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Cloud Native Data Solutions

Test Strategy Document

**Author : Prasanth Gajjala/Kushal Venkatesh/Amulya Patchipulusu**

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**DOCUMENT HISTORY**

|  |  |  |
| --- | --- | --- |
| **Date** | **New version no.** | **Summary of changes** |
| 01/04/2023 | 1.0 | Initial draft based on the Business Case and Use Cases |
| 01/16/2023 | 1.1 | Updates done after discussion with business |
| 01/20/2023 | 1.2 | D&A Testing Strategy is included |

**DISTRIBUTION OF FINAL DOCUMENT**

**The following people are designated recipients of the final version of this document:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Department** | **High Level Impact** | **RACI** |
| Dave Comella | VP and CIO | Business Sponsor | I |
| Tracy McPhillips | Dir Data Warehousing, Informatics/IT | Business Owner | A, C |
| Robert Clark | Manager Enterprise Data | Business Lead | R |
| Lokesh Pant | Director Enterprise Analytics | Data Governance | I |
| John Auger | Mng Dir Enterprise Arch & Cloud Strategy | Enterprise Cloud Ownership | R |
| Fred Webster | Director Information Assurance / Information Security | Consulted for impact on information security of the organization | C |
| Jason Smallwood | Enterprise Cloud Architect | Solution Architect and Cloud Architect | R |
| Tracey Heneghen | Enterprise Architect | SME | R |
| Lauren Chiaradio | Enterprise Project Management Office (EPMO) | Project Portfolio Manager | I |
| Lei Cheng | Enterprise Analytics | Data Scientist | R |
| Guruprasad Ramachandra | Data Analytics | Technical Architect | R |
| Sunil Rangineni | Data Analytics | Technical Architect | R |
| Jasneet Kaur | ADM | Technical Lead | R |
| Joshua Myers | Financial Analyst | Financial Planning | R |
| Andrew Chalmers | Business Planning | Analyst | R |
| Johnathan Robadue | Finance Analytics | Analyst | R |
| Sholeh Ghedari | Enterprise Analytics | Analyst | R |
| Sheila Haley | Finance Analytics | Manager | R |

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# 

# 1.0 Introduction

The purpose of this document is to document the high-level testing strategy for SIT/ UAT Testing for the project: Cloud Native Data.

In the current state, BCBSRI data assets were migrated to the Microsoft Azure cloud in a lift and shift fashion, but no optimization has yet taken place.

Creating and implementing a long-term data hub will provide the foundation for storing and serving enterprise data by acting as a single logical repository for current and future operational and analytic use cases. Migrating to a Centralized Cloud Hub will enable a holistic view of data with stability and speed, enhanced business intelligence, timely access to data and enhanced quality with high data security.

Test Strategy Document

This Test Strategy document represents the high-level approach and understanding required for testing the following for Cloud Native Data project.

This document defines the objectives and scope of testing for the Cloud Native Data. It identifies the risks, assumptions, issues, test environment planning and types of testing to be performed.

This project will be deployed in Test Major/Minor depending on the Testing environment. All code-impacted applications and non-code impacted applications will be tested as part of SIT/UAT Testing. Regression testing will be performed in Test major.

Testing Scope

The overall purpose of SIT/UAT testing is to ensure that all components of this project function as expected. However, both the business requirements and technical specifications will be used for the development of test scenarios and scripts.

The Cloud Native Data Project Team, QA, and Business representatives will agree to the type and level of testing effort and support to be provided by each group. QA will provide the testing standards and templates to the teams for planning and documenting the test execution.

SIT/UAT testing will validate the structure, format, and data in the tables according to the mapping document for

* Financial Claim Mart (Analytic MLR Mart)
* Member Mart (On System and Out of System)
* UM CM Data Mart

EDR database to be created on snowflake and the data is loaded into snowflake be creating all the various data marts including UM CM Data Mart, Member Mart, and Financial Claim Mart (Analytic MLR Mart).

D&A Testing Team is responsible for performing the SIT/UAT testing for below Components.

