



MHHS  
PROGRAMME

Industry-led, Elexon facilitated

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# Extraordinary SIT Advisory Group (eSITAG) #17.1

## 26 June 2025

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Version 1.1

MHHS-DEL3935

Document Classification: Public

# Agenda

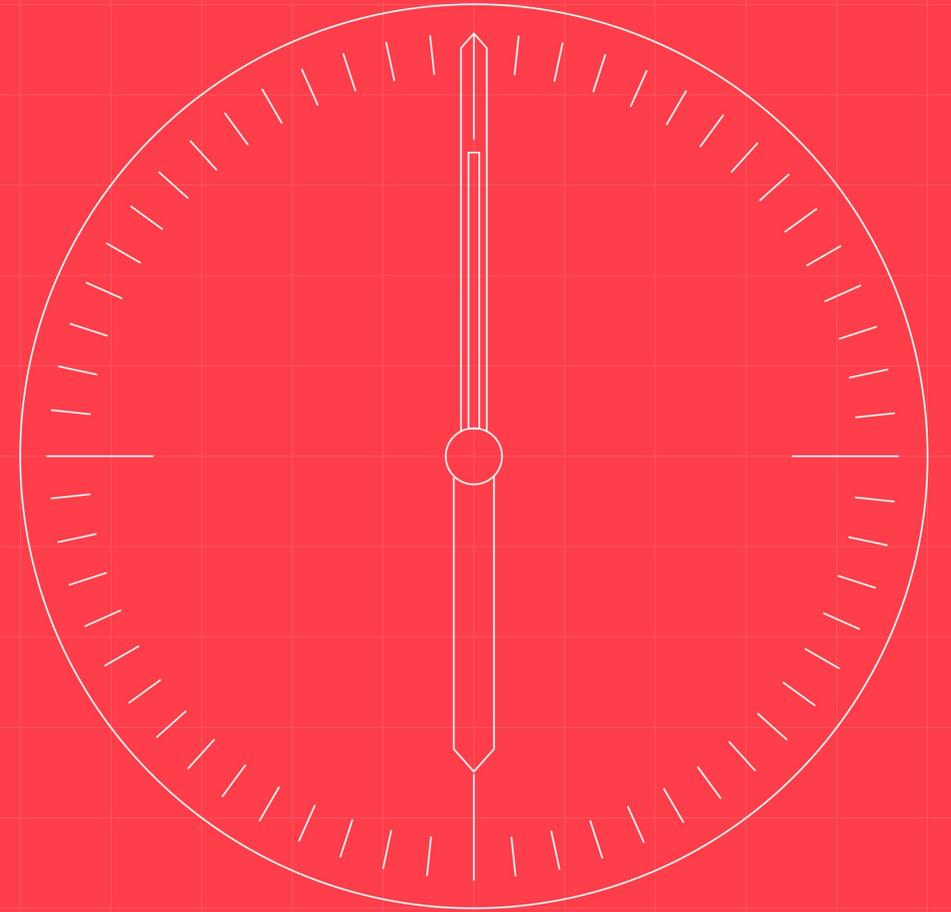
#	Item	Objective	Type	Lead	Time	Page
1	Welcome			Chair (SRO)	15:00-15:05 5 mins	1
2	SIT-A Settlement Extension Overview	Ratification of decision made to extend SIT-A Settlement Testing by two weeks and delay the start of Regression Test Execution	Decision	Programme (Keith Clark)	15:05-15:10 5 mins	3
3	SIT-A Settlement Exit Criteria	<ul style="list-style-type: none"> <li>Overview of Testing progress</li> <li>Decision on Exit Criteria being met</li> </ul>	Information/ Decision	Programme (Stuart Scott)	15:10-15:25 15 mins	6
4	SIT-A Regression Testing - Contingency Plan	Approval of milestone date change to T2-TE-1250 'Regression Test Execution Start'	Decision	Programme (Keith Clark)	15:25-15:30 5 mins	13
5	SIT Exit Reporting	Programme to provide an update on SIT Exit Reporting dates <ul style="list-style-type: none"> <li>Milestone approvals</li> </ul>	Information/ Decision	Programme (Dominic Mooney, Roger Robar)	15:30-15:50 20 mins	16
6	Summary and Next Steps	Summarise decisions, actions, and next steps	Information	Chair & Secretariat	15:50-15:55 5 mins	24
	Appendix - SIT-A Settlement and Regression Testing Extension Risks					

# SIT-A Settlement Extension Overview

**DECISION:** Ratification of decision made to extend SIT-A Settlement Testing by two weeks and delay the start of Regression Test Execution

Programme (Keith Clark)

*5 mins*

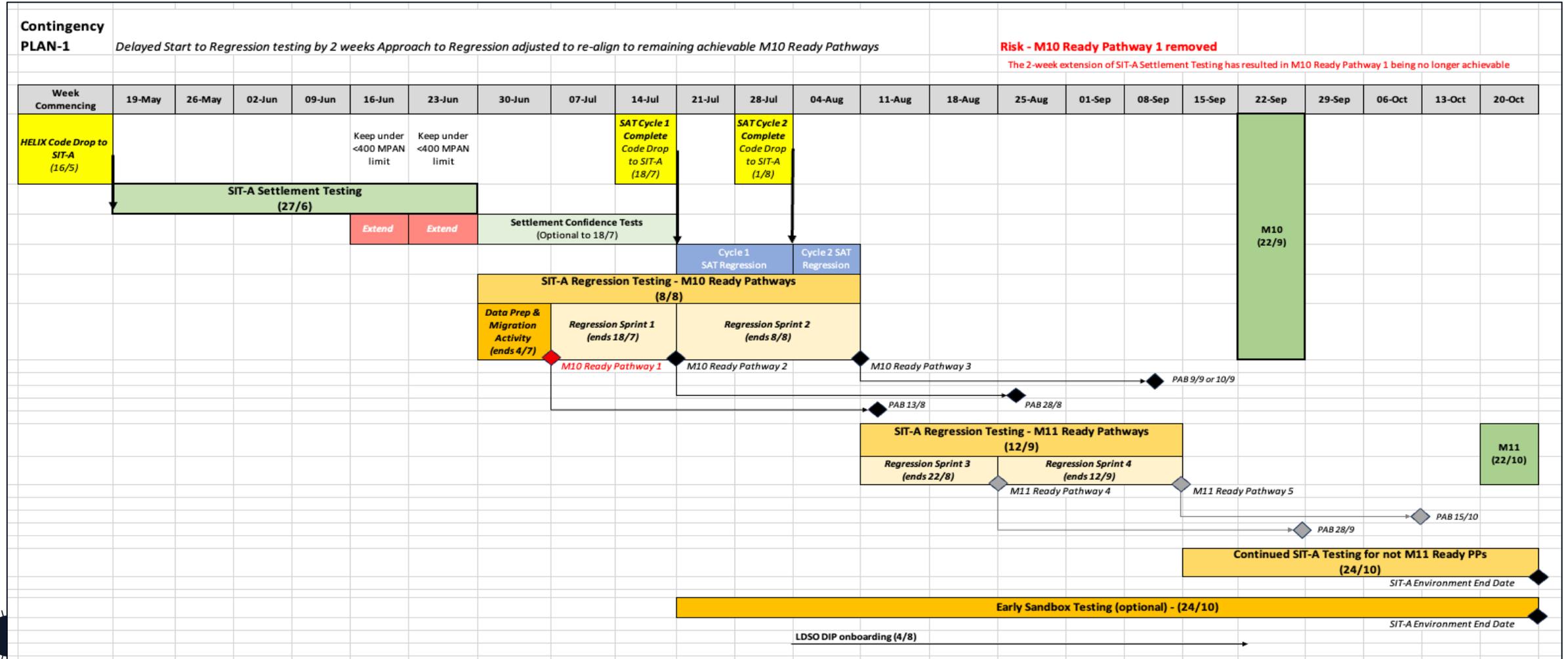


# SIT-A Settlement Testing – Extension Overview

Whilst on 11-Jun-25 SITWG agreed the need to extend SIT-A Settlement testing by 2 weeks and that SIT-A Regression testing should start immediately thereafter, the Group conducted an industry Risk Review session on 17-Jun-25 with follow up on 19-Jun-25, to consider the risks, mitigations and contingencies related to delivery and completion of SIT-A Regression testing.

