***Department of Veterans Affairs***

**Office of Information & Technology (OIT)**

**Benefits Claims Decision Support System**

Tests, Test Scripts, Test Data

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**Department of Veterans Affairs**

Version 4.0

Revision History

| Date | Version | Description | Author |
| --- | --- | --- | --- |
| 04/28/16 | 1.0 | Initial Draft | Bhupinder Singh |
| 05/9/16 | 1.1 | BCDSS Test, Test Scripts and Test Data document. – Modified Scope and Background. | Bhupinder Singh |
| 06/23/16 | 2.0 | BCDSS Test, Test Scripts and Test Data document. – Modified date & version. | Bhupinder Singh |
| 07/26/16 | 3.0 | Reformatted Test Scripts – Modified date & version. | Bhupinder Singh |
| 8/18/16 | 4.0 | [Added verification Test scripts for Rater and Modeling agent dashboard.](#_VABCDS_-193_Rater) (Section in Red) | Bhupinder Singh |

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# **Introduction**

## **Purpose**

This document is the compilation of Tests, Test Scripts, and Test Data for Sprints 3 & 4 of the BCDSS system. The purpose of this document is to provide a single resource for testing activities of the team to fulfill the test acceptance criteria of the requirements for this development cycle. If the testing process finds any issue while testing, it will be reported to development team for its remediation. This document is a deliverable for Tests executed to validate Sprints 3 & 4 for development

## 

## **Scope**

The scope of this document covers the Tests that have been created to address the requirements for the Development Cycle 2 (Sprints 3 and 4) of the BCDSS project. The test scripts were executed and the dataset were uploaded in the database to cover the various testing scenarios. The BCDSS Team developed all software and tests through access to anonymized BCDSS and the FTL environments provided by VA. All code was developed using an Agile development methodology; with short and frequent development cycles.

## 

## **Background**

PST has been engaged by VA to design, develop, test and demonstrate an integrated data analytics and modeling system, called the Benefits Claims Decision Support System (BCDSS). The BCDSS system is based on two (2) Predictive Models (for Ear and Knee disability conditions) developed with parameters to support the repository and platform design. The development and design of these models are contingent on the VA’s key data based on historical claims for use with the BCDS platform and the VA provided guidance from results in the Veterans Administration Disability Rating Engineering Notebooks.

# **TEST Script/Test Case Scenarios**

* 1. VABCDS -188 Login Authentication

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC01: BCDS Login Authentication Ref: BCDSS- 001 VABCDS 188 | | | | | |
| Test Case Objective:  To validate & verify the login functionality of the BCDS application to ensure only registered users are allowed to login | | | | | |
| Pre-Conditions:  The user has a valid Access Code/ password to access BCDS application with privileges to perform tasks. | | | | | |
| Actors/User Role:  Administrator, Rater and Modeling Agent | | | | | |
| Requirement Tested: VABCDS 188 | | | | | |
| Module or Screen: Benefit Claim Decision Support System Login page Tested by: Date Tested: | | | | | |
| Step  # | **Test Steps Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Enter the BCDSS web address (URL) or Click the BCDSS link to launch the BCDSS initial login screen  Verify that the user is directed to the BCDSS initial Login page | BCDSS Application must launch successfully and login page must appear. | Same as expected |  | Pass |
| 2 | Login into BCDSS with User Name and password for user Rater | User must get logged in successfully as Rater | Same as expected |  | Pass |
| 3 | Verify that an error message will be returned if either the Username or the password cannot be authenticated. | Error message returns if user enters invalid User name and password. | Same as expected |  | Pass |
| 4 | Verify that the authentication process has verified the users Access Level. | Application shows user logged in name, and role on the screen and it can access as per role’s privileges (Read Write or Edit) | Same as expected |  | Pass |
| 5 | Verify that the application dashboard is displayed a main BCDSS screen after authentication is complete. | Application opens dashboard for username logged in | Same as expected |  | Pass |
| 6 | Verify that there is a “Log out button “to log out from application | Application logs out user when log out button is clicked. | Same as expected |  | Pass |
| 7 | Repeat above steps for other users Modeling Agent and Administrator roles. |  | Same as expected |  | Pass |

