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| NCC Group | Company Confidential   Engineering Document |

**Test Strategy for Escrow Sprint 179**

Version 1.0

February 12, 2025

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1. **Overview and Introduction**

This document provides the Testing Strategy for “Escrow SPRINT 178”. It includes the following constituents:

* 1. To create manual test cases for new features / bug fixes and modify existing test cases as per changed functionality.
  2. Run manual tests for enhancements and changes mentioned in the stories (requirements) as well as bugs logged in Jira.
  3. Manual tests will also cover bug fix verification for the scenarios mentioned in the bugs and regression around it.
  4. Run automated regression test scripts for doing regression around the fixed bugs, implemented enhancements and verification of newly built environments.
  5. Don’t foresee any changes to the existing automation test scripts for newly added or changed features in this sprint.
  6. For all stories, QA will identify and log bugs using Jira to be triaged accordingly

1. **Audience**

The audience for this document includes IPM engineering team having both offshore and onshore team members.

1. **Objectives / Benefits**

The key objectives are as follows:

* Determine the types of tests required for each story.
* Earlier identification of testing requirements.
* Identify performance assurance requirements (if any).
* Determine the significance of the stories with the business.
* Identify third party dependencies much earlier even before starting the actual testing on the specific Story (if any).
* Generate well-defined suite of tests and adding new test cases and updating existing test suits.
* Progressive and additive test tasks.
* Earlier identification of tests for Automation.
* Enhance Automation suite further to add new scripts as well as to remove the manual intervention.
* Scheduling the test runs, generate the report and send the report via emails.

1. **Assumptions**

* All necessary machines/VMs will be available for deployment of all the respective packages.
* All dependent products/environments are available, up and running and QA team members have right access to required machines/ tools / environments.
* All required tools and scripts are available, up and running.
* For deployment of packages/builds, QA expects that development team will provide clear instructions on how to deploy the package. QA also requires roll back scripts to be a part of the deployment package along with instructions on how to roll back the specific release.
* QA assumes that development will perform unit and QA Integration testing.
* Testing will be carried out on test machines having IE9 browser. We only technically support IE 11. We need to upgrade the automation suite to function against IE 11 but have agreed until that’s done, we will perform automation against IE9. However, any additional testing should be done against IE 11.
* For EMC Stories, the testing will be done on Chrome besides IE11 browser.
* For ICANN story, the testing will be done on IE11 and Firefox browser.

1. **SPRINT 178 Functional Test Plan**

“Escrow **SPRINT 178**” includes testing of the following stories (areas/features) and regression around it.

## **5.1 IPM 513- Globalscape Reverse Engineering Workflow 7 Process Service**

* QA will verify the Java solution is able to clone the large files from repositories.

## **5.2 IPM 518- EBO / eWork - Termination Report for Termination Data [Final]-Related to IPM 466](Dev only)**

* QA

## **5.3 IPM 534- Jaguar Migration**

* Dev only

## **5.4 IPM 531- Globalscape Reverse Engineering - Workflow 10: SFTP File Age/Shared Drive Path File Age.**

## **5.5 IPM 532- Global cape Reverse Engineering- Workflow 11: SFTP File List/Shared Path File List**

## **5.6 IPM 528- EBO - Quote Status Amendments**

## **5.7 IPM 515- EBO / Jaguar - Renewal Quote Invoice Text Amendment**

* QA will perform regression testing

## **5.8 IPM 455- EBO - Contract Party Additions**

* QA will perform regression testing

## **5.9 IPM 510- eWork Post Upgrade bug fixing [Part -3]**

* QA

## **5.10 IPM 519- eWork - Non-Payment Terms Notice Amendment**

* QA

## **5.11 IPM 537- EBO - Account Assignment (QA Only) Related to IPM 412**

* QA

## **5.12 IPM 540- EMC - Security Fixes/Server Upgrade (QA Only)**

## **Related to IPM 522.**

* QA

## **5.13 IPM 538-Jaguar - There is an inconsistency VB script error is observed on Invoice Page and Contract Party Services Page in Jaguar on ALL environments.**

* QA

1. **Build Acceptance Testing**

* Acceptance Criteria will include execution of smoke tests against the build deployed story and verification of defects fixes (if applicable).
* It will also cover the happy-path test for new/modified feature.
* **Build Acceptance Testing will be done for all the QA stories in the sprint.**

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| **Type of Functional testing** | **Description** |
| Negative | Negative testing ensures that your application can gracefully handle  Invalid input or unexpected user behavior.  **This will be done for all the User Stories in SPRINT 178.** |

1. **Functional Testing**

* QA will review RQA documents, Jira Issues, additional story specific documents uploaded on SharePoint by the business.
* QA will deploy the builds as per steps given in release document, will execute the smoke tests and start the QA testing cycle.
* In case of any discrepancies, QA will raise a Jira Issue for further enhancement or bug fixing.
* QA will be involved in reviewing the available documentation and come up with new test cases.
* In case of Bug fix verifications, QA will retest these bugs and perform regression around it.
* QA will exercise rollback testing on every release. This will include running the smoke tests after QA rolled back the release and retest changes as appropriate. If successful, QA will redeploy the latest build and re-run the smoke tests to ensure proper functionality. Not only perform smoke test after roll back but also verify that the new functionality is gone by performing the roll back.
* **Functional Testing will be done for all the stories in the sprint.**

1. **Integration Testing**

* Integration testing will be carried out for stories in which functionality is dependent/impacting more than one application.
* End to End test cases will be executed to cover the entire flows.
* Happy Path test cases are documented in Build Release Checklist document and will be executed before accepting the build.
* Integration testing will be required for following stories.

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1. **Regression Testing**

* Full regression will be needed on following stories:

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1. **Ad-hoc Testing**

If time permits, Ad-hoc testing will be done after –

* Bugs are verified and tested.
* Smoke testing is completed.
* Regression tests are passed.

1. **Path for test lab in ALM**

List of all manual test cases and automation test scripts that will be executed for this release are added to test lab in HP QC under following path.

**Root>Escrow> SPRINT 178**

1. **Test Automation**

* Adopt a planned approach to develop test automation scripts. Increase the quality of test automation code.
* QA will focus to make daily smoke robust and automate the new or edited features on need basis.
* Manual test cases are mapped with automated scripts in the below consolidated sheet under following path:

<https://docs.google.com/spreadsheets/d/1w4Pz6d7lavMDHKoaKOoOjKn8-HNPENye/edit?usp=sharing&ouid=111357657420133461208&rtpof=true&sd=true>

1. **Task(s) Overview**

Add, change or delete tasks in accordance with your project requirements.

The key testing tasks for SPRINT 178 are as follows:

* Requirement understanding, clarify all the doubts with business.
* Test cases writing and review.
* Review Build Release Document and deploy the builds on QA/Sustaining environment(s).
* Perform acceptance testing (Smoke testing/retesting) and accept the build for further testing.
* Perform build testing (full or partial regression testing).
* Log a defect (if any).
* Send QA completion with execution path, Defects logged, assumptions, etc.
* No Changes in the automation scripts are needed for the newly or edited features.
* Update the build release documentation.
* Perform daily smoke testing and keep the smoke test suites updated.
* Apart from the sprint stories, QA will also test / verify the bug fixes for the bugs that will be triaged and marked to be fixed in the current sprint.
* After QA completion QA will send completion email to the team.

1. **Other SPRINT 178 Testing Artifacts**

## **14.1 Defect Management System**

QA will be using Jira as Defect Management tool. All defects will be entirely verified before entering into Jira, QA will update all relevant information in Jira and we will follow standard defect life cycle.

## **14.2 System Interfaces and** **Testing Environments**

System Interfaces and Testing Environments related information can be found on SharePoint via the following link:

[http://teamsites.ironmountain.com/sites/nao/ipm/eng/Old Sharepoint/QA Team/QA System Info/Current\_QA\_System\_Info.docx](http://teamsites.ironmountain.com/sites/nao/ipm/eng/Old%20Sharepoint/QA%20Team/QA%20System%20Info/Current_QA_System_Info.docx)

## **14.3 Testing Tools**

The following testing tools will be used:

| Testing Tool | Purpose |
| --- | --- |
| UFT | Functional Test Automation |
| SVN | Version control for Automation |
| ALM (HPQC) | Version control for Manual and automated tests |
| Microsoft SQL server | Database testing |
| Jira | Defect management and Time sheet |
| SharePoint | Document repository |

## **14.4 Roles and Responsibilities**

Resources involved in QA team are listed below with respective roles in planning, conducting, and assessing tests, and address issues.

|  |  |
| --- | --- |
| **Resource** | **Role** |
| Trainor, Kellie | QA Manager |
| Tulasi Bai | Offshore QA Engineer |
| Janet Purushothaman | Offshore QA Engineer |
| Arjith Vetrivelan | Offshore QA Engineer |

Detailed effort estimation of Resource and stories is available on below link. This estimation includes stories, subtasks, story points, resources involved, resource leave and effort calculation.

<https://drive.google.com/drive/folders/1oiuY4GlbP6Yol78Wj8sQQsMBTA8-CwKC>

## **14.5 Key Deliverables**

Add, change or delete tasks in accordance with your project requirements.

The key testing deliverables for Escrow SPRINT 178 are as follows:

* Test Strategy document for the “Escrow SPRINT 178”.
* Effort estimation document.
* Manual as well as Automated Test Cases Review. These documents would be uploaded in Google Shared Drive.
* Weekly Testing status report.
* Deployment check list along with QA acceptance notification.
* Story completion mail for each story.
* Test cases review sheet.
* Automated test cases sheet.

## **14.6 Related Documents**

All related documents can be found on Google Shared Drive via the following link:

https://drive.google.com/drive/folders/1oiuY4GlbP6Yol78Wj8sQQsMBTA8-CwKC

## **14.7 Entry Criteria**

* QA will accept each build only if QA team is able to successfully run the acceptance tests identified in HP ALM as part of build verification tests.
* The Functional Test Plan for “Escrow SPRINT 178” will identify several test cases as acceptance tests.

## **14.8 Exit Criteria**

The exit criteria will be covered under following points:

* 1. All the Test Cases assigned for this cycle are executed.
  2. All the build documents are followed, reviewed and finalized for its entirety.
  3. If the schedule allows, then QA will also do 2 planned days of Ad-hoc Testing at the end of the Testing cycle.
  4. If the schedule is adversely getting affected by adding these efforts, then QA will only perform the planned specific tests execution agreed by the team during test plan reviews.

## **14.9 Risks / Mitigations**

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| **Type** | **Risk** | **Mitigations** |
| Generic | Availability of the test environment (product setup/machine/ VMs needed). And Availability of Win 2012 servers & IE 9, IE11, Firefox7. | Need to keep environments up and ready. |
| Generic | Availability and accessibility of UFT machines having Windows Servers and IE 9 and 11. | Need to keep UFT machines up and ready before we start testing. |
| Generic | Frequent changes to priorities of tasks to be performed. | In case of frequent changes, we will re-prioritize and may need to make adjustments on delivery dates from QA based on these changes. |
| Automation (Performance Center) | Unavailability of Performance center slots | Will make sure to book the slots well in advance even though the script changes are not ready.  In case of unavailability will keep an eye every day to check if the slots are getting freed up. |
| Application Specific (EMC) | Unavailability of QA Portal instance. | Need to follow up with Portal team continuously in case the Portal instance is down. This will affect all the EMC stories and the EDP schedule. |

1. **Audit History**

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| --- | --- | --- | --- | --- |
| Version | Date | Author | Notes | Reviewer |
| 1.0 | 02/13/2025 | Arjith | Initial Draft | Kellie |