This activity was required to be completed ahead of recommendation to SITAG to ratify the SIT-A Regression testing-related milestone changes on 26-Jun-25.

The proposed approach laid out is below (expanded for clarity):



**SITAG** to ratify the decision made by the SITAG chair with delegated authority from SRO:

**DECISION**

**SIT-A CoS Settlement Testing to be extended by 2 weeks, to complete on (or before) 27 June 2025 and Regression Test Execution Start extended by 2 weeks to start on 30 June 2025.**

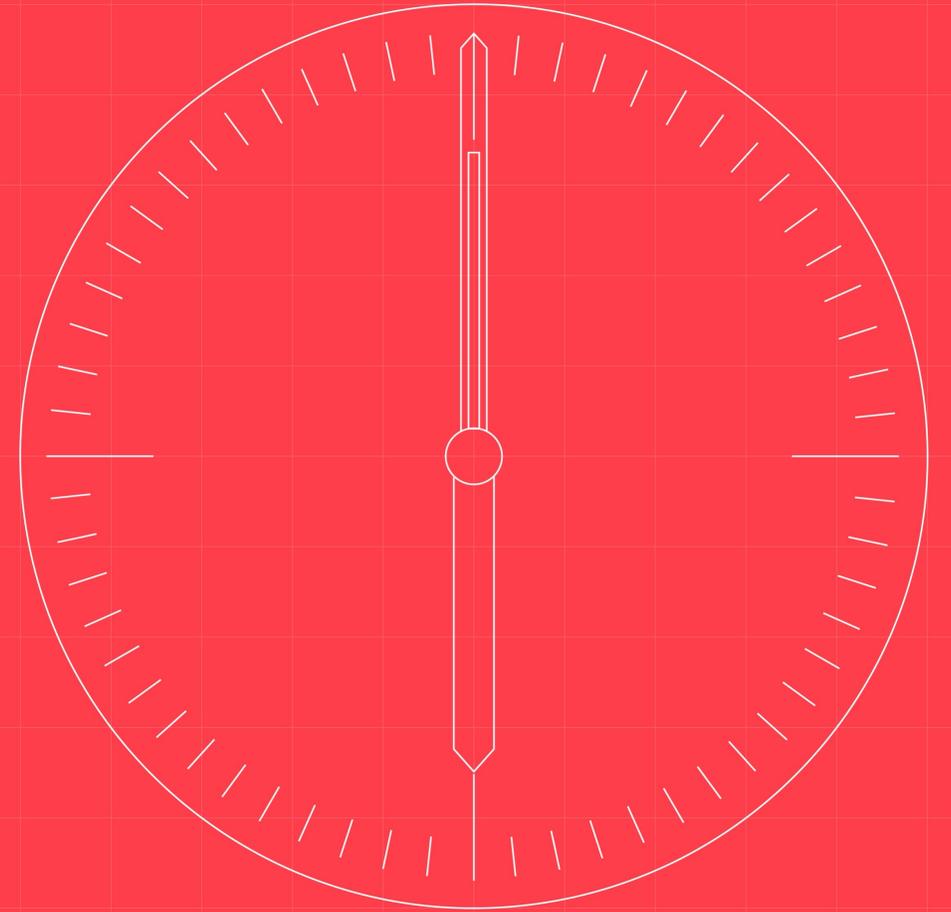
# SIT-A Settlement Exit Criteria

## DECISION:

- Overview of Testing progress
- Decision on Exit Criteria being met

Programme (Stuart Scott)

*15 mins*



## SIT-A Settlement Testing - Summary

- Testing started on 19-May-25 and has run over 2 periods running for a total of 6 weeks up to 27-Jun-25

	Start Date	End Date	No. of weeks
<b>Initial Planned Phase</b>	19/05/25	13/06/25	<b>4</b>
<b>Extension Period – 2 weeks</b>	16/06/25	27/06/25	<b>2</b>
			<b>6 weeks</b>

- ***SIT-A Settlement Testing was originally scheduled to complete on 13/6, but this activity did not complete on time as planned due to a larger than expected number of defects raised for investigation and resolution during the 4-week testing phase.***
  - Blocking issues were experienced within this test phase that have impacted test progress for all the cohorts and reduced test execution velocity in all 3 phases: Migration, Stabilisation and Test Execution.
    - Settlements Defect Record shows that 7 key defects served to block all cohorts.
    - 6 of those 7 defects were assigned to HELIX for resolution (all now resolved)
- **Proposal was discussed and agreed with SITWG and SITAG that,**
  - SIT-A Settlement Testing should be allocated additional time to allow test case execution to complete, ensuring that the previously defined and agreed Exit Criteria are met.
  - There would be no reduction in scope or quality. Time must flex to ensure we complete the testing phase.
    - **A decision is now required to confirm that the pre-defined EXIT Criteria have been met to exit SIT-A Settlement Testing.**
    - This decision will then enable the start of ***SIT-A Regression Testing***

**SET-1**

Settling Normally (Regression)	ST0030 TC01
Cohort A	P
Cohort B	P
Cohort C	P
Cohort E	P
Cohort F	P
Cohort G	P
Cohort H	P
Cohort J	76

**SET-3**

Outstanding SET 3 tests	ST0050 TC05	ST0050 TC07
Cohort H	P	P

**Known Issues awaiting fix (0)**

- None
- High levels of stability within the test environment enabling strong progress on TC execution
- Last HELIX fix applied 11-Jun-25

**In Re-Test (0)**

- None

All Defects raised in this test phase are Resolved / Closed

Supplementary / Optional

Supplementary Tests	ST0014 TC01
Cohort B	P

**SET-2**

CoS Settlement Tests	ST0040 TC01	ST0040 TC02	ST0040 TC03	ST0040 TC04
Cohort A	P	96	99	P
Cohort B	P	P	P	N/A
Cohort C	P	P	P	N/A
Cohort E	P	P	P	N/A
Cohort F	P	P	P	N/A
Cohort G	P	P	P	N/A
Cohort H	35	50	48	N/A
Cohort J	71	71	89	P

**Defects Raised – SIT-A Settlements**

- 30 raised for investigation and action
  - Open / Active = 0
  - In Re-Test = 0
  - Resolved / Closed = 30



