***Department of Veterans Affairs***

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

**Benefits Claims Decision Support System**

Tests, Test Scripts, Test Data

****

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Version 9.0

Revision History

| Date | Version | Description | Author |
| --- | --- | --- | --- |
| 1/17/17 | 9.0 | Added [Story 646](#_VABCDS–646_Verify_Knee) Knee aggregate contention and decision calculator & [Story 736](#_VABCDS–646_Verify_Knee) Calculation validation | Bhupinder Singh |
| 12/18/16 | 8.0 | Added [Story 199](#_VABCDS–199_View_Predicted) View Predicated Results of the Processed Contentions. | Bhupinder Singh |
| 11/18/16 | 7.0 | Added [Story 692](#_VABCDS–692__) Testing of redesigned navigation menu for rater and modeling agent.  Added [Story 691](#_VABCDS–691__) Pagination of claims  Added [Story 372](#_VABCDS–_372_) Advance Search | Bhupinder Singh |
| 10/18/16 | 6.0 | Added [SOAP UI Mock Service Test Script](#_BCDSS_Soap_UI) (section 2.10) in red | Bhupinder Singh |
| 9/16/16 | 5.0 | Added verification BCDSS Test scripts for Sprints 11. | Bhupinder Singh |
| 8/18/16 | 4.0 | [Added verification Test scripts for Rater and Modeling agent dashboard.](#_VABCDS_-193_Rater) | Bhupinder Singh |
| 07/26/16 | 3.0 | Reformatted Test Scripts – Modified date & version. | Bhupinder Singh |
| 06/23/16 | 2.0 | BCDSS Test, Test Scripts and Test Data document. – Modified date & version. | Bhupinder Singh |
| 05/9/16 | 1.1 | BCDSS Test, Test Scripts and Test Data document. – Modified Scope and Background. | Bhupinder Singh |
| 04/28/16 | 1.0 | Initial Draft | Bhupinder Singh |

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# Introduction

## Purpose

This document is the compilation of Tests, Test Scripts, and Test Data for the Benefits Claims Decision Support System (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 BCDSS development. If the testing process finds any issue while testing, it will be reported to the development team for remediation. This document is a deliverable for Tests executed to validate development.

## Scope

The scope of this document covers the Tests that have been created to address the requirements for the development of the BCDSS software. The test scripts were executed and the dataset were uploaded to the database to cover the various testing scenarios. The BCDSS Team has been developing all software and tests through access to anonymized BCDSS and the FTL environments provided by the Department of Veteran Affairs (VA). All code is being developed using an Agile development methodology with short and frequent development cycles.

## Background

ProSphere Tek (PST) has been engaged by VA to design, develop, test and demonstrate an integrated data analytics and modeling system called the BCDSS. The BCDSS system is based on two 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 BCDSS platform and the VA-provided guidance from results in the Veterans Administration Disability Rating Engineering Notebooks.

# TEST Script/Test Case Scenarios

## VABCDS-188 Login Authentication

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC01: BCDSS Login Authentication Ref: BCDSS- 001 VABCDS 188 | | | | | |
| Test Case Objective: To validate and verify the login functionality of the BCDSS application to ensure only registered users are allowed to login | | | | | |
| Pre-Conditions: The user has a valid Access Code/password to access BCDSS application with privileges to perform tasks. | | | | | |
| Actors/User Role: Administrator, Rater and Modeling Agent | | | | | |
| Requirement Tested: VABCDS 188 | | | | | |
| Module or Screen: Benefits Claims Decision Support System Login page  Tested by:  Date Tested: | | | | | |
| Step  # | **Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Enter the BCDSS web address (URL) or click the BCDSS link to access 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 User Name 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 user’s Access Level. | Application shows logged-in User 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 |

