



**MHHS
PROGRAMME**
Industry-led, Elexon facilitated

Design Advisory Group #29

11 October 2023

Version 2.0

MHHS-DEL1685

Document Classification: Public

Agenda (1 of 2)

#	Item	Objective	Type	Lead	Time	Page
1	Welcome	Introduction to meeting and member apologies	Information	Chair	10:00-10:05 5 mins	1
2	Minutes and Actions	Approval of minutes and review of actions	Decision	Secretariat	10:05-10:25 20 mins	4
3	Upcoming Programme Milestones related to DAG	Update on the upcoming Programme Milestones related to DAG	Information	Programme (PMO)	10:25-10:35 10 mins	7
4	CR032 Impact Assessment	Decision on issuance of CR032 to Impact Assessment	Decision	Programme (PMO)	10:35-10:45 10 mins	9
5	Updates to the Interface Code of Connections	Decision on SDWG recommendation to approve minor updates to the Interface Code of Connections	Decision	Programme (Kevan Gleeson)	10:45-10:55 10 mins	12
6	UTC vs Clock Times	DAG decision on Service Appointment Times and CoS Read Times	Decision	Programme (Matt Hall)	10:55-11:05 10 mins	15
7	Transition Design Updates	Decision on issuance of Transition Design artefacts to consultation	Decision	Programme (Andrew Margan)	11:05-11:15 10 mins	19
8	Testing Release Strategy	Overview of design release into testing programme strategy	Information	Programme (Lee Cox)	11:15-11:25 10 mins	22
9	Design (DIN)	Updates on Design (DIN)	Information	Programme (Paul Pettitt)	11:25-11:35 10 mins	29
10	DAG Terms of Reference	Review and approval of updated DAG Terms of Reference	Decision	Chair	11:35-11:55 20 mins	31
11	Top Programme Risks related to DAG	Update on the top Programme Risks related to DAG	Information	Programme (PMO)	11:55-12:05 10 mins	34

Agenda (2 of 2)

#	Item	Objective	Type	Lead	Time	Page
12	Programme Updates	Updates from other MHHS governance groups and wider Programme updates	Information	Programme (PMO)	12:05-12:10 <i>5 mins</i>	36
13	Summary and Next Steps	Summarise key discussions, actions, and next steps	Information	Chair & Secretariat	12:05-12:15 <i>10 mins</i>	38

[Appendices / Attachments](#)

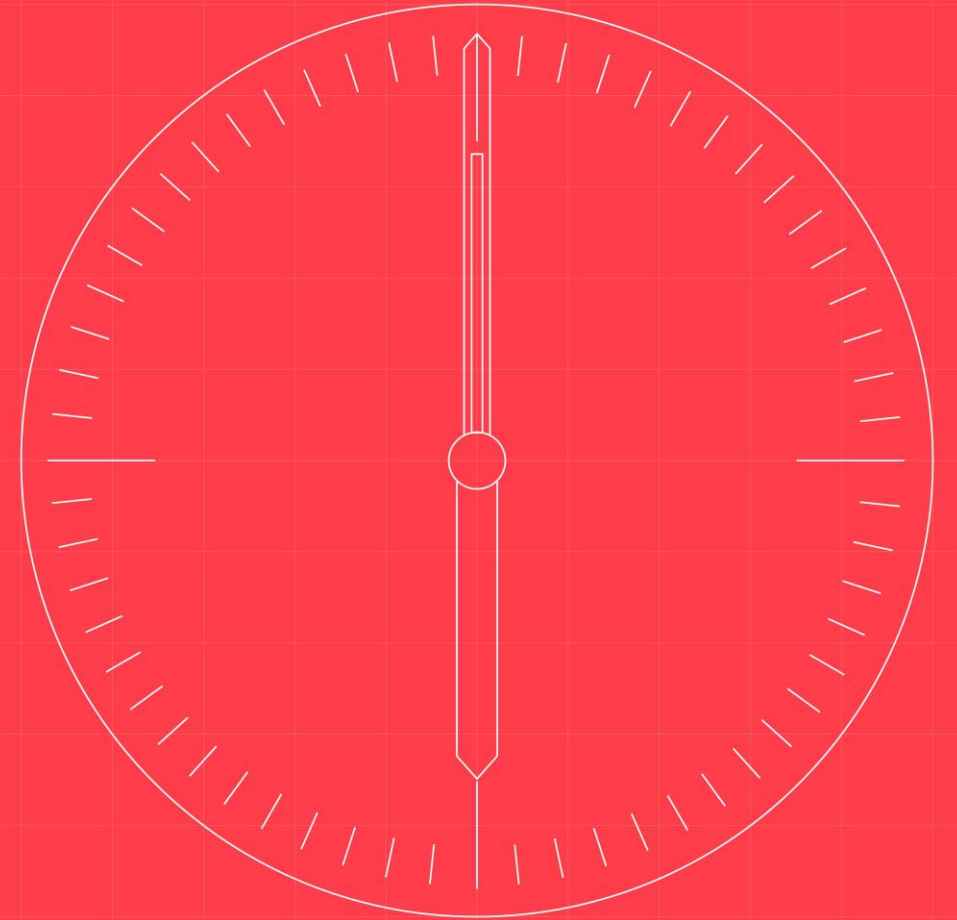
- Attachment 1 – DAG 13 September 2023 Minutes v1.1 (change marked)
- Attachment 2 – CR032 - Change to Interface MHHS-IF-165 P0210 TUoS Reporting v1.3
- Attachment 3 – Interface Code of Connections v1.1 (change marked)
- Attachment 4 – Updated DAG ToR v1.3 (change marked - for DAG Review)
- Attachment 5 – Transition Design (Settlement Timetable Transition) Artefacts (zip)
- Attachment 6 – UTC vs Clock Time Supporting Information v1.0

Minutes and Actions

DECISION: Approval of minutes and review of actions

Secretariat

20 mins



Minutes and Actions Review (1 of 2)

- Approve Headline Report and change marked Minutes of DAG held [13 September 2023](#)
- Review outstanding actions:

Ref	Action	Owner	Due	Latest update
DAG27-08	Programme to confirm version incrementing arrangements for data flows and scenario variants changing as a result of MHHS	Programme (Matt McKeon)	13/09/2023	ONGOING: Action is ongoing until October when the Data Specification code drafting is published. Update to be provided in meeting.
DAG28-01	Programme to provide overview of the Related MPAN Explainer document to the Design Resolution Group (DRG)	Programme (Rob Short)	11/10/2023	RECOMMEND CLOSED: Discussed at DRG. Minor updates to document agreed.
DAG28-02	Large Supplier Representative to provide to Chair view of whether other Large Suppliers and their agents will use the CR023 solution	Large Supplier Representative (Haz Elmamoun)	11/10/2023	RECOMMEND CLOSED: Some Large Suppliers are assessing whether they will use it, one has confirmed they will. Confidential breakdown provided to DAG Chair.
DAG28-03	Programme to ask FTIG members whether they intend to use the CR023 solution, and whether they will seek to use this bilaterally or via the DIP, to assist in informing implementation timescales	Programme (Fraser Mathieson)	11/10/2023	RECOMMEND CLOSED: Raised to FTIG on 29 September 2023. No outright confirmation of intended use provided, however several Suppliers advised development of the solution was required to confirm.
DAG28-04	Programme to raise Design Issue Notifications (DINs) for the implementation of CR024 and CR025	Programme (Berlinda Kugara)	15/09/2023	RECOMMEND CLOSED: DINs 685 and 686 raised.
DAG28-05	Programme to consider the potential implications for MDR qualification as part of the detailed design activities (including the approach to DIP onboarding and ISD Management for MDRs using this optional solution) and engage with code bodies as required	Programme (Design Team)	11/10/2023	ONGOING: To be discussed in meeting.
DAG28-06	Programme to issue workshop dates for CR023 development for implementation	Programme (Berlinda Kugara)	11/10/2023	RECOMMEND CLOSED: Workshop dates issued. First workshop taking place on 09 October 2023. Participants given option to send in written feedback if unable to attend.
DAG28-07	Programme to advise what is meant by major and minor releases during SIT and how these affect the approach and timings of Interim Releases	Programme (Testing Team)	11/10/2023	RECOMMEND CLOSED: See Agenda item 7. Update to be provided in meeting.

Minutes and Actions Review (2 of 2)

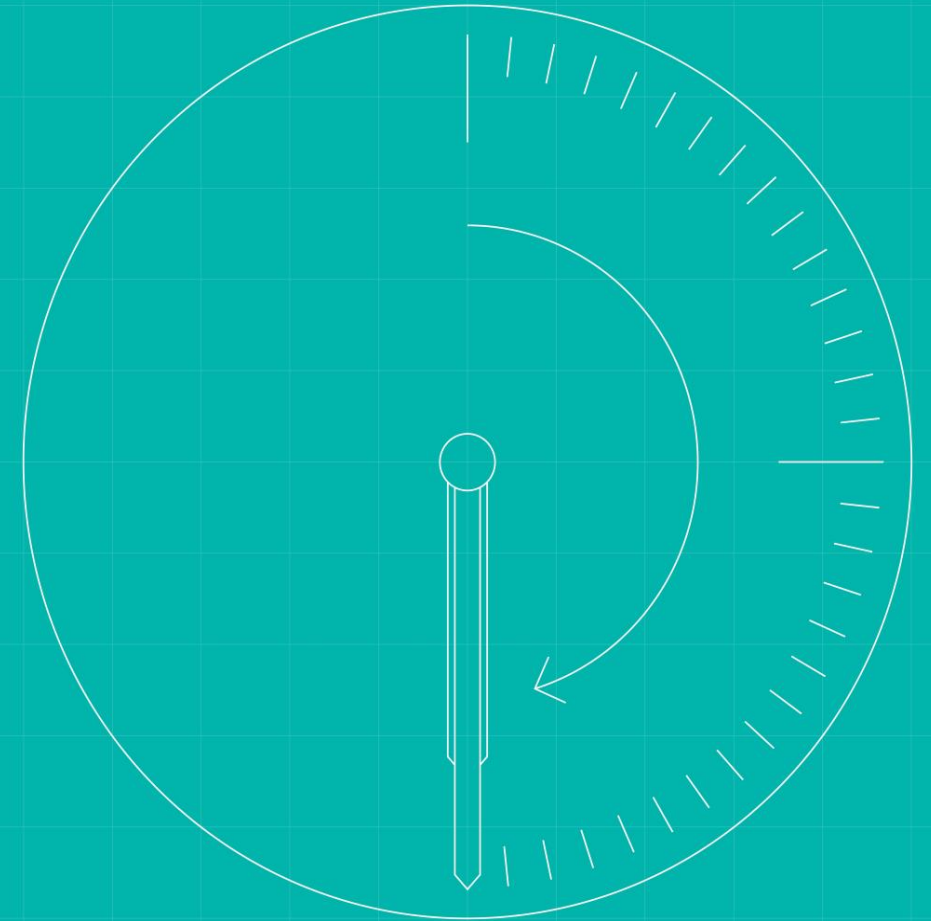
Ref	Action	Owner	Due	Latest update
DAG28-08	Programme to confirm whether CR027 solution will be part of SIT (with a new DIP flow)	Programme (Fraser Mathieson)	11/10/2023	RECOMMEND CLOSED: Update to be provided in meeting.
DAG28-09	Programme to review redline changes for CR027 and CR019 to ensure alignment to what was approved in CR	Programme (Design Team)	11/10/2023	RECOMMEND CLOSED: Review undertaken, and alignment confirmed. Both CRs implemented in Interim Release 5 on 04 October 2023.
DAG28-10	Programme to confirm whether potential changes by Avanade to account for optionality of LDSO's to receive relevant PUBs, will require a change to design artefacts	Programme (Design Team)	11/10/2023	RECOMMEND CLOSED: No functionality change or Programme Change Request required. Potential updates to the End-to-End Technical Document to be undertaken via DIN.
DAG28-11	Programme to provide worked examples to DAG of compressed payload ECS reports	Programme (Paul Pettitt)	11/10/2023	RECOMMEND CLOSED: Update to be provided in meeting.
DAG28-12	Programme to provide update on the retrospective amendments process issue and raise for discussion at the DRG meeting	Programme (Paul Pettitt)	11/10/2023	ONGOING: The Programme are holding discussions with LDSOs, and will then undertake discussion with wider participants.
DAG28-13	Programme to issue change marked DAG Terms of Reference for review/discussion at next meeting	Programme (PMO)	11/10/2023	RECOMMEND CLOSED: Change marked ToR provided as Attachment 4 of meeting papers for DAG on 11 October 2023.
DAG28-14	Programme to review and address DAG comments on draft ToR and release updated version to DAG	Chair	11/10/2023	RECOMMEND CLOSED: Amendments applied in accordance with comments provided and updated version published provided as Attachment 4 of meeting papers for DAG on 11 October 2023.
DAG28-15	Programme to consider inclusion of related milestones in RAID update slides	Programme (PMO)	11/10/2023	RECOMMEND CLOSED: Update to be provided in meeting.

