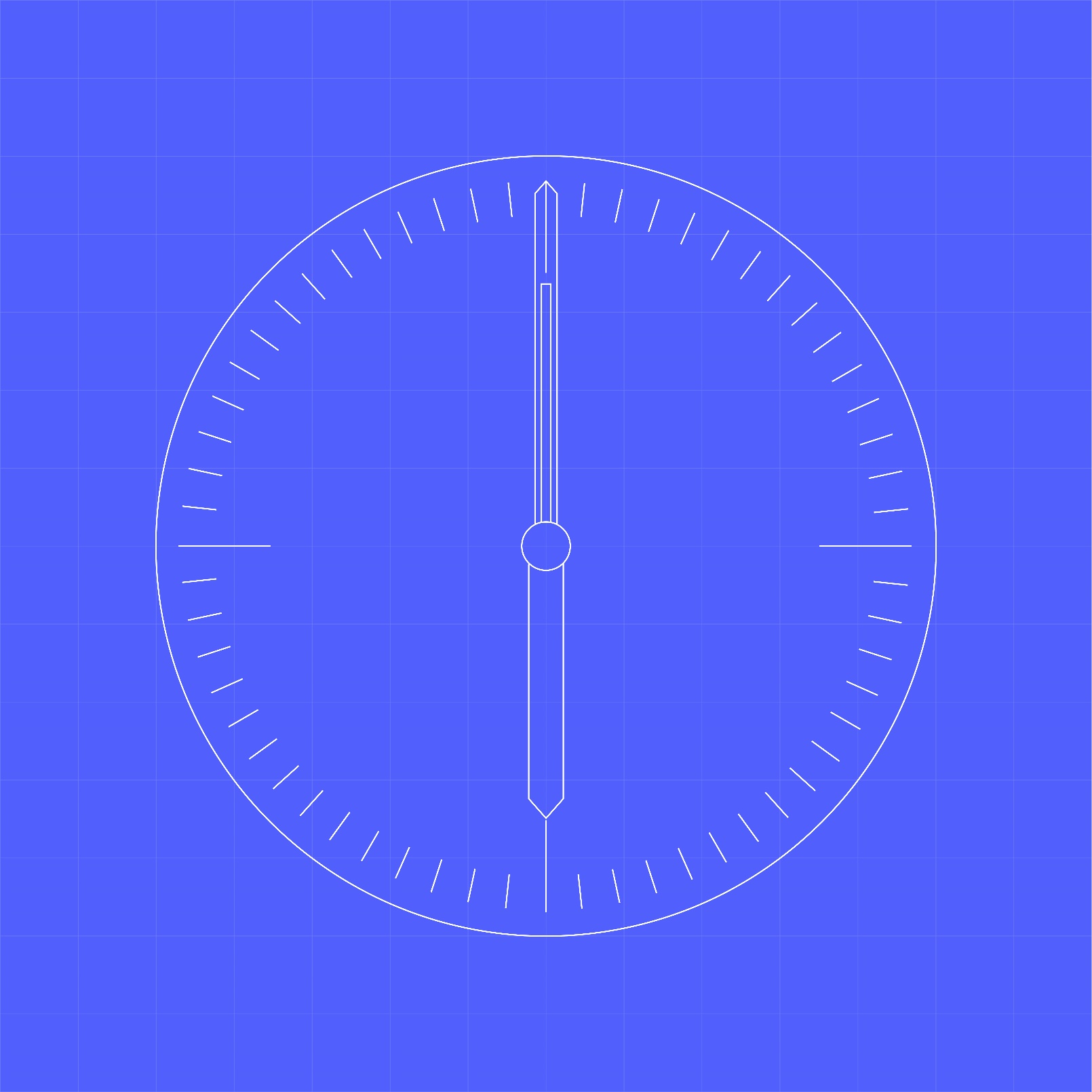
**SI Overarching SIT Functional Readiness Report**

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| --- | --- | --- |
| Document owner | Document number | Version |
| **Dominic Mooney** | **MHHS-DEL2266** | **V1.0** |
| Status: | Date | **Classification** |
| **Approved** | **11 March 2024** | **Public** |

|  |  |  |
| --- | --- | --- |
| Document owner | Document number | Version |
| **SI Workstream Lead** | **MHHS-ART029** | **0.4** |
| Status: | Date | **Classification** |
| **Draft** | **26 May 2022** | **Public** |

|  |  |  |
| --- | --- | --- |
| Document owner | Document number | Date |
|  |  |  |

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# SI Overarching SIT Functional Readiness Report

## Change Record

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| --- | --- | --- | --- |
| Date | Author | Version | Change Detail |
| 13 February 2024 | Dominic Mooney | 0.1 | Initial report content compiled for review |
| 19 February 2024 | Nigel Hunt | 0.2 | Updated information from Readiness Review Reports & SIT Readiness Tracker |
| 22 February 2024 | Nigel Hunt / Dominic Mooney / Lee Cox | 0.3 | Updated information from Readiness Review Reports & SIT Readiness Tracker in revised Cohort reporting format |
| 29 February 2024 | Nigel Hunt / Dominic Mooney / Lee Cox | 0.4 | Report updated with latest readiness position as of 29th February, in addition to an updated SIT Functional Readiness Tracker embedded in Appendix A. |
| 7 March 2024 | Dominic Mooney / Lee Cox | 0.5 | Report updated with latest readiness position as of 7th March, in addition to an updated SIT Functional Readiness Tracker embedded in Appendix A. |
| 8 March 2024 | Dominic Mooney / Lee Cox | 0.6 | Report updated with latest readiness position as of 8th March, in addition to an updated SIT Functional Readiness Tracker embedded in Appendix A. |
| 11 March 2024 | Fraser Mathieson | v1.0 | Approved as v1.0 by SIT Advisory Group (SITAG) |

## Document Review & Approval

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Role | Organisation | Review / Information / Approval / Sign Off |
| Lee Cox | MHHS SI Programme Test Manager | MHHS LDP SI | Approval |
| Adrian Ackroyd | MHHS SRO Client Test Programme Manager | MHHS SRO | Approval |
| Kiran Raj | MHHS SRO SIT Functional Test Lead | MHHS SRO | Review |
| SIT Advisory Group | MHHS governance oversight group for SIT | MHHS Governance | Approval |