## SIT-A Settlement Testing – Exit Criteria – Recap

Set	Test Activity	Reason for Testing	No. of Test Cases	Exit Criteria	Planned Time-Out Conditions
SET-1	<p><b>Settlement Regression Tests</b></p> <p>- <i>Settling Normally Test Case</i></p>	<p>The main Settling Normally test case (<i>ST0030 TC01</i>) will be run before the main Regression test phase in parallel with the other SIT-A Settlement tests</p> <p><b>Regression Testing the MHHS Programme E2E Design</b></p> <ul style="list-style-type: none"> <li>- Integrity and accuracy of Elexon Central Settlement Systems, including Helix internal and output accuracy checks, Supplier output report accuracy checks successfully tested</li> </ul> <p><b>Notes</b></p> <ol style="list-style-type: none"> <li>1. <i>All LDSO Test Steps will be set to 'Pass with Observation'</i> <ul style="list-style-type: none"> <li>• <i>LDSOs are not set up in SIT-A to receive the IF-021 consumption data on SIT-A or receive the settlement output reports for ingestion into their associated DUoS Billing Systems as this was not part of the original test scope.</i></li> </ul> </li> </ol>	1	<p><b>Test must be Passed by at least 2 cohorts</b></p> <p>This TC does not need to be completed by ALL cohorts</p> <ul style="list-style-type: none"> <li>• Test Case allocated for execution to ALL cohorts to support each cohorts own Regression Confidence</li> </ul>	<p><b>If required, TIMEOUT Approach will be considered - Decision for 13/6</b></p> <ul style="list-style-type: none"> <li>• <i>As per SIT-B SET-2 exit criteria, if not all tests have been passed – SITAG will consider any risk level when deciding to cease Settlement testing in SIT-A</i></li> <li>• <b>Risk</b> – <i>delays in cohorts completing the Settling Normally test case could result in subsequent delays for the later main Regression Testing activity and the continuation of any unfinished SIT Functional (SITF) and SIT Migration (SITM) tests in the SIT-A environment.</i></li> </ul>
SET-2	<p><b>Settlement Accuracy Tests</b></p> <p>- <i>CoS Settlement Testing</i></p>	<p><b>Testing the MHHS Programme E2E Design</b></p> <ul style="list-style-type: none"> <li>- Additional coverage of key events that can impact reported consumption totals, and critical parameters, from one Settlement run to another, or from one Settlement day to another</li> </ul> <p>TC execution requires HELIX Settlement Accuracy Input Reports for validating the CoS Event changes impacts on Settlements.</p> <p><b>Notes</b></p> <ol style="list-style-type: none"> <li>1. <i>These CoS event TCs were originally categorised as SET-2 Settlement Accuracy Tests and more specially "Functionality – Change Conditions"</i></li> <li>2. <i>These change conditions are being tested as part of SIT-A Functional Testing and these settlement test versions are testing the functional change impact on the settlement process and output reports</i></li> </ol>	4	<p><b>Test must be Passed by at least 2 cohorts</b></p> <p>As per SIT-B Settlement Testing, this TC does not need to be completed by ALL cohorts</p> <ul style="list-style-type: none"> <li>• Test Case allocated for execution to ALL cohorts to support each cohorts own Regression Confidence</li> </ul>	<p><b>If required, TIMEOUT Approach will be considered - Decision for 13/6</b></p> <ul style="list-style-type: none"> <li>• <i>As per SIT-B SET-2 exit criteria, if not all tests have been passed – SITAG will consider any risk level when deciding to cease Settlement testing in SIT-A</i></li> <li>• <b>Risk</b> – <i>delays in cohorts completing the CoS Settlement case could result in subsequent delays for the later main Regression Testing activity and the continuation of any unfinished SIT Functional (SITF) and SIT Migration (SITM) tests in the SIT-A environment.</i></li> </ul>
SET-3	<p><b>Supporting Market Role Qualification Tests</b></p>	<p><b>Supporting Qualification Testing</b></p> <p>These are carried over tests that were not completed by cohorts in SIT-B Settlement testing.</p> <p>These are required to be run to provide Test Coverage by Market Role to support Qualification Testing.</p>	2	<p><b>All tests must be Passed, but not necessarily as part of SIT-A Settlement Testing</b></p> <ul style="list-style-type: none"> <li>• Only 1 cohort is required to execute these 2 tests</li> </ul>	<p><b>If required, TIMEOUT Approach will be used</b></p> <ul style="list-style-type: none"> <li>• <i>Tests SHOULD be passed in this test period, but if not, SIT-A Settlement Testing will end to enable SIT Regression Testing to start on schedule</i></li> <li>• <i>Tests would need to be completed prior to the start of the cohorts final Regression testing in SIT-A</i></li> <li>• <b>Risk - Failure to complete these tests before end of SIT will put the Cohorts Qualification AT RISK</b></li> </ul>

## SIT-A Settlements Testing – Exit Criteria - Current Position as of End of Day 25-Jun-25

Set	Test Activity	Reason for Testing	No. of Test Cases	Exit Criteria	Test Status
SET-1	<b>Settlement Regression Tests</b> - Settling Normally Test Case	The main Settling Normally test case (ST0030 TC01) will be run before the main Regression test phase in parallel with the other SIT-A Settlement tests  <b>Regression Testing the MHHS Programme E2E Design</b> - Integrity and accuracy of Elexon Central Settlement Systems, including Helix internal and output accuracy checks, Supplier output report accuracy checks successfully tested	1	<b>Test must be Passed by at least 2 cohorts</b>  This TC does not need to be completed by ALL cohorts <ul style="list-style-type: none"> <li>Test Case allocated for execution to ALL cohorts to support each cohorts own Regression Confidence</li> </ul>	<b>All SET-1 tests passed by at least 2 cohorts</b>  <i>For extended test coverage and confidence:</i> <ul style="list-style-type: none"> <li>ST0030 TC01 test passed by 7 out of 8 cohorts</li> <li>Remaining cohort expected to complete test by 27/6</li> </ul>
SET-2	<b>Settlement Accuracy Tests</b> - CoS Settlement Testing	<b>Testing the MHHS Programme E2E Design</b> - Additional coverage of key events that can impact reported consumption totals, and critical parameters, from one Settlement run to another, or from one Settlement day to another  TC execution requires HELIX Settlement Accuracy Input Reports for validating the CoS Event changes impacts on Settlements.  <b>Notes</b> 1. These CoS event TCs were originally categorised as SET-2 Settlement Accuracy Tests and more specially "Functionality – Change Conditions"	4	<b>Test must be Passed by at least 2 cohorts</b>  As per SIT-B Settlement Testing, this TC does not need to be completed by ALL cohorts <ul style="list-style-type: none"> <li>Test Case allocated for execution to ALL cohorts to support each cohorts own Regression Confidence</li> </ul>	<b>All SET-2 tests passed by at least 2 cohorts</b>  <i>For extended test coverage and confidence:</i> <ul style="list-style-type: none"> <li>ST0040 TC01 – Trad test passed by 6/8 cohorts</li> <li>ST0040 TC02 – Smart test passed by 5/8 cohorts</li> <li>ST0040 TC03 – Advanced test passed by 5/8 cohorts</li> <li>ST0040 TC04 – Unmetered test passed by 2/2 cohorts</li> <li>Remaining cohorts expected to complete tests by 27/6</li> </ul>
SET-3	<b>Supporting Market Role Qualification Tests</b>	<b>Supporting Qualification Testing</b> These are carried over tests that were not completed by cohorts in SIT-B Settlement testing.  These are required to be run to provide Test Coverage by Market Role to support Qualification Testing.	2	<b>All tests must be Passed, but not necessarily as part of SIT-A Settlement Testing</b> <ul style="list-style-type: none"> <li>Only 1 cohort is required to execute these 2 tests</li> </ul>	<b>Cohort H has passed both required tests</b> <ul style="list-style-type: none"> <li>ST0050 TC05</li> <li>ST0050 TC07</li> </ul>

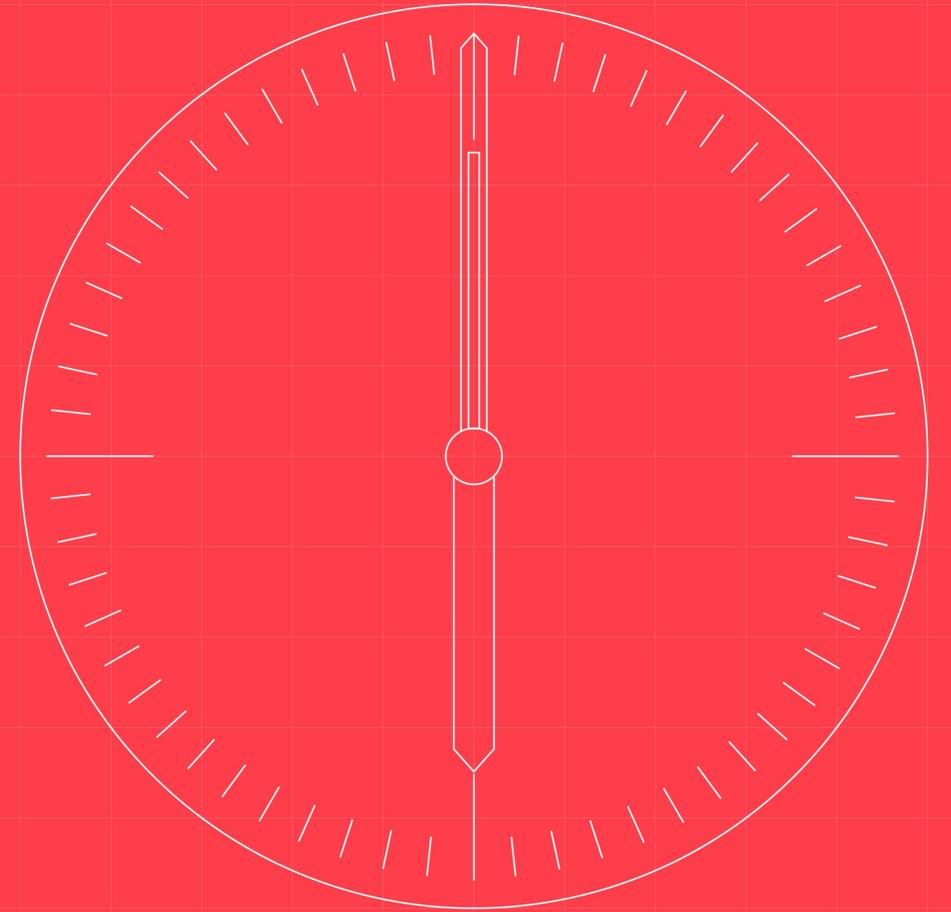
<b>DECISION</b>	<b>SRO to approve that SIT-A Settlement Testing has been completed successfully and that the pre-defined EXIT Criteria have been met</b>
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# SIT-A Regression Testing - Contingency Plan

