MHHS PROGRAMME

Industry-led, Elexon facilitated

SIT Functional and Migration Rationalisation

Version 1.0

MHHS-DEL3348
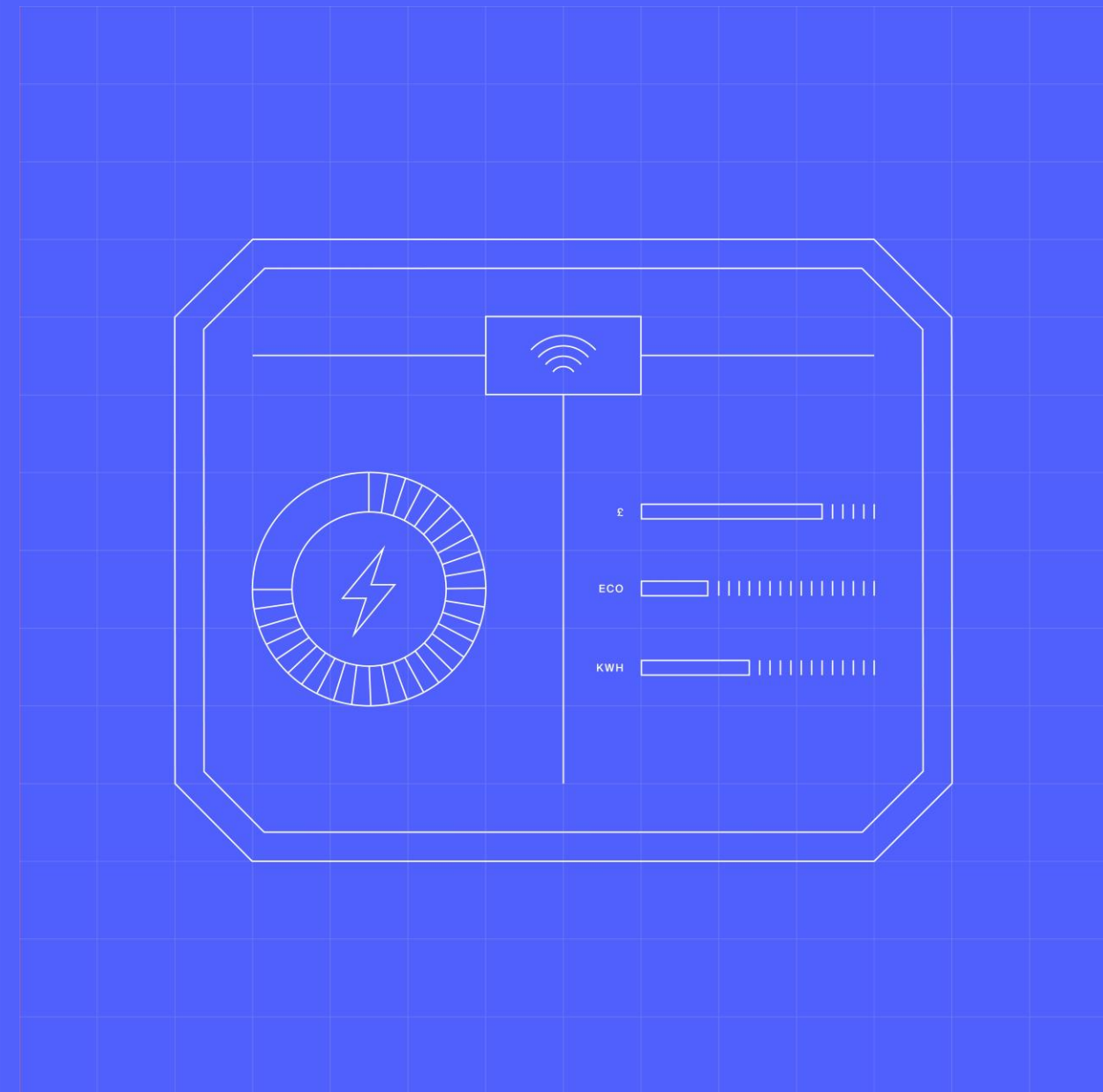
Agenda

#	Item	Objective
1	**Welcome**	
2	**Stages of Scope Refinement**	General overview of various initiatives around refining SIT scope
3	**SIT Functional and Migration Rationalisation**	Specific results of the SIT Functional and Migration Rationalisation
4	**SIT Migration Optimisation**	Overview of tests moved and descoped from SIT Migration
5	**RTTM Gap Analysis**	Work with code bodies to ensure role-based gaps are identified and mitigated
6	**Settlement Rationalisation**	Work to streamline the Settlement Tests
7	**Traceability Document**	Programme initiative to show transparency around tests descoped and brought into scope