## Document References

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Ref No. | Document/Link | Publisher | Published | Additional Information |
| REF-01 | [MHHS-DEL1259 SIT Functional Test Approach & Plan](https://mhhsprogramme.sharepoint.com/sites/Market-wideHalfHourlySettlement/Testing%20Documents/Forms/All%20Documents%20v2.aspx?id=%2Fsites%2FMarket%2DwideHalfHourlySettlement%2FTesting%20Documents%2FMHHS%2DDEL1259%20SIT%20Functional%20Test%20Approach%20%26%20Plan%20%2Epdf&parent=%2Fsites%2FMarket%2DwideHalfHourlySettlement%2FTesting%20Documents) | SI Testing | 16 August 2023 |  |
| REF-02 | [MHHS-DEL2254 SIT Functional Readiness Tracker](https://mhhsprogramme.sharepoint.com/:x:/r/sites/Market-wideHalfHourlySettlement/_layouts/15/Doc.aspx?sourcedoc=%7B8F2714D8-EFF9-4ABA-870F-F21379879B2F%7D&file=MHHS-DEL2254%20SIT%20Functional%20Readiness%20Tracker_08-02-2024%20(1).xlsx&action=default&mobileredirect=true) | SI Testing | Updated weekly on the MHHS Collaboration Bases | Updated weekly on the MHHS Collaboration Bases |
| REF-03 | [MHHS-DEL1064 - Placing Reliance Policy](https://mhhsprogramme.sharepoint.com/sites/Market-wideHalfHourlySettlement/Testing%20Documents/MHHS-DEL1064%20-%20Placing%20Reliance%20Policy_v1.0.pdf?web=1) | SI Testing | 27 April 2023 |  |
| REF-04 | [MHHS-DEL852 - Pre-Integration Test Guidance](https://mhhsprogramme.sharepoint.com/sites/Market-wideHalfHourlySettlement/Testing%20Documents/MHHS-DEL852%20-%20%20Pre-Integration%20Testing%20Guidance%20v1.1.pdf?web=1) | SI Testing | 18 August 2023 |  |
| REF-05 | [MHHS-DEL618 - Environment Approach & Plan](https://mhhs-prod-webapp.azurewebsites.net/uploads/bbe75ca4-3393-4829-a777-632cd0464bf0/MHHS-DEL618_-_Environment_Approach__Plan_v2.5.pdf) | SI Testing | 21 July 2023 |  |
| REF-06 | [MHHS-DEL1367 - SIT Functional Test Data Approach & Plan](https://mhhsprogramme.sharepoint.com/sites/Market-wideHalfHourlySettlement/Testing%20Documents/Forms/All%20Documents%20v2.aspx?id=%2Fsites%2FMarket%2DwideHalfHourlySettlement%2FTesting%20Documents%2FMHHS%2DDEL1367%20%2D%20SIT%20Functional%20Test%20Data%20Approach%20%26%20Plan%2Epdf&parent=%2Fsites%2FMarket%2DwideHalfHourlySettlement%2FTesting%20Documents) | SI Testing | 16 August 2023 |  |
| REF-07 | MHHS RAID Log – please contact [PMO@mhhsprogramme.co.uk](mailto:PMO@mhhsprogramme.co.uk) for Raid Log access. | PMO | - |  |

## Terminology

|  |  |
| --- | --- |
| Term | Description |
| Various | For terminology, see Programme Glossary on the MHHS portal:  [Programme Glossary (SharePoint.com)](https://mhhsprogramme.sharepoint.com/sites/Market-wideHalfHourlySettlement/SitePages/Programme-Glossary.aspx) |

## Document Purpose and Guidance

The Market-wide Half Hourly Settlement programme (MHHS), when completed, will contribute to a more cost-effective electricity system, encouraging more flexible use of energy and helping consumers lower their bills.

The objective of the Functional Test stage is to validate the new MHHS arrangements by involving all Central Systems, the Registration Service and at least two Services for each market Role, all connected via the Data Integration Platform (DIP) enabling End-to-end functional tests to be conducted. These End-to-end tests are based on business scenarios and are aimed to exercise and “prove” the MHHS E2E Design. For full details of the background of this SIT Functional Test stage, please refer to [REF-01] [MHHS-DEL1259 SIT Functional Test Approach & Plan](https://mhhs-prod-webapp.azurewebsites.net/uploads/0c1d698d-4110-4205-b34c-3357b8853e26/MHHS-DEL1259_SIT_Functional_Test_Approach_&_Plan.pdf).

Prior to System Integration Test (SIT) Functional Test commencement, each participant is required to provide a Participant SIT Functional Test Readiness Report as a formal self-declaration of their SIT Functional readiness status in relation to their preparation activities as outlined in section 7.1.5 of [REF-01] [MHHS-DEL1259 SIT Functional Test Approach & Plan](https://mhhsprogramme.sharepoint.com/sites/Market-wideHalfHourlySettlement/Testing%20Documents/Forms/All%20Documents%20v2.aspx?id=%2Fsites%2FMarket%2DwideHalfHourlySettlement%2FTesting%20Documents%2FMHHS%2DDEL1259%20SIT%20Functional%20Test%20Approach%20%26%20Plan%20%2Epdf&parent=%2Fsites%2FMarket%2DwideHalfHourlySettlement%2FTesting%20Documents).