Upcoming Programme Milestones related to DAG

INFORMATION: Update on the upcoming Programme milestones related to DAG

Programme (PMO)

10 mins



Upcoming milestones relevant to DAG

Upcoming milestones (rolling 3 months)

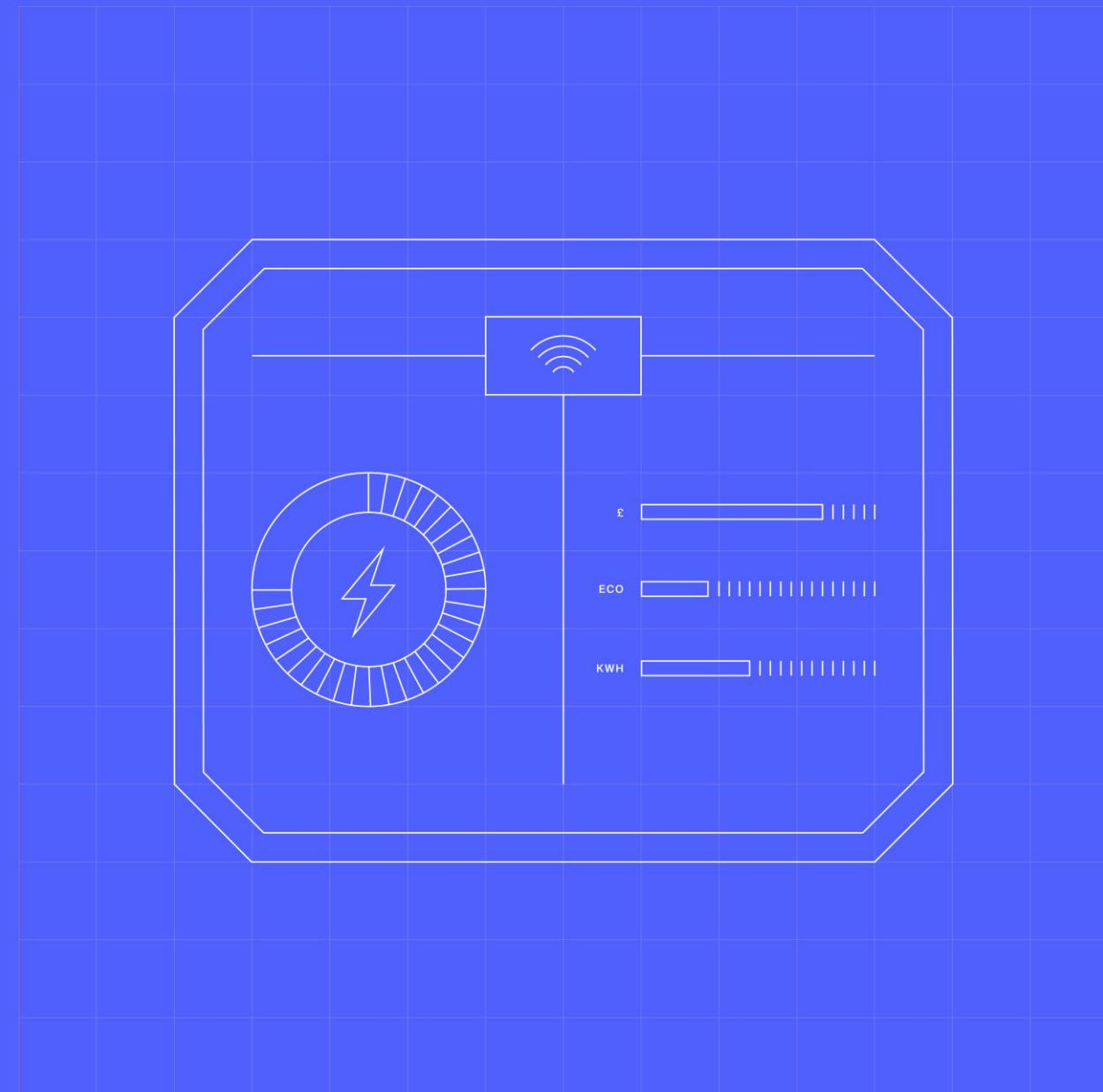
Milestone ID	Milestone Title	Baseline Date	Forecast Date	Responsible	Last RAG	Current RAG	Next RAG	Update
T3-DB-0083	Interim release 5 Go live	Wed 04/10/23	Wed 04/10/23	SI Design	On track	Complete	On track	
T3-DB-0085	Interim release 6 Go live	Fri 27/10/23	Fri 27/10/23	SI Design	On track	On track	Complete	
T2-DB-0100	Phase 1 - SIT Volunteers (Core Providers) complete	Fri 27/10/23	Fri 27/10/23	SI Design	On track	On track	Complete	
T2-DB-0250	Tranche 2 Transition Design Baselined	Wed 15/11/23	Wed 15/11/23	SRO	At risk	On track	On track	
T2-DB-0200	SIT PPs design assurance (excl Migration/Reverse Migration) complete	Wed 22/11/23	Wed 22/11/23	SI Design	On track	On track	On track	
T3-DB-0098	Interim release 7 Go live	Wed 29/11/23	Wed 29/11/23	SI Design	On track	On track	On track	

CR032 Impact Assessment

DECISION: Decision on issuance of CR032 to Impact Assessment

Programme (PMO)

10 mins



CR032 'Change to Interface MHHS-IF-165 P0210 TUoS Reporting' overview

Objective: DAG to validate CR032 for Impact Assessment

Change to Interface MHHS-IF-165 P0210 TUoS Reporting

Issue Statement:

- The P0210 file is currently generated by Elexon's Supplier Volume Allocation Agent (SVAA) system and is used by the ESO for the purpose of TNUoS and BSUoS charging, reporting and forecasting. **The ESO is the sole recipient of this file.**
- This file is in scope of the interfaces impacted by MHHS. The Programme have proposed a revised P0210 file. This is linked below and described as report ELEX-REP-080 / interface MHHS-IF-165. This proposed file would be used to report migrated consumption only. Non-migrated consumption would continue to be reported using the existing P0210 file layout. ESO would be required to load both versions of the P0210 and combine the data for the purpose of TNUoS and BSUoS reporting.
- This approach would increase delivery timescales and would see a significant increase in effort, cost and risk for both Elexon and ESO due to the resultant significant changes required to both parties' software systems. In particular there is an issue that the original design could not be delivered by the Helix programme ready for the start of SIT testing unless there was a significant change to the Helix programme priorities.

Description of change:

In brief, this change will consist of three elements.

- Remove the responsibility for defining the design of the ELEX-REP-080 / P0210 file from the scope of the MHHS programme. This responsibility will sit with ESO and Helix / Elexon.
- SIT testing of the file would be performed as a collaboration between the ESO and Helix / Elexon, and is outside the scope of the MHHS programme.
- A dependency would be built between the development and testing of this change and the overall MHHS programme.

The derivation of the fields that constitute the P0210 / ELEX-REP-080 are outside the scope of MHHS and therefore are not relevant to this CR.

Testing would be outside the scope of the MHHS SIT plan, however a dependency would be built between the development and testing of this change and the overall MHHS Programme.

Target date of change and next steps:

- If DAG validate this Change Request, it should be issued for Impact Assessment, and a decision made at November DAG.

Change Request Form

Change Request details

Change Request details	
Change Request Title	Change to interface MHHS-IF-165 P0210 TUoS reporting
Change Request Number	CR032
Originating Advisory / Working Group	CCAG
Risk/Issue reference	
Change Raiser	Andrew Dubois ESO
Date raised:	08/09/2023

For further guidance on how to complete this document please see the supporting Change Request Form Guidance for Programme Participants. The guidance will support raising a change and responding to a change request via Impact Assessment. The Change Raiser should consider sharing the draft Change Request Form with impacted programme parties, prior to submission to PMO. The guidance, as well as other key documents are referenced below and can be found via the MHHS website.