* Foundation Layer
* Omni Channel
* Medicare Advantage Mart
* Trend Analysis Mart (Requirements Phase)

out of scope

Below areas are out of scope for testing:

* Identification or implementation of new BI or reporting tools
* Ingestion of any real-time data
* Migration from old platforms and tools to new platforms and tools
* EDR out of system tables (EDR OOS) (payment / accruals) not in scope (considered in phase 2)
* Reporting is Out of Scope.
* The creation of any reporting, extracts or outbound jobs utilizing the new analytical data store
* Implementation and use of Snowflake unrelated to utilizing it for the new data store
* End User Training for Snowflake

High level test strategy

* Coding
* Building Data marts
* Jobs - TBD

Dev Team

* Validate the databases, tables and data sync from Netezza to Snowflake (Foundation Layer)
* Validate the structure, format, and data in the tables according to the mapping document for below Data Marts
  + - Financial Claim Mart (Analytic MLR Mart)
    - Member Mart (On System and Out of System)
    - UM CM Data` Mart
    - Omni Channel
    - Medicare Advantage Mart
    - Medicare Advantage Mart

QA

* Review and provide feedback on test strategy document
* Review and approve SIT/Regression test cases and test results.
* Provide business functional support during SIT testing.

Business

High level test methodology

* ***Foundation Layer***

Creating Foundation Layer is the first step of Cloud native data initiative project. As part of Foundation layer, we must create Netezza equivalent data model in Snowflake and should sync up data between Netezza and Snowflake.

**Dependencies:**

* **Database and Table structures should be created.**
* **New Jobs should be created in the test Environments.**
* **Environment access should be available to the QA Team.**

**Test Validation:**

* Validate all the Databases (FDA, EDR) and Tables (TB, EVP,STG , FACT, Ref ,Crosswalk)are created in the Snowflake.
* Validate the Table structure in new database.
* Validate the Initial load process (records count, duplicate check, and sample data check).
* Validate the Delta load process to verify that the Correct records are extracted   
  and existing rows are updated, and the new records are inserted.
* Validate Daily Loads, weekly and Monthly Load jobs using the data in SN\_DB\_SYNC\_CONTROL and SN\_TABLE\_SYNC\_CONTROL.
* Batch successful and Failure log should be crated in SN\_BATCH\_AUDIT and SN\_BATCH\_DETAIL\_AUDIT tables.
* Validate that the Views are created for STG and Cert tables.
* Validate the User roles for the views (Role\_A2, Role\_PW, Role\_SP\_X,Role\_XX\_ALL , Role\_XX\_ALL\_X , Role\_X , Role\_DDR ).
* Validate that the Successful, balancing and failure email Notifications are generated and sent to the Support Teams
* ***Analytic MLR Mart***

Commercial MLR includes Individual / commercial / large / small group / self-insured / FEP / Plan 65. The Data Mart will be a central source for claims, premium, & enrollment.

**Dependencies:** Foundation layer should be available in Snowflake with initial load data.

**Test Validation:**

•    Validate the data needed to generate the report is available.  
•    Validate the structure, format, and data in the tables are according to the mapping document.   
•    Perform Count, Duplicate and Primary Key Validations  
•    Validate the History and Delta Load  
•    Validate the generated extract should include only commercial member data.   
•    Validate the lookback period to generate the data extract is past 3 years, plus current year.

* Validate that the Successful, balancing and failure email Notifications are generated and sent to the Support Teams
* ***Member Mart***

Both on system & OOS membership data are needed for the corporate enrollment reporting data mart. (Current and History Marts)

Member Movement is the count of members moving in and out of BCBSRI's Market Segments

**Dependencies:** Foundation layer should be available in Snowflake with initial load data.

Current Data

* Validate the member enrollment information is updated each month.
* Validate the structure, format, and data on the extract is defined based on the mapping document
* Validate the data includes only members from EDR with Count\_month\_num = 1
* Validate the data includes all members on System and OOS at lowest level available.
* Validate the data will be loaded on day 1 from January 2019 to current month.
* Validate each prior month represents the data as initially generated for that month.
* Validate that each month, 1 additional month will be added to be saved and not modified.

History Data

* Validate the history data on the extract is defined based on the mapping document
* Validate the generated extract includes Commercial & Medicare Advantage members.
* Validate the history data will not include OOS Membership.
* Validate the data will be loaded on day 1 for the previous 40 months.
* Validate the ongoing load would count for retro activity

Member Movement

* Validate the data on the extract is displayed per the business defined mapping document
* Validate New member: CONSISTENT\_MEMBER\_ID is present in a MARKET\_SEGMENT for the current month and absent in the prior month.
* Validate Lost member: CONSISTENT\_MEMBER\_ID is absent in a MARKET\_SEGMENT for the current month and present in the prior month.
* Validate the ability to drill down on account / group &/or product family, as it relates to member movement within the market segments.
* Validate for Medicare Advantage, a 'New Account' or 'Lost Account' is represented by GROUP rather than ACCOUNT\_NAME.
* Validate that the Successful, balancing and failure email Notifications are generated and sent to the Support Teams
* ***UM CM Data Mart***:

This addresses the creation of a new Care Management and Utilization Management analytical datastore. The raw MHK SQL DB data needs to be transformed into tables that are optimized for reporting and easily joined to the EDR MEMBER, CLIENT\_CONTRACT\_DETAIL and MEMBER\_ELIGIBILITY tables, among others.