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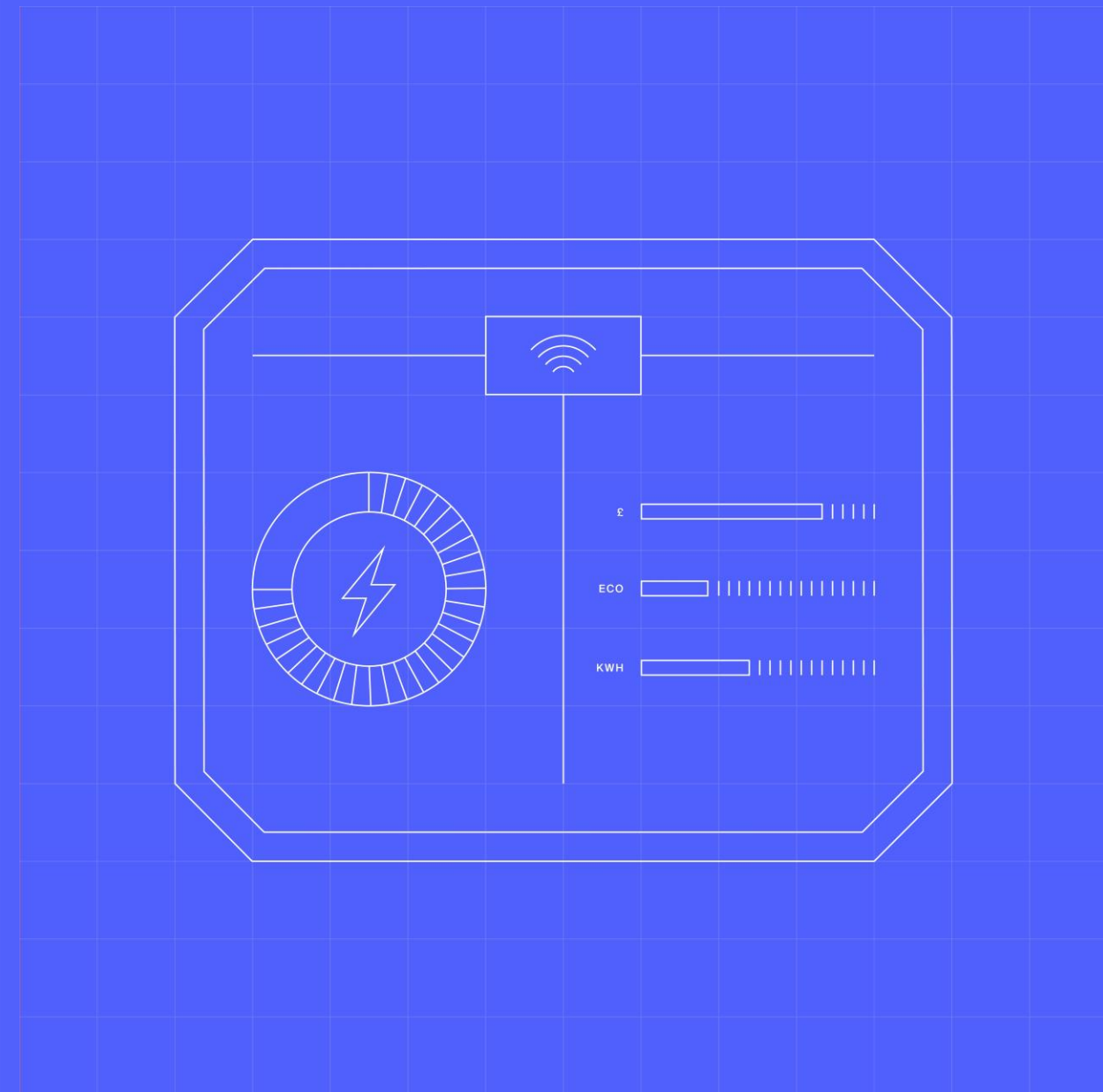
Stages of Scope Refinement

INFORMATION: General overview of various initiatives around refining SIT scope

Efficiency and Optimisation Initiatives

- **Cycle 1 and 2 progress:** We recognised that testing velocity was slower in Cycles 1 and 2 than anticipated

- **CR055:** Revised our models and recommended extending programme milestones to allow for realistic testing timelines

- **Testing Efficiency:** If we are extending timelines, it's incumbent on the programme to make testing as streamlined and efficient as possible. With that in mind, a number of separate initiatives were undertaken:

- **SITF and SITM Rationalisation:** Tests that shared the same requirements as at least one other test scenario.

- **SIT Migration Optimisation:** Out of the RTTM work to review with Code Bodies, were there areas where these tests would be better run?