* 1. VABCDS -193 Rater Dashboard

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC-02: Ref: BCDSS-002 VABCDS 193 | | | | | |
| Test Case Objective:  Validate the system has ability to have a dashboard, so that users can access all claim information, choose models, review and generate reports, and perform ratings against | | | | | |
| Pre-Conditions:  The Rater is successfully logged into the BCDSS system. | | | | | |
| Actors/User Role:  Rater | | | | | |
| Requirements Tested #: VABCDS 193 | | | | | |
| Module or Screen: BCDSS Dashboard Tested by: Date Tested: | | | | | |
| Step# | **Test Steps Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Enter the BCDSS web address (URL) or Click the BCDSS link to launch the BCDSS initial login screen  Verify that the user is directed to the BCDSS initial Login page | BCDSS Application must launch successfully | BCDSS Application is launched successfully |  | Pass |
| 2 | As user "Rater” log into BCDS application with authorized "user id" and "password". | The log in must be successful and System must open Rater’s Dashboard. | Rater Dashboard opens up |  | Pass |
| 3 | Verify that after successfully logging as rater, system shows Rater’s dashboard. | Rater Dashboard must show up on screen | Rater Dashboard shows up |  | Pass |
| 4 | Verify that system displays Username login (Rater’s) credential | System must show Rater’s  login credentials | Rater Dashboard does not show Rater’s log in credentials |  |  |
| 5 | Verify that dashboard shows list of claims and various models applicable with claims | Dashboard must show list of claims and various models applicable with claims | List of claims and their relevant model show up |  | Pass |
| 6 | Verify that user can choose models | System must let user choose any models | Same as expected |  | Pass |
| 7 | Verify that Rater can review models | Rater must be able to review models with review option. | Same as expected |  | Pass |
| 8 | Verify that Rater can generate report | Rater must be able to generate report with report option | Same as expected |  | Pass |
| 9 | Verify that Rater is able to access Claims and Contentions | Rater must be able to access claims and Contentions | Same as expected |  | Pass |

* 1. VABCDS -192 Modeling Agent Access to Dashboard

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC03: Ref: BCDSS-003 VABCDS 192 | | | | | |
| Test Case Objective:  To validate & verify Modeling Agent access to Dashboard  . | | | | | |
| Pre-Conditions:  The Modeling Agent is successfully logged into the BCDS system. | | | | | |
| Actors/User Role: Modeling Agent | | | | | |
| Requirements Tested #: VABCDS 192 - (Reports not tested) | | | | | |
| Module or Screen: Tested by: Date Tested: | | | | | |
| Step  # | **Test Steps Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Open BCDS application |  |  |  |  |
| 2 | As user "Modeling Agent” log into BCDS application with authorized "user id" and "password". | The log in must be successful and System must open Modeling Agent’s Dashboard. | System opens Modeling Agent Dashboard |  | Pass |
| 3 | Verify that after successfully logging as Modeling Agent, system shows Modeling Agent’s dashboard. | Modeling agent Dashboard must show up on screen | Same as expected |  | Pass |
| 4 | Verify that system displays userid login (Modeling agent’s) credential | System must show Modeling agent’s  login credentials | Same as expected |  | Pass |
| 5 | Verify that dashboard shows list of claims and various models applicable with claims | Dashboard must show list of claims and various models applicable with claims | Same as expected |  | Pass |
| 6 | Verify that user can choose models | System must let user choose any models | Same as expected |  | Pass |
| 7 | Verify that Modeling agent can review models | Modeling agent must be able to review models with review option. | Same as expected |  | Pass |
| 8 | Verify that “Modeling Agent”, can create, update, delete and review predictive models and review the progress of the processed claims | Modeling agent is able to create, update, delete and review predictive models and review the progress of the processed claims | Same as expected |  | Pass |
| 9 | Verify that Modeling Agent is able to view and access the necessary fields required to review the progress of the processed claims | Modeling Agent is able to view and access the necessary fields required to review the progress of the processed claims | Same as expected |  | Pass |
| 10 | Verify that Modeling agent can generate report | Modeling agent must be able to generate report with report option |  | Reports not a part of this release |  |
| 11 | Verify that Modeling agent can perform ratings against models | System must let Modeling agent perform rating against models |  |  |  |
|  |  |  |  |  |  |
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* 1. VABCDS -194 Ability to Retrieve Claim