## 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# | **Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Enter the BCDSS web address (URL) or click the BCDSS link to access the BCDSS initial login screen.  Verify that the user is directed to the BCDSS initial login screen. | BCDSS Application must launch successfully. | BCDSS Application is launched successfully. |  | Pass |
| 2 | Log into BCDSS application as Rater with authorized user ID and password. | The login must be successful and System must open Rater’s Dashboard. | Rater Dashboard opens up. |  | Pass |
| 3 | Verify that after successfully logging in as rater, system shows Rater’s dashboard. | Rater Dashboard must show up on screen. | Rater Dashboard shows up. |  | Pass |
| 4 | Verify that system displays User Name login (Rater’s) credential. | System must show Rater’s login credentials. | Rater Dashboard does not show Rater’s login 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 |

## VABCDS-192 Modeling Agent Access to Dashboard

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC03: Ref: BCDSS-003 VABCDS 192 | | | | | |
| Test Case Objective: To validate and verify Modeling Agent access to Dashboard  . | | | | | |
| Pre-Conditions: The Modeling Agent is successfully logged into the BCDSS. | | | | | |
| Actors/User Role: Modeling Agent | | | | | |
| Requirements Tested #: VABCDS 192 - (Reports not tested) | | | | | |
| Module or Screen:  Tested by:  Date Tested: | | | | | |
| Step  # | **Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Open BCDSS application. |  |  |  |  |
| 2 | Log into BCDSS application as Modeling Agent with authorized user ID and password. | The login must be successful and System must open Modeling Agent’s Dashboard. | System opens Modeling Agent Dashboard. |  | Pass |
| 3 | Verify that after successfully logging in as Modeling Agent, system shows Modeling Agent’s Dashboard. | Modeling Agent Dashboard must be displayed. | Same as expected |  | Pass |
| 4 | Verify that system displays user ID 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. |  |  |  |

## VABCDS-194 Ability to Retrieve Claim

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC04: Ability to Retrieve claim – Modeling Agent /Rater | | | | | |
| Test Case Objective: To verify and validate the capability to retrieve claims. | | | | | |
| Pre-Conditions: User’s complete profile data with BCDSS information exists 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’s BCDSS information  Tested by:  Date Tested: | | | | | |
| Step  # | **Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Open BCDSS application. |  |  |  |  |
| 2 | Log into BCDSS application as Rater with authorized user ID and password. | The login 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 user ID 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. |  |  | Pass |
| 6 | Verify that user can choose any claim and select is relevant model and retrieve it. | System must let user retrieve claims. |  |  | Pass |
| 7 | Click **Log out** button. | User Rater is logged out. |  |  |  |
| 8 | Login as modeler (Modeling Agent role). | The login 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. |  |  | Pass |

## **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 or she sees the correct user credential—User Name—logged in.  Verify Rater logs in successfully and he see her user credential—User Name—logged in.  To verify and validate, login, 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  # | **Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  Fail |
| 1 | Open BCDSS application. |  |  |  |  |
| 2 | Log into BCDSS application as Modeling Agent with authorized User ID and password. | The login must be successful and System must open Modeling Agent Dashboard. | Opens Modeling Agent Dashboard. |  | Pass |
| 3 | Verify that after successfully logging in as Modeling Agent, system shows Modeling Agent’s dashboard. | Modeling Agent Dashboard must be displayed. | Same as expected |  | Pass |
| 4 | Verify that system displays logged in user ID (Modeler) credential. | System must display 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 steps 1-6 above for user Rater. | Rater must login to System successfully and have his credential user name, “Rater”, displayed. Also, Rater has option to log out. | Same as expected |  | Pass |