Change Request to be read in conjunction with:
MHHS Change Request Form Guidance for Programme Participants
MHHS Change Control Approach
MHHS Governance Framework
Ofgem's MHHS Transition Timetable

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MHHS PROGRAMME
Industry-led, Elexon facilitated

MHHS-DEL 1615 CR032 Draft

DAG Decision on CR032 'Change to Interface MHHS-IF-165 P0210 TUoS Reporting'

The DAG are requested to validate CR032 and advise SRO on their decision to issue it for Impact Assessment:

DECISION [77]	SRO to approve/reject issuing of CR032 for Impact Assessment
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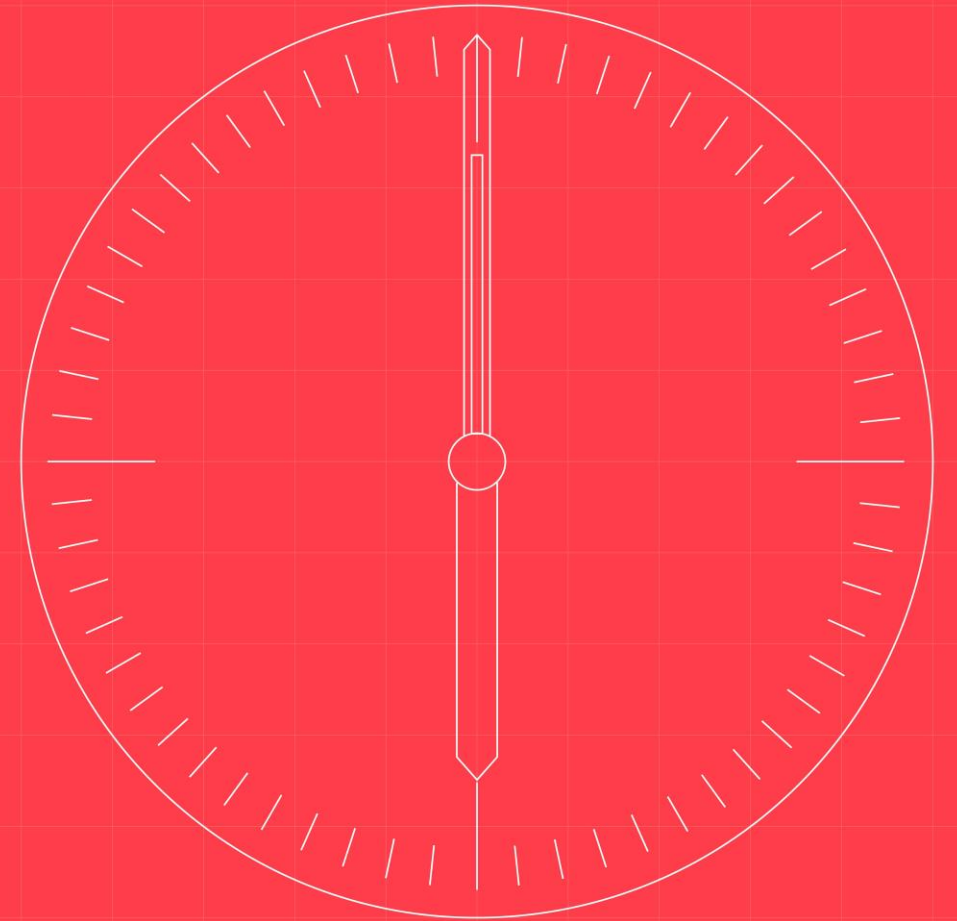
Confirmation of next steps will be provided following the decision

Updates to the Interface Code of Connections

DECISION: Approval of Version 1.1 of the Interface CoCo

Programme (Kevan Gleeson)

5mins



Interface code of connection

Post issuing the baselined Interface Code of Connection (CoCo) on 12 July 2023 several minor updates to the document have been made and were reviewed at SDWG on 27 September 2023.

Pre SDWG the updates to the document were:

- Document formatting updates to references with the document.
- Clarification on the Nominating Officer (Section 5.4.2.3)
- Addition of API Keys (Section 8.8)
- Addition of example code for message signing and validation (Section 12.6)

Post SDWG review on 27 September 2023 further updates were made at the recommendation of SDWG members.

- Changed error code #401 to error code #403 (Section 7.1.1)
- Clarification of the granularity of API Key assignment (Section 8.8)
- Addition of full names of roles rather than abbreviations for Nominating Officers (Section 5.4.2.3)

The change marked CoCo has been published as Attachment 3 of these meeting papers, showing the updates presented to SDWG and the updates undertaken following SDWG's assurance review.

The SDWG recommends the updated CoCo is approved for publication.

Next Steps: Subject to approval, the updated CoCo v1.1 will be published, and participants notified via The Clock. The SDWG will be remobilised to provide a regular working group for the ongoing management and update of security design artefacts, with oversight from the DAG.

The DAG are requested to advise the SRO on the decision below:

DECISION [78]

SRO to approve the updated Interface Code of Connections v1.1 for publication

Next Steps

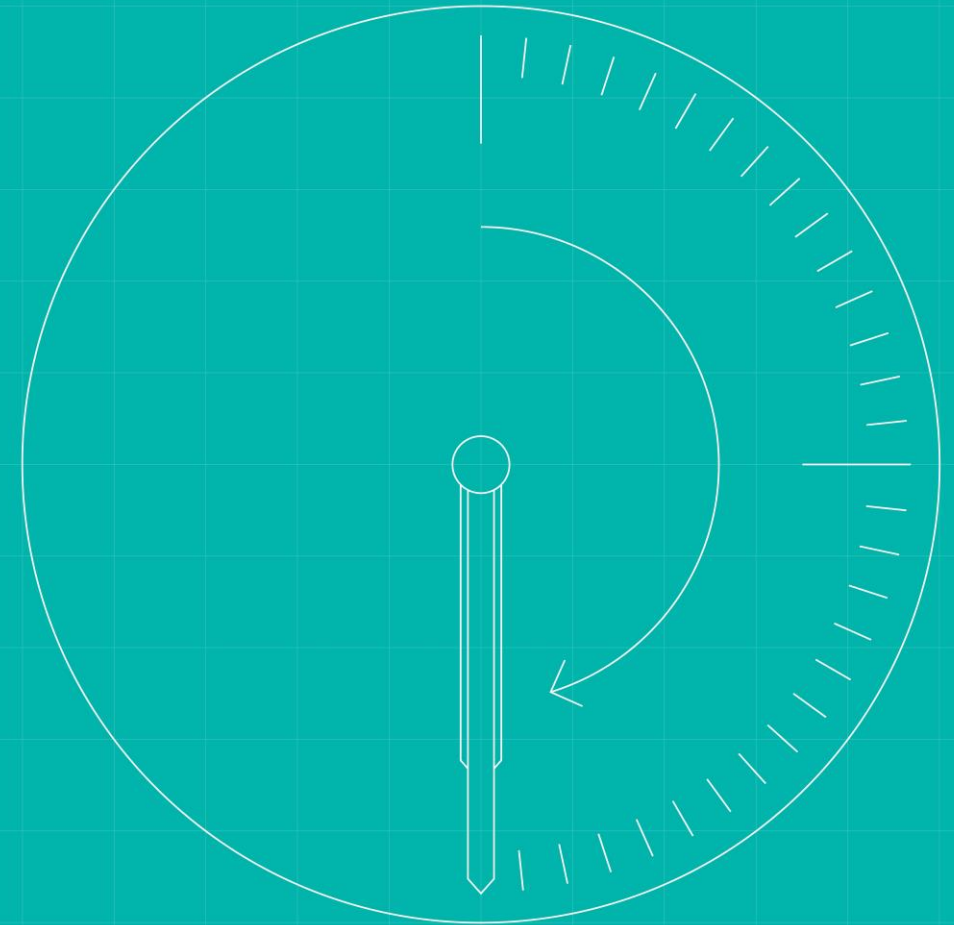
- Subject to approval, the updated CoCo v1.1 will be published, and participants notified via The Clock
- The SDWG will be re-mobilised to provide a regular working group for the ongoing management and update of security design artefacts, undertaking Impact Assessments where required, and making recommendations to the DAG

UTC vs Clock Times

DECISION: DAG decision on Service Appointment Times and CoS Read Times

Programme (Matt Hall)

10 mins



The Context

- The Design Team took an action from DRG 9 to explore options around Service Appointment times and the impacts they would have on MHHS Design with the intention to recommend an option to DAG
- We engaged the impacted Participant Constituencies' DAG reps to either contribute or nominate contributors
- During discussion in the first workshop, it became there were two separate, though interrelated questions that needed answering:
 1. ***Should CoS reads be aligned to UTC Midnight or matched against Supplier Registration (Clock midnight)?***
 2. ***Should Service Appointment times be aligned to UTC Midnight or matched against Supplier Registration (Clock midnight)?***
- Consensus was reached amongst the participant representatives on both points by the end of the second workshop.
- These consensus recommendations are outlined on the next slide. The options considered are in Attachment 6

Recommendation 1: CoS reads to be aligned to UTC Midnight

- No impact on Trad meters or unmetered, minimal impact on Advanced meters, some impact on Smart meters
- In summer this may lead to a misalignment for Suppliers between Billing & Settlement
- Potential misallocation of actual usage vs tariff
- Impact on Customer Experience during Change of Supplier

- No change to actual design
- Clarification required in BP003

Recommendation 2: Service Appointment times to be aligned to UTC Midnight

- The Outgoing Service will remain appointed for the first hour following a Summer Change of Supplier
- During summer any outgoing DS will have to retrieve the full UTC day's data and send two IF021s
 - HH periods 1-46 to old Supplier,
 - HH47-48 to new Supplier
 - Both will go to MDS

The DAG are requested to advise the SRO on the decision below:

DECISION [79]

SRO to approve the recommendations above regarding CoS reads and Service Appointment times alignment to UTC

Next Steps

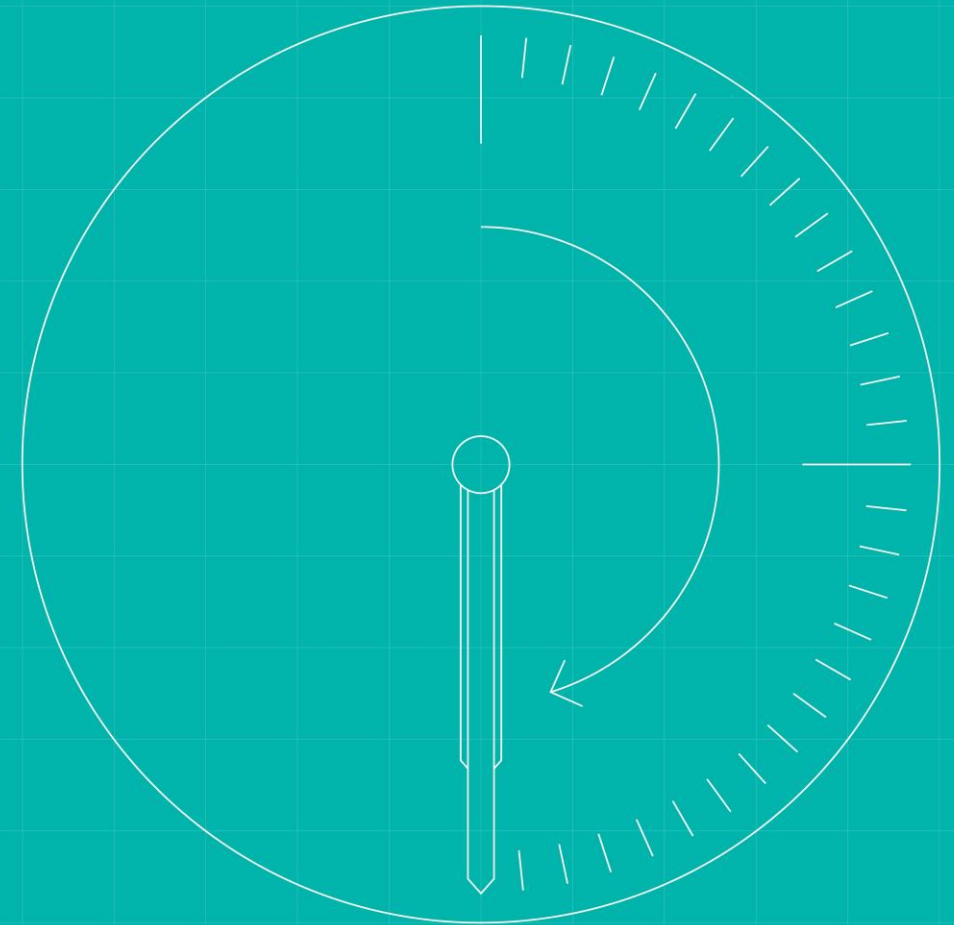
- Subject to approval, the relevant design artefacts will be updated accordingly
- The approach to Migration will then need to be reviewed accordingly, as will any impact against the Code Drafting work

