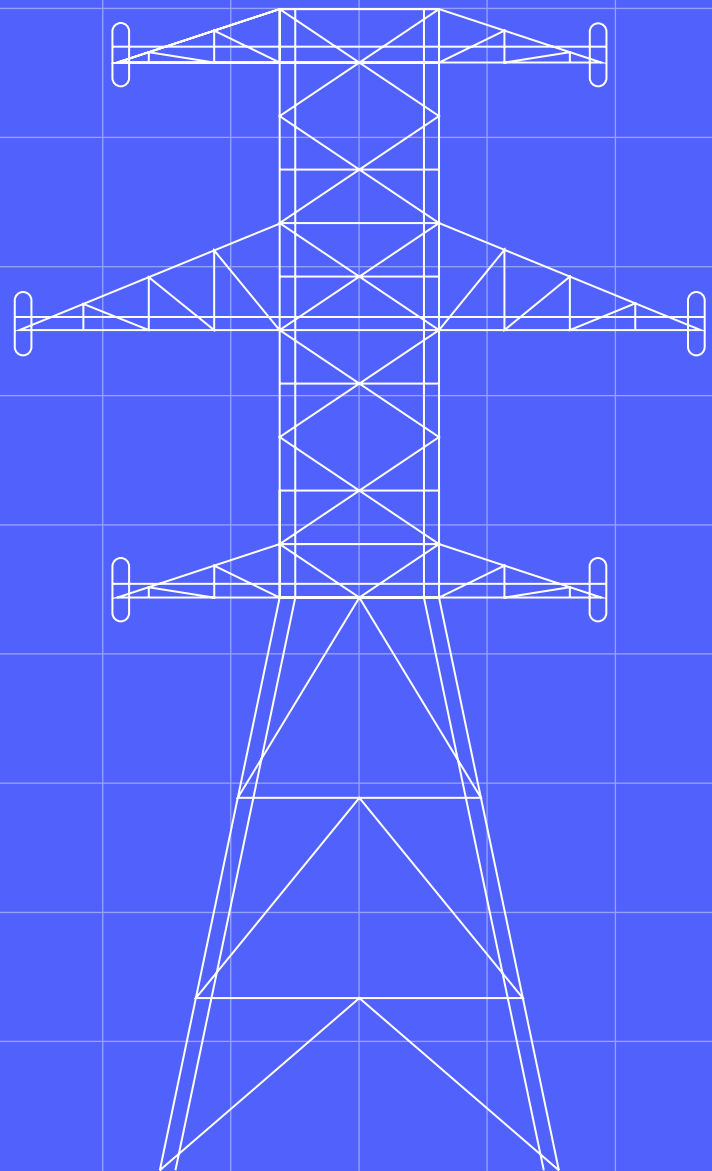
	Criteria
DAG	1. We believe the Design meets the TOM requirements 2. We believe the Design meets the agreed design principles 3. We believe the Design is complete and sufficient to enable participants to commence their own detailed design, and that the SI have appropriately assured it 4. We believe all open material design issues have been resolved, and any residual issues and work-off plans are agreed 5. We believe the change request process and the SI facilitation thereof is appropriate 6. We believe the Design is defined appropriately to allow Code drafting to reflect the design without further design debate or further clarifications
Participants	1. I have had the opportunity to engage in the development and review of the Design Artefacts 2. My contributions have been used or I have received reasonable justification as to why not 3. I know what to expect post M5 4. As an experienced industry technical person, I believe the Design Artefacts can be used to commence my detailed design activities and any associated sourcing of software and services
CCAG	1. We have been kept updated of Design progress to enable the code resource plan to be developed 2. We believe the Design is defined appropriately to allow Code drafting to reflect the design without further design debate or further clarifications

Transition Approach

DISCUSSION: Updates on DAG comments on ACTION DAG15-02, ISD entity values release, and other updates

Programme – Claire Silk

30 mins



DAG Update: MHHSP Migration

The Transition Design is due to be commenced ahead of the end of this year. There are four migration options under consideration, and irrespective of the option that is selected, there are foundational Transition Design requirements that the Programme will develop as a baseline technical solution for all.