**DECISION:** Approval of milestone date change to T2-TE-1250 'Regression Test Execution Start'

Programme (Keith Clark)

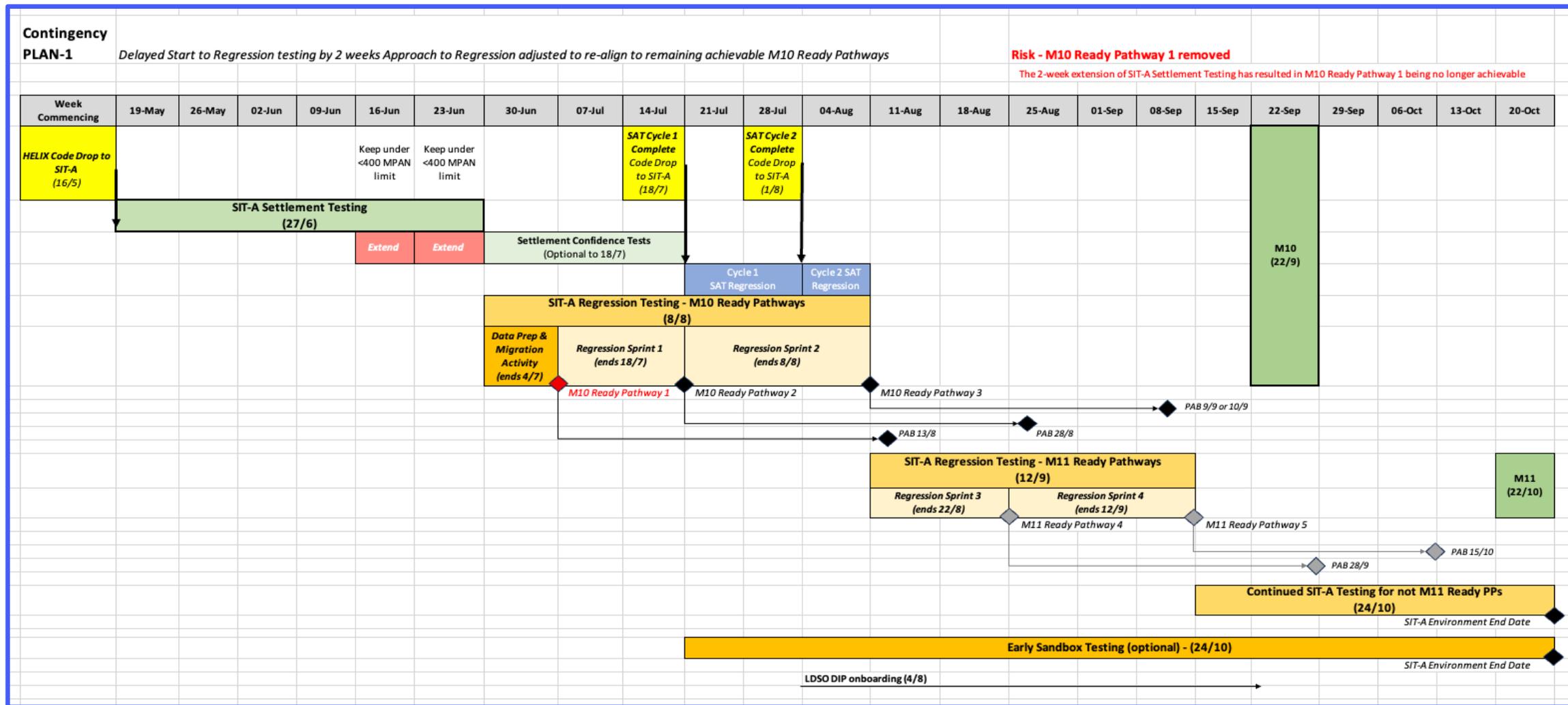
*5 mins*



# Approach to SIT-A Regression Testing - Contingency Plan.

(subject to SITAG ratification on 26-Jun-25)

The proposed contingency plan for SIT-A Regression Testing is outlined below:



1. Subject to SITAG ratification, **SITAG** to approve the date change of T2-TE-1250 'Regression Test Execution Start' from 16 June 2025 to 30 June 2025.

**DECISION**

**SRO to approve milestone date change of T2-TE-1250 from 16/06/25 to 30/06/25.**

2. Following the ratification, the updated milestone will be added to the Programme plan and republished in v6.28.

# SIT Exit Reporting

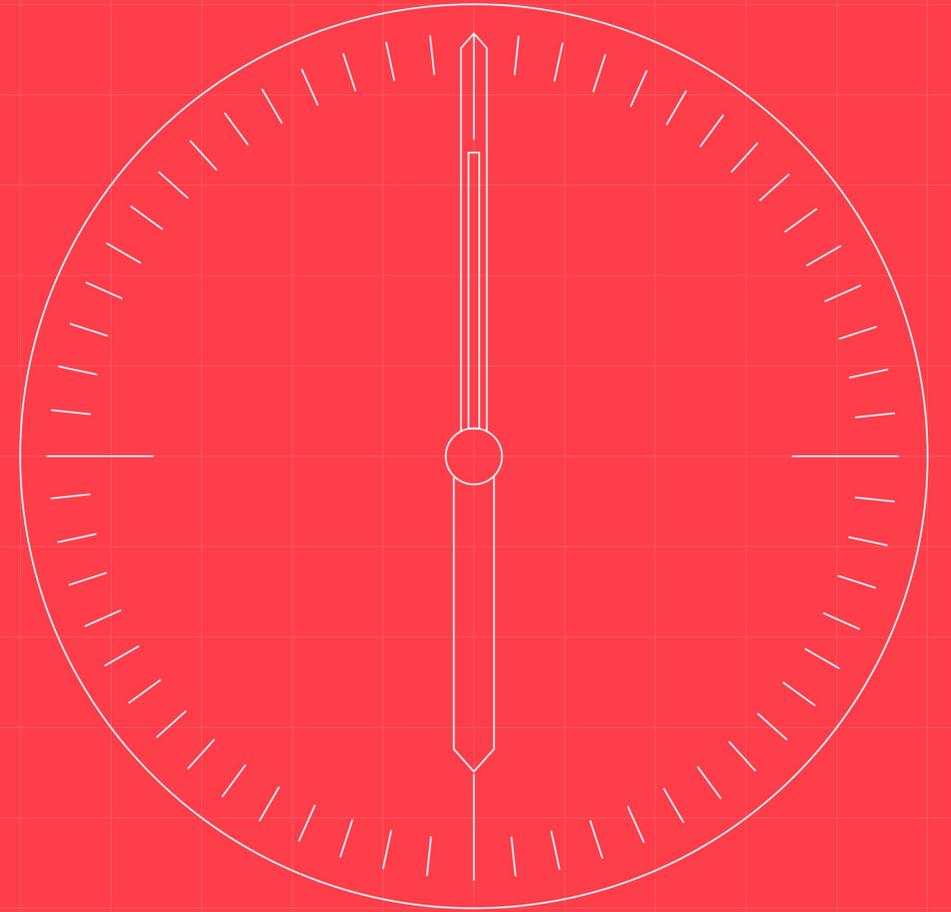
## INFORMATION/DECISION:

Programme to provide an update on SIT Exit Reporting dates

- Milestone approvals

Programme (Dominic Mooney, Roger Robar)

*20 mins*



## SIT Exit Reports Required

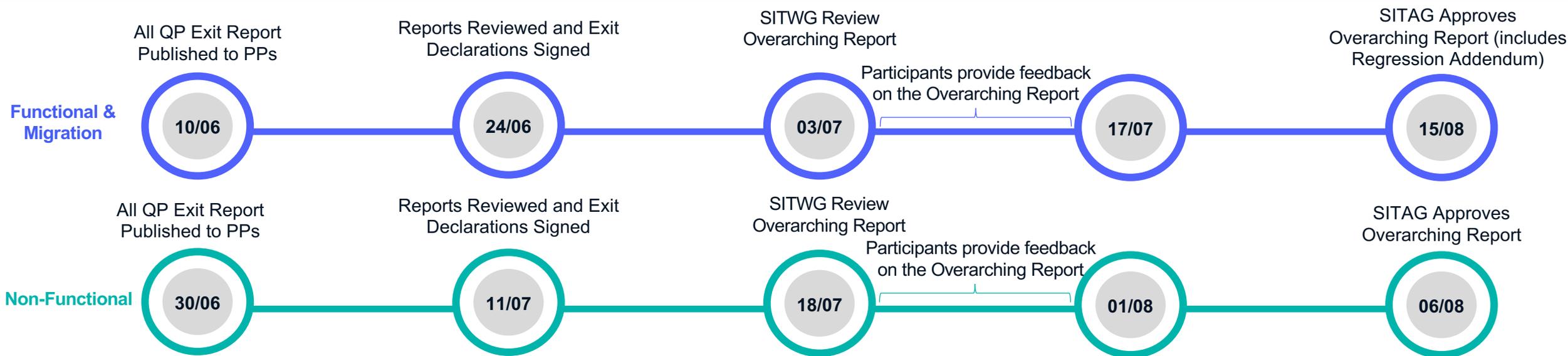
- **SIT Qualifying Participant (QP) Exit Reports** will cover all Market Roles and MPIDs taken through SIT for Participants that are subject to Code Body Qualification
  - The reports will be compiled by the programme, and sent to individual SIT Participants to sign a Test Exit Self Declaration (via DocuSign)
  - Qualifying Participants will then upload these to the QAD portal as evidence for their Qualification
  - 4 QP reports will be required for signing; 1) SIT F & M, 2) SIT NFT, 3) SIT Ops, 4) Regression Exit Declaration (Note: this last report will be an addendum to the SIT F&M QP Exit Report, which updates their position following SIT-A Settlement and Regression Test)
- Central Party / Non-Qualifying roles have been exercised by Cohort testing so will be covered in the **SIT SI Overarching Exit Reports** for each SIT stage:
  - **3 reports;** 1) SIT F & M Combined, 2) SIT NFT, 3) SIT Ops

Market Roles	Qualifying Role	SIT F & M Qualifying Participant Exit Report	SIT NFT Qualifying Participant Exit Report	SIT Ops Qualifying Participant Exit Report	PP Regression Exit Declarations (Report Addendum)	SIT SI Overarching Exit Reports (SIT F, M, NFT, Ops)
SUP	Yes	✓	✓	✓	✓	✓
SDS	Yes	✓	✓	✓	✓	✓
ADS	Yes	✓	✓	✓	✓	✓
MSS	Yes	✓	✓	✓	✓	✓
MSA	Yes	✓	✓	✓	✓	✓
UMSDS	Yes	✓	✓	✓	✓	✓
iDNO/DNO (REGS, LDSO and UMSO)	Yes	✓	✓	✓	✓	✓
EES	N/A	✗	✗	✗	✗	✓
DSP	N/A	✗	-	✗	✗	✓
CSS	N/A	✗	-	✗	✗	✓
MDS	N/A	✗	✗	✗	✗	✓
LSS	N/A	✗	✗	✗	✗	✓
VAS	N/A	✗	-	✗	✗	✓
DIP	N/A	✗	✗	✗	✗	✓
DTN	N/A	✗	✗	✗	✗	✓

## SIT Exit Reports – Production, Review &amp; Governance

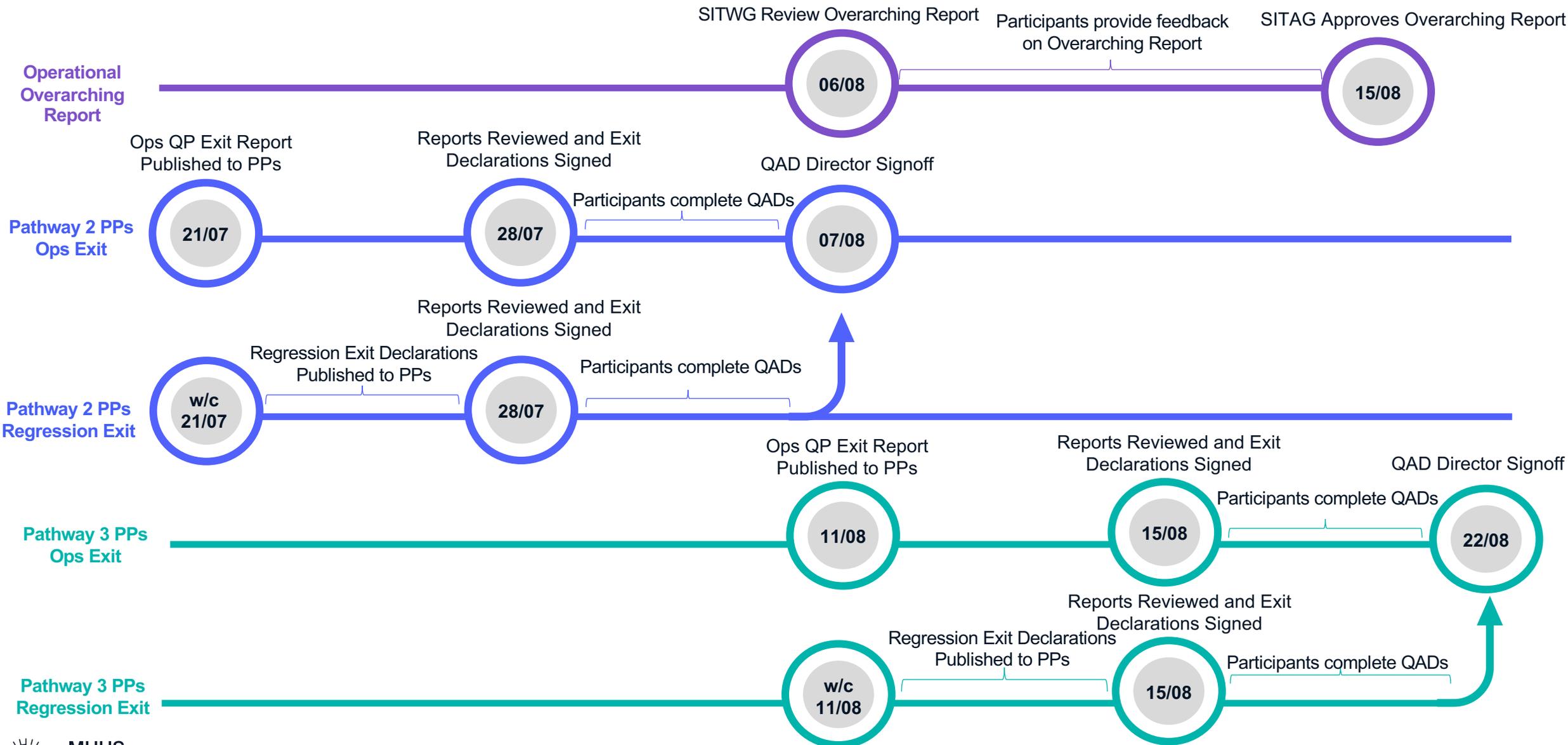
SITStage / Workstream	Exit Report	Required For	Produced by	When Produced	QP Review	SITWG Review	Review (working days)	Post SIT-A Settlement / Regression Addendum?	Regression Addendum Produced when?	Report and Addendum Subject to SITWG / SITAG Approval	Associated Milestone
Functional & Migration	QP Exit Report	QP QAD Submission	Programme	After Cycle 3	Yes	N/A	10 Days (inc sign)	Yes	As individual QPs have met Regression Exit Criteria (Prioritised by Pathway)  (est. issued within 2 days)	N/A	-
	SIT SI Overarching Stage Report	SITWG Endorsement / SITAG Sign Off	Programme	After Cycle 3	N/A	Yes	10 Days	Yes	1. When 2 Cohorts Met Exit Criteria / and post-SAT Regression complete  (est. issued within 2 days)  2. Updated and published when remaining Cohorts have met Exit Criteria  (est. issued within 2 days, per Cohort)	Yes	T2-TE-0850 / T2-TE-0800
NFT	QP Exit Report	QP QAD Submission	Programme	Stage End	Yes	N/A	10 Days (inc sign)	N/A	-	N/A	-
	SIT SI Overarching Stage Report	SITWG Endorsement / SITAG Sign Off	Programme	Stage End	N/A	Yes	10 Days	N/A	-	Yes	T2-TE-0900
Operational Test	QP Exit Report	QP QAD Submission	Programme	As individual QPs have met Stage Exit Criteria (Prioritised by Pathway)	Yes	N/A	Pathway 2 & 3 PPs: 5 days All other PPs:10 Days (inc sign)	N/A	-	N/A	-
	SIT SI Overarching Stage Report	SITWG Endorsement / SITAG Sign Off	Programme	1. When 2 Cohorts have Met Exit Criteria  (est. issued within 5 days)  2. Updated and published when remaining Cohorts have met Exit Criteria  (est. issued within 5 days, per Cohort)	N/A	Yes	10 Days	N/A	-	Yes	T2-TE-0950