Transition Design Updates

DECISION: Decision on issuance of Transition Design artefacts to consultation

Programme (Andrew Margan)

10 mins



The high-level solution is for two transition timetables:

1. A Settlement Timetable, which aligns to M16 cutover date of 07 December 2026
2. A fall-back settlement timetable, which enables flexibility if M16 cutover is deferred

The specific dates for Settlement runs are detailed in the Master Settlement Timetable worksheets

A detailed description of the proposal is documented in the Requirements for the Transition to the new MHHS Settlement Timetable document

Solution Status:

- The Transition Design Tranche 2 Settlement Timetable Transition activity is complete
- The Design Artefacts have been presented and reviewed by Migration Transition Design Subgroup (MTDSG)
- The MTDSG recommends the Transition Design Tranche 2 Settlement Timetable Transition artefacts are considered by Design Advisory Group (DAG)

The MTDSG recommendations on the Transition Design, Settlement Timetable Transition solution:

1. Artefacts are reviewed by the DAG (see attachments)
2. The DAG approve that the Transition Design, Settlement Timetable Transition artefacts are issued for a two-week industry consultation on 12 October 2023
3. DAG note at the DAG meeting on 08 November 2023 the design artefacts are considered for approval

The DAG are requested to advise the SRO on the decision below:

DECISION [80]

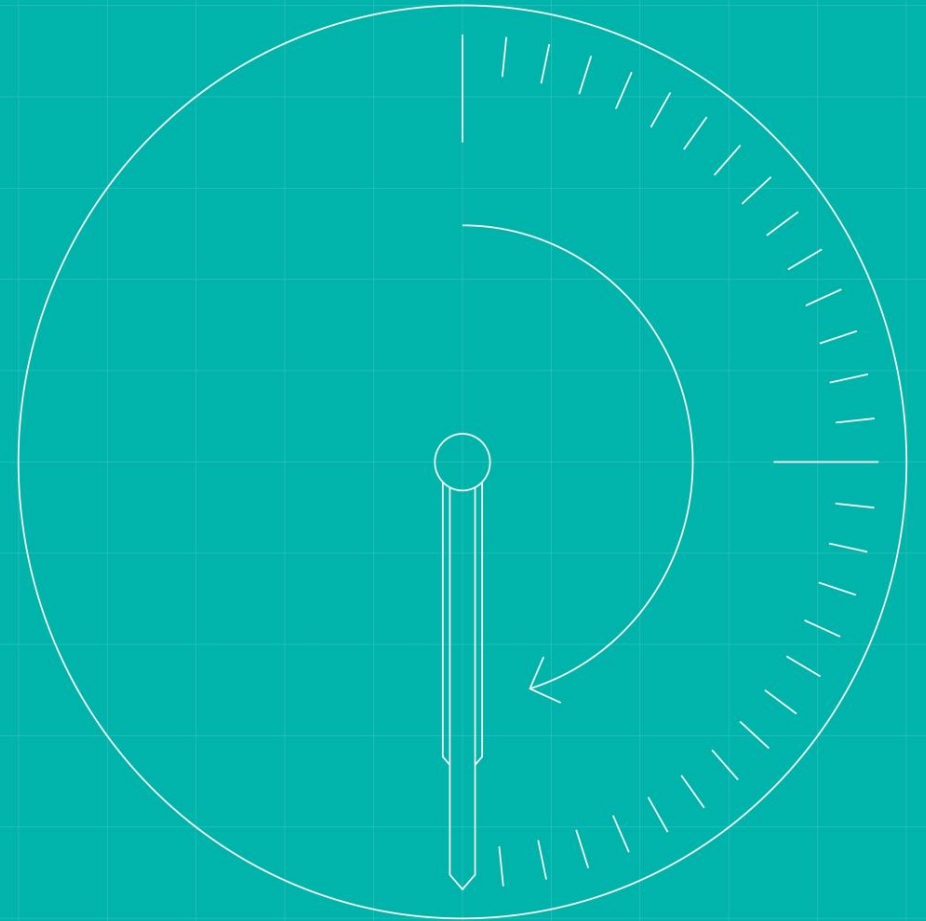
SRO to approve issuance of Transition Design, Settlement Timetable Transition artefacts to consultation

Testing Release Strategy

INFORMATION: Programme provide DAG explanation of the testing release strategy and Design releases (DAG28-07action)

Programme (Lee Cox)

10 mins



Testing Release Strategy: Overview

SIT CIT (All Intervals)

- SIT CIT will be conducted against **Design - Interim Release 2** only (including all design updates from IR1)
- PPs are expected to be PIT Complete against **Design - Interim Release 2** prior to entry into their CIT Interval
- PPs are expected to provide:
 - An integrated Test Environment, built to Interim Release 2, to conduct CIT Testing
 - A separate isolated Test Environment, built to Interim Release 2 in support of any CIT Defect Retesting

PPs can choose to continue their development against IR3 and IR4, however this must be in a separate test environment using branched code. In addition, PIT Test Activities in readiness for SIT Functional also need to be in separate Test Environments

- **Interim Release 2 Published 05-Jul-23**
- **Interim Release 2 Compatible DIP Simulator Available 11-Aug-23**

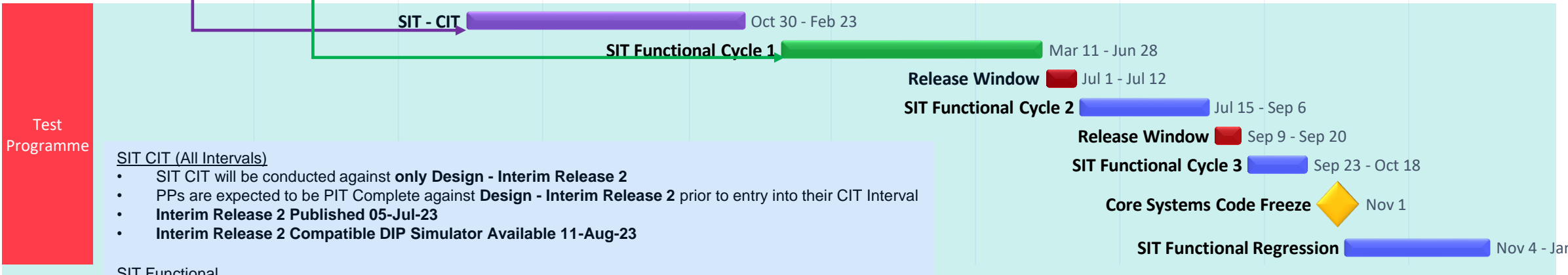
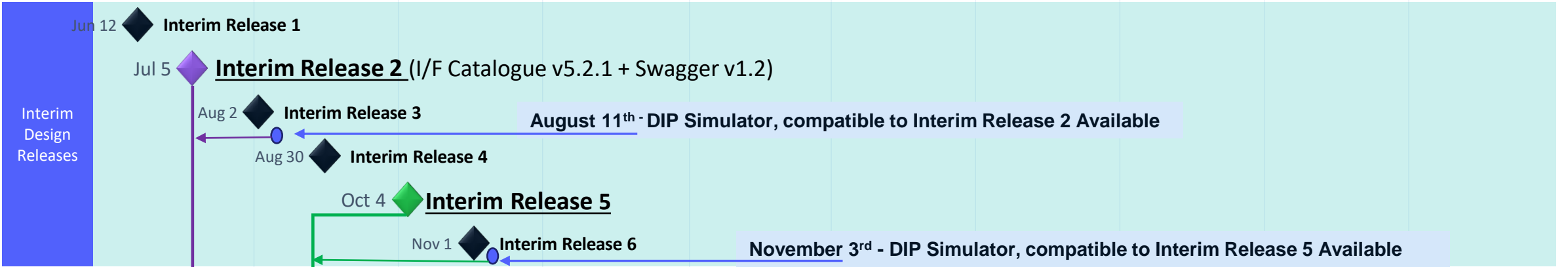
SIT Functional

- SIT Functional will commence against **Design - Interim Release 5** only (including all design updates from IR3 and IR4)
- PPs are expected to be PIT Complete against **Design - Interim Release 5** prior to entry into SIT Functional Test Phase
- PPs are expected to provide:
 - An integrated Test Environment, built to Interim Release 5, to conduct SIT Functional Testing
 - A separate isolated Test Environment, built to Interim Release 5 in support of any SIT Functional Defect Retesting

PPs can choose to continue their development against Interim Releases beyond IR5, however this must be in a separate test environment using branched code. In addition, PIT Test Activities in readiness for SIT Migration also need to be in separate Test Environments

- **Interim Release 5 Published 04-Oct-23**
- **Interim Release 5 Compatible DIP Simulator Available 03-Nov-23**

Interim Release Plan vs SIT Entry



- SIT CIT (All Intervals)**
- SIT CIT will be conducted against **only Design - Interim Release 2**
 - PPs are expected to be PIT Complete against **Design - Interim Release 2** prior to entry into their CIT Interval
 - Interim Release 2 Published 05-Jul-23**
 - Interim Release 2 Compatible DIP Simulator Available 11-Aug-23**
- SIT Functional**
- SIT Functional will commence against **only Design - Interim Release 5** including all design updates from IR3 and IR4)
 - PPs are expected to be PIT Complete against **Design - Interim Release 5** prior to entry into SIT Functional Test Phase
 - Interim Release 5 Published 04-Oct-23**
 - Interim Release 5 Compatible DIP Simulator Available 03-Nov-23**

Testing Release Strategy continued and DIP Simulator approach

Forecast Major Releases

- SIT Functional testing will commence aligned to Interim Release 5
- Interim Design Releases will continue to iterate beyond Interim Release 5
- SIT Functional Test Phase broken down into 3 cycles of Test plus a final Regression Test Cycle. Between each cycle is 2-week Maintenance Window.
- SIT A Test Environment will support SIT Functional Testing
- SIT B Test Environment will support SIT Migration, Non-Functional and Operational Testing
- Major Releases will be planned during each SIT A Maintenance Window
 - From the point SIT Migration Test commences, then SIT B will receive Releases aligned to SIT A

