



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

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# Design Advisory Group #30

## 08 November 2023

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Version 1.0

MHHS-DEL1871

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 Decision	Decision on approval of CR032	Decision	Programme (PMO)	10:35-10:45 10 mins	9
5	Transition Design Decision	Decision on approval of Tranche 2 Transition Design (Settlement Timetable Transition)	Decision	Programme (Andrew Margan)	10:45-11:00 15 mins	TBC
6	UTC vs Clock Time Decision	Overview of PPIR responses and decision on UTC vs Clock Time for CoS Reads and Service Appointments	Decision	Programme (Matt Hall)	11:00-11:15 15 mins	TBC
7	CR034 - Delay to Elexon Level 4 validation response – NFR (1009)	Decision on issuance of CR034 to Impact Assessment	Decision	Elexon (Nigel Rees)	11:15-11:25 10 mins	TBC
8	Updates to the Interface Code of Connections	Decision on approval of updates to the Interface Code of Connections	Decision	Programme (Kevan Gleeson)	11:25-11:35 10 mins	TBC
9	Design (DIN)	Updates on Design (DIN)	Information	Programme (Paul Pettitt)	11:35-11:40 5 mins	TBC
10	DAG Terms of Reference	Verbal update on review of DAG Terms of Reference	Information	Chair	11:40-11:50 10 mins	TBC
11	Top Programme Risks related to DAG	Update on the top Programme Risks related to DAG	Information	Programme (PMO)	11:50-12:00 10 mins	TBC

## Agenda (2 of 2)

#	Item	Objective	Type	Lead	Time	Page
12	<a href="#">Programme Updates</a>	Updates from other MHHS governance groups and wider Programme updates	Information	Programme (PMO)	12:00-12:05 5 mins	TBC
13	<a href="#">Summary and Next Steps</a>	Summarise key discussions, actions, and next steps	Information	Chair & Secretariat	12:05-12:15 10 mins	TBC

### [Appendices / Attachments](#)

Attachment 1 – DAG 11 October 2023 Minutes v1.1 (change marked)

Attachment 2 – CR032 Change to Interface MHHS-IF-165 P0210 TUoS Reporting v1.3

Attachment 3 – Transition Design (Settlement Timetable Transition) Artefacts (zip)

Attachment 4 – CR034 Delay to Elexon Level 4 validation response v1.1

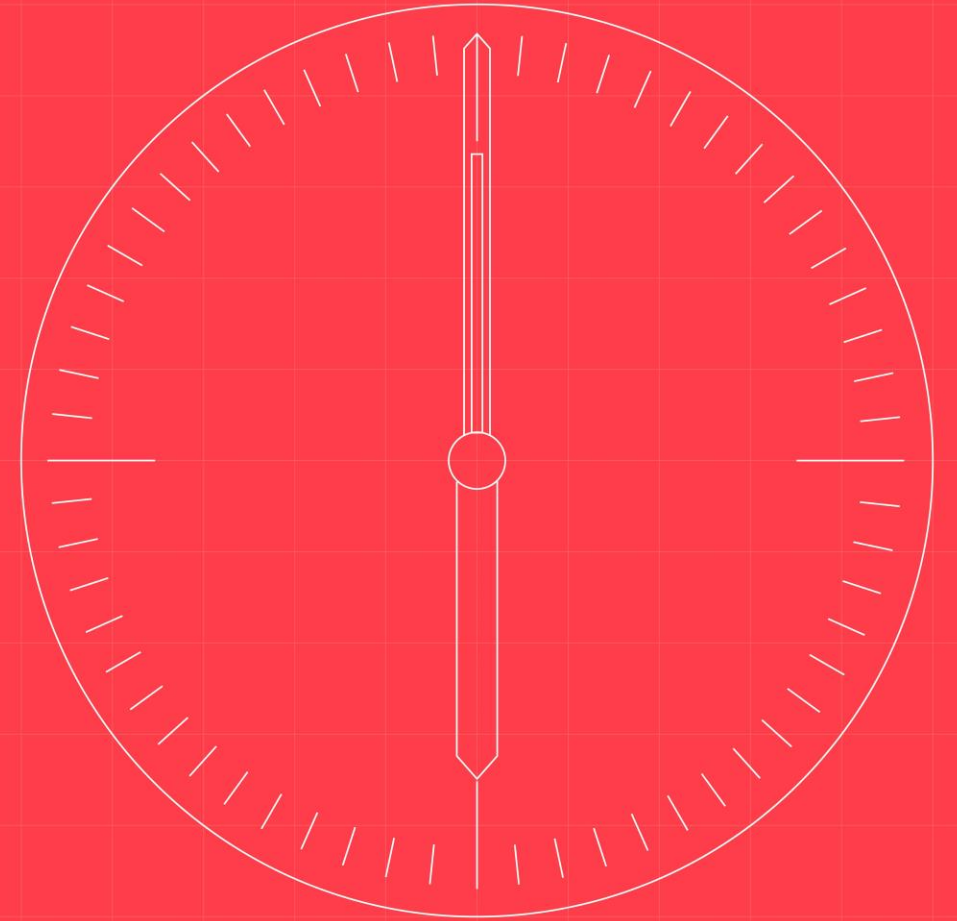
Attachment 5 – Interface Code of Connections v1.2 (change marked)

# 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 [11 October 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.
DAG28-04	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 onboarding 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)	08/11/2023	ONGOING: A meeting has been set-up for the 6-Nov-23 with Elexon to discuss this subject, a verbal update will be provided at the 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 held initial discussions with LDSOs on 7-Nov-23. The outcomes will now be taken to a DRG session for wider discussion.
DAG29-01	NGESO to amend Programme Change Request 032 ( <a href="#">Change to Interface IF-165 P0210 TUoS Reporting</a> ) and resubmit to the Programme for <a href="#">issuance to Impact Assessment</a>	NGESO Representative (Daniel Arrowsmith)	13/10/2023	RECOMMEND CLOSED: Updated CR provided and issued for Impact Assessment. Decision on approval to be taken under agenda item 4.
DAG29-02	Programme to issue Programme Participant Information Request on UTC vs Clock Time for Change of Supplier Reads and Service Appointment, and return to November DAG with recommendation for decision	Programme (Matt Hall)	08/11/2023	RECOMMEND CLOSED: PPIR issued and outcomes to be discussed under agenda item 6.
DAG29-03	Programme to raise UTC vs Clock Time with the Fast Track Implementation Group	Programme (Paul Pettitt)	13/10/2023	RECOMMEND CLOSED: Raised at FTIG meeting held 13 October 2023 and noted by members.
DAG29-04	Programme to consider the provision of regular updates to DAG on the interaction of design/testing releases	Programme (Paul Pettitt & Lee Cox)	08/11/2023	ONGOING: This will be taken to FTIG ahead of wider industry discussion.

## Minutes and Actions Review (2 of 2)

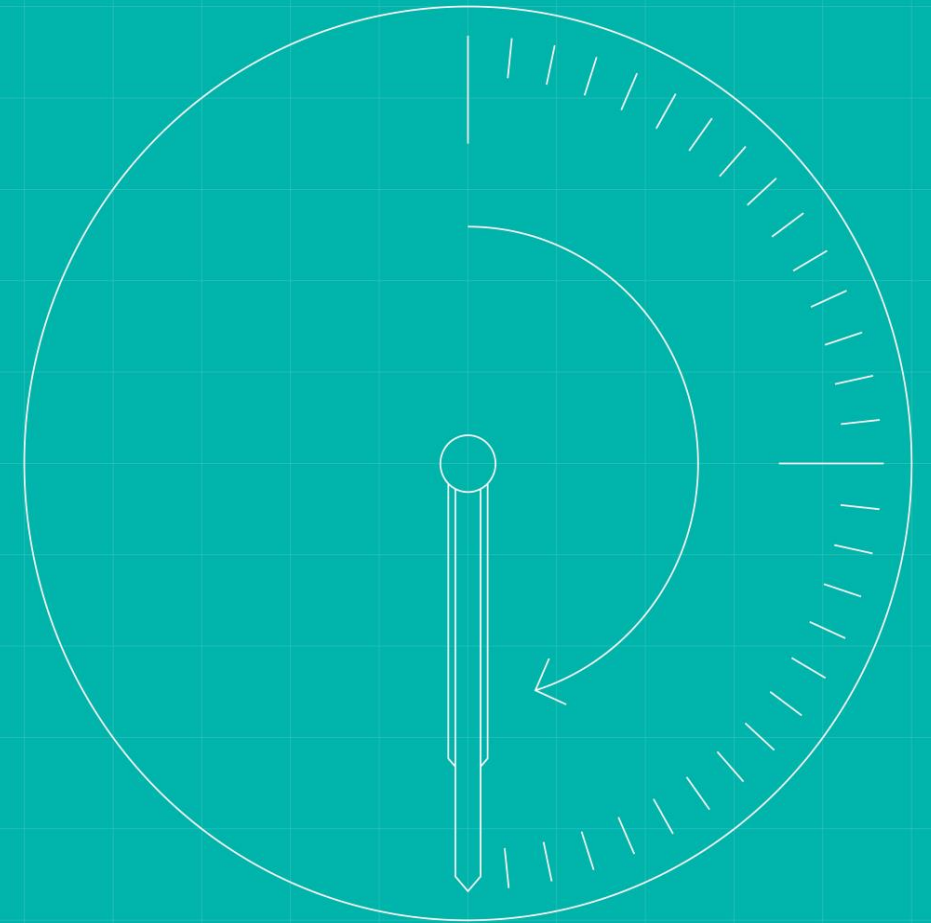
Ref	Action	Owner	Due	Latest update
DAG29-05	Programme to review the Programme Change Request template and ensure a view is provided alongside new CRs on the implementation/release outlook	Programme (PMO)	08/11/2023	ONGOING: Under review with Programme Change Lead. Updates to be provided at next meeting.
DAG29-06	Programme to review additional comments on DAG Terms of Reference updates and wider governance structure	Programme (Justin Andrews)	08/11/2023	RECOMMEND CLOSED: Latest comments reviewed. To be discussed under agenda item
DAG29-07	Programme to provide link to RAID form to DAG members	Programme (PMO)	ASAP	RECOMMEND CLOSED: RAID Input Form available on the <a href="#">Programme Collaboration Base</a> .
DAG29-08	Programme to review CR029 implementation and confirm it has not expanded the scope of the solution and whether any change or explanation is required	Programme (Paul Pettitt)	08/11/2023	RECOMMEND CLOSED: Review undertaken, and confirmation provided to Elexon Helix confirming that the scope of the CR029 was not expanded.

