



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

Systems Integration Testing Overview

MHHS-DEL1035

February 2023

v1

What is Systems Integration Testing (SIT)?

For most participants, SIT is a voluntary phase of the Programme, where participants can demonstrate functional, non-functional and migration-related characteristics of the Market Interfaces and Services in an integrated, end-to-end environment.

Purpose

- The purpose of Systems Integration Testing (SIT) is to **test the end-to-end (E2E) MHHS Design**, ensuring that the new MHHS arrangements function correctly and have been implemented in accordance with the MHHS E2E Design.

Qualification

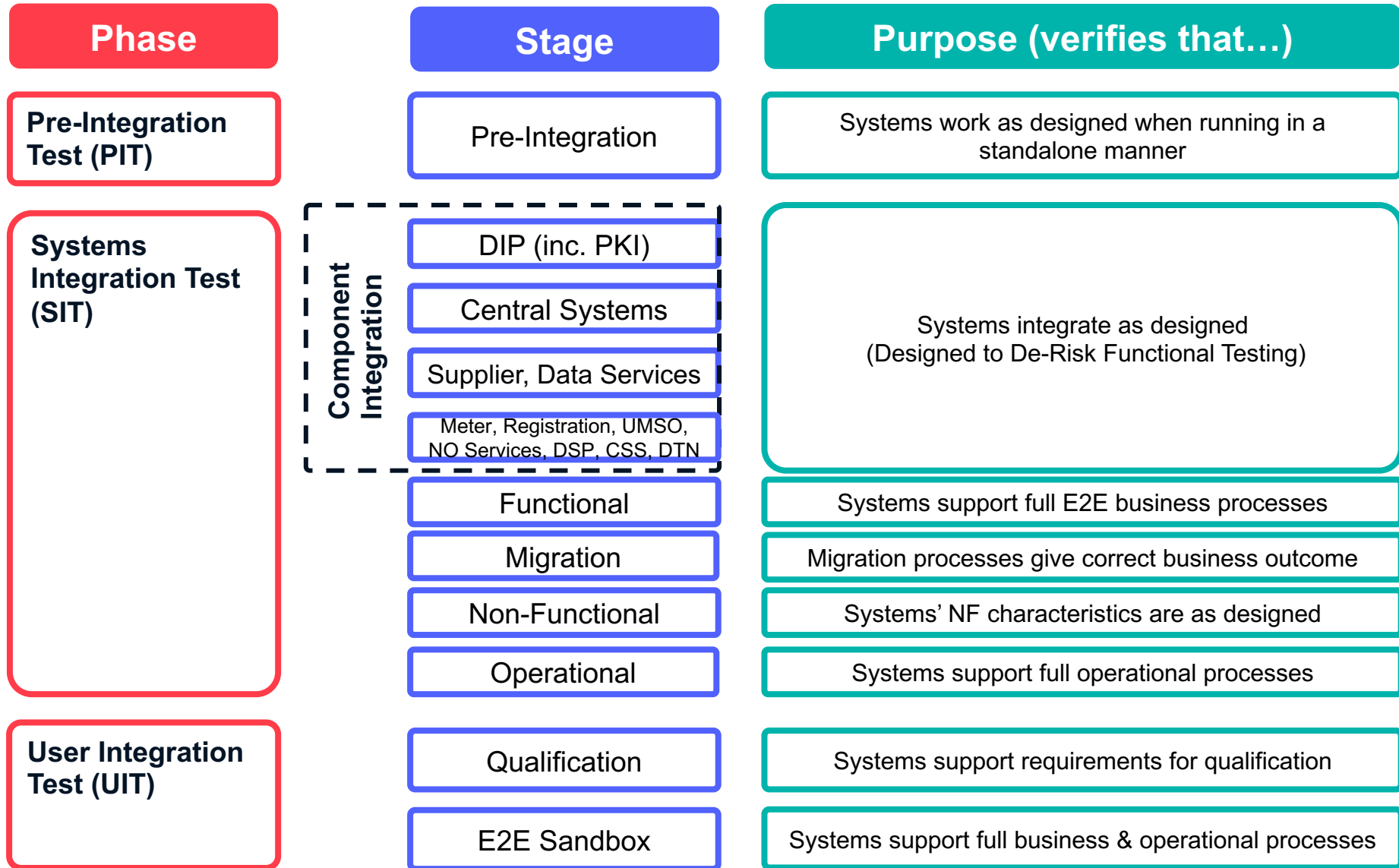
- In order to verify participants' fitness to take part in the new Half-Hourly arrangements, participants must test their systems for compliance with the E2E MHHS Design.
- There are two paths to migration, either via Qualification Testing, or the earlier route of SIT.
- If participants take part in SIT, they are not expected to undergo additional Qualification Testing in the Qualification phase.