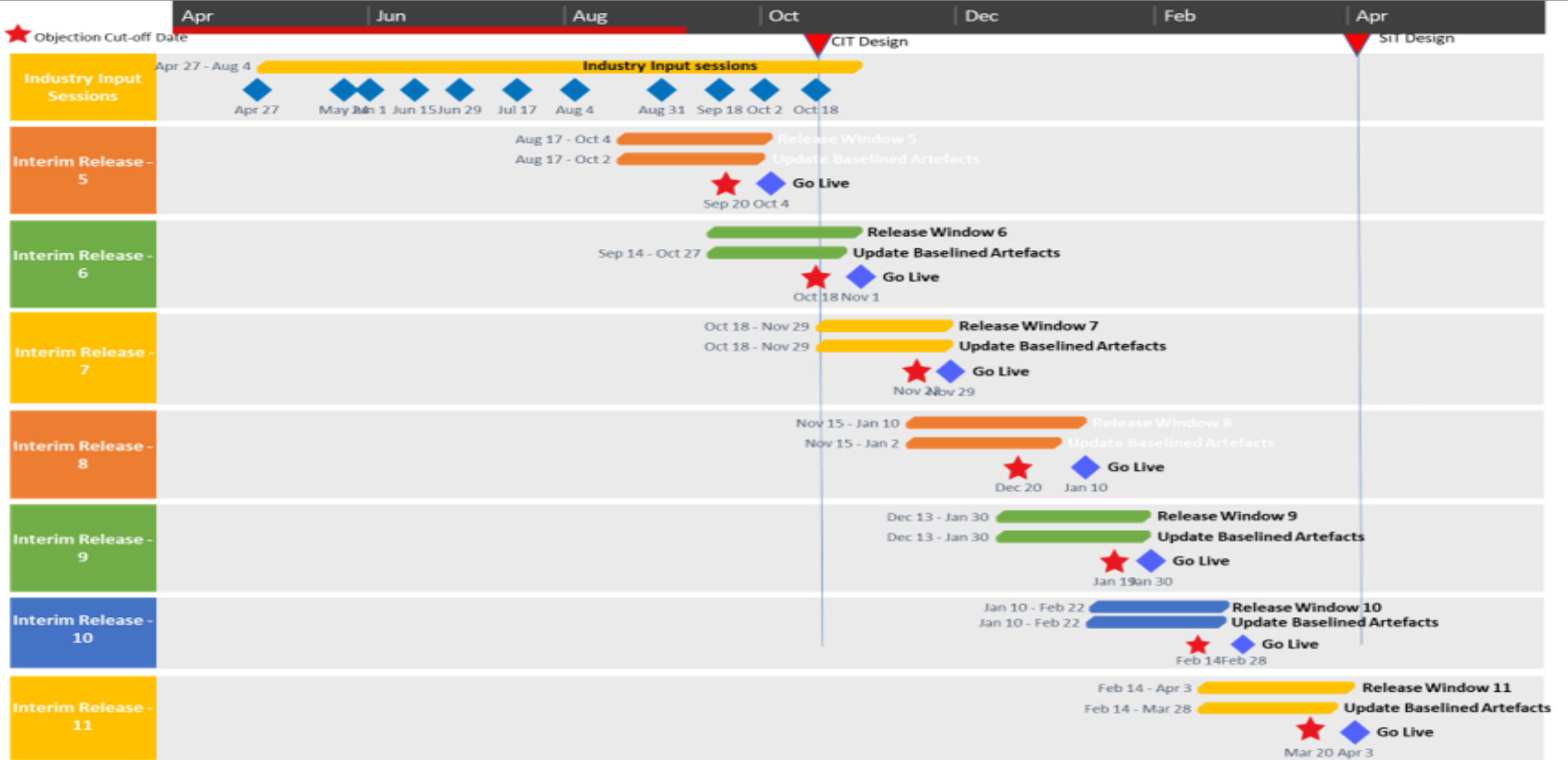
DIP Simulator

- MHHS will provide DIP Simulators to support PIT Testing against 2 concurrent releases:
 - DIP Simulator #1 – IR2 compatible, available from 11/08/23 – 01/03/24
 - DIP Simulator #2 – IR5 compatible, available from 03/11/23 – 28/06/24
 - DIP Simulator #1 – IRx compatible, available from 08/03/24 – 27/09/24

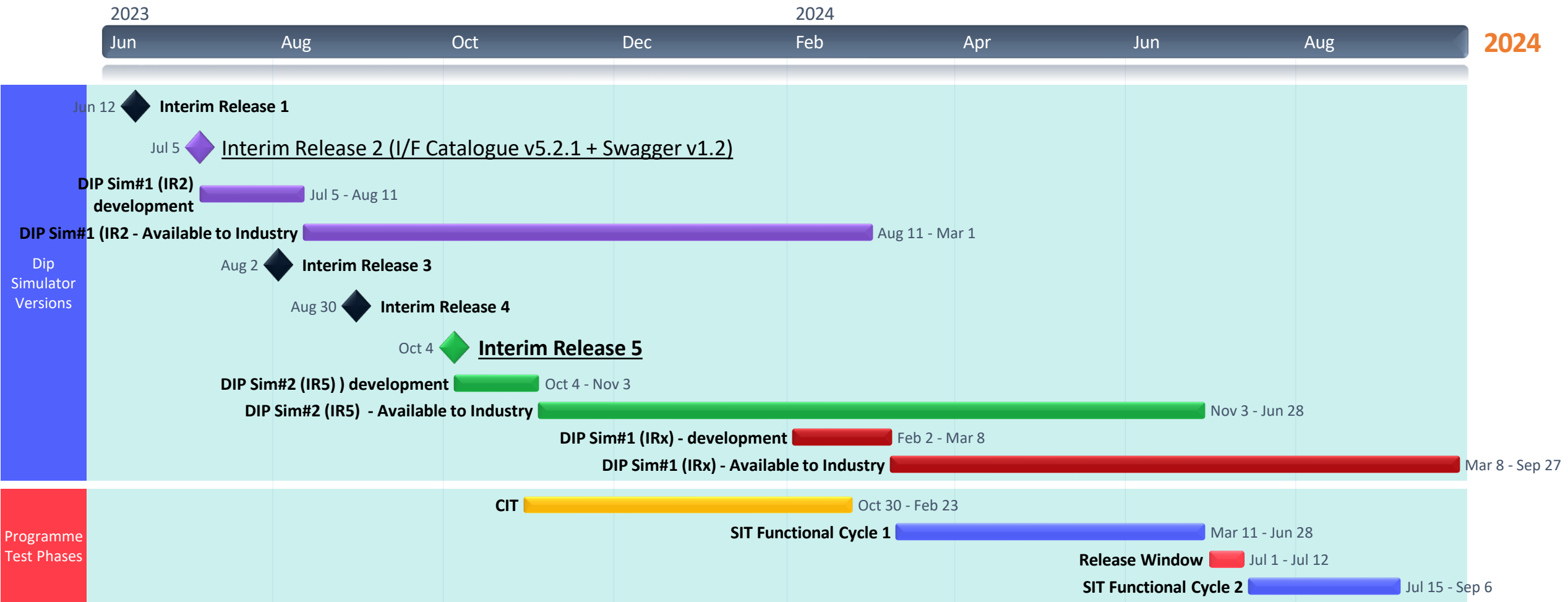
Note – The 2 DIP Instances will be available in support of PIT activities throughout the SIT Test Phase, and will at least one instance will be available throughout the Qualification Test Phase

Jul 15 - Sep 6

IR Roadmap



Interim Release Plan vs SIT Entry

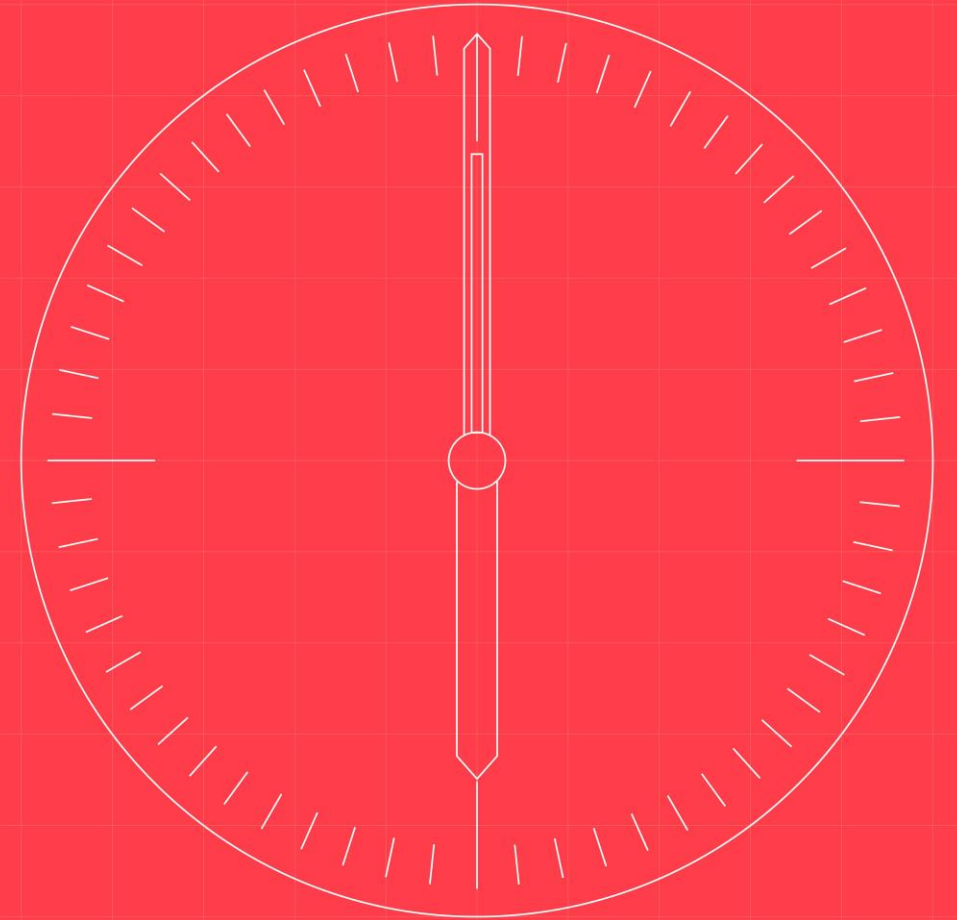


Design (DIN)

INFORMATION: Update on the Design (DIN)