# 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-0085	Interim release 6 Go live	Fri 27/10/23	Wed 01/11/23	SI Design	On track	Complete	On track	
T2-DB-0100	Phase 1 - SIT Volunteers (Core Providers) complete	Fri 27/10/23	Fri 27/10/23	SI Design	On track	Complete	On track	
T2-DB-0250	Tranche 2 Transition Design Baselined	Wed 15/11/23	Wed 15/11/23	SRO	On track	On track	Complete	
T2-DB-0200	SIT PPs design assurance (excl Migration/Reverse Migration) complete	Wed 22/11/23	Wed 22/11/23	SI Design	On track	Complete	On track	
T3-DB-0098	Interim release 7 Go live	Wed 29/11/23	Wed 29/11/23	SI Design	On track	On track	Complete	Currently under review
T3-DB-0099	Interim release 8 Go live	Wed 10/01/24	Wed 10/01/24	SI Design	On track	On track	On track	Currently under review
T3-DB-0100	Interim release 9 Go live	Tue 30/01/24	Tue 30/01/24	SI Design	On track	On track	On track	Currently under review

#### Milestone RAG definitions

Complete

On track

Likely to be met if issues / risks are resolved / mitigated

Date missed or unlikely to be met without escalation

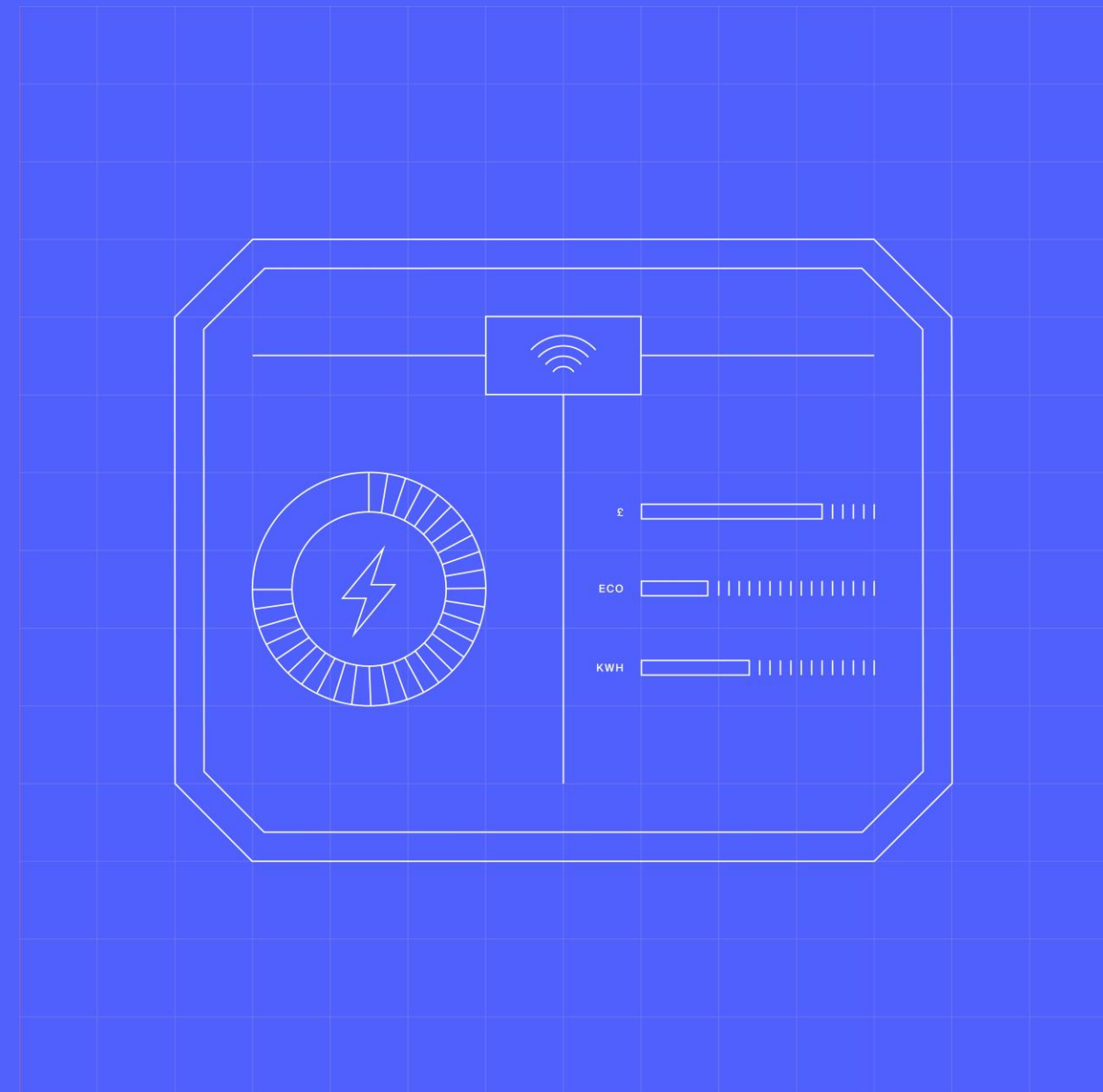


# CR032 Decision

**DECISION:** Decision on approval of CR032

*Programme (PMO)*

*10 mins*



### Objective:

DAG to review the outputs of the reissued CR032 Impact Assessments and advise SRO on their decision to approve or reject the Change Request.

### Headlines:

- Response rates to the CR032 Impact Assessment were low, with a mixture of support of and objection to the implementation of the Change Request.
- Overall: **3 respondents supported the change; 2 respondents rejected the change; and 2 respondents abstained.**
- **The supporters of the change highlighted the following items/themes to support their decision:**
  - The change should be quicker to deliver so enables testing within the current plan.
  - The change should only impact the ESO and Elexon.
- **The respondents who voted against the Change Request did so on the following basis:**
  - The proposed change leaves a gap in the Design, therefore the change cannot be implemented until a replacement for the P0210 is put forward.
  - The proposal appears to remove the flexibility for required changes into TNUoS reporting inputs that NGENSO ultimately use to issue bills to relevant parties, meaning that the benefit of adaptable cost-efficient changes are required sooner given the known inaccuracies that is currently being seen because the changing the current version of the P0210 are cost prohibitive.
  - It has been argued that the Change Request is attempting to negate NGENSO of its BSC obligations to comply, support & deliver MHHS.
- **Further comments:**
  - Half of the responding Participants did not provide comments on their Impact Assessments due to the proposed change having no impact upon their activities.
  - The Programme understands that the building of ELEX-REP-080 is not required as the report is not fit for purpose, but the P0210 cannot be removed without a suitable replacement.

## CR032 – Submitted Impact Assessments

Programme Parties	CR032 Recommendations			
	Yes	No	Abstain	No Reply
Large Suppliers	1	-	-	4
Medium Suppliers	1	-	-	6
Small Suppliers	-	-	-	33
I&C	-	1	-	40
DNOs	-	-	1	5
iDNOs	-	-	-	13
Ind. Agents	-	-	-	47
Supplier Agents	-	-	-	7
S/W Providers	-	-	1	24
REC Code Manager	-	-	-	1
National Grid ESO	1	-	-	-
Consumer	-	-	-	1
Elexon (Helix)	-	-	-	1
DCC	-	-	-	1
SRO / IM & LDP	-	1	-	-
IPA	-	-	-	1
Avanade	-	-	-	1
<b>Totals</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>182</b>

Market Share			
Yes	No	Abstain	No Reply
18%	-	-	82%
6%	-	-	94%
-	-	-	100%
20%	-	-	80%

Market Share information is according to the latest Meter Point Administration Number (MPAN) data held by the Programme as of August 2023. Market Share has not been provided for constituencies where MPAN data is not currently available.

**Notes:**

The classification of Independent and Supplier Agents is maintained by the Programme Party Coordinator and is subject to change.

Rationale for being marked down as abstained:

- One DNO abstained from providing a recommendation as they are not impacted by the Change Request.
- One Software Provider abstained from providing a recommendation because there is no impact on them as a result of the Change Request.