The objective of the Participant SIT Functional Test Readiness Report is to demonstrate the preparedness of testing efforts for each organisation entering SIT functional. As a key milestone before the commencement of testing activities, the report aims to ensure that all necessary components and prerequisites are in place to conduct testing efficiently and effectively.

The report will need to include:

* A completion status of Test participant owned SIT Functional readiness activities which have been specified in [REF-02] [MHHS-DEL2254 SIT Functional Readiness Tracker](https://mhhsprogramme.sharepoint.com/:x:/r/sites/Market-wideHalfHourlySettlement/_layouts/15/Doc.aspx?sourcedoc=%7B8F2714D8-EFF9-4ABA-870F-F21379879B2F%7D&file=MHHS-DEL2254%20SIT%20Functional%20Readiness%20Tracker_08-02-2024%20(1).xlsx&action=default&mobileredirect=true).
* A statement and supporting evidence against the Test participant owned SIT functional Entry Criteria, as documented in section 7.1.6 in [REF-01] [MHHS-DEL1259 SIT Functional Test Approach & Plan](https://mhhsprogramme.sharepoint.com/sites/Market-wideHalfHourlySettlement/Testing%20Documents/Forms/All%20Documents%20v2.aspx?id=%2Fsites%2FMarket%2DwideHalfHourlySettlement%2FTesting%20Documents%2FMHHS%2DDEL1259%20SIT%20Functional%20Test%20Approach%20%26%20Plan%20%2Epdf&parent=%2Fsites%2FMarket%2DwideHalfHourlySettlement%2FTesting%20Documents).
* Details of any exceptions i.e., readiness tasks, entry criteria, open PIT defects that have not been completed, met or resolved at the time of writing of the readiness report, and the associated work off plans and dates agreed with the MHHS programme for when these activities are planned to be completed.
* For Qualifying participants that have adopted the [REF-03] [MHHS-DEL1064 - Placing Reliance Policy](https://mhhsprogramme.sharepoint.com/sites/Market-wideHalfHourlySettlement/Testing%20Documents/MHHS-DEL1064%20-%20Placing%20Reliance%20Policy_v1.0.pdf?web=1), evidence will need to be provided that demonstrates their proposal has been accepted by the Programme and that a placing reliance RACI has been agreed with their 3rd Party providers and the MHHS SI.
* Any new risks or issues to declare.
* Evidence that the Test participant Readiness Report has been approved and signed by a senior stakeholder authority within the Qualifying participants’ organisation, i.e., an approval from a delegated 3rd party provider only will not suffice.

Individual organisations’ Participant SIT Functional Test Readiness Report provide the formal input into an SI Overarching SIT Functional Readiness Report for SIT (this report), which aggregates the readiness position of all participants in addition to the SI owned readiness activities and entry criteria (as specified in section 7.1.6 of [REF-01] [MHHS-DEL1259 SIT Functional Test Approach & Plan](https://mhhsprogramme.sharepoint.com/sites/Market-wideHalfHourlySettlement/Testing%20Documents/Forms/All%20Documents%20v2.aspx?id=%2Fsites%2FMarket%2DwideHalfHourlySettlement%2FTesting%20Documents%2FMHHS%2DDEL1259%20SIT%20Functional%20Test%20Approach%20%26%20Plan%20%2Epdf&parent=%2Fsites%2FMarket%2DwideHalfHourlySettlement%2FTesting%20Documents)), and to document any risks, issues or exceptions and associated work off plans that impact the planned SIT Functional test execution start date. The status and recommendations in this report will feed into a MHHS programme governance decision via SITAG on whether to proceed with SIT Functional Test execution.

Please note that this is an interim report which confirms the position on SIT functional readiness tasks and entry criteria, documenting exceptions and work off plans at the time of writing. The progress status through to closure of any work off plans will be reported to the relevant governance forums making a decision to approve commencement of testing.