# SIT Functional, Migration and Non-Functional



- All QP Functional & Migration Exit Reports were published to Qualifying Participants on 10/06 and to be reviewed and Exit Declarations signed by 24/06:
  - 12 of 24 QPs returned comments (all have been responded to) – 9 individual QP reports re-issued at v1.1 via DocuSign
  - 11 of 24 Signed QP Exit Declarations received to date
- Non-Functional PP Exit Reports will be published to Participants on 30/06 and will need to be reviewed and signed Exit Declarations returned by 11/07
- The Programme will be taking the Functional + Migration Overarching Report to eSITWG for Review on 03/07. The Functional + Migration Overarching Report will be approved by SITAG on 15/08, once the Regression Addendum has been added.
- The Non-Functional Overarching Report is scheduled to be reviewed by eSITWG on 18/07 and the endorsed by eSITAG on 06/08, although note these dates may take place on another day of the week to avoid clashes with other Governance forums.

# SIT Operational & Regression Exit Declarations



## SIT Operational & Regression Exit Declarations

- Code Bodies have stated that Pathway 2 PPs should seek to have their QADs signed off by a Director by 07/08, while for Pathway 3 PPs it should be 22/08. PPs must have signed all SIT Exit Declarations before they can have their Director sign the QAD.
- To ensure 'M10-Ready' PPs sign their Ops and Regression Exit Declarations early enough to give them sufficient time to update their QADs and be qualified by PAB on 28/08 or 10/09 – 11/09, the Programme will be prioritising the publication Pathway 2 and 3 PP's Operational Exit Reports and Regression Exit Declarations, as shown on slide 20, with Pathway 4, 5 and 6 PPs getting their Operational and Regression Exit Declarations from 11/08 onwards, provided they have met the test phase's Exit Criteria.
- Pathway 2 PP Ops Exit Reports will be published to PPs on 21/07, while Pathway 3 Reports will be published 11/08. PPs will have 5 working days to review and sign the Ops Exit Declarations.
- Regression Exit Declarations for Pathway 2 and 3 PPs will be published to PPs within 2 days of them meeting the Regression Exit Criteria. For Pathway 2 PPs, this will be during the week of 21/07 and for Pathway 3 PPs on week of 11/08. PPs should sign those Declarations as soon as possible in line with the dates on slide 20 to support them complete their QADs to support their targeted PAB dates.
- The Programme is aware this approach results in a condensed review and sign off period for Ops and Regression, but it is needed to give the Programme time to draft the Exit Reports and Code Bodies the time to review the QADs they require ahead of PAB.
- The Operational Overarching Report is scheduled to be reviewed by eSITWG on 01/08 and endorsed eSITAG on 15/08, with PPs given an opportunity to provide feedback on it between 01/08 and 15/08. A Regression 'Addendum' will be drafted and added to the Functional & Migration Overarching Report before it's endorsed by SITAG on 15/08.

## Key SIT Exit Reports dates – Consolidated table

Testing Workstream	PP Exit Report Published to PPs	Reports Reviewed and Exit Declarations Signed	SITWG Review Overarching Report	Participants provide feedback on the Overarching Reports	SITAG Approves Overarching Report
<b>Functional &amp; Migration</b>	All SIT PPs: 10/06	All SIT PPs: 24/06	03/07	03/07 – 17/07	15/08
<b>Non-Functional</b>	All SIT PPs: 30/06	All SIT PPs: 11/07	18/07	18/07 – 01/08	06/08
<b>Operational</b>	Qualification Pathway 2: Week of 21/07 Qualification Pathway 3: Week of 11/08 All remaining SIT PPs: Ad hoc	Qualification Pathway 2: 28/07 Qualification Pathway 3: 15/08 All remaining SIT PPs: Ad hoc	01/08	01/08 – 15/08	15/08
<b>Regression</b>	Qualification Pathway 2: Week of 21/07 Qualification Pathway 3: Week of 11/08 All remaining SIT PPs: Ad hoc	Qualification Pathway 2: 28/07 Qualification Pathway 3: 18/08 All remaining SIT PPs: Ad hoc	-	-	-

- Following updates to the SIT Functional & Migration, Non-Functional and Operational Exit Reporting dates, **SITAG** are requested to approve the following milestone date changes:

### DECISION

#### **SRO to approve the following milestone date changes:**

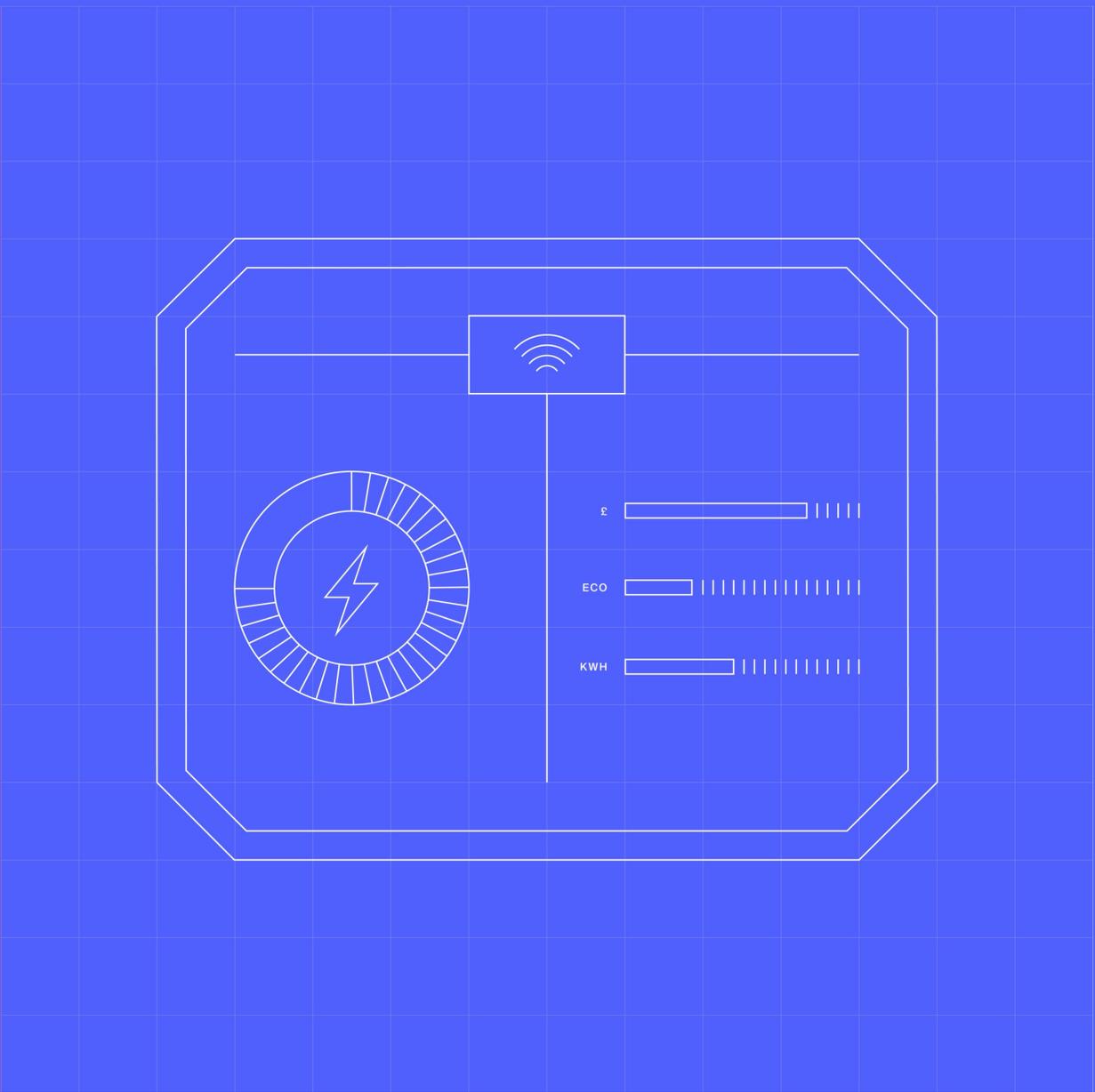
- T2-TE-0900 from 16/07/25 to 06/08/25
- T2-TE-0950 from 06/08/25 to 15/08/25

# Summary and Next Steps

**INFORMATION:** Summarise actions, decisions and next steps

*Chair and Secretariat*

*5 mins*



### Next steps:

1. Confirm actions and decisions from meeting
2. Date of next regular SITWG: **03 July 2025 at 2pm**
3. Date of next regular SITAG: **16 July 2025 at 10am**

## Settlement Testing – Risk Mitigation

### Risks

There is a risk that defects will be identified and resolved as part of SAT that change the code base of the new settlement systems, and this updated version will not have been tested as part of SIT prior to being deployed into production environment

- **The Programme requires SIT Regression Testing against the final SAT code base prior to deployment to the production environment**
- Excluding Settlement tests, the rest of the SIT Regression tests are not impacted by the updated SAT build
- HELIX team have carried out Risk Assessment to confirm that functionality impacts to the Target MHHS state arising from any changes made to the code base during SAT is LOW.
  - Changes to Helix code base from SAT are not expected to impact Cohorts' test outcomes but this is a final Regression Test to confirm this assumption and perform final assurance checks

## Purpose

- To conduct **additional Assurance Testing** in the **SIT-A environment**.
- Goal: **Mitigate risks** from introducing an updated SAT codebase during SIT Regression for LSS, MDS, and VAS systems.

## Key Considerations

### 1. Scope of Impact

- Only **Settlement tests** are affected by the updated SAT build.
- Other SIT Regression tests remain unaffected.

### 2. Support Requirements

- **Cohort support** is needed to run additional settlement tests.
- **Daily IF-021s** from at least 1–2 (ideally all) **Data Services (DS)** for MPANs in SIT-A are required.
- **Suppliers** to check output files

### 3. Test Data & Environment

- Over **400 MPANs** will be migrated to SIT-A for broader testing.
- No **Settlement Accuracy Reports (SARs)** available.
- **SAIR-based accuracy checks** are not feasible.
- **ST0030 TC01** test case ("Settling Normally") cannot be executed.

### 4. Timeline Adjustments

- Use the Reduced Timeline Master Settlement Timetable (MST) instead of the full version.
- This allows more settlement runs in a shorter timeframe, enhancing test coverage

## Settlement Testing – Proposed Risk Mitigation Actions (2) - Post-SAT Regression Testing + Additional Confidence Tests

- Perform additional Programme SIT activity for '**Post-SAT Settlement Regression Testing**'. This would follow on from the completion dates included in the ELEXON HELIX SAT recovery plan, currently aligned to run alongside Regression Sprint 2.
  - Based on the current view of the Helix SAT plan, the Programme will plan for 2 cycles of **Post-SAT Regression Testing**, starting after the end of each SAT Cycle to successfully mitigate the risk identified above.
    - One **mandatory** cycle once SAT Cycle 1 is successfully complete, for the first 2 weeks of Regression Sprint 2
      - Cycle 1 TC execution would occur in the first 2 weeks of Regression Sprint 2
    - Another **contingency** cycle, if required, once SAT Cycle 2 is successfully complete, for the final week of Regression Sprint 2
      - This will only be performed if there are any changes made to the code base in this SAT Cycle 2 period
        - Cycle 2 TC execution would occur in the final week of Regression Sprint 2
      - A clean execution run of SAT Cycle 2 without any changes to the code base would result in no requirement for the Programme to run the **contingency** cycle, saving time and alleviating pressure on the critical path.
- Option to perform additional '**Settlement Confidence Tests**' alongside Regression Sprint 1
  - Option provided for cohorts to run if they wish to. Each cohort can run as many or as little as they want to meet their own risk profile
    - Regression Sprint 1
      - For all 3 weeks, TC execution will be against the same code base as SIT-A Settlement Testing
    - Regression Sprint 2
      - No need to run as covered by '**Post SAT Settlement Regression Testing**

**Same Test Case proposed for use in each test activity and defined in new TC so that ADO can track basic evidence and programme can report progress against to build and evidence additional confidence**

- **Testing activity and new TC would:**
  - Include a basic set of E2E tests similar to the outcomes of the 'Settling Normally' TC to provide additional assurance & confidence in the updated code base, but testing would **NOT include any data accuracy tests** or be a direct re-run of the current 'Settling Normally' test case (ST0030 TC01)
  - Require the support of PPs within Cohorts (particularly to send IF-021 consumption data to Helix)
- **Details**
  - **HELIX and Cohorts to check the following and provide additional assurance confidence based on a cohort selecting any Settlement date and Settlement Run for test to confirm it completes successfully in line with expected results**
  - **Cohort can repeat the testing as many times as required over a test period to meet their own risk assessment**
    - Any issues observed within the SIT-A environment using the latest available code base?
    - Are IF-021 messages for new consumption data successfully loaded ?
    - Are Load Shape runs executed in line with the MST?
    - Are Output files created from each Load Shape Run successfully and do they look as expected and contents is reasonable
    - Are the correct Settlement Runs executed in line with the MST
    - Does each scheduled Settlement Run complete successfully
      - Check for any run-time errors and exceptions created from the Settlement Run
    - Are Output files created from each Settlement Run successfully, check formats, that they look as expected and contents is considered reasonable
  - New Test Case to be created and uploaded into ADO (ST00xx) to support the **Post SAT Regression Testing** and **Additional Confidence Tests**
    - TC can also be used in advance to trail and provided **Additional Confidence Tests** to act as a further risk mitigation action