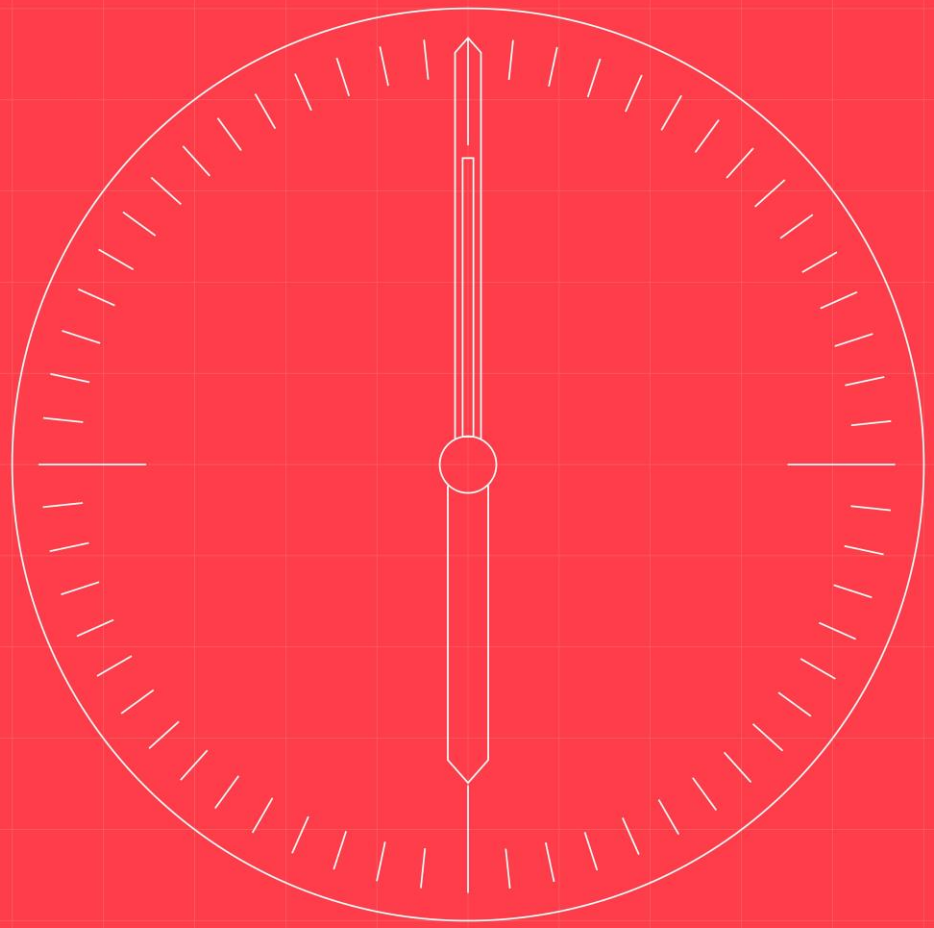
- The MHHS Design team has undertaken a high-level design activity against all the migration options under consideration. This has been walked through within the Migration Working Group (MWG) and is available for participants to review and feed back on.

- A high-level option analysis has been undertaken within MHHSP Migration, with the MWG assessing all four migration options utilising a defined Evaluation Framework to compile both qualitative and quantitative analysis. The target is to have a recommended migration option agreed with Ofgem by end of October 2022.

- Once aligned, the recommended migration option will be fed into the Transition Design phase – and, depending on the option that is aligned on, this may necessitate net additional work above and beyond the Transition Design foundations.

The next Migration Working Group is scheduled for **Thursday 13 October 2022,** from **15:00-17:00.** If you would like to attend to discuss the current migration status and the assessment of the options in detail, please email PMO@mhhsprogramme.co.uk.

DAG Design Principles



DECISION: Review DAG Design Principles and discuss new principle on transition

Programme – Ian Smith

15 mins

High Level Design Principles (1 of 2)

The items listed below represent the current programme view of the high-level principles to be applied to the end-to-end design.

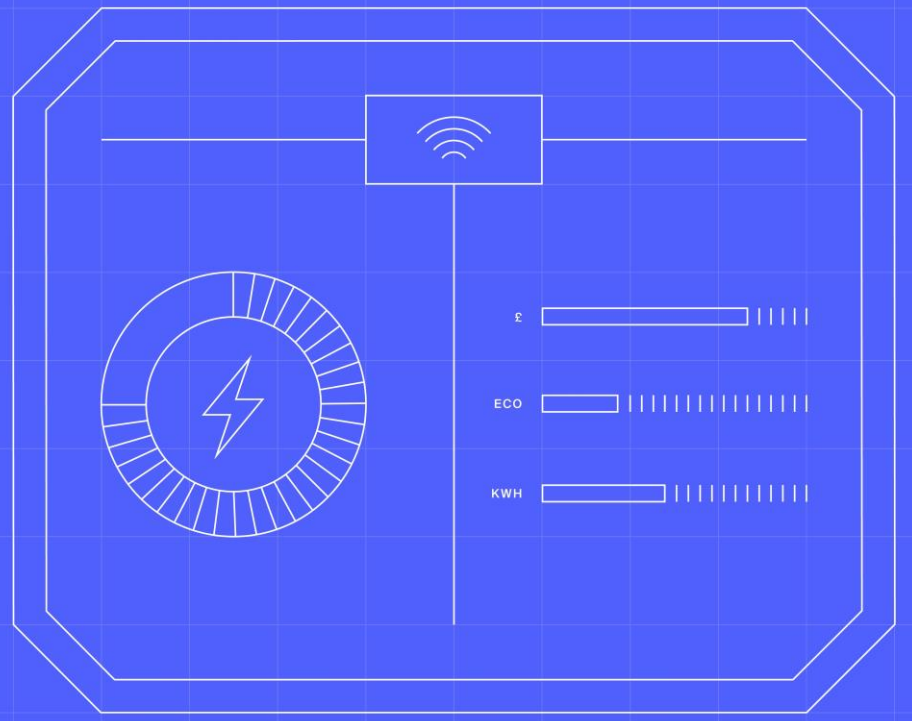
It should be noted that these principles should be adhered to wherever possible, this does not rule out instances where DAG may deviate from these where sufficient justification exists to deliver the core elements of the solution.