# SIT Functional Readiness Status

## SIT Functional Readiness Status Guidance

The following slides within Section 2 provide SIT Functional Readiness Task Status. Each slide will contain:

* Overall Status Table
* Readiness Declaration Table
* Overall Readiness Date Planned
* Work Off Plan

The Overall Status Table is split into 6 rows, each which will contain the readiness status against a set of sub-activities as listed below:

* PIT – SIT Functional
  + PIT Approach and Plan
  + PIT Requirements to Test Traceability Matrix
  + PIT Test Scenarios
  + Final PIT Completion Report
  + PIT Execution
  + PIT Completion Status
* CIT
  + CIT PP Completion Report Received
  + CIT PP Completion Report Assured
* Environments
  + CSS Connectivity Proving Complete (If Applicable)
  + DTN Connectivity Proving Complete
  + Intra-Cohort Connectivity established
  + MHHS code deployed to SIT PPs' envs
* Data
  + PPs confirmation that data is ready for SIT Functional
* ADO
  + PP verifies that tests have been allocated correctly

The details for all lower level activities can be viewed in [REF-02] MHHS-DEL2254 SIT Functional Readiness Tracker, which is updated weekly on the MHHS Collaboration Base. See also REF-02, copy embedded in Appendix A.

## SIT Functional Readiness Status – Central Party

A screenshot of a computer screen

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Figure 1: SIT Functional Readiness Status – Central Party

## SIT Functional Readiness Status – Cohort A

Several different colored boxes

Description automatically generated with medium confidence

Figure 2: SIT Functional Readiness Status - Cohort A

## SIT Functional Readiness Status – Cohort B

A screenshot of a computer

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Figure 3: SIT Functional Readiness Status – Cohort B

## SIT Functional Readiness Status – Cohort C

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Figure 4: SIT Functional Readiness Status – Cohort C

## SIT Functional Readiness Status – Cohort E

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Figure 5: SIT Functional Readiness Status – Cohort E

## SIT Functional Readiness Status – Cohort F

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Figure 6: SIT Functional Readiness Status – Cohort F

## SIT Functional Readiness Status – Cohort G

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Figure 7: SIT Functional Readiness Status – Cohort G

## SIT Functional Readiness Status – Cohort H

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Figure 8: SIT Functional Readiness Status – Cohort H

## SIT Functional Readiness Status – Cohort J

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Figure 9: SIT Functional Readiness Status – Cohort J

# Placing Reliance

The MHHS programme has reviewed the Placing Reliance proposal submissions provided by the concerned Qualifying MHHS participants prior to SIT CIT, in order to determine if there were any material impacts to those previous submissions in reference to the Cohort model which is being applied within SIT Functional. The assessment concluded that there were no material impacts to those prior submissions, however the programme did request that submissions for 3 Qualifying parties did require a minor wording change to reflect the data approach being dictated by the MHHS programme within the SIT Functional Test Cohort model for those parties. The revised submissions have been shared with the Code Bodies for comment.

# Secondary Routing

During the early test intervals of CIT issues were found with Secondary Routing functionality. As a consequence, it was jointly agreed with the IPA and FTIG that the scope of CIT would be reduced to exclude the testing of Secondary Routing functionality. This had the effect of reducing the planned scope by approximately 66%. To mitigate the risk that the reduce scope introduced it has been agreed that additional Secondary Routing functionality testing be planned and executed. The following activities are in place and will cover:

|  |  |  |
| --- | --- | --- |
| **SIT F Readiness Tasks** | **Completion Date** | **Overall Status** |
| Avanade IR5.3 PIT | 22/02/2024 | Complete |
| Avanade IR5.3 PIT  - SI Test Assurance/Test Witnessing | 15/02/2024 | Complete |
| Additional Secondary Routing Testing (Avanade PIT Environment) | 23/02/2024 | Complete |
| Deploy IR5.3 to SIT A Test Environment | 27/02/2024 | Complete |
| Secondary Routing Confidence Testing (SITA Test Environment) | 29/02/2024 | Complete |

Table 1: Secondary Routing Activities

There is currently one work off item for Secondary Routing functionality:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Status Date** | **Area Path** | **Description** | **RAG** | **Owner** | **Resolution Date** | **Resolution Path** |
| 29/02/2024 | PIT | DIP Routing based on DCPIDs | Complete | SI/DIP | 06/03/2024 | Defect found during PIT Test Witnessing.  Defect has been fixed and Avanade retested and awaits SI Test Witnessing  29/02 - Still outstanding (low impact)  07/03 - Witnessing successfully complete |
| 29/02/2024 | SITA Build | DIP Uplift to IR5.3 + IR5.4 in SITA including Data Model refresh planned completion 06-Mar | Complete | SI/DIP | 06/03/2024 | DIP declare build complete  07/03 - completed on schedule |
| 29/02/2024 | Secondary Routing | SITA Secondary Routing Confidence Testing | Complete | SI/DIP | 07/03/2024 | Delayed to enable completion of IR5.4 uplift. Will now be conducted against IR5.4 Build  07/03 - testing executed, DIP correctly routed all messages. Final Data  Base checks completed |

Table 2: Secondary Routing Work Off Items

# SI SIT Functional Entry Criteria Status

A screenshot of a computer

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Table 3: SI SIT Functional Entry Criteria Status

## SI Owned SIT Functional Readiness Work Off Items

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SIT Stage** | **Owner (PP/SI)** | **Task Category** | **Cohort(s)** | **Party / Role** | **Task** | **Start Date** | **Finish Date** | **Status (RAG)** | **Commentary** | **Forecast Date** |
| SIT F | SI | Reporting | All | All | SITF Test MI Set Up |  | 26/02/2024 | Green | Test MI data model in place and reports based on sample data agreed with SRO. Reports generated from test cases now loaded in ADO to be quality checked on 11-Mar. | 11/03/2024 |
| SIT F | SI | Meetings | All | All | Test and Defect Meetings Scheduled with PPs |  | 07/03/2024 | Complete |  |  |
| SIT F | SI | DITL | All | All | Day In The Life Sessions |  | 07/03/2024 | Complete |  |  |
| SIT F | SI | CIT | All | SI | SI Overarching CIT Completion Report Approved by SITAG |  | 08/03/2024 | Green | eSITAG on 11-Mar | 11/03/2024 |
| SIT F | SI / PP | ADO | All | All | Test Management Tool Training Complete |  | 08/03/2024 | Complete |  |  |
| SIT F | SI | ADO | All | All | Tests loaded in ADO |  | 08/03/2024 | Complete |  |  |

Table 4: SI owned SIT Functional Readiness Work Off Items

# SIT Functional Preparation – Milestones, Statuses & Work-off Plans

## SIT Functional Preparation – Milestones, Statuses & Work-off Plans (Part I)

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Table 5: SIT Functional Milestones Pt I (as of 08-Mar-24 at 4pm)

## SIT Functional Preparation – Milestones, Statuses & Work-off Plans (Part II)

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Table 6: SIT Functional Milestones Pt II (as of 08-Mar-24 at 4pm)

# Risks & Issues

There are no newly identified Risks or Issues at this stage. Please see [REF-07] (RAID Log)

# SI SIT Functional Readiness Recommendation

Based on the content of this this report at the time of writing the MHHS SI recommendation is to proceed with SIT Functional execution start, subject to the completion of all outstanding Work Off Plan items in the SIT Functional Status reports in Section 2 above.

# Appendix A – SIT Functional Readiness Tracker

*See embedded spreadsheet, SIT Functional Readiness Tracker that contains the lower-level evidence to support the figures shown in Sections 2 and 5*

**