## Risks related to proposed approach to SIT-A Regression testing – Risks discussed at SITWG and documented at GLIG

Risks / Assumptions / Opportunities	Mitigations
<p>Central Parties / Core Capability Providers may not be able to turn around defect fixes quickly enough in Regression, causing delay in completion of Regression testing.</p> <p>Based on proposed new plan, there will be 2 rather than 3 Regression sprints leading through M10 pathways – meaning less opportunities for release of code updates</p>	<ul style="list-style-type: none"> <li>• Programme's assessment is that SIT Functional / Migration Cycle 3 outcome (all tests executed / passed, 8 times, by cohorts, and no Sev 1 or Sev 2 defects) indicates a lower risk profile regarding defects expected in SIT-A Regression testing.</li> <li>• Whilst not providing overall programme risk mitigation, it should be noted that some early regression testing was conducted by Cohort B, which did not uncover defects and therefore adds some further confidence.</li> <li>• Parties not intending to pursue an M10 pathway will have more time to complete their regression testing and follow later pathways.</li> <li>• By way of contingency options, Programme is in discussion with Code Bodies should a further SIT-A Regression sprint be required, which would remove Pathway 2 and create a reliance on one BSC PAB (and REC Code Manager and DIP Manager) to qualify all M10 parties at that point.</li> </ul>
<p>There is increased risk of a bottleneck in the capacity of BSC PABs to accommodate the qualification of all M10 parties.</p> <p>Based on the proposed new plan, Pathway 1 (and the associated 1<sup>st</sup> PAB) is removed – meaning that the remaining 2 PABs will need to accommodate the qualification of M10 parties</p> <p>The assumption has always been that Pathway 1 would require a pass-through SIT that is largely clean to enable PAB to make the necessary Qualification decisions</p>	<ul style="list-style-type: none"> <li>• M10-Ready Pathways 1, 2 and 3 were agreed in order to mitigate this risk. This mitigation is diluted by the removal of Pathway 1.</li> <li>• Programme is in discussion with Code Bodies in relation to contingency planning (see above).</li> <li>• The BSC PAB meeting 13-Aug will be retained in order to prepare for the next meeting and present any work-off items or other items in advance to smooth the path through PAB. The July BSC PAB can also still be used for this purpose.</li> </ul>
<p>Late Elexon SAT delivery means that Helix code changes are likely to happen during the SIT-A Regression stage. Those changes need to be regression-tested.</p> <p>The new proposed (later) SIT-A Regression plan means that there may be limited opportunity to include SAT code after SAT Cycle 2, before SIT-A regression is completed.</p>	<ul style="list-style-type: none"> <li>• Regression tests in the SIT-A Regression core test scope are not affected by SAT code changes (no core regression tests impacted, but impact on any PP supplementary tests is tbc)</li> <li>• Discuss with Helix the potential deployment of the latest Code Base for the start of Regression Testing including any SAT fixes at the time</li> <li>• Programme is still to define the scope of SAT Regression Testing in the SIT-A environment, but the assumption is that Cycle 2 SAT Regression Testing will be scoped to fit 1 week with additional confidence from Cycle 1 SAT Regression Testing and Cycle 2 Regression Testing will only be required if the Helix code base needs to change for Go-Live from SAT Cycle 2 testing.</li> </ul>
<p>Parties that exit SIT-A Regression testing early, will not have regression-tested any code changes / fixes that might occur in later regression sprints</p> <p>Proposed new plan does not materially change this risk.</p>	<ul style="list-style-type: none"> <li>• With all Cohorts executing the same pack of tests the likelihood of this occurring is lower, however when the earliest Cohorts have completed and exited Regression the programme will continue to monitor ongoing Cohort regression testing, in the event of later Central / Core party defects being discovered and releases required, these will be assessed and exited Cohorts advised if any further regression testing is required.</li> <li>• The SIT-A Regression Testing core tests are not functionally impacted by Helix SAT code</li> <li>• The Programme is assuming that once PPs exit SIT, they are able to Qualify on the basis of the SIT exit reports and there is no need to retest due to any Central Party issues. There is the opportunity for M10-Qualifying PPs to regression test in SIT-A outside the formal SIT and Qualification process to give themselves further confidence.</li> </ul>

## Risks related to proposed approach to SIT-A Settlement Testing – Risks raised by PPs

Risks / Assumptions / Opportunities	Mitigations
<p>There is risk that further blocking defects are observed during the additional 2 weeks allocated to complete SIT-A Settlement Testing and /or testing still does not meet the EXIT Criteria by the 27-June, i.e. additional time allocated is not sufficient.</p>	<ul style="list-style-type: none"> <li>• In this event, it is proposed that this would result in further time delays</li> <li>• Assumed mitigating activity would be to shift the start of Regression testing to the right, leaving a single Regression Sprint 1 for the M10 Pathway</li> <li>• This would put increased pressure on 'M10 Ready Pathway 2' and could result in this becoming not viable</li> <li>• This would leave only 'M10 Ready Pathway 3'</li> </ul>
<p>There is a risk that the Quality of Industry code base at SIT exit / completion and what impact this has for Production / Migration start</p>	<ul style="list-style-type: none"> <li>• SIT-A Settlement Testing will not be approved and marked as complete until existing agreed Exit Criteria are met and approved by SITAG</li> <li>• The Programme requires SIT Regression Testing against the final SAT code base prior to deployment to the production environment</li> </ul>
<p>If the extended SIT-A Settlement Testing phase completes earlier than the new planned date of 27-June meeting all exit criteria, then how will the remaining time be used?</p>	<ul style="list-style-type: none"> <li>• Choice to be considered based on when testing completes.</li> <li>• Either:               <ol style="list-style-type: none"> <li>1. Look to provide more time for Regression Sprint 1 activities by bringing forward the start of Data Prep / Migration activity supporting Regression Sprint 1</li> <li>2. Cohorts to perform additional 'Settlement Confidence Tests' and wait for start of Data Prep / Migration activity supporting Regression Sprint 1</li> </ol> </li> </ul>
<p>There is a risk related to executing the COS &amp; Settling Normally on a non-final code base, and there are some requests to repeat this testing post-SAT is completed to allow a 'clean run'</p>	<ul style="list-style-type: none"> <li>• This risk was noted when we started SIT-A Settlement testing on 19-June and was accepted as long as we meet the agreed Exit Criteria (which do not reference 'clean run')</li> <li>• Exit Criteria will still be met before Regression Testing starts</li> <li>• Additional 'Settlement Confidence Tests' have been proposed to be run within the Regression Sprints 1 and 2 including Post-SAT Settlement Regression Testing</li> </ul>

## Risks related to proposed approach to SIT-A Settlement Testing – Risks raised by PPs

Risks / Assumptions / Opportunities	Mitigations
<p>Additional Settlement Regression Testing required to support Post-SAT code base delivery may impact PPs' Qualification Timelines</p>	<ul style="list-style-type: none"> <li>• The Programme assumes that there is no dependency from this Regression testing to the Qualification of Programme Participants</li> <li>• SIT Participants and non-SIT LDSOs will be able to continue along their M10-Ready pathway on the basis of their exit from SIT and/or Non-SIT LDSO Qualification Testing</li> <li>• The dependency from this testing will be to SIT Exit Reporting and to the production build of Helix systems</li> </ul>
<p>There is a risk that additional Settlement Regression Testing is required to support Post-SAT updates once code base is updated - resulting in additional PP effort</p> <p>Defects may be identified and resolved as part of SAT that change the code base of the new settlement systems, and this updated version will not have been tested as part of SIT prior to being deployed into production environment</p> <p>SAT Regression is new effort required on PPs which is not covered by any Programme baselined artefact and scope/effort/complexity/resourcing currently unknown &amp; unplanned</p>	<ul style="list-style-type: none"> <li>• This is noted and unavoidable given the timing of the Helix SAT completion dates</li> <li>• Mitigating activity is to propose a lower impact version of the Settling normally Test case to be executed as part of Post-SAT Regression Tests to minimise impacts whilst still adding value and mitigating against the risk of any impact on the target operating mode from changes made during SAT.</li> </ul>
<p>There is a risk that the Settling Normally / Settlement tests are required to be re-run for SAT regression which is only 3 weeks long - all previous settlement testing has taken &gt; than 3 weeks to execute</p>	<ul style="list-style-type: none"> <li>• See updated plan for scope of Post-SAT Regression Tests and additional optional Settlement Confidence Tests</li> </ul>
<p>There is a risk that SAT does not complete against revised timelines provided by the Helix team</p> <p>SAT completion was previously planned for completion 16-May, now expected 01-Aug, when PPs should be completing SIT and exiting following a code freeze/SIT Regression - steady state for PRD/Go Live</p>	<ul style="list-style-type: none"> <li>• In this event, it is proposed that this would result in further time delays and put the M10 milestone at risk.</li> <li>• This would require further discussion with Industry</li> <li>• Additional Post-SAT Settlement Regression Testing is deemed as required by the Programme Team and is unavoidable given the delays experienced by the Helix team in completing SAT</li> </ul>