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC04: Ability to Retrieve claim – Modeling Agent /Rater | | | | | |
| Test Case Objective:  To verify & validate ability to retrieve claims | | | | | |
| Pre-Conditions:  User’s complete profile data with BCDSS information exist in the system. | | | | | |
| Actors/User Role:  Modeling Agent /Rater | | | | | |
| Requirements Tested #: VABCDS 194 ( Yet to be tested steps 5,6,7 &9)  5.2.1.3 | | | | | |
| Module or Screen: Display a Patient BCDSS information Tested by: Date Tested: | | | | | |
| Step  # | **Test Steps Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Open BCDS application |  |  |  |  |
| 2 | As user "Rater” log into BCDS application with authorized "user id" and "password". | The log in must be successful and System must open Rater’s Dashboard. |  |  | Pass |
| 3 | Verify that after successfully logging as rater, system shows Rater’s dashboard. | Rater Dashboard must show up on screen |  |  | Pass |
| 4 | Verify that system displays userid login (Rater’s) credential | System must show Rater’s  login credentials |  |  | Pass |
| 5 | Verify that dashboard shows list of claims and various models applicable with claims | Dashboard must show list of claims and various models applicable with claims |  |  |  |
| 6 | Verify that user can choose any claim and select is relevant model and retrieve it | System must let user retrieve claims |  |  |  |
| 7 | Click Log out button | User Rater is logged out |  |  |  |
| 8 | Log in as modeler (modeling agent role) | The log in must be successful and System must open Modeler’s Dashboard. |  |  | Pass |
| 9 | Repeat Steps 1-7 for user modeler | System must let user retrieve claims |  |  |  |

* 1. VABCDS -354 & 367 Verification of logged in user credentials and ability to Retrieve Claim

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC05: Dashboard – Modeling Agent successfully logged, See their user id and dashboard | | | | | |
| Test Case Objective: Verify Modeling agent logs in successfully and he see her user credential – “User name” logged in  Verify Rater logs in successfully and he see her user credential – “User name” logged in  To verify & validate, log in, view user name and log out option available to log out | | | | | |
| Pre-Conditions:  BCDSS system must be available with modeling agent role set up | | | | | |
| Actors/User Role:  Modeling agent & Rater | | | | | |
| Requirements Tested #: VABCDS 354 and 367 | | | | | |
| Module or Screen: Display a Modeling Agent’s credential BCDSS information Tested by: Date Tested: | | | | | |
| Step  # | **Test Steps Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  Fail |
| 1 | Open BCDS application |  |  |  |  |
| 2 | As user “Modeling Agent” log into BCDS application with authorized Userid and Modeler and password as “Modeler” | The log in must be successful and System must open Modeling Agent Dashboard | Opens Modeling Agent dashboard |  | Pass |
| 3 | Verify that after successfully logging as Modeling Agent, system shows Modeling Agent’s dashboard. | Modeling agent Dashboard must show up on screen | Same as expected |  | Pass |
| 4 | Verify that system displays userid login (Modeler) credential | System must show Modeling agent’s  login credentials | Same as expected |  | Pass |
| 5 | Verify that there is a log out button – and Modeling agent can log out using that button | System must log out successfully | Same as expected |  | Pass |
| 6 | Verify above 1-6 steps for user “RATER” | System must log Rater successfully and show his credential user name “RATER”. Also he has option to log out | Same as expected |  | Pass |