## 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 to JIRA TC 219,220 | | | | | |
| Module or Screen: Dashboard  Tested by:  System Tester  Date Tested: 08/17/16 | | | | | |
| Step  # | **Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Open BCDSS application. |  |  |  |  |
| 2 | As user "Rater”, log into BCDSS application with authorized user ID and password. | The login must be successful and System must display Rater’s Dashboard. | Log in is successful |  | Pass |
| 3 | Verify that after successfully logging in as rater, system shows Rater’s dashboard. | Rater Dashboard must be displayed. | Dashboard displays. |  | Pass |
| 4 | Verify that system displays user ID 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, the following items are present after rater/modeling agent successfully logs in:   * Warning message * Message that "This is non-production environment not current data". * Should be claim ID not claim number * Should be model/contentions not "contentions" only * Last Model * Select check box option. * Should be "Reset" not "Clear" * Should be “Select Model" not process | Following items are present after rater/modeling agent successfully logs in:   * Warning message * Message that "This is non-production environment not current data". * Should be claim ID not claim number * Should be model/contentions not "contentions" only * Last Model * Select check box option. * Should be "Reset" not "Clear" * Should be " Select Model" not process |  |  | Pass |
| 6 | The following labels are present on bottom-left of screen:   * Version * Environment * Server details   The following labels are present on bottom-right of screen:   * Current date/time stamp | The following labels must be present on bottom left side of screen   * Version * Environment * 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 has three tabs per requirements:   * Dashboard * Results * Reports | The following tabs are displayed:   * Dashboard * Results * Report |  | Missing tabs:  Dashboard/Results/Reports | Pass |
| 8 | Repeat all steps above after logging in as Modeler (Modeling Agent). | All the results would be similar to Rater except Modeling agent shall have two additional tabs:   * Manage Models * Edit Models |  |  | Pass |

## VABCDS-176 Admin Login Verification of Edit Users

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC07 – Admin Log in - Verification of “edit users” functionality | | | | | |
| Test Case Objective: Verify that when Administrator logs in, he has capability to edit users.  5.2.1.2 | | | | | |
| Pre-Conditions: BCDSS must be available with Administrator role set up | | | | | |
| Actors/User Role: Modeling agent and Rater | | | | | |
| Requirements Tested #: VABCDS 176, Defect verification for VABCD 443,580,563  Refer to JIRA TC 216 | | | | | |
| Module or Screen: Dashboard  Tested by: System Tester  Date Tested:09/14/16 | | | | | |
| Step  # | **Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Open BCDSS application. |  |  |  |  |
| 2 | Log into BCDSS application as Admin with authorized user ID and password. | The login must be successful and System must display Admin’s Dashboard. | Log in is successful and System must display Admin’s Dashboard. |  | Pass |
| 3 | Verify that after successfully logging as Admin, system displays Admin’s Dashboard. | Admin Dashboard must display. | Admin Dashboard displays. |  | Pass |
| 4 | Verify that system displays user ID logged in (Admin’s) credential. | System must display Admin’s login credentials. | System displays Admin’s login credentials. |  | Pass |
| 5 | Verify that Admin has option to edit user account and can access any user for editing his profile. | Admin is able to access user account for editing. | Admin accesses user account for editing. |  | Pass |
| 6 | Verify that Admin can edit Rater and Modeler accounts and set their new respective user IDs passwords, email, and save. | Admin can successfully access user profile and edit it; as well as set new user IDs and passwords, emails, and saves. | Admin accesses user profile and edits it and sets new user ID, password, and email. |  | Pass |
| 7 | Admin has option to log out. | Admin has option to log out. | There is log out link available. |  | Pass |
| 8 | Verify Admin can log out by clicking **Log ou**t button. | Admin logs out. | Successfully logs out. |  | Pass |
| 9 | Login with newly edited user IDs for Rater, Admin, and Modeler with their respective user IDs and password. | System must login these users successfully. | Logs in these users successfully. |  | Pass |
| 10 | Verify that logged in user receives an email about changes to his account profile (user ID, password, role, and email). |  |  |  | This functionality was not tested. |