- **RTTM Gap Analysis:** We recognised that gaps existed in the RTTM as originally agreed, and that role-based changes needed to be reflected.

- **Settlement Optimisation:** Settlement exit criteria and qualification requirements meant the programme could look at how settlement tests were being run in Cycle 1 and 2.

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SIT Functional and Migration Rationalisation

Information: Specific results of the SIT Functional and Migration Rationalisation

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- **Original Identification**
- A review was undertaken of all requirements associated with each test case.
- A set of 60 tests across SIT Functional and SIT Migration were identified with at least one other test matching the same requirements.
- This list was reviewed by the Test Architecture team.

- **Requirements Mapping (RTTM)**
- Mapped test cases to requirements using the Requirements Traceability and Test Mapping (RTTM) sheet to ensure traceability and coverage.

- **Gap Identification**
- Conducted a gap analysis using the RTTM Gap sheet to identify unmapped or missing requirements and test scenarios.

- **Review and Rationalisation**
- Reviewed the master test case list to identify:Redundant test casesDuplicates or overlaps
- Non-executable cases (due to environment, tools, or dependencies)Rare edge cases with minimal impact
- Segregated these into a Descoping Sheet for archiving.

- **Optimization**
- Retained high-priority, executable test cases relevant to the project scope and requirements.
- Finalised a streamlined Master Test Case List for execution.
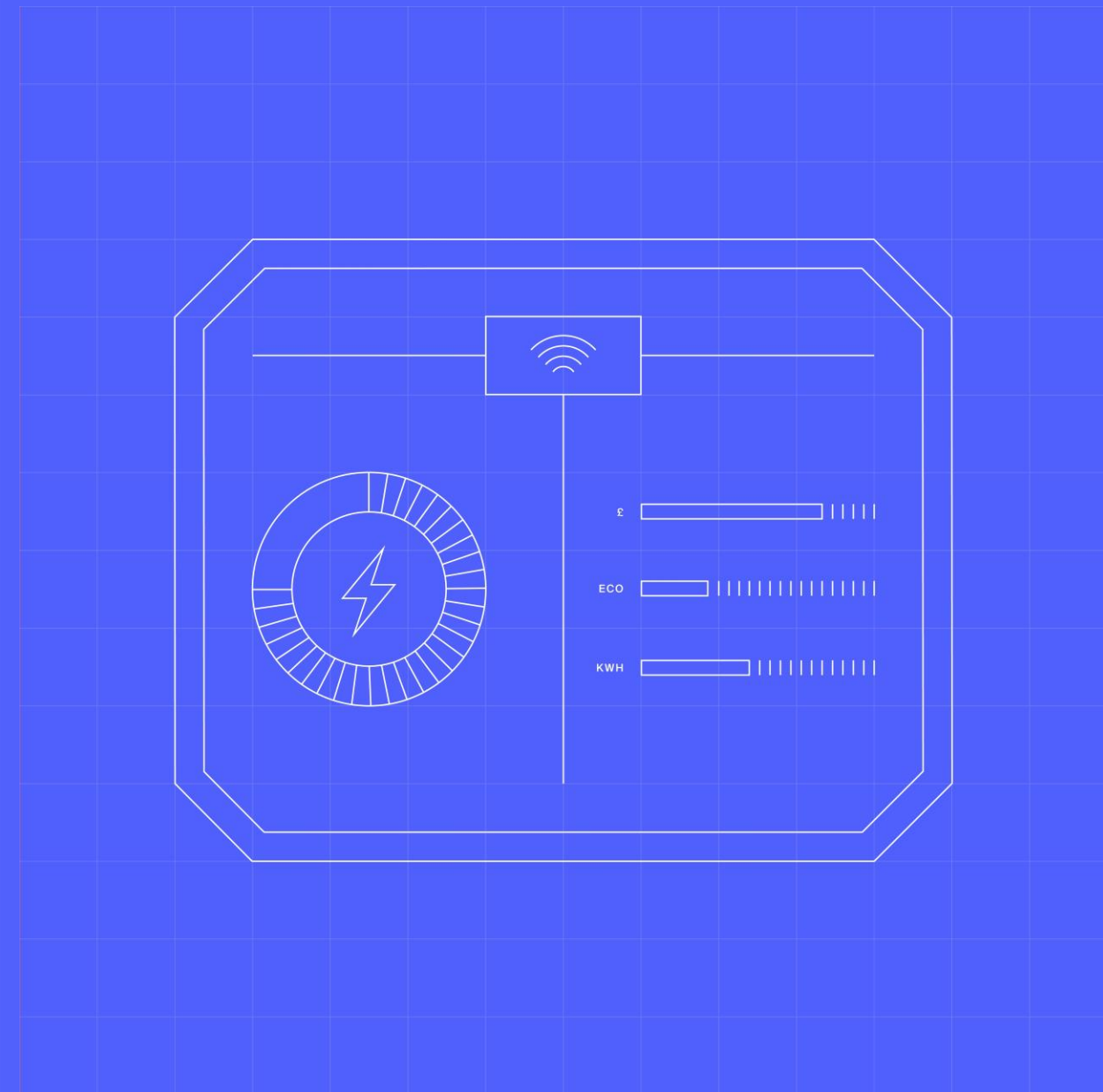
SIT F & SIT M Rationalisation Results