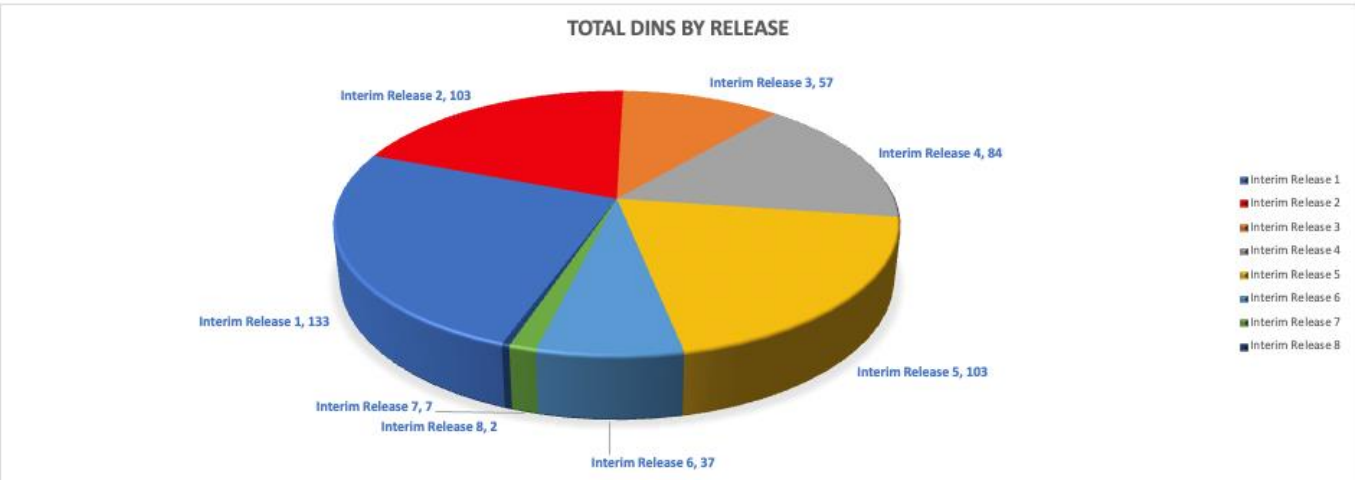
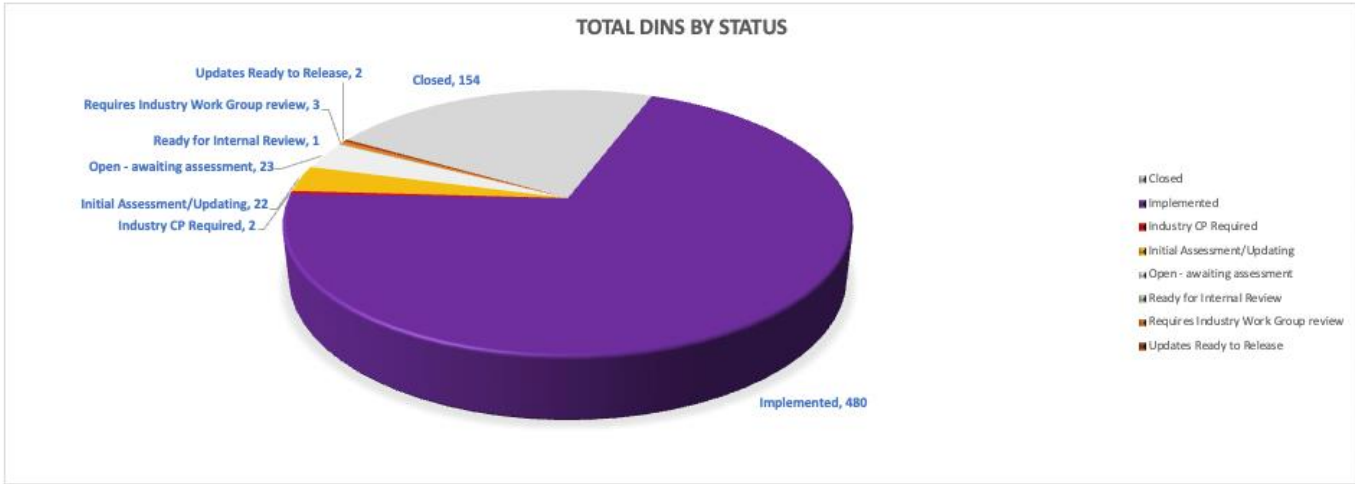
Programme (Paul Pettitt)

5 mins



DIN Log Stats as of 4 October 2023

Total Recorded DINs 687



Total DINs by Status

Current Status	Total by Status
Closed	154
Implemented	480
Industry CP Required	2
Initial Assessment/Updating	22
Open - awaiting assessment	23
Ready for Internal Review	1
Requires Industry Work Group review	3
Updates Ready to Release	2
Grand Total	687

Total DINs by Release

Target Release	Total by Release
Interim Release 1	133
Interim Release 2	103
Interim Release 3	57
Interim Release 4	84
Interim Release 5	103
Interim Release 6	37
Interim Release 7	7
Interim Release 8	2
Grand Total	526

Total Open DINs

Status	Total by Status
Industry CP Required	2
Initial Assessment/Updating	22
Open - awaiting assessment	23
Ready for Internal Review	1
Requires Industry Work Group review	3
Updates Ready to Release	2
Grand Total	53

Total Closed DINs

Status	Total by Status
Closed	154
(blank)	154
Implemented	480
Interim Release 1	133
Interim Release 2	103
Interim Release 3	57
Interim Release 4	84
Interim Release 5	103
Grand Total	634

Total Open DINs by Age & Status

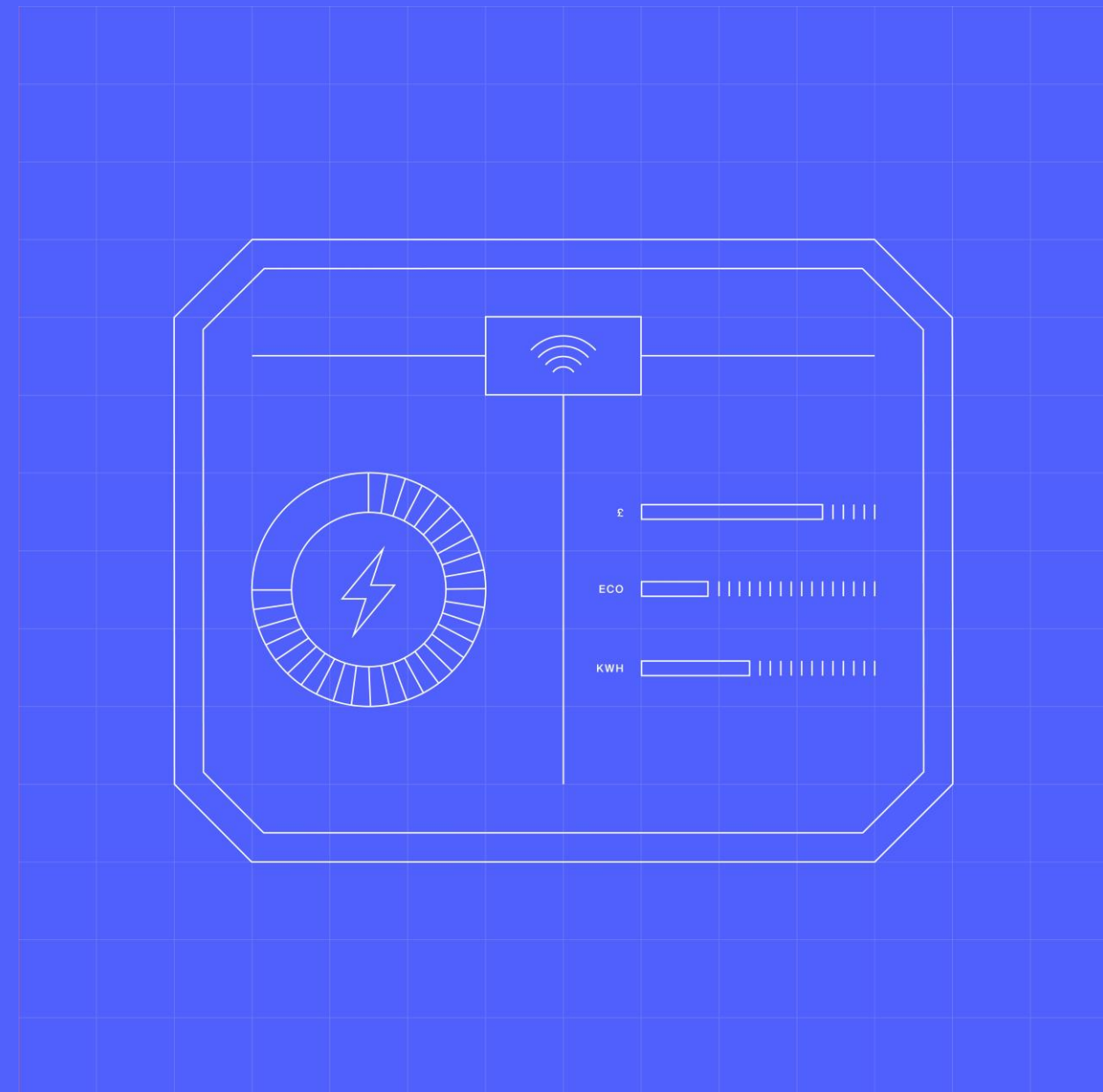
DINs by Date & Status	Total by Status
Jan	3
Initial Assessment/Updating	3
Mar	2
Initial Assessment/Updating	1
Requires Industry Work Group review	1
Apr	1
Updates Ready to Release	1
May	2
Initial Assessment/Updating	2
Jun	6
Industry CP Required	1
Initial Assessment/Updating	4
Ready for Internal Review	1
Jul	19
Open - awaiting assessment	12
Initial Assessment/Updating	5
Requires Industry Work Group review	1
Updates Ready to Release	1
Aug	4
Open - awaiting assessment	1
Industry CP Required	1
Initial Assessment/Updating	1
Requires Industry Work Group review	1
Sep	12
Open - awaiting assessment	7
Initial Assessment/Updating	5
Oct	4
Open - awaiting assessment	3
Initial Assessment/Updating	1
Grand Total	53

DAG Terms of Reference - Review and Approval

DECISION: Approval of updated DAG Terms of Reference

Chair (Justin Andrews)

20 mins



- DAG actions DAG17-02 and DAG20-03:
 - *'Chair to review the DAG Terms of Reference to ensure there is clarity over the role of DAG post-M5'*
 - *'DAG members to provide any views on the role of DAG post M5 Work-Off Plan completion to support review of DAG ToR'*
- DAG Terms of Reference have been reviewed and updated to address:
 - moving from agreeing a design baseline to managing changes
 - feedback from the IPA; e.g. more focused decision making, design experts in attendance
 - explicit recognition of the updated CR process and Fast Track design process
 - DAG members feedback at September DAG meeting on: clarity re managing CRs, design operation, decision making criteria, escalation process and consistency with other groups' ToRs
- DAG are invited to review updated DAG Terms of Reference (see Attachment 4) and provide comments to MHHS PMO
- Proposed next steps is the MHHS Programme to consider consistency with other groups ToR and DAG to operate, in principle, to updated DAG ToR as these provide an improved focused approach of the DAG

DAG review and approval of updated DAG Terms of Reference

The DAG are requested to advise the SRO on the decision below:

DECISION [81]

SRO to approve the updated DAG Terms of Reference for use in principle while Programme governance reviewed for consistency

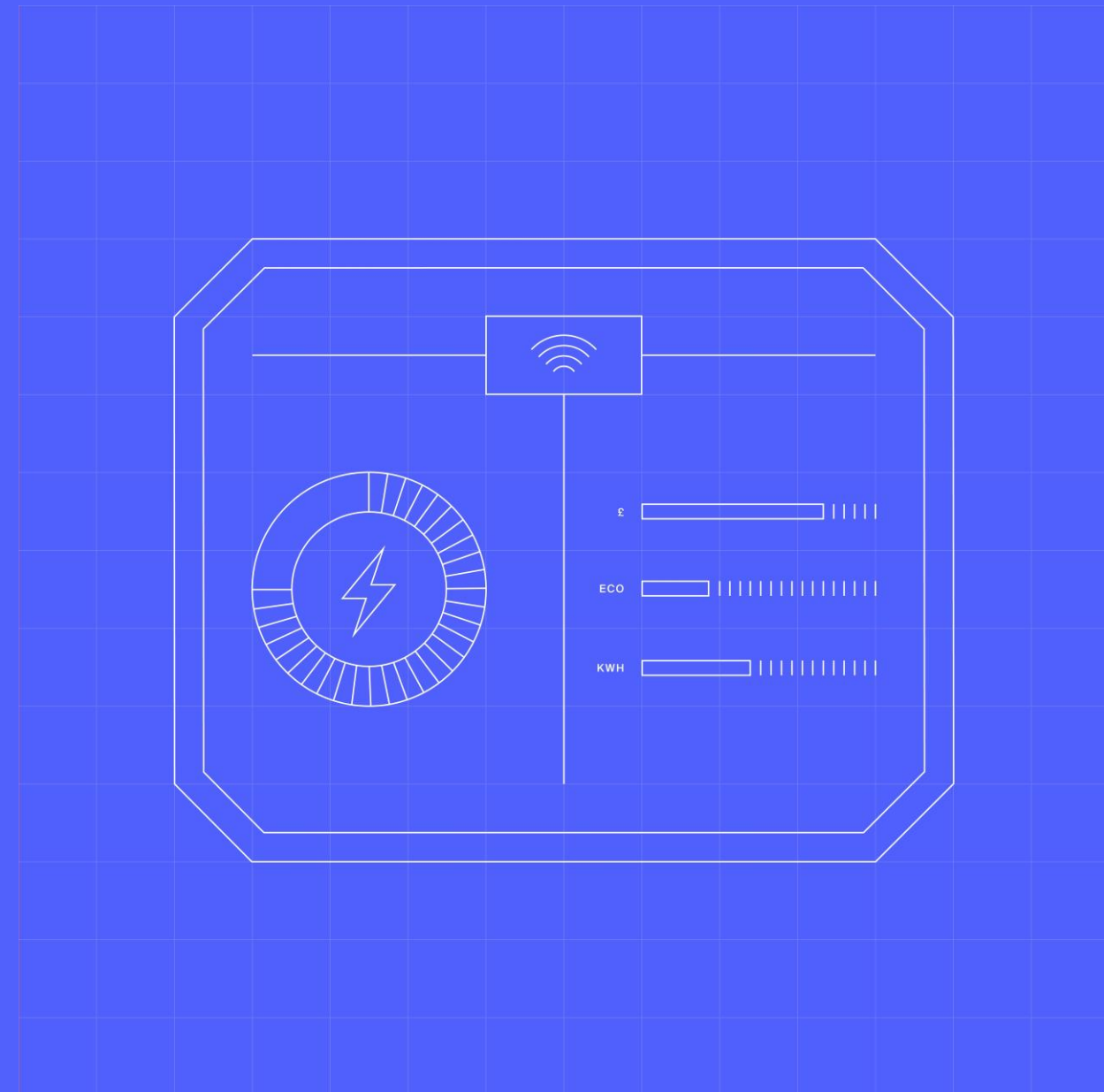
Confirmation of next steps will be provided following the decision.

Top Programme Risks related to DAG

INFORMATION: Update on the top Programme Risks related to DAG

Programme (PMO)

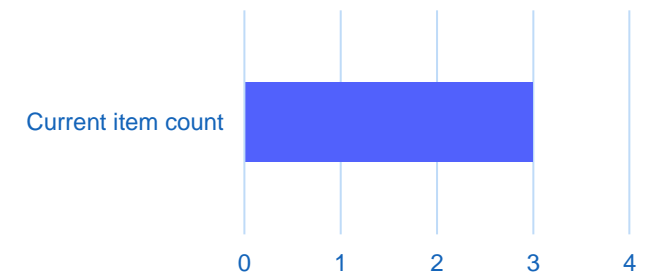
10 mins



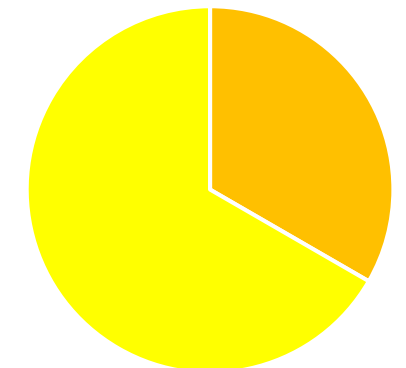
Top Programme Risks related to DAG

Risk/Issue ID	Risk Description	Risk Impact	RAG	Mitigation
R432	There is a risk that new and existing Change Requests have a material impact on the baseline Design	This could result in potential impacts to participant design and prevents participants meeting M9 milestone. This also may have implications for Code drafting.	High	1) Monitoring Change Requests and understanding their impact on Design 2) Where changes not concluded, making clear what risks are contained within future Programme planning
R421	There is a risk that following the recent Design Resolution Group (DRG - for DINs needing industry discussion) being established (which may lead to changes required to IF/ PUB interfaces), this risks parties' designs no longer being appropriate requiring new or additional rework	<u>Potential impacts are:</u> 1) Designs for parties outside of the programme may need to change 2) These and the PIT simulator may not support these changes and updates will be required in time for PIT testing and some/all PIT testing undertaken to date may be Null and Void. Changes will need to be fully implemented ahead of future dated (Supplier etc) PIT testing to ensure testing is valid. 3) Potential increased costs to support new designs with extended timescales to develop new / update current designs & solutions.	Medium	We accept this is an ongoing risk. Mitigations: 1) Programme will consider responses to any change requests raised and how this may affect participants and the overall Programme Plan 2) Participants must progress with information known to date (see no.4) 3) Programme planning may need to account and to allow for these new changes, based on feedback from participants 4) Programme has provided clarity on minimum Design to work to (CIT - end of June 23 version, SIT - October 23 version)
R214	There is a risk that suppliers will face increased meter reading costs due to the compressed settlement window. Suppliers may be required to read trad/non-communicative meters more frequently	This may result in an increased cost to suppliers	Medium	1) Session required to initiate modelling of Smart Meter rollout and meter read retrieval rates to inform Performance Metrics 2) Accepted risk - this is an issue for PA framework and BSC when they monitor suppliers' ability to read trad meters

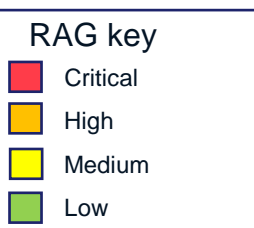
DAG risk count



DAG risks RAG



■ High risks ■ Medium risks

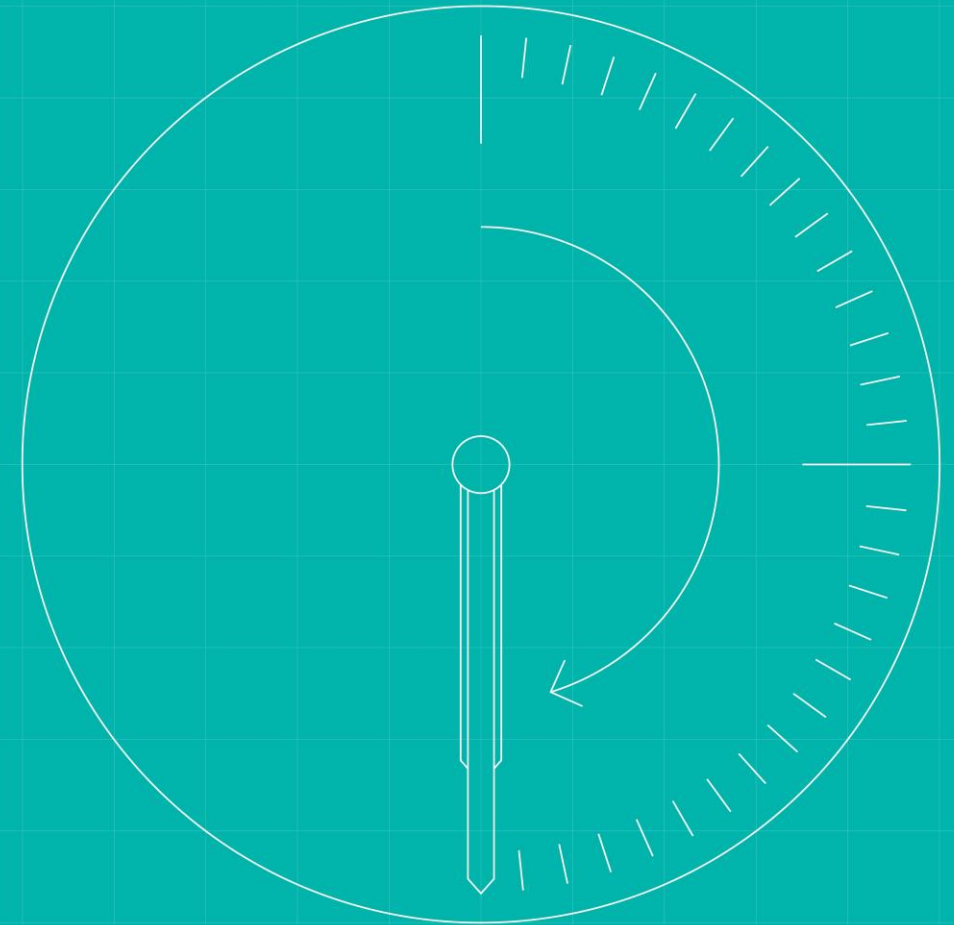


Programme Updates

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 04 October 2023

- Code Drafting Milestones:** The PSG approved changes to convert existing Tier 2 code drafting milestones to Tier 3 milestones to provide the CCAG with more control over milestone date management.
- M9 Dress Rehearsal:** PSG received an overview of the information that will be provided to support a decision on M9 (SIT Start) approval at the extraordinary PSG to be held 30 October 2023.
- Qualification Testing:** In response to participant concerns over the progress of Qualification Testing arrangements, the Programme will now work with Code Bodies and the IPA to define an alternative approach which maintains the delivery date of M10 (Central systems ready for migrating MPANs). Initial plans will be presented to the November 2023 PSG.
- Sponsor Update:** Ofgem feel the Programme is making good progress and is on track to commence SIT. This is unprecedented in Programmes of this scale and complexity. Ofgem see MHHS as crucial to the future of net zero and encourage participants to maintain progress and dialogue with the Programme.
- SASWG Output Report:** The Settlement Analysis Scoping Working Group (SASWG) has concluded. Five hypotheses for future analysis were recommended and actions placed with Elexon Helix to develop a high-level plan to progress.