Ref	Principle	Scope	Sub-Principle	References
0	The solution will be designed to support timely and accurate settlement.	System Wide		
1	The solution will implement the TOM at a service level with prescribed interfaces between TOM services. The design will be agnostic as to the physical resolution that parties choose in the build of the services, it will only proscribe requirements and such physical characteristics as to enable interface build.	System Wide		PRI017
2	Energy Suppliers can choose how they deliver their TOM Data Services (direct or procured). Suppliers may perform any aspect of any service subject to qualification.	System Wide		PRI016
3	The DIP solution will remain stateless and will not execute Business Processing rules. For the purposes of this principle address derivation and routing are not considered business rules.	DIP	Sending parties are responsible for any follow up for business processes requiring completion (PRI026)	PRI024.PRI025
4	No new DTC flows will be created to resolve interface requirements for MHHS. Nor will there be facsimiles of existing DTC flows created on the DIP.	System Wide		
5	Where optionality exists with regard to resolving an interface to either the DIP or remaining on the DTN the solution will consider the full set of interfaces related to a process or service. i.e. if the majority of flows within a process use the DIP it would not be desirable for outliers to remain on the DTN.	System Wide		
6	Solution assumes that the data held/mastered by the owner/manager is correct. Services will undertake processing in good faith based on the data provided to them. This does not preclude the potential requirements for exception reporting and reconciliation requirements to rectify data quality issues.	System Wide	Will not duplicate items held in other systems(PRI004/005) Will only hold what is required to route messages Will not validate customer opt out (PRI008)	PRI003. PRI001. PRI010. PRI011. PRI019

High Level Design Principles (2 of 2)

Ref	Principle	Scope	Sub-Principle	References
7	TOM Service Operators will be responsible for reporting data accuracy issues to the data owner/manager	System Wide		PRI003
8	Data will be processed by all parties promptly and in accordance with applicable industry codes	System Wide	[Data services should process data in accordance with the settlement timetable]	PRI010
9	The solution will seek to minimise total cost to industry in the delivery of the OFGEM approved TOM services and Integration platform	System Wide		PRI027
10	The solution will be secure, scalable for volume, latency, interfaces and other key technical dimensions.	DiP		PRI015.PRI028
11	Interfaces will only pass those elements of data required in direct support of their governing business process and requirements. Where a changed value falls within a logical group of data e.g. House number in an address the logical group will be sent.	System Wide		
12	Design will be articulated with sufficient breadth and detail required to enable regulatory code drafting in addition to enabling Service Design, Build, Test & Operate.	System Wide		
13	Any technology selection will be mindful of future use cases.	DIP		
14	The solution will seek to maximise the benefits for consumers receiving MHHS services via current and future use cases. This includes benefits from smart metering and other areas captured in the business case.	System Wide		
15	All market participants, operating under MHHS Target Operating Model, will be afforded the ability to deliver the same level of service for the same MHHS service.	System Wide		

MHHS Design Assurance Summary



INFORMATION: Update on the progress of Design Assurance Activities

Programme – Paul Pettitt

20 mins

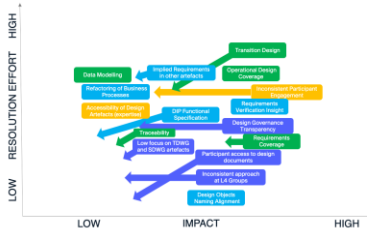
The SI Design Assurance Team has recorded 27 observations, a number of which are positive or which have been resolved by the SRO Design team.

Key Headlines:

- The design represented by the MHHS artefacts provides full coverage for the Target Operating Model at an acceptable level of quality
- The SRO design team has effectively engaged with and responded to programme participants throughout the development of the artefacts
- Opportunities to improve the quality of the design content exist and actions are recommended to reduce the risk of ambiguity or interpretation that could impact all participants entering Design Build and Test (DBT). These recommendations seek to minimise the need to change the MHHS artefacts – e.g. adding acceptance criteria for requirements where these are not apparent from the requirement
- The assurance report (and review deliverable) are progressing through programme review and will be distributed to participants before DAG at the end of the month

Structure of Assurance Observations

Governance

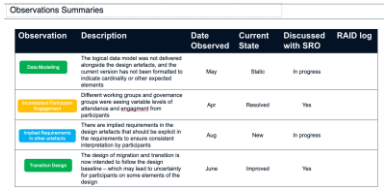


Summary overview as presented periodically to DAG

Design Review and Assurance Report (M5 Deliverable)

Created from content of this deck and record of SI Design activity to date

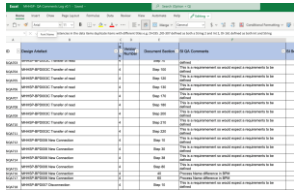
Report



Summary table for tracking

Detailed observations and recommendations (draft for review with Elexon 1 October)

Evidence



Artefact review comments recorded in the SRO/LDP comment log as part of loading the design into iServer (excel)

Requirements assurance is captured in the dashboard and detail queries (ADO)