**Dependencies:** Foundation layer should be available in Snowflake with initial load data.

* Validate the creation of the process to transform data and load the new data store.
* Validate the data is loaded daily.
* Determination of security and access
* Implementation of Balancing and Control per the EDR Standards
* Validate the data on the extract is displayed per the business defined mapping document
* Validate that the records that should be excluded from the load are not brought in.
* Validate that the new views are functioning.
* Validate that change capture is fully tested to ensure that it is working properly with SCD-2 fields.
* Validate that the Successful and failure email Notifications are generated and sent to the Support Teams
* ***Omni Channel***:

The creation of the new Omni Channel Subject area data store for the following data area.

* Call Stats Data (only Call and Segment level – VCC data)– Five9 current and Cisco history data
* Salesforce Case and Call Log data (includes all of case type i.e. Closed cases, Open cases and New cases created in SFDC and for all Case Origin) – Salesforce Service Cloud
* Member Portal Registration and Usage Data
* Retail – Integrated Salesforce Cases Data. (Sales & Service)

**Dependencies:**

* **Input files or Production files are available to run the jobs.**
* **Environment access should be available to the QA Team.**
* Foundation layer should be available in Snowflake with initial load data.

**Testing Activities**

* Validate that data/files are received in expected file name, format, and columns.
* Validate the Table Structure, columns, and columns datatype as per the requirements.
* Validate that data is loaded into TB and Fact Tables as per as per transformation logic.
* Validate that tables contain the EDR MEMBER\_ID as a foreign key and member are imputed if not didn’t find a match in EDR
* Validate that the Views are created for all newly created FACT Tables.
* Validate the Change capture process for important data elements.
* Fact tables are created in the Archive and Purge Database and check the logic for the archiving and purging the data on Key Columns.
* Validate Balancing and Control are created to check Duplicate records, Referential integrity issues and Mismatch between source and target record count.
* Validate that the Successful, balancing and failure email Notifications are generated and sent to the Support Teams
* ***Medicare Advantage Mart:***

The creation of the new Medicare advantage mart for the following data area.

* CLAIMDAT - Part B Claims Data File
* MCMD - Medicaid Status Data File
* Monthly Medicare Secondary Payer (MSP) Information Data File
* LIS Eligibility File
* Long-Term Institutionalized (LTI) Resident Report File
* Transaction Reply Daily Activity File
* IEQ File

**Dependencies**:

* **Input files or Production files are available to run the jobs.**

**Testing Activities**

* Validate that data/files are received in expected file name, format, and columns.
* Validate the Table Structure, columns, and columns datatype as per the requirements.
* Validate that data is loaded into TB and Fact Tables as per as per transformation logic.
* Validate Balancing and Control are created to check Duplicate records, Referential integrity issues and Mismatch between source record count and target record count.
* Validate that the Successful, balancing and failure email Notifications are generated and sent to the Support Teams

business testing

* NA

batch process/jobs

* TBD

test major testing activities

This section identifies the Testing Activities conducted by the QA Team on the Test Major Environment.

Complete SIT/UAT Testing on schedule in the Test Minor.

Regression scenarios will be covered in Test major.

Note: Need to discuss with business on what scenarios to be covered as part of regression

Success Criteria

This section identifies the criteria by which the Project team and sponsors will evaluate the testing success of Cloud Native Data project.

* Complete SIT/UAT on schedule with the assumption that test environment is correctly setup and the modified modules installed as scheduled and have been appropriately unit tested by the development team.
* Weekly status report per module will be circulated to communicate the testing progress and issues/risks to Cloud Native Data Project team.
* All test cases and test results are reviewed and approved by business. This is acceptance of all testing deliverables in areas of the Cloud Native Data is accepted and signed-off by the business
* SIT/UAT defects are documented in Quality Center
* Testing results are documented and traceable in Quality Center.
* Low, Medium, High, and Critical development code defects will be fix and closed.

Assumptions

This section lists assumptions identified during the project initiation phase for Cloud Native Data Implementation and the development of the Test Strategy document. Assumptions are facts or statements that are given to be true, regardless of external influences. In many cases, assumptions reiterate what seems to be obvious or highlight decisions that have been made.