## VABCDS–175 Admin Login Add Users

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC08 – Admin Log in - Verification that administrator can add new users based upon their roles | | | | | |
| Test Case Objective: Verify that Administrator can add new users.  5.2.1.2 | | | | | |
| Pre-Conditions:  BCDSS must be available with Administrator role set up | | | | | |
| Actors/User Role: Modeling Agent and Rater | | | | | |
| Requirements Tested #: VABCDS 175, Defect verification for VABCD 442  Refer to JIRA TC 216 | | | | | |
| Module or Screen: Dashboard  Tested by: System Tester  Date Tested:09/14/16 | | | | | |
| Step  # | **Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Open BCDSS application. |  |  |  |  |
| 2 | Log into BCDSS application as Admin with authorized user ID and password. | The login must be successful and System must display Admin’s Dashboard. | Login is successful and System must display Admin’s Dashboard. |  | Pass |
| 3 | Verify that after successfully logging in as Admin, system shows Admin’s Dashboard. | Admin Dashboard must display. | Admin Dashboard displays. |  | Pass |
| 4 | Verify that system displays logged in user ID (Admin’s) credential. | System must show Admin’s login credentials. | System shows Admin’s login credentials. |  | Pass |
| 5 | Verify that Admin has the option to create account. | There is a **Create Account** button. | **Create Account** button is available. |  | Pass |
| 6 | Verify that Admin can create a Rater or Modeler account and set their respective user ID and password role, then email the user after clicking **Create Account.** | Admin can enter new user ID, password, and role to create a new account. | Admin enters new user ID, password, and role to create a new account. |  | Pass |
| 7 | Verify that after account is created, admin can save by clicking **Save** button | Admin should save newly created account. | Admin saves newly created account. |  | Pass |
| 8 | Admin has option to log out. | Admin logs out when **Log out** button is clicked. | Admin logs out successfully when **Log out** button is clicked. |  | Pass |
| 9 | Log in with newly created user ID for Rater and Modeler with their respective user ID and password. | System must login these users successfully. | System must login these users successfully. |  | Pass |
| 10 | Verify that there is an email confirmation about account created with user ID, role, and password. |  |  |  | (this function is not tested) |
| 11 | Verify that each new account created can perform tasks as per role. | Newly created account is able to perform tasks as per role. | Newly created account is able to perform tasks as per role successfully. |  | Pass |

## VABCDS–543 Session Termination

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC09 – Admin/Rater/Modeler log in - Session Termination | | | | | |
| Test Case Objective: Verify that system terminates session after 60 minutes of inactivity.  5.2.1.2 | | | | | |
| Pre-Conditions: BCDSS must be available with Admin, Rater & Modeler log in set up | | | | | |
| Actors/User Role: Admin, Rater and Modeler | | | | | |
| Requirements Tested #: VABCDS 175, Defect verification for VABCDS 443 | | | | | |
| Module or Screen: Dashboard  Tested by: System Tester  Date Tested:09/15/16 | | | | | |
| Step  # | **Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Open BCDSS application. |  |  |  |  |
| 2 | Log into BCDSS application as Admin with authorized user ID and password. | The login must be successful and System must display Admin’s Dashboard. | Login is successful and System must display Admin’s Dashboard. |  | Pass |
| 3 | Verify that after successfully logging in as rater, system displays Admin’s dashboard. | Admin Dashboard must display. | Admin Dashboard displays. |  | Pass |
| 4 | Verify that system displays logged in user ID (Admin’s) credential. | System must display Admin’s login credentials. | System displays Admin’s login credentials. |  |  |
| 5 | Keep system inactive for 60 minutes and verify that the session terminates. | System must terminate session after 60 minutes of inactivity and it should display the login page. | System terminates session after 60 minutes of inactivity and displays the login page. |  | Pass |
| 6 | Verify that system displays a prompt warning that your session is going to be terminated soon. (This message should be on screen for two minutes, before it terminates. | System displays a prompt warning that current session is going to be terminated soon. (This message should be on screen for two minutes. | System displays warning prompt that current session will terminate in two minutes. |  | Pass |
| 7 | Login to system again with Admin login and password. | User must login successfully and system displays page which was terminated due to inactivity. It should also login back to admin dashboard. | System logs in successfully and displays page which was terminated due to inactivity. |  | Pass |
| 8 | Repeat steps 1–7 for various login roles, like Rater, Modeler, etc. and verify system terminates session after it is inactive for 60 minutes and login screen comes back.  Logging in again takes user to screen he was viewing when his session was terminated. | System must terminate session for the user logged in if session is inactive for 60 minutes. Logging in again takes the user to the screen where his session was terminated. | System terminates session for the user logged in if session is inactive for 60 minutes. Logging in again takes user to screen where his session was terminated. |  | Pass |