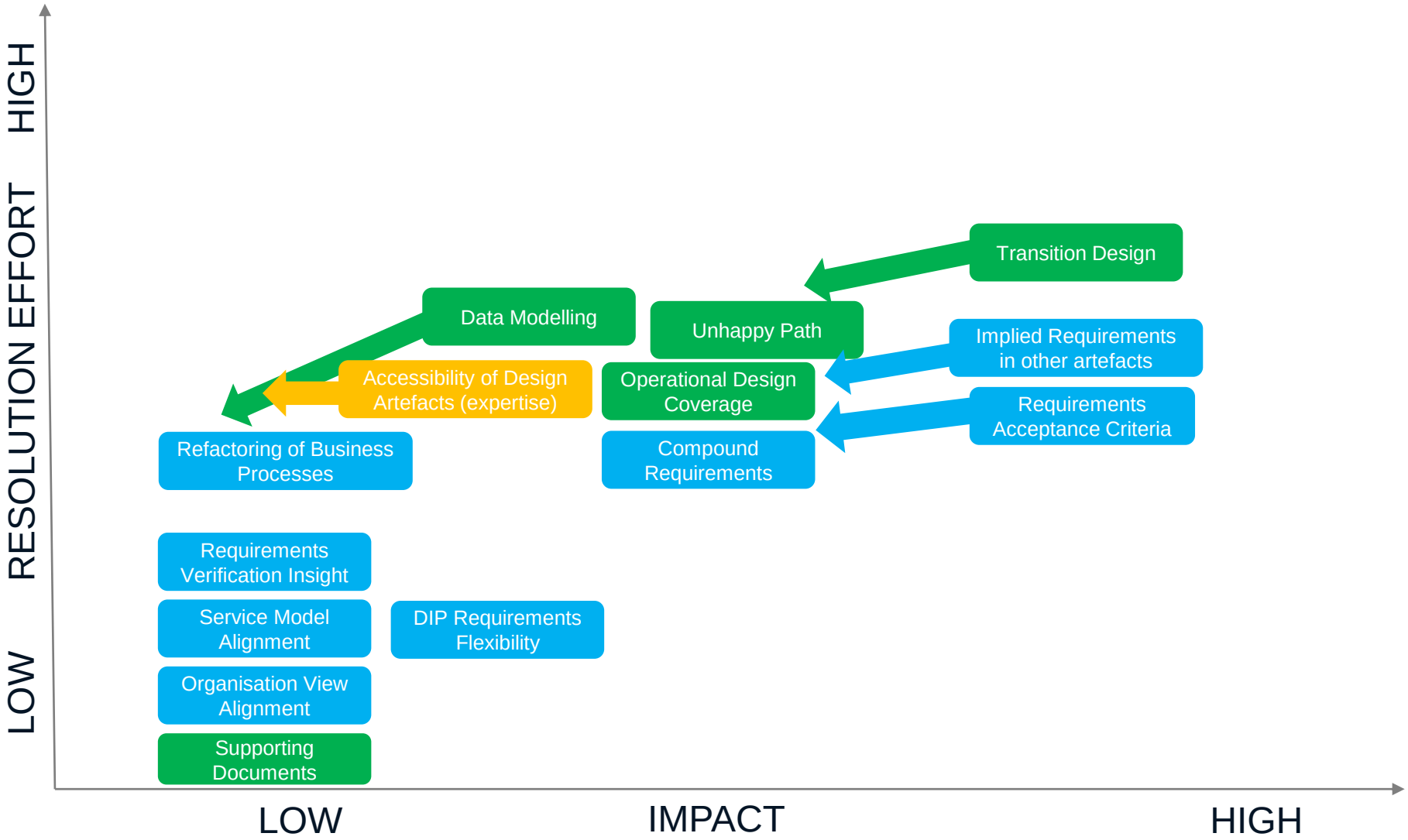
Assurance findings papers – summarising themes identified in the review of the design artefacts

Team observations from attending design working groups and participant bilateral discussions

SI Design Assurance Observations Overview at 07 October

Themes

- Design Coverage
- Design Quality
- Programme Logistics
- Stakeholder



Resolved

- Artefact Quality
- Design Development Approach
- Low focus on TDWG and SDWG artefacts
- Participant access to design documents
- Inconsistent approach L4 Groups
- Design Governance Transparency
- Inconsistent Participant Engagement

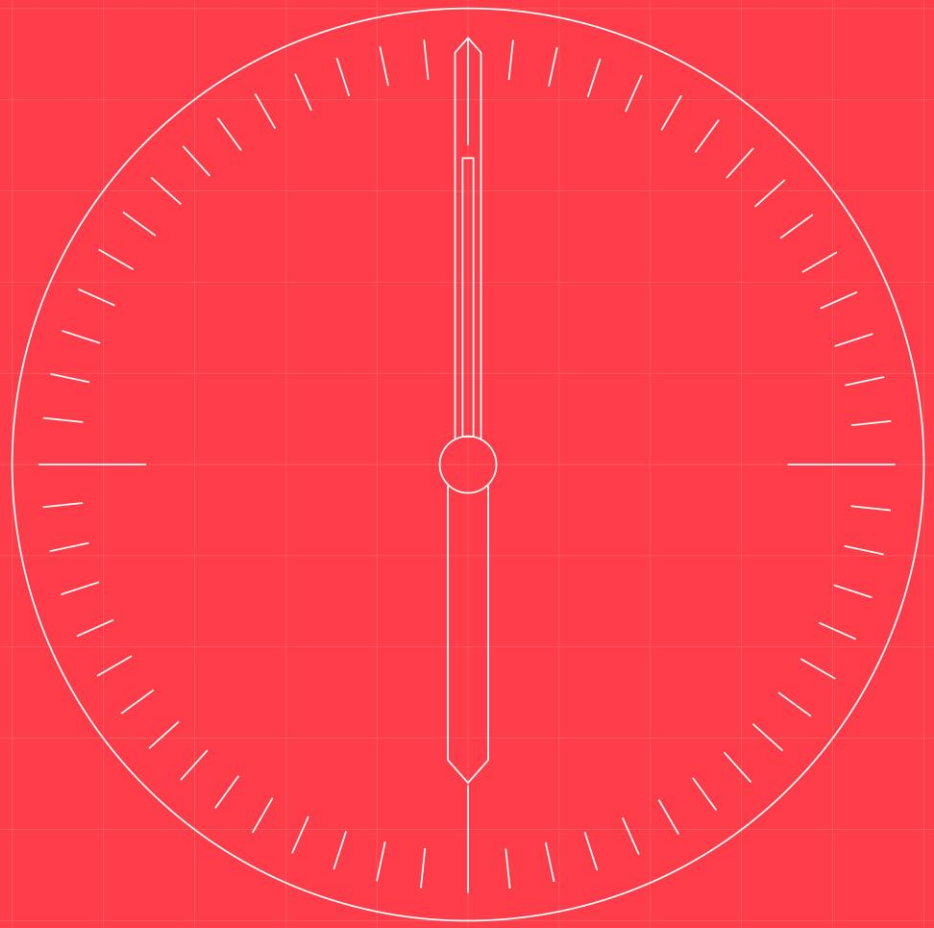
Positive Findings

- TOM Coverage
- Responding to Participant Needs
- Security Design
- Consequential Change Approach