* Code deployment on time
* The test environment will simulate the production environment.
* Test estimates will be revised if there is any change in schedule
* All test team members will be trained in applicable applications & workflows prior to assisting with testing activities.
* QA team members will conduct testing in accordance to published test cases.
* Project team members will be available for definition and clarification of requirements.
* Releases will be received as scheduled and with previously identified functionality that has been appropriately unit tested.
* The development team is responsible for the timely fix of the defects, providing ETAs through HP ALM Tool and timely clarification that test team requires to continue testing
* Data mart will be build using EDR guidelines currently in place.
* Control – Standard controls will be in place.
* Naming standards – will be matching EDR (standard naming conventions)
* Meta Data -Business use meta data will be provided by EDR.

risks

* Test Environment – Test Minor & Test major environments shall be used based on the impacted applications.
* Timely receive testing approvals/acceptance from business
* Resource constraints may delay certain project deliverables
* If foundation is not identified and built in a timely manner other project deliverable will be delayed
* Limiting future analytic capabilities.  By not having a new data hub, it will hinder the use of new technology required to support future needs.
* Without this Data Hub foundation, will not be able to build a nimble and composable architecture to support streamlined integrations with clients/partners

dependencies

* All new EDR jobs, run-books should be available and validated before kickoff SIT/UAT.
* Run books to be provided by the development team for any extract validations
* Business team should have access to HP ALM tool to upload the UAT TCs and log defects.
* EDR Batch job dependency which is scheduled.
* Data must exist in EDR.

# 2.0 QA Activities, Inputs and Deliverables

QA Activities

This section identifies the activities for all the testing efforts.

Activities

* Develop the Test Strategy document
* Develop test estimation
* Incorporate testing activities to the project plan
* Define the Test Environment requirements. The test environment will mirror, to the extent possible, a production environment. The Test Lead will monitor the integrity of the testing environment as well as coordinate the use of the test environment.
* Develop test scenarios and scripts and document in Quality Center
* Trace test cases to identified regression scenarios
* Execute test scenarios and scripts. Document the results of the test (pass/fail) in Quality Center
* Document all defects in Quality Center
* Errors will be prioritized based on the severity and impact to the continuation of testing and the criticality of the requirement. As implementation draws near, priority will be based on the impact to implementation. Business, the Test Team Leads and the Project will determine severity.
* The developers will correct errors and produce software releases as agreed upon between Project Team and the QA Team. Any deviation from this will cause delays to testing
* The QA Team will re-execute selected test scenarios and scripts to verify error corrections.
* All documents supporting the execution and validation of test scenarios and scripts will be filed with the QA Team Lead.
* Identify test cases for regression suite required for automation

Inputs

This section lists testing inputs identified during the project that are dependencies on testing activities.

* Project Schedule
* Test Standards and Templates
* Business Requirements
* Software Requirements Specification
* Solution Architect
* Technical Specifications
* SDD/TDD, Data flow diagrams
* Unit Test Results [Email from DEV/TECH Lead to certify the code was unit tested based on requirements and there are no showstoppers defects]
* Technical Assessment sheet from project share site

Deliverables

Deliverables are those items that will be produced at the conclusion of the testing. The following are key deliverables that will be developed in the course of testing:

* Test Schedule – Duration of the SIT, Test Major activities (part of project plan)
* Test Strategy Document
* Test Estimation document
* Test Scenarios and Scripts in Quality Center linked to requirements.
* Test Results & Status (percent complete, pass/fail and defects)
* Business sign-off documentation
* Defect management in Quality Center

test entry/ exit criteria

Entry Criteria

* Code deployment (including run books, if any) communication to be sent to QA team
* System Integration Test environment must be available
* Required application and security access must be available
* Test Cases for System Integration Test are signed off by business within 2 business days.
* Test resources should be available.
* There should not be any open Severity 4 (Critical) and 3 (High) defects from IIT.
* Data set up is complete for test execution
* Application should be functionally stable and available for Performance testing.
* All necessary data and login credentials should be configured in the application.
* Before start of each test execution development team to communicate the changes in the application by a document or email.

Exit Criteria

* 100% test execution in Quality Center
* No open Severity 4 (Critical) and 3 (High) defects should be there while signing off the SIT/UAT
* Acceptable and agreed level of Severity 2 (Medium) and 1 (Low) defects outstanding from SIT/ UAT
* System Integration Test Report and Test Results delivered and sign-off off by business within 2 business days
* Test Results are stored in Quality Center
* Exit report review and signoff by Server and Client core teams
* Exit report sign off from Project Manager

# 3.0 Test Environment and Resources

Test Environment

* Test Minor will be used for SIT Testing
* Code should be deployed in the testing environment and impacted applications should be up and running.
* One EDR flow after the code deployment to check sanity
* The Testing QA teams working on the non-impacted application regression and code impacted SIT/UAT testing should be responsible to create their own data.
* Test Major will be used for Regression Testing.