Key Dependencies

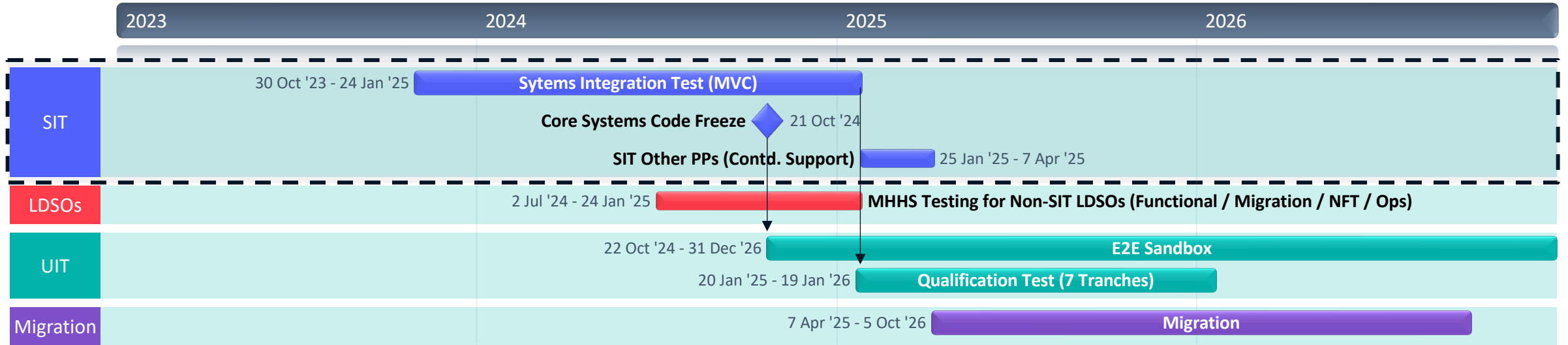
- SIT will not start until all Core Capability Providers have completed their design, build and PIT.
- Additionally, the number and types of Participants joining SIT must be sufficient to form the Minimal Viable Cohort (MVC).

Activities prior to Milestone 9 (SIT Start) should not be impacted by the delay in issuing the Re-Plan.

Participants should continue to work with the Programme team on their SIT readiness in line with the Round 3 timeline proposal.



SIT - Objectives and Principles



SIT Objectives:

- ✓ **Test the end-to-end (E2E) MHHS Design**, ensuring that the new MHHS arrangements function correctly and have been implemented in accordance with the MHHS E2E Design
- ✓ Execute test scenarios to verify the functional, non-functional and migration-related characteristics of the Market Interfaces and Services in an integrated environment
- ✓ To form a Minimal Viable Cohort (MVC) of SIT participants needed to operate their systems in a coordinated manner, in order to complete SIT and reach Go-live at the earliest point

Key Principles:

- ✓ The number and types of Participants joining SIT must be sufficient to form the Minimal Viable Cohort (MVC)
- ✓ All SIT volunteers will be expected to demonstrate PIT completion and SIT readiness (i.e. Envs, Data, Resources) prior to their SIT commencement
- ✓ The MVC will be formed in the early stages of SIT Functional Test on the basis of the fastest pace of test execution success – note non-MVC SIT PPs will also be supported thus still benefiting a faster route to Go-Live
- ✓ SIT Participants are not expected to undergo additional Qualification Testing in the Qualification phase

Benefits of participating in SIT



First to market

- Competitive advantage for early movers
- Earlier commercial benefits realised



Earlier customer benefits

- Earlier offering of products/services that make use of MHHS arrangements
- Responsiveness to future customer needs



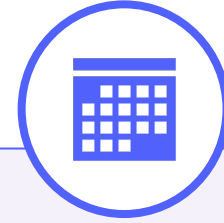
De-risking delivery

- Earlier discovery of any defects and more time to address them, thereby de-risking participant delivery



Priority Design Assurance support

- Priority Design Assurance Support from the MHHS SI Design Team



Additional Migration time

- By starting migration earlier, additional time for migration of MPANs before M14 (deadline by which all suppliers must be ready to accept MPANs under the new TOM)



Programme Success

- Overall benefits of the Programme realised sooner
- Programme success benefits the wider participant community