Pending Placement

- Scale of Work Off Plan
- Comment Management
- External Change Governance

Minutes and Actions



DECISION: Approval of minutes and review of actions

Chair & Secretariat

20 mins

Minutes and Actions Review (1 of 3)

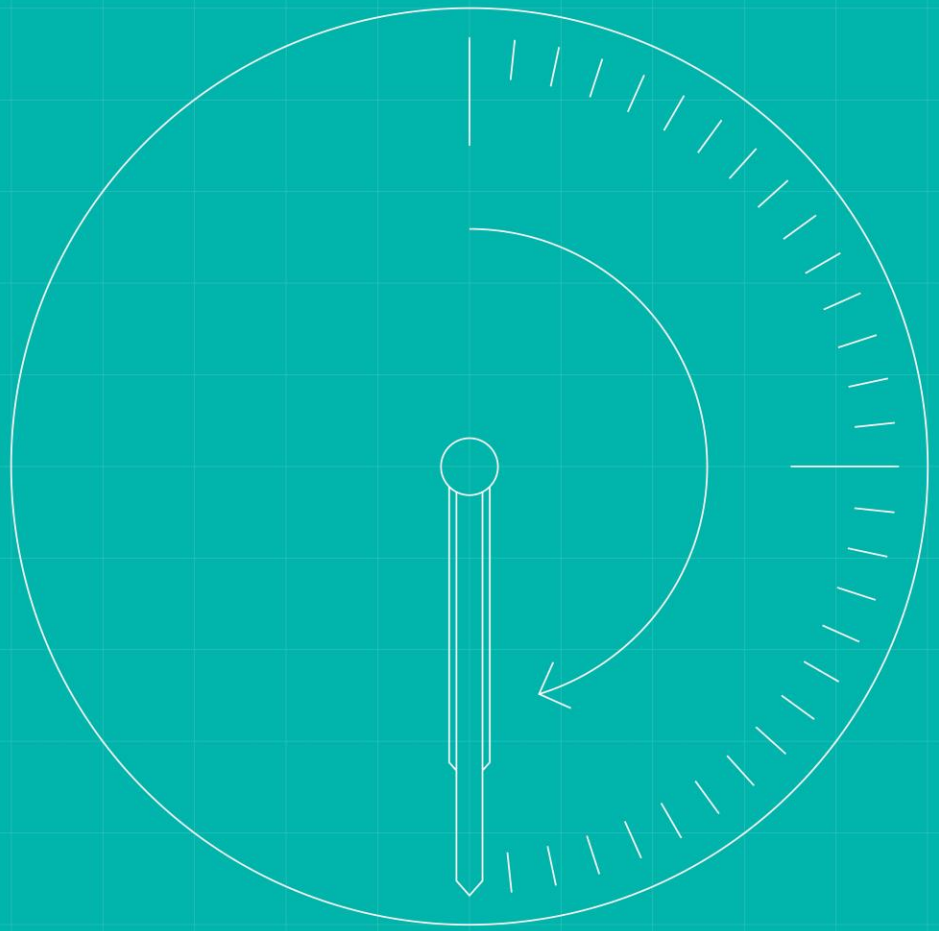
- Approval of minutes of DAG meetings held 14 September 2022.
- In-depth review of outstanding actions:

Ref	Date	Action	Owner	Due Date	Update
DAG06-01	09/03/2022	Review alignment between related MPAN modifications and design subgroup	Programme (Ian Smith)	17/08/2022	ONGOING: Update to be provided in meeting.
DAG11-08	06/07/2022	Ensure Programme risk relating to SEC MP162 covers any governance implications for MHHS and Codes	Programme (PMO)	31/08/2022	ONGOING: The DCC has been directed by Ofgem to identify the impacts of capacity upgrades for either the 8hr or 24hr windows for MDR role
DAG13-08	28/07/2022	Programme Risk related to Change Requests once Design is baselined. Add to Programme risk log if not, and import into Design Risk Log	Programme (Ian Smith)	10/08/2022	ONGOING: Confirmation needed on risk log update.
DAG13-09	28/07/2022	Check timings for performance assurance requirements work	Chair	10/08/2022	ONGOING: Timings to be noted after CCAG meeting
DAG13-12	28/07/2022	Find out when iServer release will be, update the SI Design Assurance Observations Overview slide and look into suitable supporting information to go with it.	Programme (Simon Harrison)	10/08/2022	ONGOING: The release date for the Ensuring Design Hub will be close to the design baseline
DAG14-01	10/08/2022	Programme to provide information on timeline for iServer implementation (see also ACTION DAG13-12)	Programme (Paul Pettit)	07/09/2022	ONGOING: See ACTION DAG13-12.
DAG14-05	10/08/2022	Programme to confirm whether Industry Standing Data (ISD) entity values will be published as part of M5 or transition plan	Programme (Chair)	07/09/2022	ONGOING: Population of items will be post M5 baseline decision, date to be agreed in replan work. Action needing rewording to include role codes
DAG14-06	10/08/2022	RECCo to advise of any high priority Industry Standing Data (ISD) related items for consideration by the Programme (see also ACTION DAG14-05)	RECCo (Jon Hawkins)	07/09/2022	RECOMMEND CLOSED: Update to be provided in meeting
DAG14-07	10/08/2022	Programme Design Team to liaise with TMAG to confirm how engagement with industry will take place on transition approach/options	Programme (Ian Smith)	07/09/2022	RECOMMEND CLOSED: Update to be provided at meeting