Theme	ADO	Test Unique Ref	Test Case Name	Segment	MPAN Type	DUP?	DUP ID	Initial Comment	SI Assurance
2 - Change of Registra-tion	34121	SITFTS -1010 TC02	SITFTS-1010 TC02 - smart, legacy data update	Smart	Single	Y	7	Smart/Trad functionaly the same	Comment in column I is correct 05/12 [DG] Agreed process running is the same as TC01 Smart only difference is meter type
6 - Metering Changes	33372	SITFTS -0850 TC02	SITFTS-0850 TC02 Traditional	Traditional Meter	Related MPAN (Secondary)	Y	12	Smart/Trad functionaly the same	Functionality seems to be the same as TC01, with slight req mapping differences 05/12 [DG] Agree with column I , this is running the same process as above
6 - Metering Changes	39935	SITFTS -0900 TC02	SITFTS-0900 TC02 Smart Install	Smart	Single	Y	12	Already tested as part of new connection?	Broadly covered by SITFTS-0050 TC01, with the exception of 1 req that is covered elsewhere; good candidate for rartionalisation 05/12 [DG] Agreed, this test was in scope as we wanted to see that a meter install could be completed before running the longer new connection test (SITFTS-0050 TC01) that also involves a meter install

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SITF & SITM Rationalisation Next Steps

- **Code Body Review**
- This list under review with the Code Bodies.

- **Governance Review**
- Will bring the ultimate list to SITWG and SITAG for recommendation and approval.

Document Classification: Public

SIT Migration Optimisation

INFORMATION: Overview of tests moved and descoped from SIT Migration

Test Case Scope Movements (removals from SIT Migration)

Test	Reason
SIT-M-FM-COA-REL-MPAN-TC01	Other
SIT-M-FM-COA-REL-MPAN-TC03	Other
SIT-M-FM-COA-REL-MPAN-TC05	Other
SIT-M-FM-COA-MS-DS-IE-TC02	Other
SIT-M-FM-COA-MS-DS-IE-TC04	Other
SIT-M-FM-COA-MissMTD-TC01	SIT Operational
SIT-M-FM-COA-MissMTD-TC02	SIT Operational
SIT-M-FM-COA-MissMTD-TC03	SIT Operational
SIT-M-FM-COA-MissMTD-TC04	SIT Operational
SIT-M-FM-COA-MissMTD-TC05	SIT Operational
SIT-M-FM-COA-DeemRead-TC02	Other
SIT-M-FM-COA-DeemRead-TC03	Other
SIT-M-FM-COA-LAPSED-TC01	PIT (SCS)
SIT-M-FM-COA-LAPSED-TC02	PIT (SCS)
SIT-M-FM-COA-LAPSED-TC03	PIT (SCS)
SIT-M-FM-COA-LAPSED-TC04	PIT (SCS)
SIT-M-FM-COA-LAPSED-TC05	PIT (SCS)
SIT-M-FM-COS-REL-MPAN-TC01	Other
SIT-M-FM-COS-REL-MPAN-TC03	Other
SIT-M-FM-COS-REL-MPAN-TC05	Other
SIT-M-FM-COS-MS-DS-IE-TC02	Other
SIT-M-FM-COS-MS-DS-IE-TC04	Other
SIT-M-FM-COS-MissMTD-TC01	SIT Operational
SIT-M-FM-COS-MissMTD-TC02	SIT Operational
SIT-M-FM-COS-MissMTD-TC03	SIT Operational
SIT-M-FM-COS-MissMTD-TC04	SIT Operational
SIT-M-FM-COS-MissMTD-TC05	SIT Operational

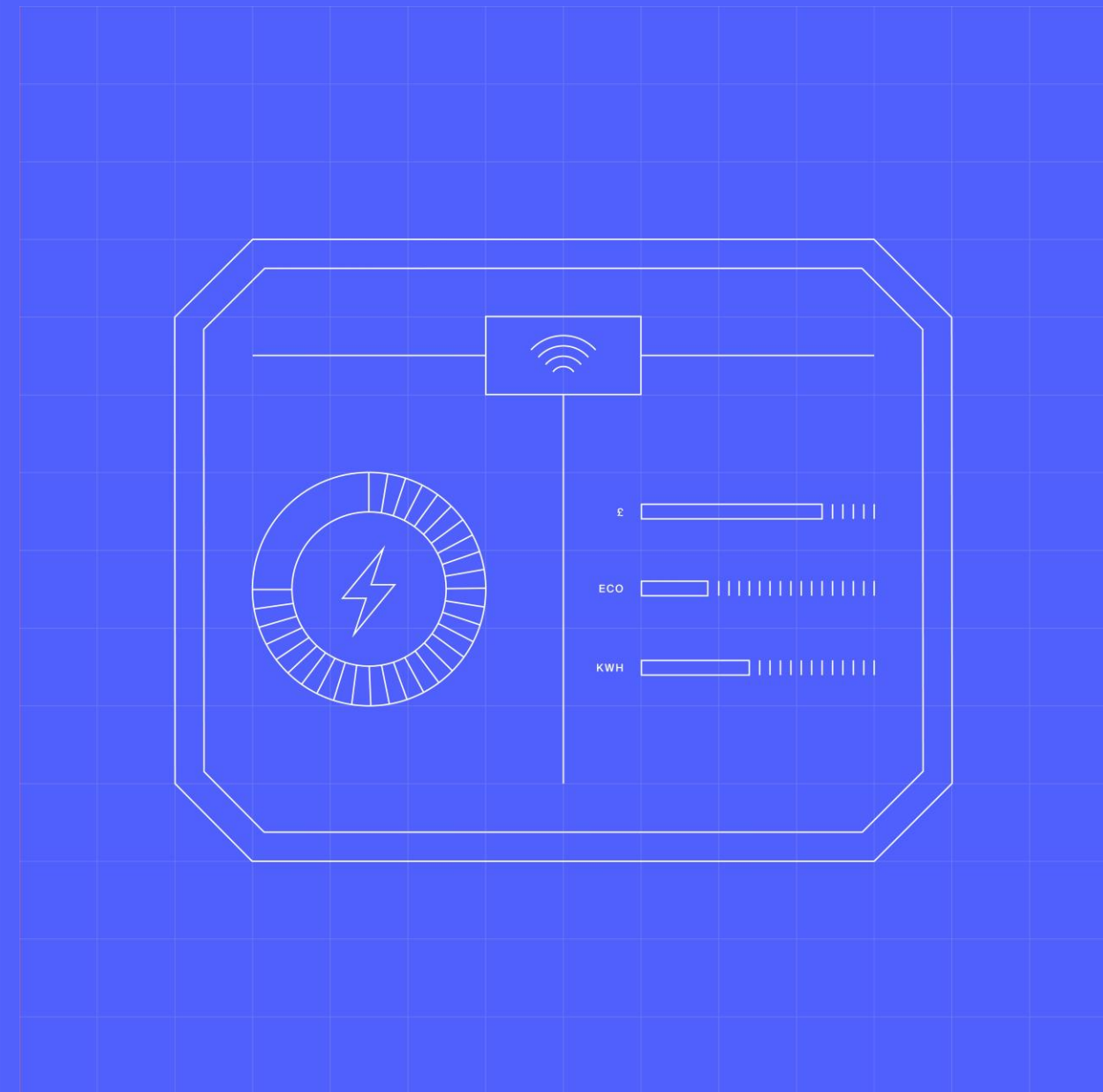| Test	Reason
SIT-M-FM-COS-DeemRead-TC01	Other
SIT-M-FM-COS-DeemRead-TC02	Other
SIT-M-FM-COS-LAPSED-TC01	PIT (SCS)
SIT-M-FM-COS-LAPSED-TC02	PIT (SCS)
SIT-M-FM-COS-LAPSED-TC03	PIT (SCS)
SIT-M-FM-COS-LAPSED-TC04	PIT (SCS)
SIT-M-FM-COS-LAPSED-TC05	PIT (SCS)
SIT-M-RM-COS-IE-MPAN-TC01	Other
SIT-M-RM-COS-REL-MPAN-TC01	Other
SIT-M-RM-COS-MissMTD-TC01	SIT Operational
SIT-M-RM-COS-MissMTD-TC02	SIT Operational
SIT-M-RM-COS-MissMTD-TC03	SIT Operational

'PIT (SCS)' coverage: already covered by SCS PIT or will be covered by PIT according to plan and timings discussed with SCS. Programme to ensure evidence is gathered and assured (same as for SIT)

'SIT Operational' coverage: proposed to be covered in SIT Operational testing as this is a more appropriate place to test. To be outlined to SITWG on 05-Dec

'Other': covered by same scenario tests but other meter segments... i.e. Advanced meter or Traditional meter tests not required in lieu of Smart Meter tests

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RTTM Gap Analysis

INFORMATION: Work with code bodies to ensure role-based gaps are identified and mitigated

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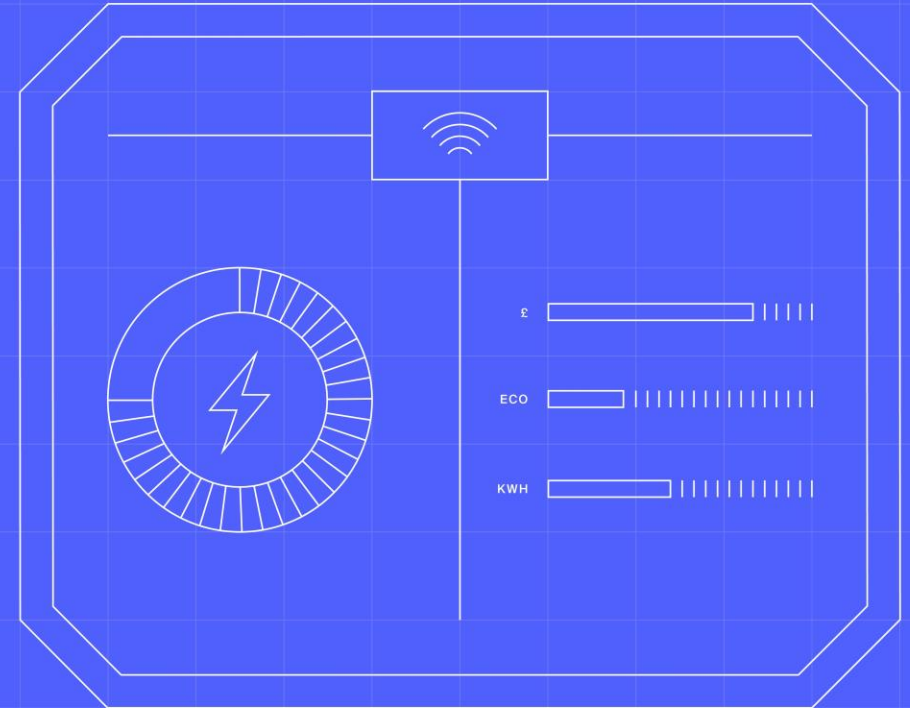
RTTM Updates

SIT Functional

- Code Bodies identified a set of gaps in the Test Scenarios in June 2024

- Design team undertook an exercise to derive a set of unique requirement reference numbers, completed around the same time

- Test Architecture team took on a task to determine role-based requirements for all SIT Functional requirements.

- After these activities completed, Code Bodies and the Test Architecture team have gone through a number of iterative loops for feedback on coverage through the RTTM

- On Tuesday, 12th November we reached a verbal agreement in principle to sign off the SITF RTTM.

SIT Migration

- Following the start of activities in SIT Functional, the Migration test team began work on closing down role-based gaps in their requirements in early September 2024.

- In a similar process, once the role-based test gaps were filled, the Migration team began working with Code Bodies to come to agreement on how to mitigate gaps.

- Agreed in principle with Code Bodies, some updates and tweaks still ongoing.

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Document Classification: Public

Settlement Rationalisation

INFORMATION: Work to streamline the Settlement Tests

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Settlement Testing - Test Execution Coverage (Sets & Categories) & Exit Criteria

- Additional time after the IR8.3 maintenance window will be required to complete Settlement Testing.
- **Settlement Testing in SIT-B environment will continue until the end of the year**

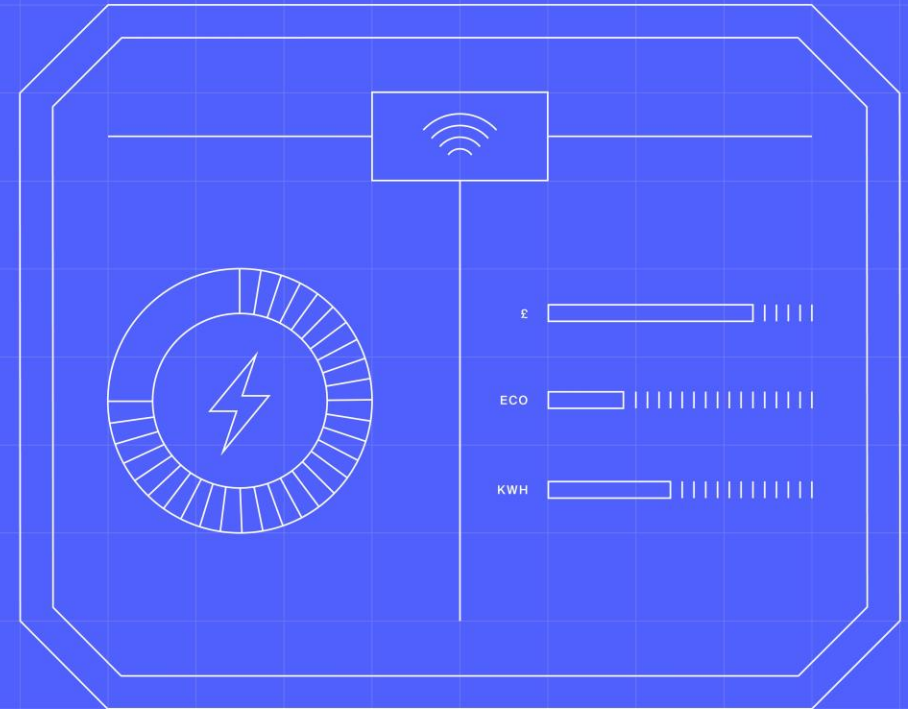| Test Stage	Proposed criteria for targets, based on 'minimum viability' for end of Settlement Testing in SIT-B environment

Settlement Testing
 	
(subset of SIT Functional)
	• Completion, ***by any 2 Cohorts***, of **3 Settling Normally Tests** (SET 1)
	  and
	• Completion, ***by any 2 Cohorts***, of **29 Settlement Accuracy Tests** (SET 2)
	  and
	• Completion, ***by min 2 MVC candidates***, of **22 Market Role Qualification Tests** (SET 3)

Set	Test Objective	Reason for Testing	No. of Test Cases	Test Environment	Exit Criteria – - Number of Cohorts Required to complete Test Cases
1	**Settling Normally Test**	**Testing the MHHS Programme E2E Design** - Integrity and accuracy of Elexon Central Settlement Systems, including Helix internal and output accuracy checks, Supplier and LDSO output report accuracy checks successfully tested - One Main TC and 2 Reporting Variant TCs	**3**	SIT-B	Min 2 cohorts (Any 2, doesn't have to be MVC candidates)
2	**Settlement Accuracy Tests**	**Testing the MHHS Programme E2E Design** -As per Test set 1 + Additional coverage of key events that can impact reported consumption totals, and critical parameters such as Consumption Component Class, from one Settlement run to another, or from one Settlement day to another TC execution requires HELIX Settlement Accuracy Input Reports for validating the new MHHS Settlement Output Reports	**37**	29 in SIT-B 8 in SIT-A (Requires CSS)	Min 2 cohorts (Any 2, doesn't have to be MVC candidates) Min 2 MVC candidates
3	**Supporting Market Role Qualification Testing - Non-Accuracy Tests**	**Supporting Qualification Testing** Any additional Settlement Test Cases that are required to be run to provide Test Coverage by Market Role (Data Services) to support Qualification Testing • Note - If required, These Test Cases can be run in the SIT-A environment	**22**	SIT B --- SIT A *(contingency for non MVC)*	Min 2 MVC candidates All 8 Cohorts required to execute each TC to ensure that each Data Service passes each Test Case to support their Qualification Testing evidence.

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Settlement Testing - Test Case Execution Coverage Sets and Sub-Sets

Settling Normally Tests (SET 1)	Settlement Accuracy Tests (SET 2)	Supporting Market Role Qualification Testing (SET 3)

ST0030 TC01 - Settling Normally
--- 	
 	
ST0030 TC02 - EMRS Reporting
• HELIX and EMRS only
   - (Data Service - Passive)
 	
ST0030 TC03 - TUoS Reporting
• HELIX and ESO only
   - (Data Service - Passive)
	9 TCs - Available to run ay any point by each cohort as they do not involve aggerated consumption checks
	-- 	
	ST0090 TC01 - Annual Consumption
	ST0090 TC02 - New Connections Annual Consumption
	ST0090 TC03 - De-energised Annual Consumption
	ST0090 TC04 - Smart Reenergisation Annual Consumption
	ST0090 TC05 - Advanced Reenergisation Annual Consumption
	-- 	
	ST0031 TC01 - MDS DDE Reporting - Advanced Metering
	ST0031 TC02 - MDS DDE Reporting - Smart and Unmetered
	-- 	
	ST0052 TC01 - Update for Domestic Premise Indicator smart
	ST0052 TC02 - Update for Domestic Premise Indicator Advanced
	-- 	
	20 TCs – ONLY 1 of the following 7 SETS of Test Cases can be run by each cohort at any point in time as they involve aggerated consumption checks.
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	ST0012 TC01 - Traditional to Smart Meter Exchange
	ST0012 TC02 - Advanced to Advanced Meter Exchange
	ST0012 TC03 - Advanced to Advanced Meter Exchange Back-Dated
	ST0012 TC04 - Traditional to Smart Meter Exchange using Back-Stop Reading
	-- 	
	ST0014 TC01 - Advanced to Smart Market Segment Change
	ST0014 TC02 - Smart to Advanced Market Segment Change
	-- 	
	ST0015 TC01 - De-Energise
	ST0015 TC02 - Retro Energise
	ST0015 TC03 - Smart BkStp Energise
	-- 	
	ST0016 TC01 - CT-Metering to Whole Current Change
	ST0016 TC02 - Advanced (Whole Current) to Advanced (CT-Meter) Connection Type Change
	-- 	
	ST0020 TC01 - Read Adjustments
	-- 	
	ST0054 TC01 - Update DUoS Tariff ID
	-- 	
	ST0055 TC01 - Trad Override
	ST0055 TC02 - Adv Override
	ST0055 TC03 - Smart Cons Amend
	ST0055 TC04 - Adv Cons Amend
	ST0055 TC05 - Smart Export Cons Amend
	ST0055 TC06 - Smart Override No Re-Calc
	ST0055 TC07 - Adv Override No Re-Calc
		-- 	
		ST0032 TC01 - Settling during Clock Changes -Smart CoS with change of MS and DS - BST
		ST0032 TC02 - Settling during Clock Changes - Smart CoS with change of MS and DS - GMT
		-- 	
		ST0033 TC01 - Settlement Central Systems Re-runs - Settlements Re-Runs
		ST0033 TC02 - Settlement Central Systems Re-runs - VAS Audit Re-Run
		-- 	
		ST0037 TC01- Consumption settling against De-Energised MPANs - Traditional
		ST0037 TC02- Consumption settling against De-Energised MPANs - Advanced A1
		ST0037 TC03 - Consumption settling against De-Energised MPANs - Unmetered
		ST0037 TC04 - Consumption settling against De-Energised MPANs - Smart
		ST0037 TC05- Consumption settling against De-Energised MPANs - Advanced A2
		ST0037 TC06- Consumption settling against De-Energised MPANs - Advanced A3
		-- 	
		ST0050 TC01 - Impacts by IF-024 Supplier Advisory Notifications to DS - Trad SNAC
		ST0050 TC03 - Impacts by IF-024 Supplier Advisory Notifications to DS - Trad LTV
		ST0050 TC04 - Impacts by IF-024 Supplier Advisory Notifications to DS - Smart Disabled
		ST0050 TC05 - Impacts by IF-024 Supplier Advisory Notifications to DS - Smart Off-Peak E10
		ST0050 TC06 - Impacts by IF-024 Supplier Advisory Notifications to DS - Trad LTV Expires
		ST0050 TC07 - Impacts by IF-024 Supplier Advisory Notifications to DS - Adv LTV Expires
		-- 	
		ST0053 TC01 – MDS D0297 MPAN_ABMU Mapping - Smart
		ST0053 TC02 – MDS D0297 MPAN_ABMU Mapping - Advanced
		ST0053 TC03 - MDS Rejection of D0297 MPAN_ABMU Mapping
		-- 	
		ST0070 TC04 - Consumption for LSS Rejection and Default - Adv LS Default
		ST0070 TC05 - Consumption for LSS Rejection and Default - Unmetered LS Default
		ST0070 TC09 - Consumption for LSS Rejection and Default - Smart LS Default
		-- 	
		
		SIT-A CoS Events
		-- 	
		SITFTS-ST0040 COS only or COS with change of Metering Service and/or Data Service where Settlement is working prior to and after the COS
		• ST0040 TC01 - Trad Related
		• ST0040 TC02- Smart Single
		• ST0040 TC03- Adv Single
		• ST0040 TC04- Unmetered
		• ST0040 TC05- Smart Import
		• ST0040 TC06- Smart Export
		• ST0040 TC07- Adv Single Estimate
		• ST0040 TC08- Smart Deemed

1 **+2**

29 spread across 10 Sub-Sets

22 spread across 6 Sub-Sets

8

15

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Traceability Document

INFORMATION: Programme initiative to show transparency around tests descoped and brought into scope

- **Multiple independent initiatives:** All to mitigate risk to the delivery of the programme per the agreed dates. But since they were independent, there needs to be one place for all additions to/subtractions from scope.

- **Code Body Review:** At the completion of each initiative, code bodies reviewed and fed back programme suggestions. This is solely with a view to qualification.

- **Programme Traceability**: At the request of Programme Participants, the Programme has agreed to produce a Traceability Document that tracks all scope changes.

- **Governance Activities:** When ready, the Programme will bring this document to SITWG, NFTWG, and SITAG.

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