## CR032 Impacts – Views on the proposed approach (Page 1)

Programme Parties	Range of respondents' views on benefits and concerns (related to the approach in CR032)
<b>Large Suppliers</b>	<ul style="list-style-type: none"> <li>+ The one responding Large Supplier supported the implementation of the Change Request.</li> <li>+ They supported the justification for the change and agreed that the proposal would be quicker to deliver.</li> </ul>
<b>Medium Suppliers</b>	<ul style="list-style-type: none"> <li>+ The one responding Medium Supplier supported the implementation of the Change Request.               <ul style="list-style-type: none"> <li>▪ They did not provide any supporting statements as they acknowledged that the file is received by ESO only.</li> </ul> </li> </ul>
<b>Small Suppliers</b>	<i>Did not respond.</i>
<b>I&amp;C</b>	<ul style="list-style-type: none"> <li>– The one responding I&amp;C Supplier rejected the implementation of the Change Request.</li> <li>– The Change Request does not set out what new or amended items will be included for reporting of TNUoS &amp; BSUoS volumes in a post MHHS world.</li> <li>– The proposal appears to remove the flexibility for required changes into TNUoS reporting inputs that NGESO ultimately use to issue bills to relevant parties, meaning that the benefit of adaptable cost-efficient changes are required sooner given the known inaccuracies that is currently being seen because the changing the current version of the P0210 are cost prohibitive.</li> <li>– The proposal simply moves the problem from being under the MHHSP governance arrangements into the Code Bodies space.</li> <li>– They argue that the Change Request is attempting to negate NGESO of its BSC obligations to comply, support &amp; deliver MHHS, and that approving the Change Request in its current form would arguably suggest that the ESO is being given preferential treatment by the MHHSP.</li> </ul>
<b>DNOs</b>	<ul style="list-style-type: none"> <li>▪ The one responding DNO abstained from voting on the Change Request as they are not impacted by the proposed change.</li> </ul>
<b>iDNOs</b>	<i>Did not respond.</i>
<b>Agents</b>	<i>Did not respond.</i>

## CR032 Impacts – Views on the proposed approach (Page 2)

Programme Parties	Range of respondents' views on benefits and concerns (related to the approach in CR032)
<b>SW Providers</b>	<ul style="list-style-type: none"> <li>▪ The one responding Software Provider abstained from voting on the Change Request as the proposed change does not impact them.</li> </ul>
<b>REC Code Manager</b>	<i>Did not respond.</i>
<b>National Grid ESO</b>	<ul style="list-style-type: none"> <li>+ As the Change Raiser, National Grid ESO are in favour of the implementation of the Change Request.</li> </ul>
<b>Consumer</b>	<i>Did not respond.</i>
<b>Elexon (Helix)</b>	<i>Did not respond.</i>
<b>SRO / IM &amp; LDP</b>	<ul style="list-style-type: none"> <li>- The Programme does not support the implementation of the Change Request.</li> <li>- The Programme understands that the building of ELEX-REP-080 is not required as the report is not fit for purpose. However, the removal of P0210 without a determined replacement leaves a gap in the Design. Until the Programme is given sight of the proposed replacement of the P0210, the Programme cannot support the approval of the Change Request.</li> </ul>
<b>IPA</b>	<i>Did not respond.</i>
<b>Avanade</b>	<i>Did not respond.</i>

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

The DAG are requested to advise SRO on their decision to approve or reject CR032:

<b>DECISION [79]</b>	<b>SRO to approve/reject the CR032 'Change to Interface MHHS-IF-165 P0210 TUoS Reporting'</b>
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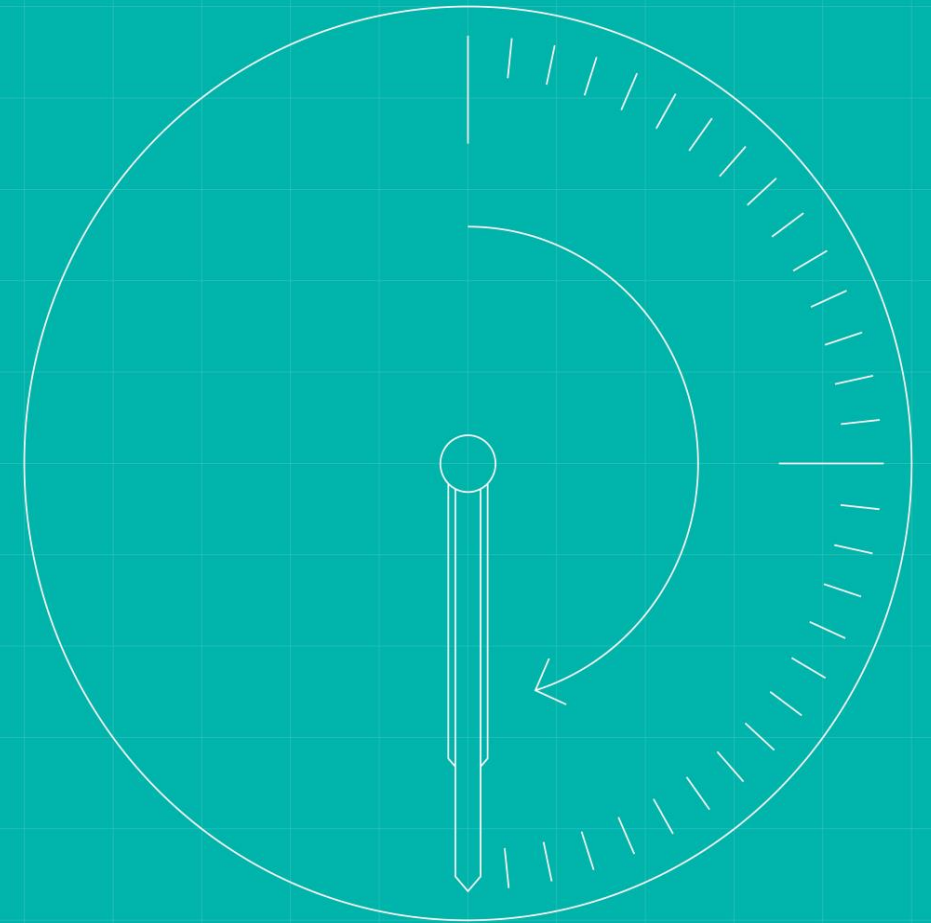
Confirmation of next steps will be provided following the decision

# Transition Design Decision

**DECISION:** Decision on approval of Transition Design  
Tranche 2 Artefacts

*Programme (Andrew Margan)*

*15 mins*



## Summary of Transition Design Tranche 2 Consultation Comments

Type of Comment	Number of Comments
Alternate Proposal and Associated Comment	2
Assumptions	9
Minor Update	4
Typo	1
Out of Scope	5
Clarifications	10
Reviewed and no further comments	2
<b>Total</b>	<b>33</b>

Status	Number of Comments
Accepted	7
Acknowledge	14
Clarification Provided	5
Rejected	7
<b>Grand Total</b>	<b>33</b>

### Comments Summary

- Clarification on publish and format of the Master Settlement Timetable
- Clarification request as to whether reduction of RF will apply to non-migrated MPANs
- Requests for clarification on Go/ No Go criteria
- Incorrect date identified and missing word - updated
- Clarification on why dispute process was out of scope
- Identified the need for Programme, Elexon and Helix as to responsibilities on implementing the proposed changes - acknowledged
- Requesting that open dispute count to be monitored for go/no-go decision
- Proposed alternative approach – rejected, as new the approach did not resolve issue of RF Runs not being contiguous and also created supplier cash flow issues by concentrating RF Runs into very compressed timeframe
- One participant felt there were limited benefits of shortening the Settlement Timetable before M16
- Identified that it is up to Suppliers to decide how long Legacy systems are supported to deal with disputes – acknowledged, proposal does not force closure of systems

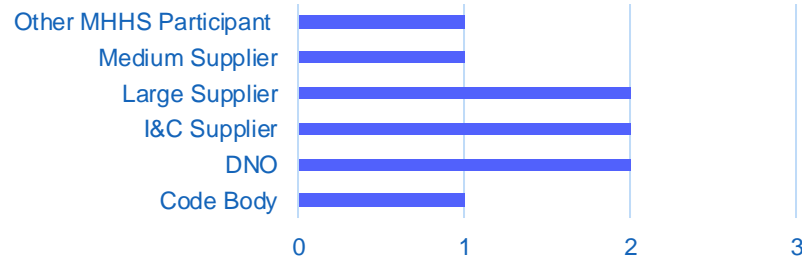


## Overview of Transition Design Tranche 2 Consultation Analysis

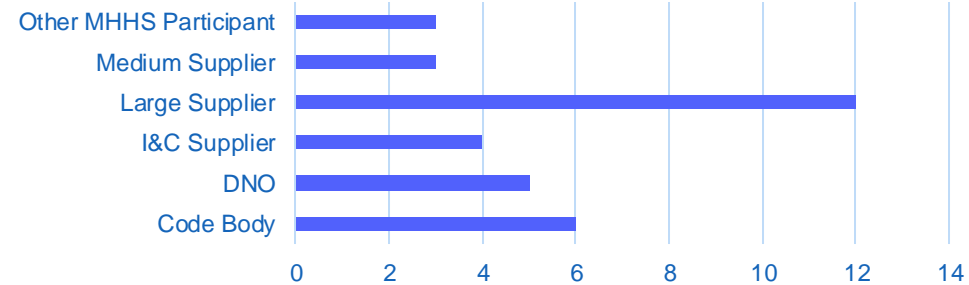
The graph below (left) shows number of constituents responding – DNOs, Large Suppliers and I&C Suppliers provided most responses

The graph below (right) shows the breakdown of comments by constituent group – Large Suppliers provided the most comments (39%)

Number of Constiuent Responses

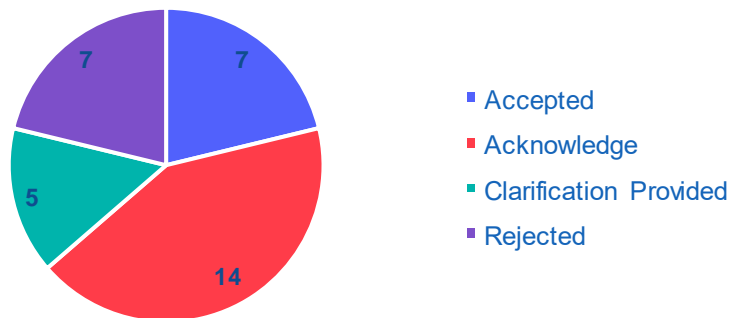


Number of Comments by Constiuecy



The graph below shows the comment analysis

Number of Comments



Triage status	Description
Accepted	Comment has been accepted and change has been made to Transition Design
Rejected	Comment reject - No change will be made to Transition Design
Acknowledge	Comment is not related to the Transition Design artefacts but may be picked up in other work streams or further clarification will be provided to the comment raiser.
Clarification Provided	No change made - clarification is provided to respond to reviewers comment