Minutes and Actions Review (2 of 3)

Ref	Date	Action	Owner	Due Date	Update
DAG15-01	14/09/2022	Issue slides presented to MWG on transition approach to DAG for comment (see ACTION DAG15-02)	Programme (PMO)	15/09/2022	RECOMMEND CLOSED: Slides issued with DAG 14 Minutes.
DAG15-02	14/09/2022	DAG members to provide comments on the transition approach options and high-level proposals (see ACTION DAG15-01)	DAG members	21/09/2022	ONGOING: No comments received.
DAG15-03	14/09/2022	Confirm view on whether MPRS and EES are considered central systems, and to liaise with other Programme WGs to confirm the Programme position	Programme (SRO)	14/10/2022	ONGOING: Update to be provided in meeting.
DAG15-04	14/09/2022	Issue comms/calendar invites for Design Issue Impact sessions, dissensus sessions, BPRWG & TDWG assurance sessions	Programme (PMO)	15/09/2022	RECOMMEND CLOSED: Invites and comms issued.
DAG15-05	14/09/2022	Programme to issue information on outcome of code drafting prototyping exercise to support the fulfilment of the design acceptance criteria	Programme (Ian Smith)	14/10/2022	ONGOING: Update to be provided in meeting.

CCIAG Progress Update



INFORMATION: Updates from the CCIAG

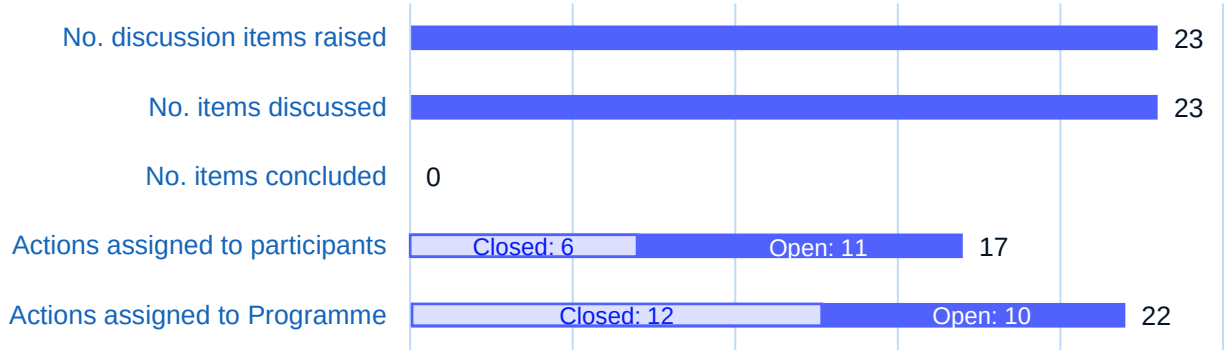
Secretariat

15 mins

Consequential change: Summarise activity at the Consequential Change Impact Assessment Group (CCIAG)

CCIAG metrics

The following graph summarises consequential change activity taking place via the CCIAG



Key topics under discussion

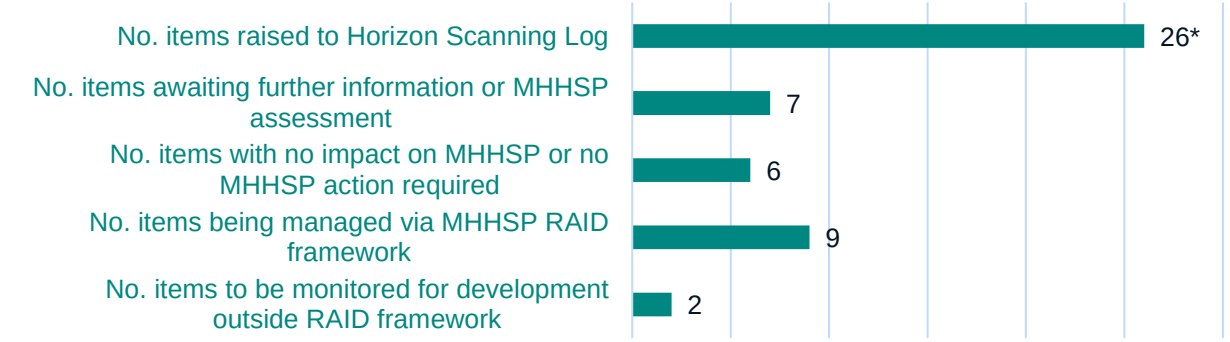
- Removal of EACs and AAs
- Removal of SSCs and TPRs
- Related MPAN definition
- Settlement performance assurance
- Supplier exception processes
- Linking import/export meters
- SDEP messaging
- CCIAG meeting papers available here

Magnitude of items

The CCIAG's assessment and categorisation method is still under development, however no matters have yet been raised which require a Programme Change Request or other significant change to MHHS design artefacts.
The majority of matters currently under discussion by the CCIAG relate to the Retail Energy Code and Supplier processes based on data items which will be removed under MHHS – as such, there are ramifications for participants and the Programme is collaborating via CCIAG to mitigate these. Industry Standing Data (ISD) and performance assurance are also under discussion.