## BCDSS Soap UI Mock Service –

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| TC10 – Downloading SOAP UI and executing mock service in FTL environment | | | | | | |
| Test Case Objective: Verify that system responds with response details once request is created and executed for different modules 5.2.1.3 | | | | | | |
| Pre-Conditions: FTL must have been set up. Soap UI must be downloaded and accessed. BCDSS must be available (Deployed in FTL) | | | | | | |
| Actors/User Role: General | | | | | | |
| Requirements Tested #: Validation that system has ability to mock service. | | | | | | |
| Module or Screen: Dashboard  Tested by: System Tester  Date Tested: | | | | | | |
| Step  # | **Description** | **Expected Results** | **Actual Results** | | **Comments** | **Pass/**  **Fail** |
| 1 | Log on to FTL server with authorized user ID and password. | FTL desktop must be accessed. | Desktop is accessed |  | | Pass |
| 2 | Click SOAP UI 5.2.1 interface. | SOAP 5.2.1 should open. | SOAP 5.2.1 should opens. |  | | Pass |
| 3 | Create a project for BCDSS. | IT must let user create project. | user creates project. |  | | Pass |
| 4 | Browse and set WSDL. | WSDL must show in URL. | WSDL shows in URL. |  | | Pass |
| 5 | Select box “To create mockup” and save. | System must save mockup project. | System must saves mockup project. |  | | Pass |
| 6 | Verify that correct Port number is entered in WSDL. | Port number must be authenticated. | Port number is authenticated. |  | | Pass |
| 7 | Click BCDS Model Service SOAP and select model to test. | The model must get selected. | The model gets selected. |  | | Pass |
| 8 | Click each request in each model and enter Pattern ID, CDD, Version, number of occurrences, Accuracy, and model type. | System must let user enter Pattern ID, CDD, Version,  Number of Occurrences, Accuracy, and Model type. | System lets user enter Pattern ID, CDD, Version,  Number of Occurrences, Accuracy, and Model type. |  | | Pass |
| 9 | After filling request items, save the project. | Project must get saved. | Project is saved. |  | | Pass |
| 10 | Run the mock up service using “Green Arrow” button. | Service must start after clicking the button. | Service starts after clicking the button. |  | | Pass |
| 11 | Verify response values (these must get filled as per request). | System must display all response values as requested. | System displays all response values as requested. | |  | Pass |

## VABCDS–692 Redesign of Navigation Menu of Rater and Modeling Agent Login

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC11—Admin/Rater/Modeler Login - Session Termination | | | | | |
| Test Case Objective: Verify the redesign of Rater and Modeling Agent menu navigation.  5.2.1.2, 5.2.1.3 | | | | | |
| Pre-Conditions: BCDSS must be available with Rater & Modeler log in set up | | | | | |
| Actors/User Role: Rater and Modeler | | | | | |
| Requirements Tested #: Redesign of Dashboard  Test Case: VABCDS 731 | | | | | |
| Module or Screen: Dashboard  Tested by: System Tester  Date Tested:09/15/16 | | | | | |
| Step  # | **Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Open BCDSS application. |  |  |  |  |
| 2 | Log into BCDSS application as Rater with authorized user ID and password. | The login must be successful and System must display Rater’s Dashboard. | Login is successful and System must display Rater’s Dashboard. |  | Pass |
| 3 | Verify that rater has the following two navigation menu items in the left side navigation bar:   1. Dashboard—should link to the rater's Dashboard page 2. Report—should link to the rater's Report page | The Rater dashboard has the following two links:   * 1. Dashboard—should link to the rater's Dashboard page  1. Report—should link to the rater's Report page | Both of the following links show up:   * 1. Dashboard—links to the rater's Dashboard page   2. Report—links to the rater's Report page |  | Pass |
| 3 | Logout of BCDSS application. |  |  |  | Pass |
| 4 | Go to login screen of BCDSS application. | Login screen displays | Login screen displays |  | Pass |
| 5 | Log into BCDSS application as Modeling Agent with authorized user ID and password. | The login must be successful and System must display Modeling Agent’s Dashboard. | Login is successful and System displays Modeling Agent’s Dashboard. |  | Pass |
| 6 | Verify that Modeling Agent has the following three navigation menu items in the left side navigation bar:   1. Dashboard—should link to the Modeling Agent Dashboard page 2. Models—should link to the Edit Model page 3. Report—should link to the Modeling Agent Report page | Modeling agent screen finds following three links:  Dashboard—should link to the Modeling Agent Dashboard page  Models—should link to the Edit Model page  Report—should link to the Modeling Agent Report page | All three links are on Modeling agent screen:  Dashboard links to the Modeling Agent Dashboard page  Models links to the Edit Model page  Report links to the Modeling Agent Report page |  | Pass |
| 7 | Logout of BCDSS application. |  |  |  | Pass |

## VABCDS–691 Verification of Pagination of dashboard Rater /Modeling Agent Login

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC12 – Admin/Rater/Modeler Login—Session Termination | | | | | |
| Test Case Objective: Verify the pagination of Rater and Modeling Agent menu navigation.  5.2.1.2, 5.2.1.3 | | | | | |
| Pre-Conditions: BCDSS must be available with Rater & Modeler log in set up | | | | | |
| Actors/User Role: Rater and Modeler | | | | | |
| Requirements Tested #: Redesign of Dashboard  Test Case: VABCDS 731 | | | | | |
| Module or Screen: Dashboard  Tested by: System Tester  Date Tested:11/17/16 | | | | | |
| Step  # | **Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Open BCDSS application. |  |  |  |  |
| 2 | Log into BCDSS application as Rater with authorized user ID and password. | The login must be successful and System must display Rater’s Dashboard. | Login is successful and System displays Rater’s Dashboard. |  | Pass |
| 3 | Verify that screen shows list of claims which run through more than one. | The Rater dashboard shows list of claims which run through more than one page. | Claims list is displayed which run through more than one page. |  | Pass |
| 4 | Verify that System displays claim 1-10 of total number on page 1. | System displays 1-10 claims of total number | System displays 1-10 claims |  | Pass |
| 5 | Verify that pagination shows the following links:   * First * Previous * 1, 2 * Next * Last | Pagination shows the following links:   * First * Previous * 1, 2 * Next * Last | Pagination shows the following links:   * First * Previous * 1, 2 * Next * Last |  | Pass |
| 6 | Click each of the step 4 links and ensure next, first or previous and last records are displayed. | Previous page and next page, first page, and last page records are displayed. | Previous page and next page, first page, and last page records are displayed. |  | Pass |
| 7. | Verify on each page system displays record number and page number. | System displays record numbers and page number. | System displays record number and page number. |  | Pass |
| 8 | Log out of BCDSS and re-login as Modeling Agent. | The login must be successful and System must display Modeling Agent’s Dashboard. | Login is successful and System must display Modeling Agent ’s Dashboard. |  | Pass |
| 9 | Repeat steps 3-7 and verify pagination is fully functional. | Pagination is functional. | Pagination is fully functional. |  | Pass |