**Solution Status:**

- The Transition Design, Settlement Timetable Transition consultation is complete
- Consultation comments have been actioned and addressed – (no change to the workgroup solution)
- There are no are no reasons not to progress the solution for a DAG decision

**The Programme's Transition Design Workstream Recommendation is –**  
*The Settlement Timetable Transition proposal is returned to DAG for decision*  
*The Settlement Timetable Transition proposal is approved by DAG and baselined*  
*The baselined artefacts are published on the MHHS Collaboration Base and MHHS Website*

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

**DECISION [80]**

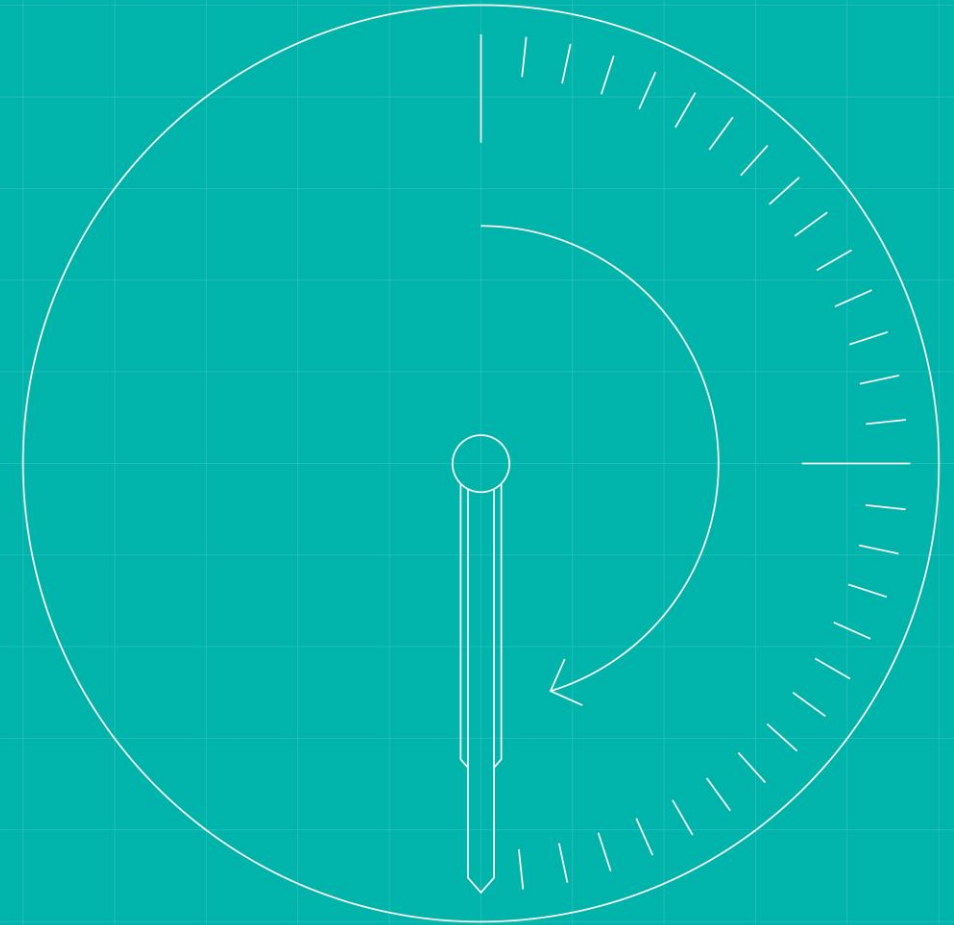
**SRO to approve Transition Design, Settlement Timetable Transition artefacts (baseline) and publication on the MHHS Collaboration Base and MHHS Website (Transition Design pages)**

# UTC vs Clock Times

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

*Programme (Matt Hall)*

*15 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 these workshops, 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)?***
- Of these sessions was presented to DAG on the 11th October, but opinion within DAG was divided as to the best option to proceed with

## PPIR

- Following direction from the DAG chair we are issuing a Programme Participant Information Request (PPIR) to request Participants' input on these subjects:
  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)?***

PPIR issued 16-Oct-23

Participants responses  
back by 30-Oct-23

Programme collate  
responses along with a  
recommendation 01-  
Nov-23

DAG discuss and DAG  
chair makes decision  
via delegated SRO  
authority - 08-Nov-23

Design Artefacts are  
updated in accordance  
with the DAG decision

## Response Assessment and Recommendation

- We had a good number of constructive contributions from a wide selection of Participants
- Opinion was divided on the best option for both subjects although every responding Participant was consistent in their responses when opting for either Clock or UTC
- The one consistent opinion through the piece was that in an ideal world there would be consistency across the industry but that is outside the scope of this Programme
- While opinion was divided, there was a majority on both topics to choose Clock Time options
- Taking this into account and reviewing the Participant feedback, the programme has ultimately been swayed by two key arguments, and the impact they have on the underlying benefits case for MHHS:
  - **Customer Experience:** Customers expect to be billed to their CoS date and time which is clock midnight. MHHS exposes any misalignment to those customers so that misalignment should not be present
  - **Settlement Accuracy:** Use of Actual data for both Change of Supplier reads and Settlement calculations ensures more accurate settlement calculations

### Programme Recommendation

- Change of Supplier reads: **Option 2: Adjust to Clock Midnight**
- Service Appointment Times: **Option 2a: Clock with Actuals**

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

### DECISION [81]

**SRO to approve the recommendations above regarding CoS reads and Service Appointment times alignment to Clock time**

### Next Steps

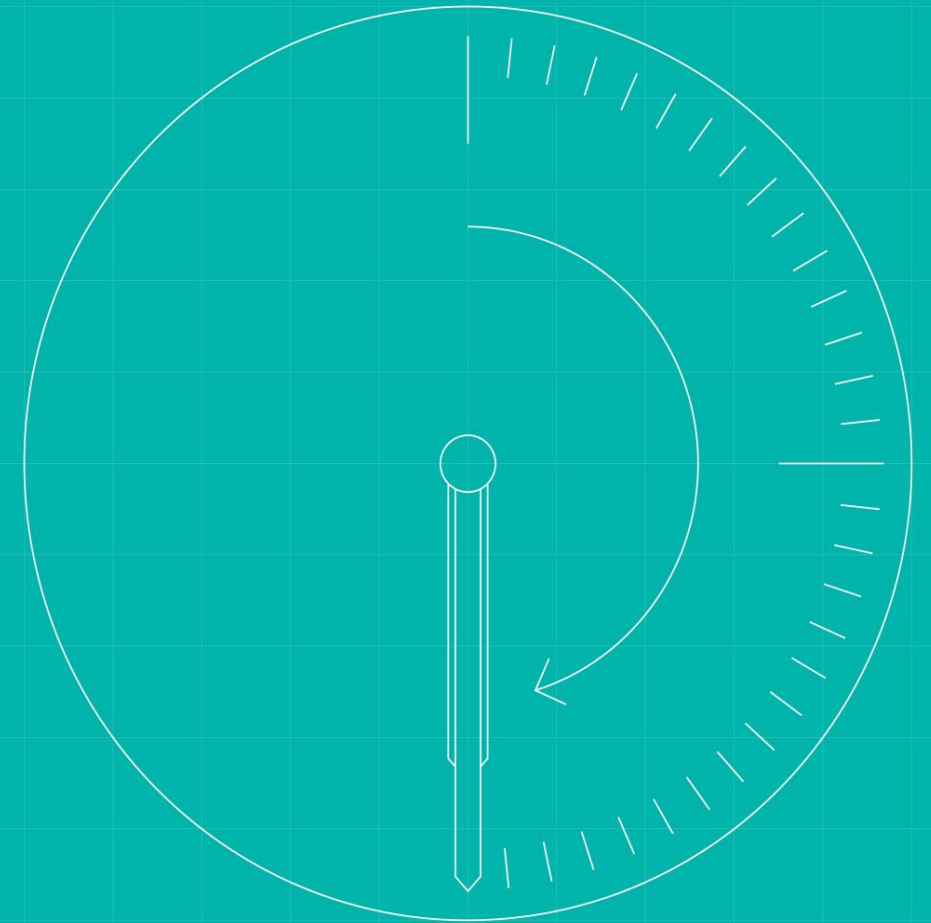
- Subject to approval, the relevant design artefacts will be updated accordingly via a Design Issue Notification (DIN)

# CR034 - Delay to Elexon Level 4 validation response – NFR (1009)

**DECISION:** Decision on issuance of CR034 to Impact Assessment

*Elexon (Nigel Rees)*

*10 mins*





## CR034 overview

### Objective: DAG to decide on issuance of CR034 to Impact Assessment

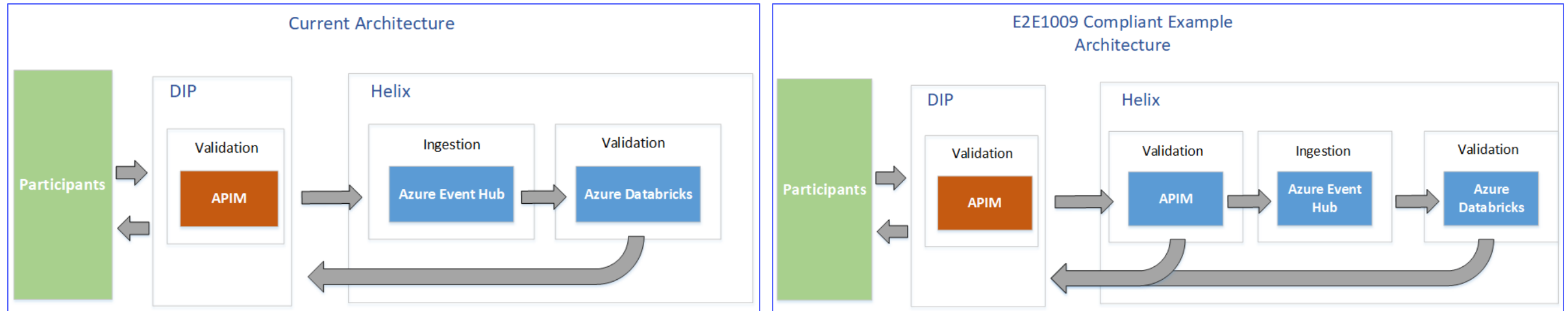
#### Delay to Elexon Level 3 Validation Response – NFR (1009)