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

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



More information can be found via the CCAG meeting papers

Horizon Scanning Process

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

Industry code changes: 21 – REC: 8, BSC: 7, SEC: 3, DCUSA: 3

Wider industry changes: 5 – HH opt-out, DUoS SCR, code review, microbusiness def

Criticality of horizon scanning items – High: **5**, Medium to High: **3**, Medium: **2**, Low: **11**

Top RAID linked items:

- **SEC MP162** (R0011, R0083, R0113, R0115, R0116, R051, R0182, R0191, D0076, D0077)
- **BSC CP1558** (R0200, D0068) • **REC R0032** (D0068, D0069) • **REC R0044** (D0055)

The objective of our consequential change process is to appropriately manage consequential change items tabled by industry by assessing, categorizing, and directing necessary action (and delivering actions where required)

To do this, we need a consequential change process that has:

1. An open mechanism for industry to table and discuss consequential change items
2. Robust assessment and categorization of consequential change items
3. Action plans created and tracked where necessary, with an audit trail of outcomes
4. Demonstrable risk management

To achieve this, the Programme has implemented the following:

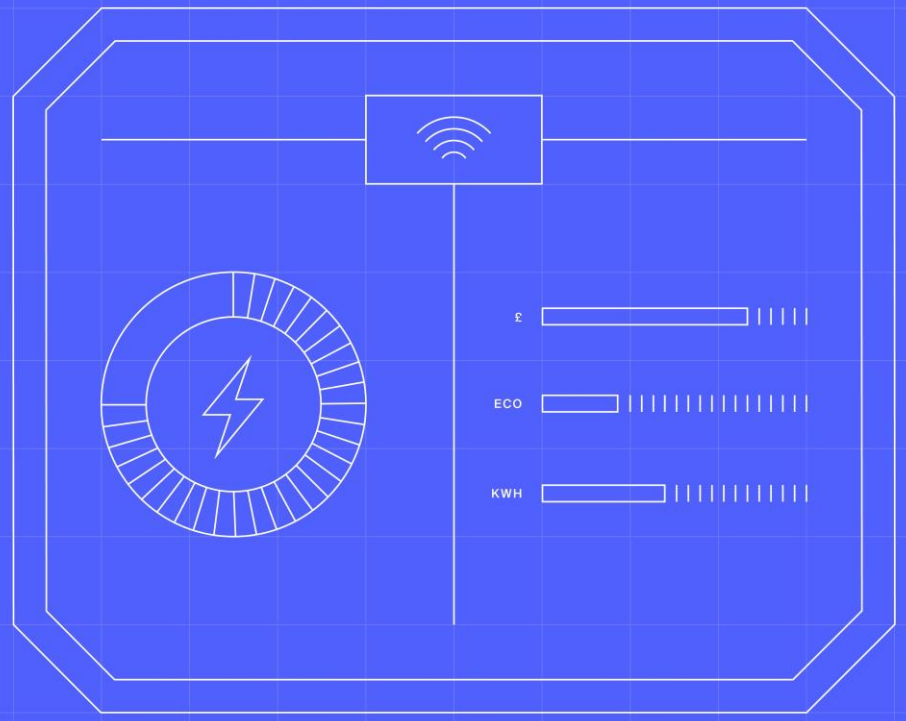
1. **Industry interface for consequential change** items to be raised and discussed via the Consequential Change Impact Assessment Group (CCIAG) level 4 discussion forum. The CCIAG sits under the Design Advisory Group (DAG) and is held on the fourth Thursday of each month. The CCIAG terms of reference can be found here for more information
2. **A set of management tools**:
    a) Consequential Change log tracking all items tabled and their status
    b) Structured assessment criteria
    c) Defined approach for categorisations, outcomes, and action management

Programme Updates

INFORMATION: Updates from other MHHS governance groups and wider Programme updates

Programme - PMO

5 mins



Governance group updates

Programme Steering Group (PSG)

Updates from PSG 05 October 2022

1. **Readiness for M3 and DBT –** constituency reps provided a view of readiness for DBT in their constituency. Most feedback was positive. The PPC gave an overview of Readiness Assessment 2. The PSG discussed the approach to making the M3 decision at November PSG.
2. **Programme Replan Progress** – the Programme presented the approach to the replan following Round 2 consultation. The PSG agreed to make the decision to move to Round 3 conditional on PSG decision.
3. **Delivery of Core Capabilities –** the Programme intends to hold monthly delivery meetings with providers of core capabilities. RECCo presented their plan.
4. **Key Programme Issues –** DCC and the Programme updated on MP162 & migration.
5. **Commercial impacts of settlement –** the Programme will explore how commercial impacts of settlement are considered

PSG Headline Report available here.

Cross-Code Advisory Group (CCAG)

Update from CCAG 28 September 2022

1. **Horizon scanning log –** the CCAG heard updates from Code Bodies on the content of the Horizon Scanning log and agreed next steps
2. **Code Drafting Plan update** – the Programme provided an update on the code drafting plan. Code bodies updated on the approach to legal review
3. **Replan activity for M7/M8** – the Programme updated on M7/M8 timelines as part of the Round 2 replan consultation. The CCAG discussed appropriate delivery dates for these milestones
4. **Code draft prototyping** – BSC and REC provided an update on recent code draft prototyping activity, including the use of iServer
5. **CDWG update** – the CCAG agreed to stand down the October CDWG

CCAG Headline Report available here.

Testing and Migration Advisory Group (TMAG)

Update from TMAG 22 September 2022

1. **Programme Re-plan –** The Programme provided a comparison between the two POAPs (Plan on a Page) shared as part Round 2 of the Programme's re-plan consultation. TMAG members were encouraged to respond to the consultation, with evidence.
2. **Working Group Updates –** the TMAG heard updates from the DWG, MWG, QWG, and EWG. A focus was on activity at the MWG where options for the Programme approach to migration were being developed.

TMAG Headline Report available here.