PSG papers available [here](#).

Testing and Migration Advisory Group (TMAG)

Update from TMAG 20 September 2023

- Migration Thresholds and Migration Profile:** The Programme provided an update on the proposed timelines for the development of the Migration Threshold artefact.
- SIT Functional Test Scenarios & Cases:** The Programme shared the revised delivery approach for the SIT Functional Test Scenarios & Cases.
- E2E Testing and Integration Strategy:** The Programme provided an update on the delivery of the refreshed strategy.
- SIT CIT Test Cases:** The Programme provided an update on Test Cases Batch 1 (Intervals 1 & 2).
- SIT CIT Readiness Tracker:** The Programme shared that the tracker was available on the CB [here](#) and is being updated weekly.
- Qualification Update:** The Elexon Qualification Lead provided an update on QWG.
- IPA Test Assurance Update:** The IPA provided an update on P1 and P2 Test Assurance.
- 3 Month Milestone Look Ahead & Milestone Changes:** The TMAG approved milestone changes to the Programme Plan.
- Top Programme Risks related to TMAG:** the top risks and related mitigation actions were discussed.

TMAG papers available [here](#)

Design Advisory Group (DAG)

Updates from DAG 13 September 2023

- Change Request Decisions:** The DAG approved the following Programme Change Requests (CRs):
 - CR023** [Standardisation of Interfaces within the Smart and Advanced Data Services Roles](#)
 - CR027** [Distribution Use of System \(DUoS\) E-Billing Data Integration Platform \(DIP\) message for MHHS](#)
 - CR028** [Corrections to EES and SDEP Requirements](#)
 - CR029** [DIP LDSO Interface Processing](#)
 - CR030** [Introduction of Compressed Payloads into DIP Messages](#)
 - CR031** [Amending Transition Design Milestone Description and Delivery Date](#)
- DES196 Supplementary Documents:** The DAG approved the baselining of supplementary documents to the DES196 D-Flow and Interface Mapping
- Design (DIN):** The next scheduled design release is Interim Release (IR) 5 on 04 October 2023. The deadline for objections is 20 September 2023. IR5 will form the build requirements for SIT Functional testing.

DAG papers available [here](#)

Cross Code Advisory Group (CCAG)

Update from CCAG 23 August 2023

- Horizon Scanning Log:** For the DCUSA, DCP414 was discussed and had been approved at the Authority. For REC, R0083, R0083A, R0143, R0144 were discussed. For BSC, P458, P459, P460 were discussed.
- CDWG Escalations:** CCAG members approved the CDWG recommendation of BSC and RED Registration Code Artefact approval.
- CCAG Reporting, Risks and Milestones:** The Programme provided a status summary on code drafting activities and August deliverables, Programme milestone changes, top Programme risks related to CCAG and the DCUSA consequential change status report.
- NGESO Delivery Update:** NGESO provided an overview of the challenges facing CUSC charging and their proposed solutions.
- Elexon Delivery Update:** Elexon shared the outline and key steps of their CCC path for the performance assurance areas.

CCAG papers available [here](#)

Wider Programme updates

Programme News: DAG and PSG Medium Supplier Representatives

The Programme is calling for nominations to fill the role of Medium Supplier Representative within the Level 2 and 3 Governance Forums: PSG and DAG. We are requesting all nominations to be submitted to PMO@mhhsprogramme.co.uk by COP 18 October 2023 by using the Constituency Representative Nomination form, available [here](#).

Participant Checklist:

- Design Interim Release 5:** We're publishing the **Interim Release 5 Design Artefacts on Wednesday 4 October**. These Artefacts will be published on the [Baselined Design Artefacts page of the MHHS website](#). For ease we'll also publish red-lined documents with tracked changes on the [Red-lined Design Artefacts page](#). A reminder that the **objection cut-off date for Interim Release 6 is Wednesday 18 October 2023**
- Migration Thresholds Document Consultation:** The Migration Thresholds Document was issued for a 10-working day industry consultation on **Wednesday 27 September 2023**. Comments are due by **17:00 on Wednesday 11 October 2023**.
- To provide your feedback on the document, please visit the [Migration page on the MHHS website](#) and download the **Comments Log**.
- Code Tranche 3 Assurance Review:** You should review and provide feedback on this assurance review if you are a Programme participant. Please share your comments on the Artefacts by emailing the Code team at Code@mhhsprogramme.co.uk by 20 October 2023
- SIT CIT Participant Readiness Report Template now available:** The Programme has published the Component Integration Testing (CIT) Participant Readiness Report Template on the [Systems Integration Testing \(SIT\) Overview page of the MHHS Website](#). Each participant is required to provide a completed CIT Participant Readiness Report prior to the commencement of their assigned CIT Interval.
- Participant Checklist:** You can find the Checklist on the [Planning page on the MHHS website](#) or the [Planning page on the Collaboration Base](#).

Guidance Documents:

DIP Onboarding User Guide: The Programme has published a DIP Onboarding User Guide on the [Data Integration Platform \(DIP\) page on the MHHS website](#). The Guide provides all the steps required to complete the onboarding activity including the 'active' certificate upload to the DIP.

Upcoming events:

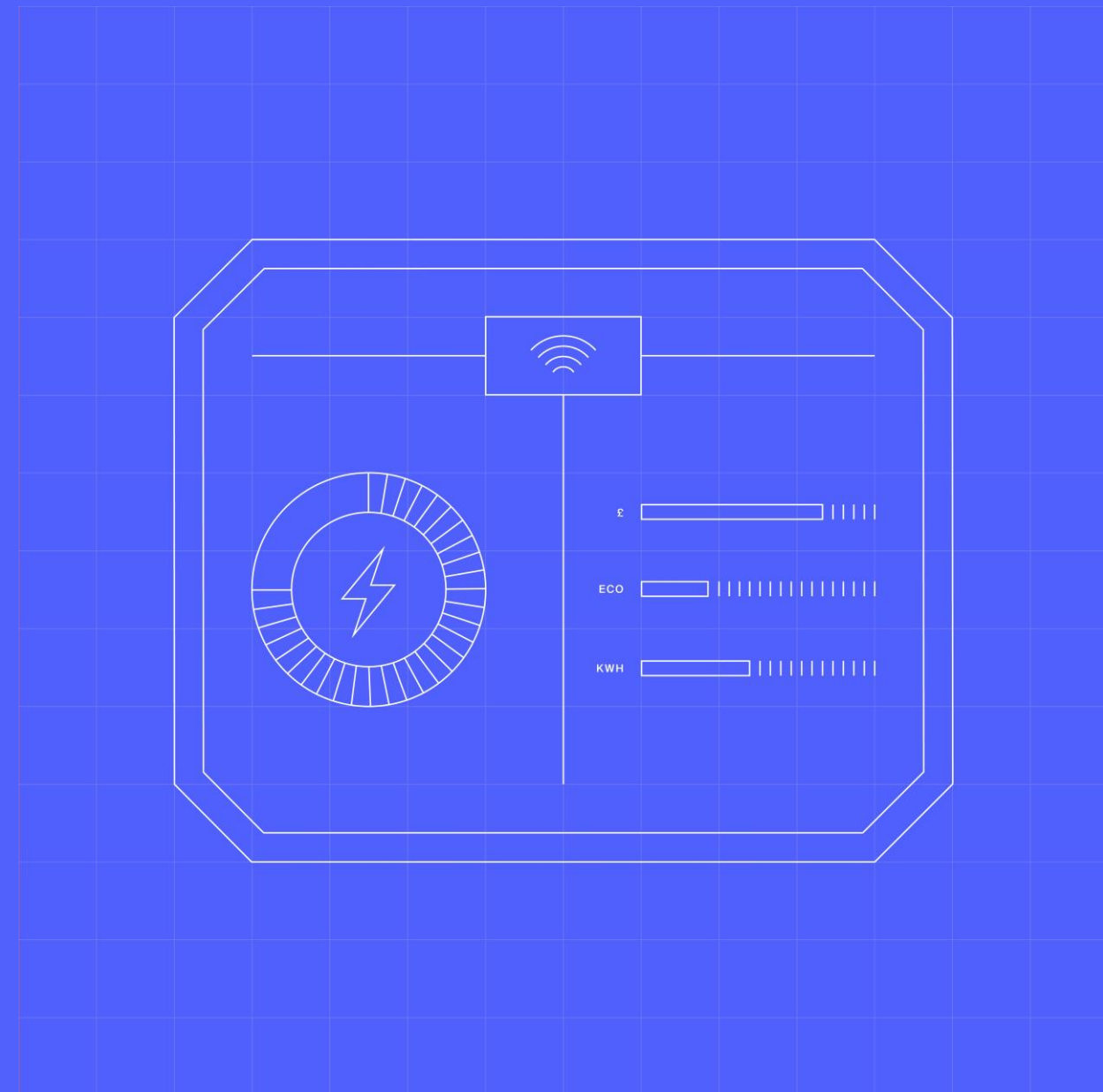
- Thursday 05 October 2023** – Swagger – DES138 Logical interface Catalogue during PIT and CIT Meeting
- Monday 23 October 2023** – TMAG (CIT Interval 1 Readiness approval)
- Monday 30 October 2023** – Extraordinary TMAG (CIT Interval 1 Start approval)
- Monday 30 October 2023** – Extraordinary PSG (M9 (SIT Start) approval)

Summary and Next Steps

INFORMATION: Summarise key discussions, actions, and next steps

Chair & Secretariat

10 mins



Summary and Next Steps

Next steps:

- Confirm actions and decisions from meeting
- Next DAG regular meeting: **08 November 2023 at 10am**

DAG agenda roadmap:

Meeting dates	08-November	13-December	10-January
Relevant milestones or activities	<ul style="list-style-type: none"> • Tranche 2 Transition Design Baselined 	<ul style="list-style-type: none"> • TBC 	<ul style="list-style-type: none"> • TBC
Agenda items	<ul style="list-style-type: none"> • Interim Releases and DIN Log • Programme Change Requests 	<ul style="list-style-type: none"> • Interim Releases and DIN Log • Programme Change Requests 	<ul style="list-style-type: none"> • Interim Releases and DIN Log • Programme Change Requests
Standing items	<ul style="list-style-type: none"> • Minutes and Actions • Programme Updates • Upcoming Programme Milestones related to DAG • Top Programme Risks related to DAG • Summary and Next Steps 	<ul style="list-style-type: none"> • Minutes and Actions • Programme Updates • Upcoming Programme Milestones related to DAG • Top Programme Risks related to DAG • Summary and Next Steps 	<ul style="list-style-type: none"> • Minutes and Actions • Programme Updates • Upcoming Programme Milestones related to DAG • Top Programme Risks related to DAG • Summary and Next Steps

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