##### Issue Statement:

- Helix Data Acquisition Hub, which interfaces with DIP, has been designed with a micro batch architecture. This architecture was chosen based on the functional and non-functional requirements available during the design phases. The architecture enables Helix to process the large quantities of data and respond as per the timings detailed in the operational choreography.
- Given Helix operational responses are detailed separately, it has been clarified by MHHS that the level 4 validation referred to in E2E1009 required technical validation responses only from Helix i.e., schema validation.
- Currently Helix de-queues all messages and provides a Level 4 technical validation response between 1 and 10 minutes back to DIP and not within 6 Seconds as detailed in E2E1009.

##### Description of change:

- The change being proposed is that Helix does not meet the requirements of E2E1009.
- Helix will maintain its current architecture and continue to respond to DIP between 1 and 10 minutes regarding schema validation issues.



## DAG Decision on CR034 Issuance to Impact Assessment

The DAG are requested to validate CR034 and advise SRO on their decision to issue it for Impact Assessment:

<b>DECISION [82]</b>	<b>SRO to approve/reject issuing of CR034 for Impact Assessment</b>
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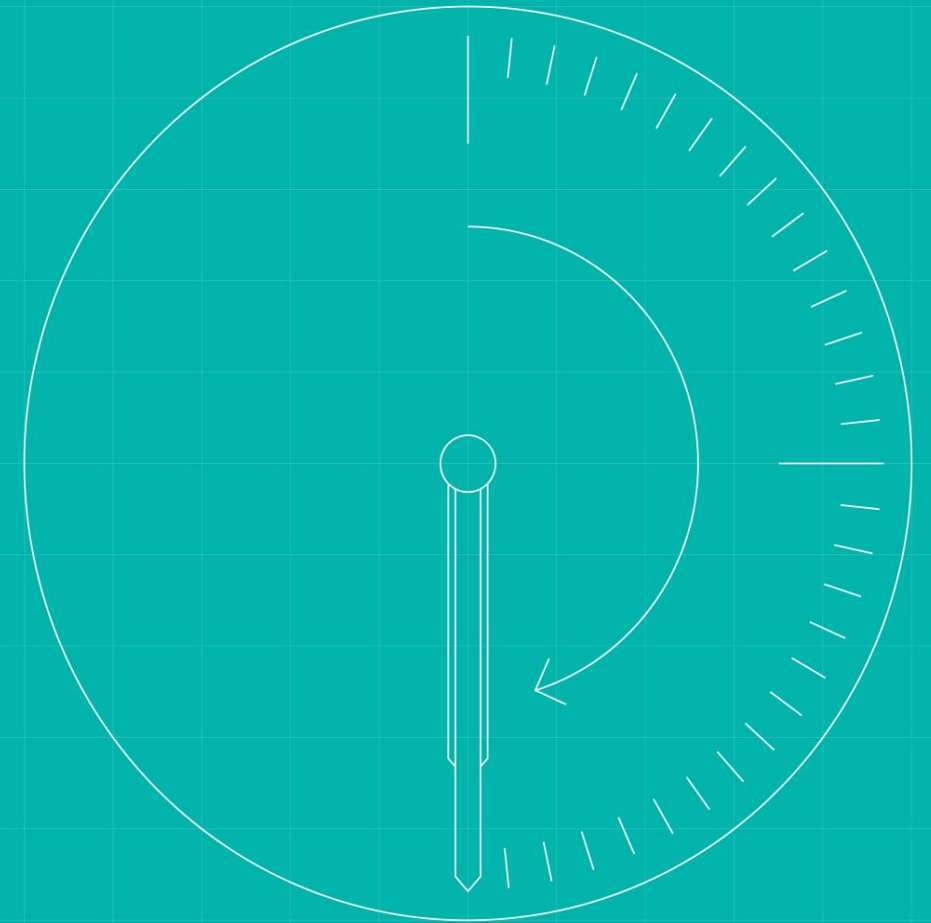
Confirmation of next steps will be provided following the decision

# Updates to the Interface Code of Connections

**DECISION:** Decision on approval of updates to the Interface Code of Connections

*Programme (Kevan Gleeson)*

*10 mins*



## Overview of Proposed Updates to CoCo

Objective: To provide an overview of the proposed updates to the CoCo (see Attachment 1) and any supporting commentary.

### Proposed Updates:

Area of Update	Supporting Commentary
Updates to Section 8.4 (Signing Messages), to encoding clarification	Clarifications added regarding message signing
Removal of Nominating Officer Role	Due to a streamlined process there are updates to PKI roles as previously set out
Replacing PKI Roles (SRO, ARO, TCs) with 'Certificate Admin'	Due to a streamlined process there are updates to PKI roles as previously set out
Updates to Role Privileges Table to reflect changes to PKI Roles	Due to a streamlined process there are updates to PKI roles as previously set out

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

### DECISION [78]

**SRO to approve the updated Interface Code of Connections v1.2 for publication**

### Next Steps

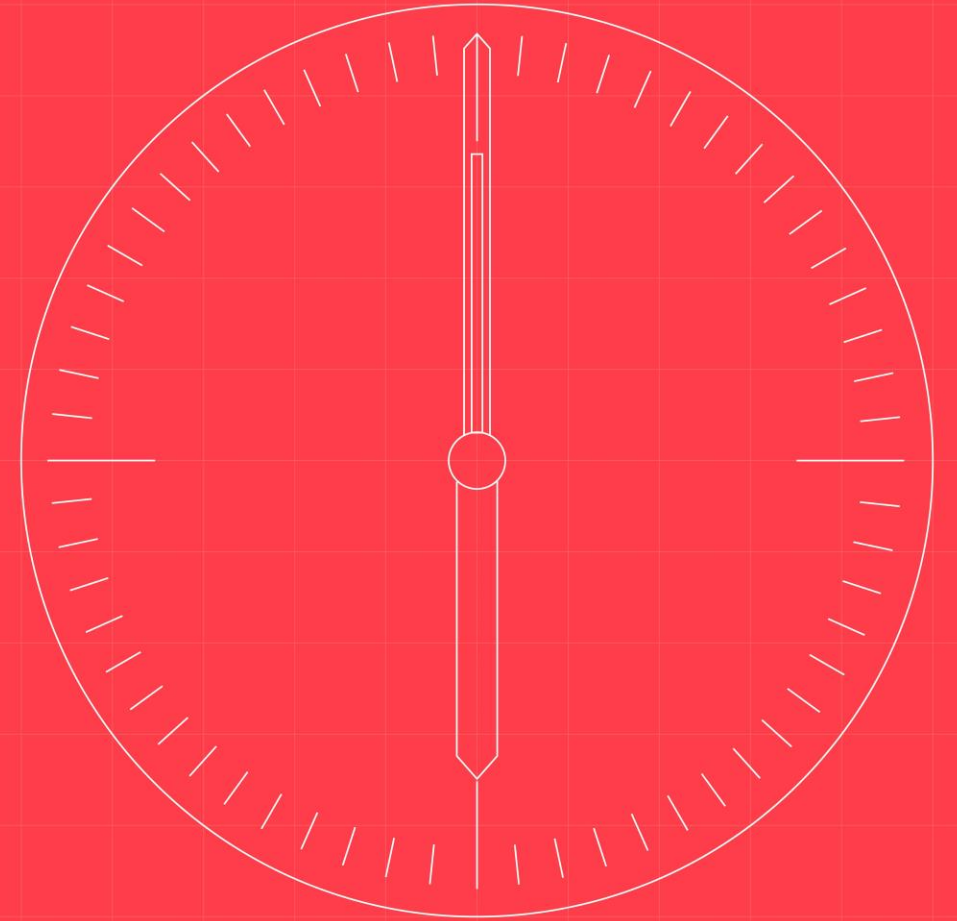
- Subject to approval, the updated CoCo v1.2 will be published, and participants notified via The Clock
- The SDWG will be available for ad-hoc meeting for the ongoing management and update of security design artefacts, undertaking Impact Assessments where required, and making recommendations to the DAG

# Design (DIN)

**INFORMATION:** Update on the Design (DIN)

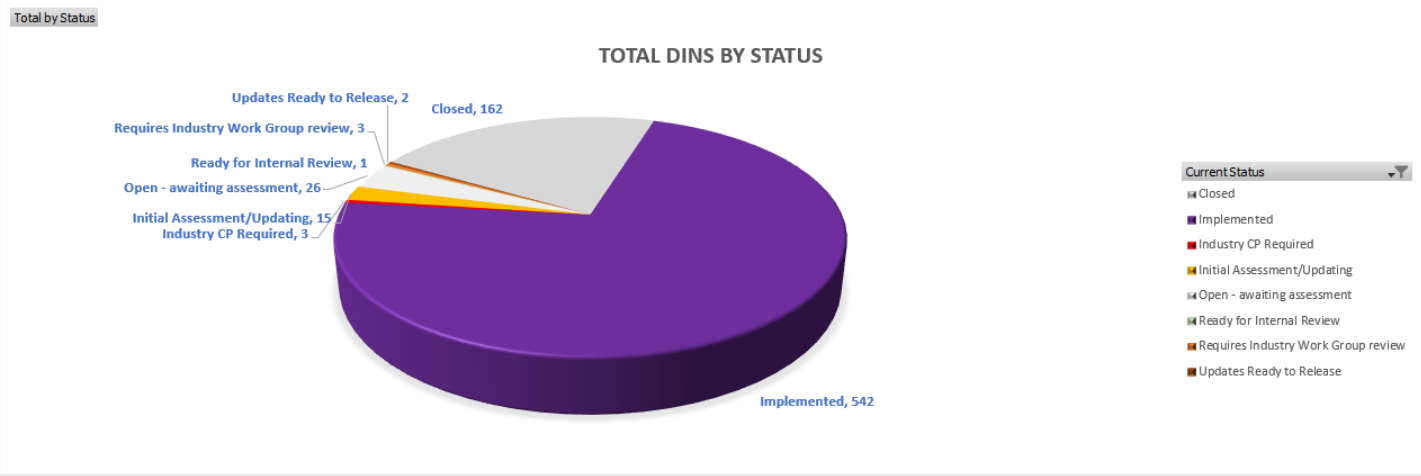
*Programme (Paul Pettitt)*

5 mins



# DIN Log Stats as of 1 November 2023

Total Recorded DINs 754



## Total DINs by Status

Current Status	Total by Status
Closed	162
Implemented	542
Industry CP Required	3
Initial Assessment/Updating	15
Open - awaiting assessment	26
Ready for Internal Review	1
Requires Industry Work Group review	3
Updates Ready to Release	2
<b>Grand Total</b>	<b>754</b>

## 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	34
Interim Release 7	31
Interim Release 8	10
Interim Release 5.1	25
Interim Release 2.1	3
<b>Grand Total</b>	<b>583</b>

## Total Open DINs

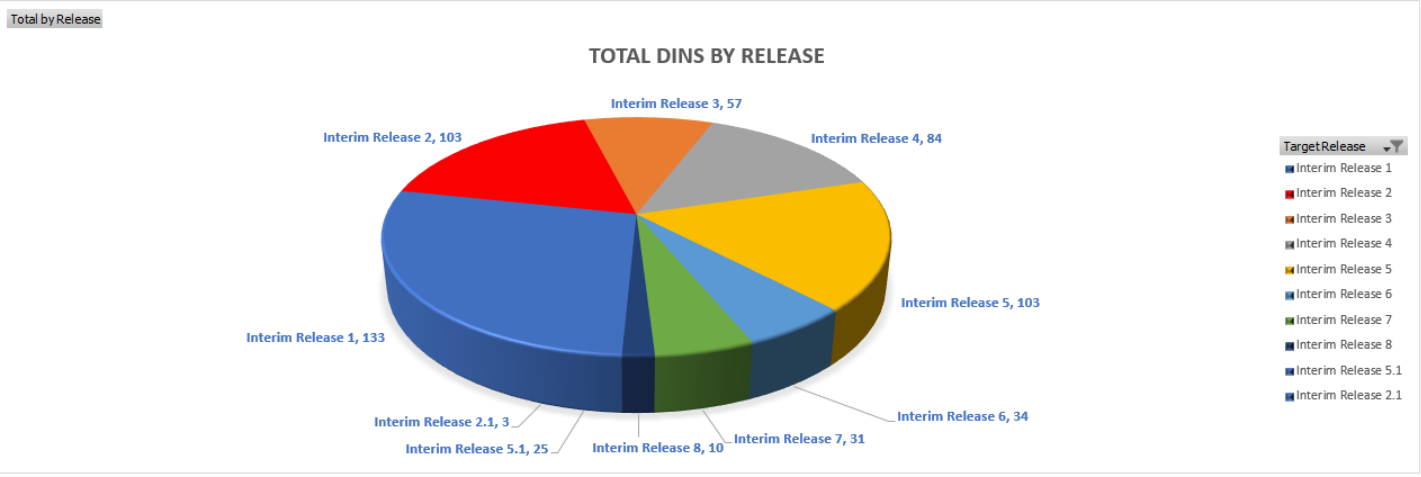
Status	Total by Status
Industry CP Required	3
Initial Assessment/Updating	15
Open - awaiting assessment	26
Ready for Internal Review	1
Requires Industry Work Group review	3
Updates Ready to Release	2
<b>Grand Total</b>	<b>50</b>

## Total Open DINs by Age & Status

DINs by Date & Status	Total by Status
Open - awaiting assessment	26
Industry CP Required	3
Initial Assessment/Updating	15
Requires Industry Work Group review	3
Ready for Internal Review	1
Updates Ready to Release	2
<b>Grand Total</b>	<b>50</b>

## Total Objections by Raiser

Raiser & Status	Totals by Status
Callisto	15
Upheld	1
Rejected	14
Elexon	7
Rejected	7
EON	1
Objection Withdrawn	1
IMSERV	1
Rejected	1
Ovo	3
Rejected	3
Power Data Associates	11
Rejected	10
Withdrawn	1
RECCo	21
Upheld	3
Objection Withdrawn	3
Rejected	10
Withdrawn	2
(blank)	2
On Hold	1
SMS	1
Rejected	1
St Clements	32
Upheld	9
Rejected	6
Withdrawn	8
(blank)	2
On Hold	7
Stark	1
Rejected	1
<b>Grand Total</b>	<b>93</b>

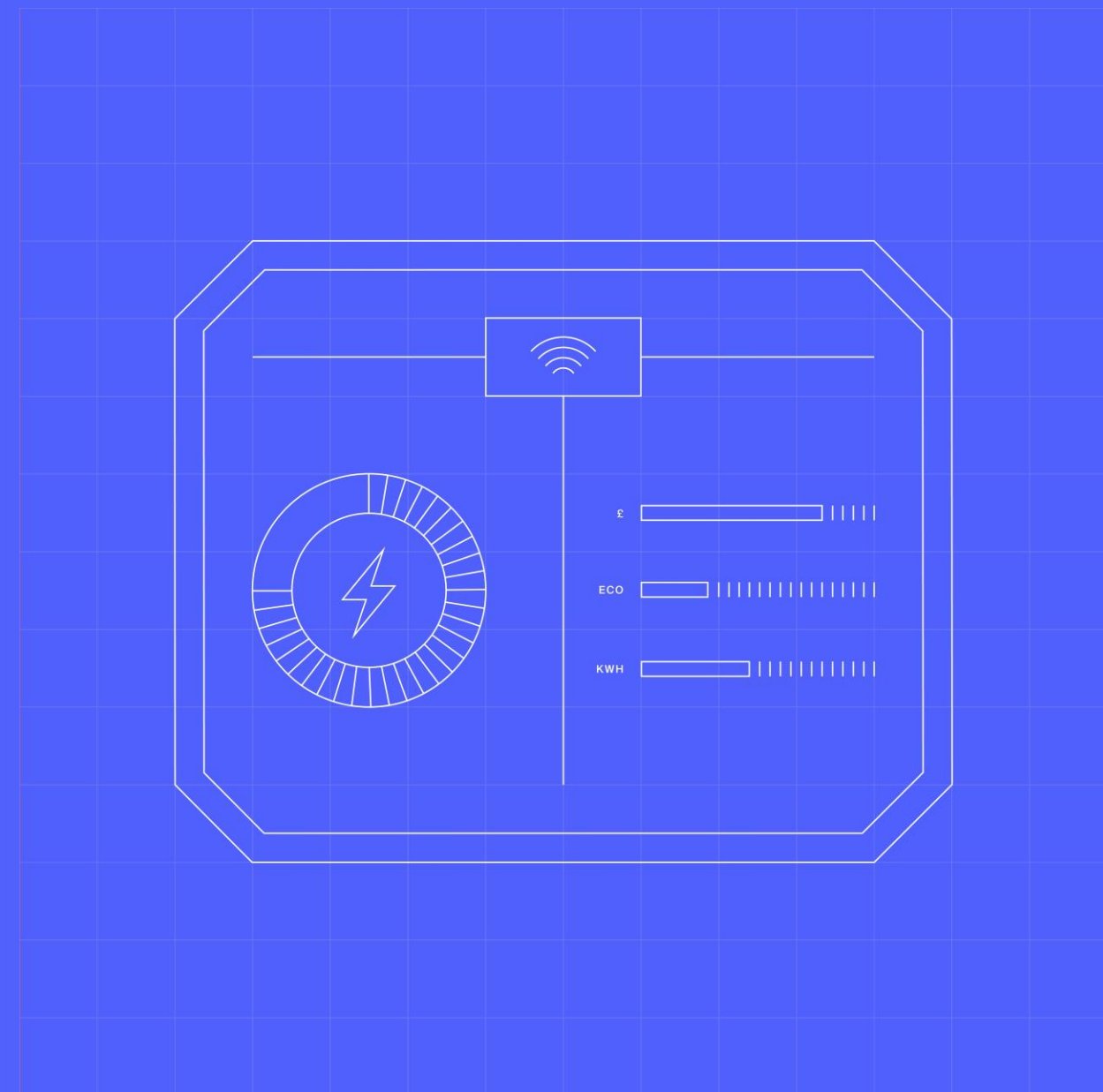


# DAG Terms of Reference Update

**INFORMATION:** Verbal update on review of DAG Terms of Reference

*Chair (Justin Andrews)*

*10 mins*



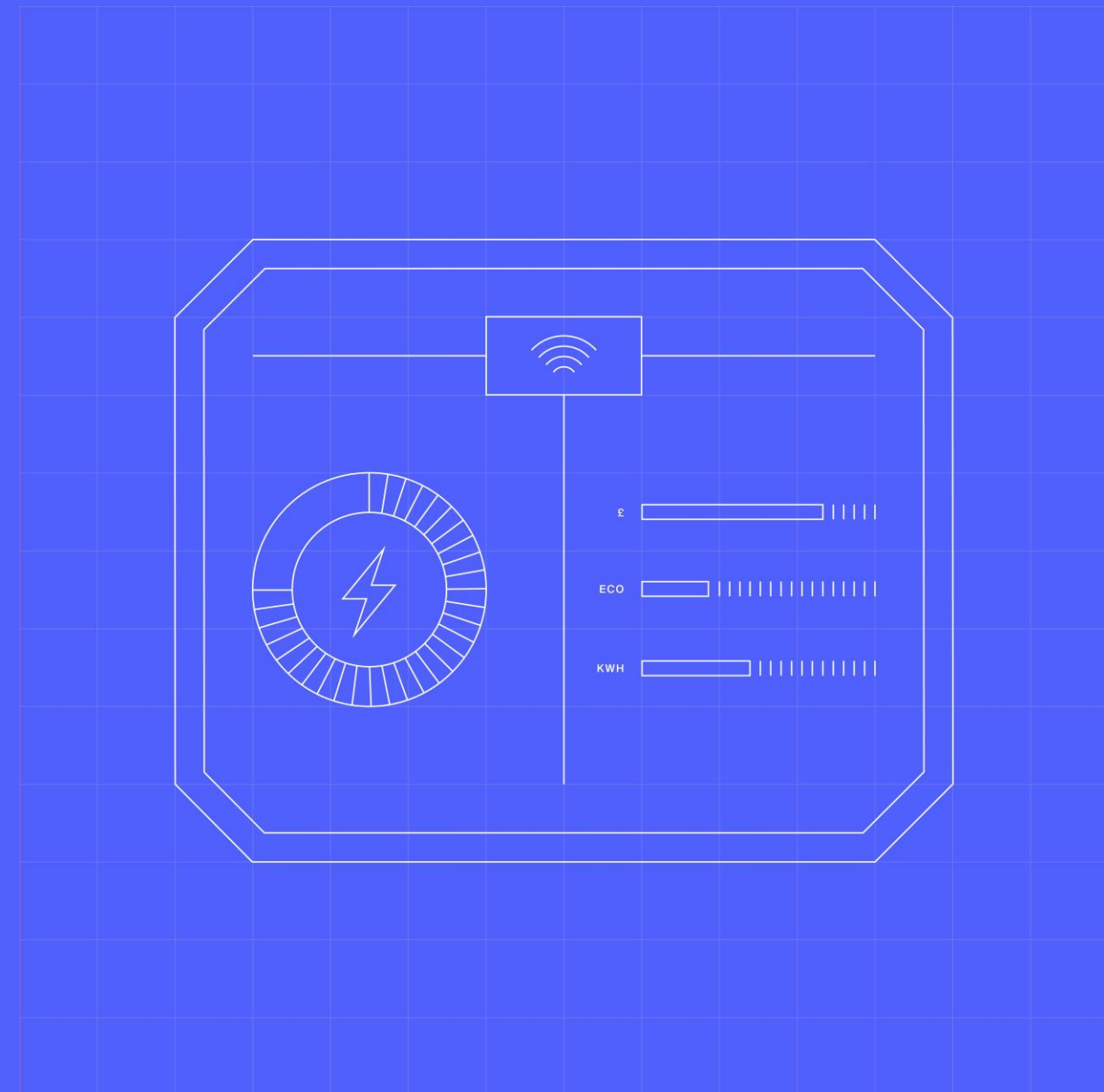


# Top Programme Risks related to DAG

**INFORMATION:** Update on the top Programme Risks related to DAG

*Programme (PMO)*

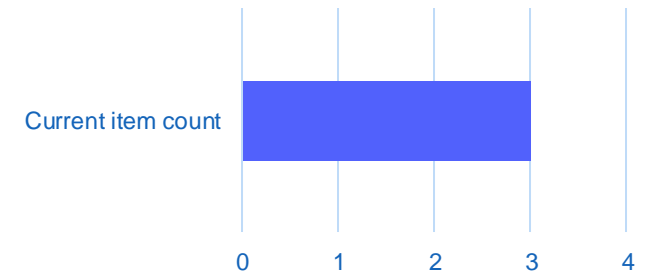
*10 mins*



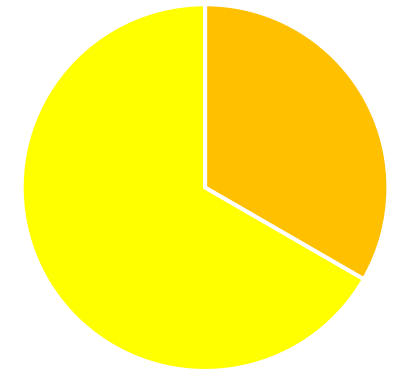
## Top Programme Risks related to DAG

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
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
R668	There is a risk that following IR5, feedback has come from some PPs on the volume of SIT Functional testing DINs in IR5 (and their ability to implement IR5 due to this)	PP ability to complete PIT ahead of	Medium	1) IR5 has been published, if participants cannot meet the updates following IR5 by the start of SIT they will need to talk to the programme on a bilateral basis to assess the impact

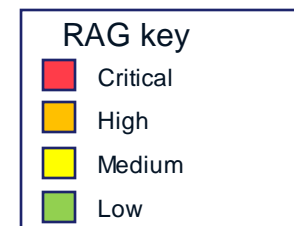
DAG risk count



DAG risks RAG



■ High risks ■ Medium risks

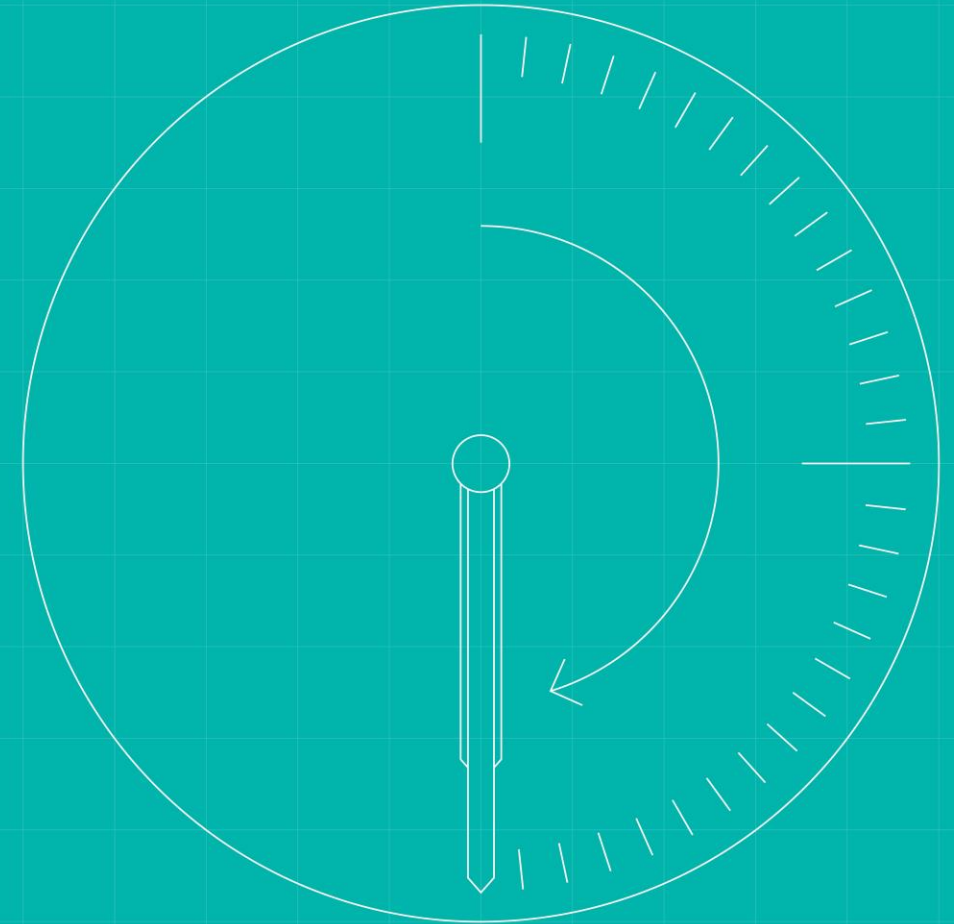


# Programme Updates

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

*Programme (PMO)*

*5 mins*



Governance group updates

**Programme Steering Group (PSG)**

**Updates from Extraordinary PSG 30 October 2023**

- M9 Decision:** The SRO approved the completion of Tier 1 Programme milestone T1-TE-1000 (System Integration Testing Start (M9)). Information was provided on participant and Programme readiness as per the meeting papers, as well as views from the IPA and Ofgem. The meeting papers and Headline Report can be found on the [PSG area of the MHHS website](#). The approval of M9 represents a crucial milestone for the Programme and signifies the start of Systems integration Testing (SIT) as well as a shift in the Programme as activities transition from design and build to testing for early adopters. SIT commences with Component Integration Testing (CIT), which is the first of the five stages of SIT. Extensive testing will take place between now and M10 (Technical Go-Live, with migration activities commencing at M11. In addition to supporting CIT execution, the Programme are now working toward finalising preparation activities for SIT Functional testing and subsequent phases as well as working closely with Code Bodies to clarify and finalise the approach to Qualification Testing.