Wider Programme updates

Programme re-plan

- **Round 1 replan consultation closed 26 August 2022**. This round focused on selected high-level Planning Artefacts, provided to improve consensus on plan structure, activity durations and sequencing, and to test high-level assumptions, dependencies, and related risks.
- **Round 2 replan consultation closed September 2022.** A full draft Programme plan has been published , including all activities, activity durations, milestones and dates, sequencing, and risks / assumptions / issues / dependencies information.
- **Round 3 replan consultation operates**
- If you would like to attend any walkthrough session or require assistance obtaining re-plan content from the Collaboration Base. Please contact PMO@mhhsprogramme.co.uk for more information.

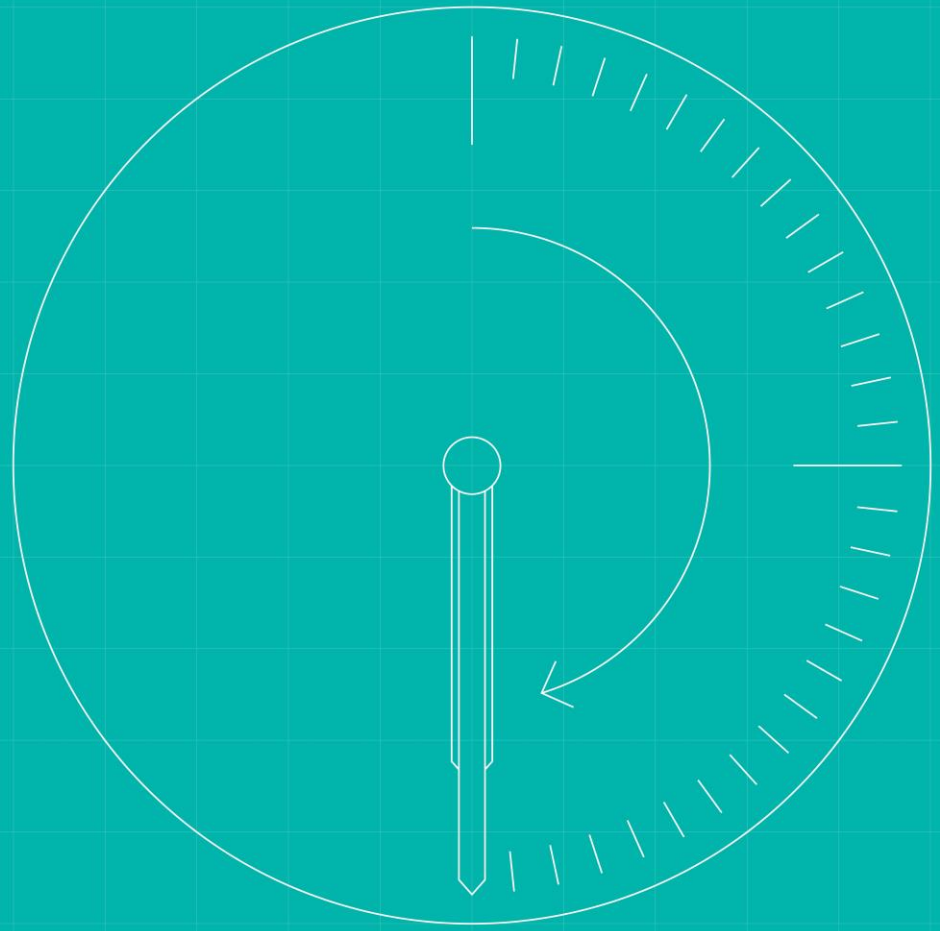
Design Progress

- **The design baseline consultation closed on Friday 16 September.** Over 3000 comments were received and the MHHS Design Team are now triaging all comments with the intention of issuing response to every comment no later than 03 October 2022. All consultation **design artefacts are available** via the Programme Collaboration Base.
- **As part of the Design Comment Review, BPRWG and TDWG Assurance Forums will be held 19 and 20 October 2022.** An overview of the schedule, with Eventbrite links and details, can be found here.
- **Following the Design Playback sessions in August 2022, a** range of support material is available via the Collaboration Base playback recordings are available on the MHHS YouTube channel.

Code Drafting Process

- The next CCAG on Wednesday 26 October will be focused on code drafting preparation and planning.
- Subject to M5, M6 delivery (drafting of code changes) will commence on Wednesday 23 November.

Summary and Actions



INFORMATION: Summarise actions and plan agenda for next meeting

Chair & Secretariat

5 mins

Next Steps

- Confirm actions from meeting
- Forward meeting schedule
- Next DAG meeting: **31 October 2022 10:00-17:00**
- Next CCIAG meeting: **27 October 2022 10:00-12:00**

If you would like to propose an agenda item for the DAG or would like any information about DAG working groups and subgroups, please contact the Programme PMO (PMO@mhhsprogramme.co.uk)

DAG Forward Look

DAG Agenda Roadmap:

Meeting dates	14-Oct	31-Oct	09-Nov	14-Dec
Relevant milestones/activities		M5 approval		
Agenda items	M5 Update Design issues discussions Post-M5 DAG Approach Design assurance updates	MHHS design approval Post-M5 change control process	Post M5 work off Change requests	Post M5 work off Change requests
Standing items	Minutes & actions Governance group updates DAG Design Principles Design Decisions Level Playing Field Principle MHHS Design Dashboard L4 working group report Summary and next steps	Minutes & actions Governance group updates DAG Design Principles Design Decisions Level Playing Field Principle MHHS Design Dashboard L4 working group report Summary and next steps	Minutes & actions Governance group updates	Minutes & actions Governance group updates