Timeline by Work stream

Will update the timeline once the tracker is received.

|  |  |  |
| --- | --- | --- |
| **S. No** | **Activity** | **Milestone Date** |
| 1 | Testing Plan Complete (Test Strategy) | 01/23/2023 |
| 2 | Test Cases |  |
| 3 | Testing Start Date |  |
| 4 | Testing End Date |  |
| 5 | Go-live | TBD |

Test Data

This section will cover the details on the Test data requirements and expected support from teams to commence testing.

* All QA SIT teams should prepare their own test data for SIT testing.

Test Tools

* HP ALM for Test and Defect Management
* Compare IT [ Extract Validation]
* Snowflake
* SQL DBX [EDR]

Test Resources

This section describes the resources details: -

|  |  |  |
| --- | --- | --- |
| Role | Name of the Resource(s) | Comments |
| QA Manager | 1. Rishi Mehta [Onshore] 2. Lokesh Arora [Offshore] |  |
| QA Lead | 1. Prasanth Gajjala [Onshore] 2. Amulya Patchipulusu [Onshore] |  |
| Tester | 1. Kushal Venkatesh [Onshore] 2. Swetha Patil [Offshore] 3. Madhuri Aluru [Offshore] |  |

# *4.0 Project Schedule*

This section contains the high-level schedule of activities for the Cloud Native Data and lists project key deliverables in which testing is dependent if known.

High level schedule is received and updated accordingly:

Test Cases to be created and approved

Test Execution

Partner testing

# *5.0 Acronyms and Definitions*

|  |  |
| --- | --- |
| **Acronym / Abbreviation Term** | **Description / Definition** |
| BC | Business Case |
| BCBSRI | Blue Cross Blue Shield of Rhode Island |
| BI | Business Intelligence |
| BPO | Business Process and Strategy |
| CBA | Cost Benefit Analysis |
| EDR | Electronic Data Repository |
| ELT | Extract, Load, Transform |
| ETL | Extract, Transform, Load |
| ODBC | Open Database Connectivity |
| POC | Proof of concept |
| SAS | Statistical Analysis System |
| SFTP | Secure File Transfer Protocol |

6.0 Appendices

Business Case

[​Business Case _ Cloud_Native_Data - V1_Approved.docx icon Business Case \_ Cloud\_Native\_Data - V1\_Approved.docx](https://bcbsri.sharepoint.com/sites/CloudNativeDataProject-365/Shared%20Documents/General/Business%20Requirements/Business%20Case%20_%20Cloud_Native_Data%20-%20V1_Approved.docx?d=wfdc09094224f440db08a547c83b7756d&csf=1&web=1&e=VzSJBD)

Use Case

​Use Case Member Mart_Cloud_Native_Data_V1.0.docx icon [Use Case Analytic MLR\_Mart\_Cloud\_Native\_Data\_V1.0.docx](https://bcbsri.sharepoint.com/:w:/r/sites/CloudNativeDataProject-365/_layouts/15/Doc.aspx?sourcedoc=%7B44B0728F-A0EA-455A-A0AB-3A069297E046%7D&file=Use%20Case%20Analytic%20MLR_Mart_Cloud_Native_Data_V1.0.docx&action=default&mobileredirect=true)

[​Use Case Member Mart_Cloud_Native_Data_V1.0.docx icon Use Case Member Mart\_Cloud\_Native\_Data\_V1.0.docx](https://bcbsri.sharepoint.com/sites/CloudNativeDataProject-365/Shared%20Documents/General/Member%20Mart/Use%20Case%20Member%20Mart_Cloud_Native_Data_V1.0.docx?d=wccdad502708a48969572ff55d680090c&csf=1&web=1&e=igOsox)

[SRS - Case and Utilization Management Supply Side Database-Final for approval.docx](https://bcbsri.sharepoint.com/:w:/r/sites/CloudNativeDataProject-365/_layouts/15/Doc.aspx?sourcedoc=%7BB4531FBA-C2FB-494E-8856-8E0A0CB062D3%7D&file=SRS%20-%20Case%20and%20Utilization%20Management%20Supply%20Side%20Database-Final%20for%20approval.docx&action=default&mobileredirect=true)

Cloud Native Final QA



7.0 Document Feedback

This section contains the required signatures for feedback on the Test Strategy document.

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Tracy McPhillips  Date

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Robert Clark  Date

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Lokesh Arora Date

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Rishi Mehta Date