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 11 October 2023**

- CR032 Impact Assessment:** The DAG approved the issuance of Programme Change Request (CR) 032 ([Change to Interface IF-165 P0210 TuoS Reporting](#)) to Impact Assessment (IA) subject to amendments requested by the DAG. IA will be issued to all participants in due course.
- Updates to Interface Code of Connections (CoCo):** The DAG approved minor updates to the CoCo. The v1.1 CoCo will be published in due course a notification provided to participants via The Clock.
- Transition Design Updates:** The DAG agreed to issue the Tranche 2 Transition Design (Settlement Timetable) documents for consultation. Responses should be provided to [transitiondesign@mhhsprogramme.co.uk](mailto:transitiondesign@mhhsprogramme.co.uk) by CoB 25 October 2023. A decision on approval will be made at the DAG on 08 November 2023. release is Interim Release (IR) 5 on 04 October 2023.
- Testing Release Strategy:** The Programme provided information on testing releases and how these will be managed alongside design releases (for further info see DAG meeting papers).

DAG papers available [here](#)

**Cross Code Advisory Group (CCAG)**

**Update from CCAG 25 October 2023**

- Horizon Scanning Log:** For BSC, P459 was discussed. For REC, R0083, R0083A, R0117, R0139, R0143, R0148 were discussed, for DCUSA, DCP428 was discussed. The Programme walked through changes that they believed will impact them.
- CDWG Escalations:** No escalations were raised.
- CCAG Reporting, Risks and Milestones:** CCAG members approved the movement of Elexon Consequential Code Change T3 milestone from the December to the February consultation. The Programme provided a high-level overview of the Mop-up planning activities, including the approach and controls.
- Consequential Code Change Delivery:** Updates from Elexon and NGESO were provided in relation to their delivery status.
- CDWG Update:** The Programme provided an overview from CDWG.

CCAG papers available [here](#)

Wider Programme Updates

**M9 Approval:**  
Following the approval of **Milestone Nine (M9: Systems Integration Testing (SIT) Start)** at the Programme Steering Group (PSG) on **Monday 30 October 2023**, the Programme will proceed into its next major phase of delivery. M9 is a Tier 1 (Level 1) Milestone and critical moment for the Programme. It signifies the start of SIT and a shift in Programme delivery as we transition from the design, build and test focus for early adopters, into the initial stages of integrated industry testing.

**Participant Checklist:**

- Interface Code of Connection (CoCo) updated:** The Programme has published an updated, red-lined version of the Interface Code of Connection (CoCo) to **v1.2** to account for participant feedback on Section 8 Message Signing. To review the changes and check how it impacts you, please visit the [Data Integration Platform \(DIP\) page of the MHHS website](#).
- Interim Release 6 Design Artefacts to be published today:** We're publishing the **Interim Release 6 Design Artefacts** today, on **Wednesday 1 November**. 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](#) to make clear which sections are updated.
- Environment Approach & Plan updated:** Following the assurance review that closed on **20 October 2023**, the Programme has published an updated version of the **Environment Approach & Plan**. Both red-lined and clean versions of the document are now available in addition to a Consolidated Comments Log. You can view these documents on the [Testing Overview page of the MHHS website](#). The document will be taken to the Environment Working Group (EWG) on **Tuesday 7 November** before going to the Testing & Migration Advisory Group (TMAG) on **Wednesday 15 November**.

**Upcoming Events:**  
**SIT Functional Test Scenarios & Cases Deep Dives:** As indicated in the SITWG on **Friday 6 October**, the Testing team have scheduled a series of five SIT Functional Test Scenarios and Cases Deep Dive sessions that are taking place between **10 October and 7 November 2023**. The session recordings and Q&As are available on the [SITWG page of the Collaboration Base](#).  
**NEW! Transition & Operational Readiness Working Group:** The first meeting of the Transition & Operational Readiness Working Group (TORWG) will take place at **14:00 on Tuesday 5 December 2023**. Meeting papers will be issued the week before.

**Upcoming Governance Meetings:**

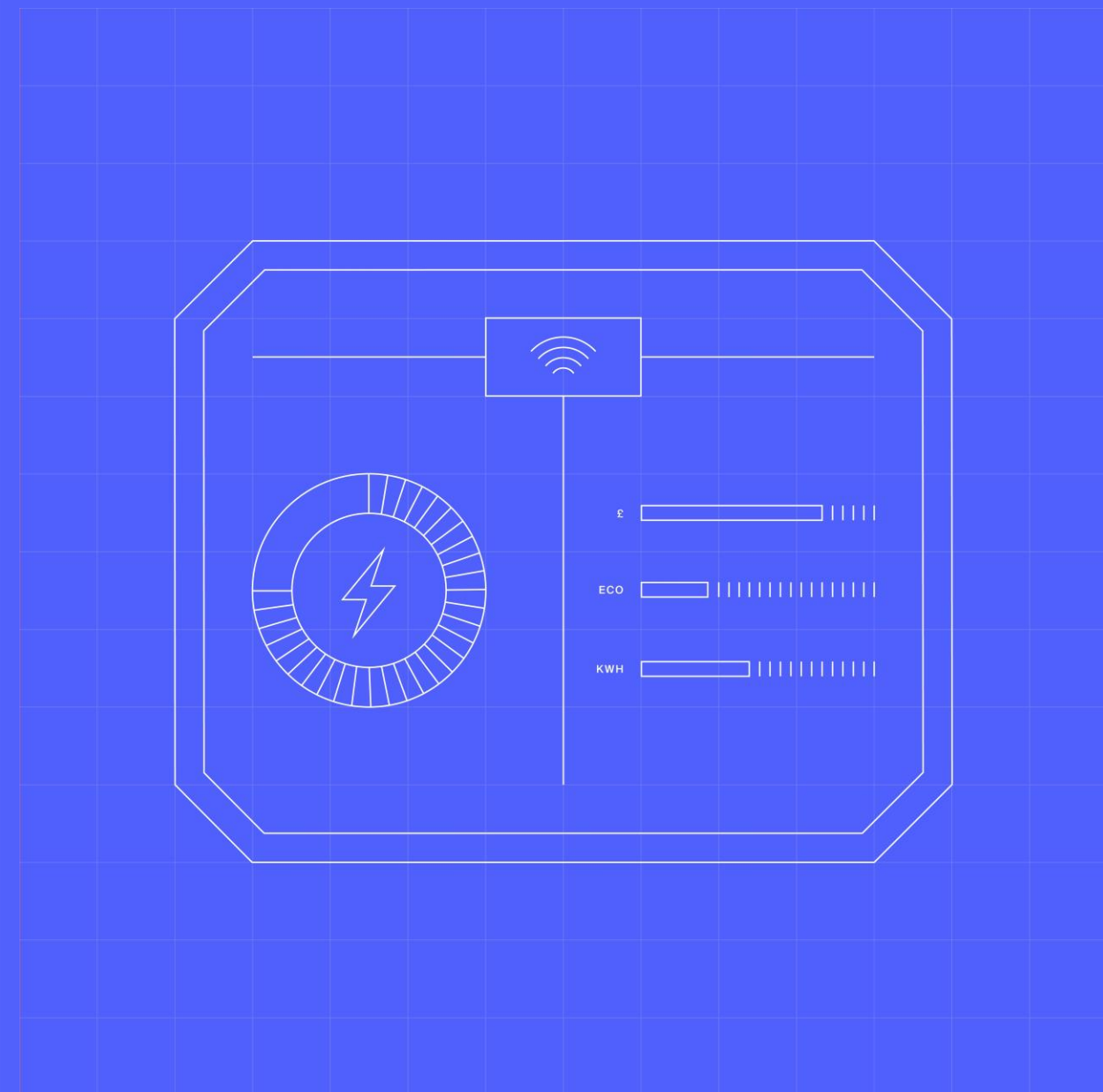
- Thursday 02 November 2023: Data Working Group (DWG)
- Thursday 02 November 2023: Systems Integration Testing Working Group (SITWG)
- Tuesday 07 November 2023: Environments and Configuration Management Working Group (EWG)
- Tuesday 07 November 2023: Security Design Working Group (SDWG)
- Wednesday 08 November 2023: Design Advisory Group (DAG)
- Wednesday 08 November 2023: Programme Steering Group (PSG)

# 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: **13 December 2023 at 10am**

### DAG agenda roadmap:

Meeting dates	13-December	10-January	14-February
Relevant milestones or activities	<ul style="list-style-type: none"> <li>• TBC</li> </ul>	<ul style="list-style-type: none"> <li>• TBC</li> </ul>	<ul style="list-style-type: none"> <li>• TBC</li> </ul>
Agenda items	<ul style="list-style-type: none"> <li>• Interim Releases and DIN Log</li> <li>• Programme Change Requests</li> </ul>	<ul style="list-style-type: none"> <li>• Interim Releases and DIN Log</li> <li>• Programme Change Requests</li> </ul>	<ul style="list-style-type: none"> <li>• Interim Releases and DIN Log</li> <li>• Programme Change Requests</li> </ul>
Standing items	<ul style="list-style-type: none"> <li>• Minutes and Actions</li> <li>• Programme Updates</li> <li>• Upcoming Programme Milestones related to DAG</li> <li>• Top Programme Risks related to DAG</li> <li>• Summary and Next Steps</li> </ul>	<ul style="list-style-type: none"> <li>• Minutes and Actions</li> <li>• Programme Updates</li> <li>• Upcoming Programme Milestones related to DAG</li> <li>• Top Programme Risks related to DAG</li> <li>• Summary and Next Steps</li> </ul>	<ul style="list-style-type: none"> <li>• Minutes and Actions</li> <li>• Programme Updates</li> <li>• Upcoming Programme Milestones related to DAG</li> <li>• Top Programme Risks related to DAG</li> <li>• Summary and Next Steps</li> </ul>

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](mailto:PMO@mhhsprogramme.co.uk))

Thank you