* 1. VABCDS -395 to view all items on the Dashboard

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC06 – Verification of dashboard | | | | | |
| Test Case Objective: Verify that Rater and Modeling Agent log in can view all items at dashboard as reported in defect # 463-465  5.2.1.3 | | | | | |
| Pre-Conditions:  BCDSS system must be available with rater & modeling agent role set up | | | | | |
| Actors/User Role: Modeling agent & Rater | | | | | |
| Requirements Tested #: VABCDS 395, Defect verification for VABCD 463,464 and 465  Refer JIRA TC 219,220 | | | | | |
| Module or Screen: Dashboard  Tested by: System Tester Date Tested:08/17/16 | | | | | |
| Step  # | **Test Steps Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Open BCDS application |  |  |  |  |
| 2 | As user "Rater” log into BCDS application with authorized "user id" and "password". | The log in must be successful and System must open Rater’s Dashboard. | Log in is successful |  | Pass |
| 3 | Verify that after successfully logging as rater, system shows Rater’s dashboard. | Rater Dashboard must show up on screen | Dashboard shows up on screen. |  | Pass |
| 4 | Verify that system displays userid login (Rater’s) credential | System must show Rater’s  login credentials | System shows username logged |  | Pass |
| 5 | Verify that dashboard has following items  Per Requirement/wireframe    Following items are present after rater/modeling agent successfully logs in  1. Warning message 2. Message that "This is non production environment not current data". 3. Should be claim ID not claim number  4. should be model/contentions not "contentions" only.  5. Last Model 6. Select check box option. 7. Should be "Reset" not "Clear"  8. Should be “Select Model" not process | Following items are present after rater/modeling agent successfully logs in  1. Warning message 2. Message that "This is non production environment not current data". 3. Should be claim ID not claim number  4. should be model/contentions not "contentions" only.  5. Last Model 6. Select check box option. 7. Should be "Reset" not "Clear"  8. Should be " Select Model" not process |  |  | Fail  except “Last Model” missing  Bug #463 |
| 6 | The following labels are present on bottom left side of screen  “Version, environment and Server details”.  The following labels are present on bottom right side of screen  “Current date/time stamp” | The following labels must be present on bottom left side of screen  Version, environment and Server details.  The following labels must be present on bottom right side of screen  “Current date/time stamp |  |  | Pass |
| 7 | Verify that the logged in screen does have 3 tabs per requirements  Dashboard/Results/Reports | The Following Tabs  Dashboard/Result/Report are displayed on the screen |  | Missing tabs  Dashboard/Results/Reports | Fail Created Bug # 465 |
| 8 | Repeat all steps above using log in as “Modeler” (modeling agent) | All the results would be similar as Rater except Modelling agent shall have 2 addition tabs to Manage Models and Edit Models. |  |  | Pass all except  Tabs missing |

# **Requirements Mapping**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Package | REQ # | Requirements | Source | Test Case# | Test Status / Comments |
| BCDS version 1.0 | 188 | Authentication of log ins |  | 01 | Completed |
| 193 | Rater’s access to Dashboard |  | 02 | Completed |
| 192 | Modeling Agent’s access to Dashboard |  | 03 | Completed |
| 194 | Ability to retrieve claims |  | 04 | Pending |
| 354 & 367 | Verification of logged in user credentials |  | 05 | Completed |
| 395 | Viewing of all items on dashboard |  | 06 | Completed, but few items need re-verification. |
|  |  |  |  |  |  |

# **Test Data**

This section will have a set of data created for testing the prototype for the Benefits Claim Decision Support System (BCDSS) to verify and validate all requirements. Test data would contain a sample of every category of valid data as well as many invalid conditions as possible. Currently system is pointed to following Database for testing records.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BCDSS Test Data Details | | | | |
| Data Base | **Server** | **Instance** | **Port** |  |
| DB: DEV. | BCDSS, Server: | IBCDS408, | Port: 1521 |  |

# **Approval Signatures**

This section is used to document the initial approval of Benefits Claim Decision Support System (BCDSS) Tests, test scripts and Test Data and subsequent updates and modifications of this document.

All members of the governing Management Team are required to sign:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signed: Date: