**Title: Test approach for GDD MDM**

**GDD MDM**

**Project Clarity ID: 080596**

**Test Phases and Responsibilities**

**Testing includes the below scopes:**

1. EBX5-User Interface Testing
2. Data Migration Testing
3. System Integration Testing

The table below gives an overview of the applicable test phases including on which system environment those tests will be performed as well as the responsibilities for the different test phases.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Phase** | **Environment** | | | **Responsible** |
| **DEV** | **Test / QA** | **PROD** |
| Functional/Integration Testing (OQ) | X (Informal) | X (Formal) |  | Testing Factory team |
| Data Migration testing | X (Informal) | X (Formal) |  | Testing Factory team |
| User Acceptance Testing (UAT) |  | X |  | BA / Business Lead |

# Test Strategy

**EBX5-User Interface Testing**

The verification of the system functionality in EBX5 UI as outlined in “GDD\_R1\_Functional\_Specification” will be covered as part of this scope

1. **Data model validation** – Each table and its fields will be displayed in the UI. Each table fields and properties displayed will be validated against the properties defined in “GDD - R1 - Detailed Business Glossary” with admin access. or properties file will be shared by Dev team and this will be validated against “GDD - R1 - Detailed Business Glossary”
2. **Work flow validations** – Approach is to Create, update, deactivate and reactivate existing / newly created data through EBX5 and validate all the work flows as mentioned in the functional specifications. Validation of audit trial will be done as per the functionality mentioned in FS for all CRUD operations
3. **Import and Export validations** – Approach is to validate all kinds of formats for import by creating different sets of data for each import. Export feature is validated against mentioned format in FS.

**Assumptions:**

* + - DB access will not be provided to testing team
    - Dev team will share extract of properties file to validate data model
    - Assuming that Initial load will happen before UI testing phase. Hence there is a plan to leverage on existing data for few tests

**Test Data:** New test data will be created through UI for validations and same test data will be updated and deactivated for few test cases. Existing data will be used for modifications for few other validations

*Environment: Dev for informal testing and QA for formal testing*

**Data Migration: TBD**

*Environment: Dev for informal testing and QA for formal testing*

**Integration Testing:**

The verification of the system integration functionality as outlined in “IMPACT\_MDM\_INT Functional Specification-Inbound” will be covered as part of this scope

**Testing Scope:**

1. Validation of data flow from external source (Mysite) to MDM
2. Validation of data flow from MDM to Dell Boomi and JBoss MQ
3. Validation of data flow form JBoss MQ to API GW
4. Validation of data flow from Impact to MDM
5. End to End validation ( Mysite – MDM – Impact – MDM)

**Test Approach:**

1. **Validation of data flow from external source (Mysite) to MDM:**
   * Create/Update investigator request will be triggered using SOAP UI with appropriate parameters.
   * Upon Success, verify the workflow for the desired record in EBX5
   * Once workflow is completed, verify the Clinical Personnel table in EBX5 to make sure the table has anticipated record
2. **Validation of data flow from MDM to Dell Boomi and JBoss MQ**
   * CRUD operations on investigator and site using EBX5 UI with appropriate values
   * Upon workflow is completed, verify MDM data push to Boomi
   * Boomi team will help in providing JBoss MQ and Boomi log files to verify the data against the records which has created or updated and pushed from MDM
3. **Validation of data flow from JBoss MQ to API GW**
   * Verify data push from MQ to API GW
   * Boomi team will help in providing log files to verify the data that is being sent to IMPACT through the API GW
4. **Validation of data flow from Impact to MDM**
   * Create/Update request to Remote Keys table will be triggered using SOAP UI with appropriate parameters
   * “Remote keys” table will be verified to make sure the table has desired “Global and IMPACT IDs”
5. **End to End validation**
   * Create and Update operations for Investigator will be performed using Soap UI
   * Upon Success, verify the workflow for the desired record in EBX5
   * Once workflow is completed, verify the Clinical Personnel table in EBX5 to make sure the table has anticipated record.
   * Verify MDM push record to Boomi.
   * Boomi team will provide the JBoss MQ and Boomi log files that has the data written to it
   * Verify the log files against the data, which has created and pushed from MDM.
   * Create/Update request to Remote Keys table will be triggered using SOAP UI with appropriate parameters
   * “Remote keys” table will be verified to make sure the table has desired “Global and Consumer IDs”

Note: All the above steps, except for the 1st step, have to be performed for ‘Site’ as well (For ‘Site’)

**Assumptions:**

* + Dependency on Boomi Team to verify log files. Assuming availability of Dev team throughout Dry run and Formal run testing
  + Relevant WSDL and input parameters for each integration point will be provided by Dev team
  + Integration to impact is out of scope for this release

**Test Data:** Create / update test data through external source and MDM UI for validations and verify the same test data flow at each integration point. Use existing data for modifications in few tests

*Environment: Dev for informal testing and QA for formal testing*

The OQ & UAT test specifications shall be created, reviewed and approved before execution in PROTON test management tool and the execution shall be performed/approved & results shall be stored within PROTON.

For this project, all test specifications will be documented in the Proton tool.

User requirements as well as functional requirements will also be loaded in the tool.

Tests will be executed and the results documented in the Proton Tool itself.

All defect/deviation will also be logged and tracked in the tool itself.

After completing the execution of the testing, all evidences will reside in the Proton tool, from test specification, to test execution, to defect lists and even traceability matrix.

All team members involved in the testing, in Proton shall be trained on the tool.

Informal testing will be done in the development environment.

All teams need to agree on the usage of the test data in that any testing will naturally alter the test data files therefore coordination is essential.

All documented testing will be done in the QA environment.