## VABCDS–372 Advance Search

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC13—Rater/Modeler Login—Advance Search Functionality | | | | | |
| Test Case Objective: As Rater/Modeling Agent, I need to be able to search a specific claim or set of claims from the sample data provided, so that I can run the predictive model for that specific claim(s).  5.2.1.2 | | | | | |
| Pre-Conditions: BCDSS must be available with Admin, Rater, and Modeler login setup. | | | | | |
| Actors/User Role: Admin, Rater, and Modeling Agent | | | | | |
| Requirements Tested #: VABCDS 372  Test Case: VABCDS 730 | | | | | |
| Module or Screen: Dashboard  Tested by: System Tester  Date Tested: 11/15/16 | | | | | |
| Step  # | **Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Open BCDSS application. |  |  |  |  |
| 2 | Log into BCDSS application as Rater with authorized user ID and password. | The login must be successful and System must display Rater’s Dashboard. | Login is successful and System displays Rater’s Dashboard. |  | Pass |
| 3 | Verify that after successfully logging in as rater, system displays Rater’s dashboard. | Rater Dashboard must display. | Rater Dashboard displays. |  | Pass |
| 4 | Verify that “Advance Filter” is on the dashboard. | “Advance Filter” is on the dashboard | “Advance Filter” is on the Dashboard. |  | Pass |
| 5 | Select "Advanced Search/Filter" from the Rater’s Dashboard. | “Advance Filter” pop-up is displayed. | “Advance Filter” displays on screen. |  | Pass |
| 6 | Verify “Advanced Search/Filter” skips to the dashboard with the filtered claims displayed on the Dashboard. | Skips the dashboard and displays filtered record. | Skips the dashboard and displays filtered record. |  | Pass |
| 7 | Clicking “Cancel” should skip to the Dashboard without filtering. | Skips to dashboard without filtering. | Skips to dashboard without filtering. |  | Pass |
| 9 | Select “Date of Claim” or “Claim Established date” by selecting the radio button (they are mutually exclusive items and mandatory).  Enter “From Date”.  Enter “To Date”. | User can select “Date of Claim” or “Claim Established date” by selecting the radio button (they are mutually exclusive items and mandatory). | User is able to select any of the “Date of Claim” or “Claim Established Date” by selecting the radio button. |  | Pass |
| 10 | Enter contention text. | System must let user enter contention text. | Contention text is entered successfully. |  | Pass |
| 11 | Enter “Regional Office” from dropdown list. | User should be able to select any of the Regional office from dropdown list | Regional office is selected successfully. |  | Pass |
| 12 | Click Filter. | System skips to the dashboard with the filtered claims displayed on the Dashboard. | System skips to dashboard with filtered record displayed. |  | Pass |
| 13 | Clicking “Cancel” skips to the Dashboard without filtering. | System skips to the Dashboard without filtering. | System skips to the dashboard without filtering. |  | Pass |
| 14 | Log out and re-login as Modeling Agent with user ID and password. | The login must be successful and System must display Modeling Agent’s login page. | System displays modeling agent login page. |  | Pass |
| 15 | Repeat steps 5-10 and verify functionality of Advance Filter. | Advance Filter is fully functional. | Advance Filter and cancel button are fully functional. |  | Pass |

## VABCDS–199 View Predicted Results of the Processed Contentions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC13—Rater/Modeler Login—View Predicted Results of Processed Contentions | | | | | |
| Test Case Objective: As a Rater, I need to view the output of the Predictive Model, so that I can compare it with the actual Rating output. | | | | | |
| Pre-Conditions: BCDSS must be available with Admin, Rater, and Modeler login setup. | | | | | |
| Actors/User Role: Admin, Rater, and Modeling Agent | | | | | |
| Requirements Tested #: VABCDS 766, 769 Ref .5.2.1.7  Test Case: VABCDS 226, 268 | | | | | |
| Module or Screen: Dashboard  Tested by: System Tester  Date Tested: | | | | | |
| Step # | **Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/Fail** |
| 1 | Open BCDSS application. |  |  |  |  |
| 2 | Log into BCDSS application as Rater with authorized user ID and password. | The login must be successful and System must display Rater’s Dashboard. | Login is successful and System displays Rater’s Dashboard. |  | Pass |
| 3 | Verify that after successfully logging in as rater, system displays Rater’s dashboard. | Rater Dashboard must display. | Rater Dashboard displays. |  | Pass |
| 4 | Verify that system has Claim and Results tabs and screen shows “Claim” tab information by default. | System goes to Claims data on the dashboard by default. | System shows claims tab by default. |  | Pass |
| 5 | Verify that system shows “Process Claims” and “Advance Filter” tabs under “Claim” tab | The system shows “Process Claims” and “Advance Filter” tabs under “Claim” tab. | The system shows “Process Claims” and “Advance Filter” tabs under “Claim” tab. |  | Pass |
| 6 | Verify that system shows all claims under Process Claims by default. | System shows all claims under Process Claims by default. | System shows all claims under Process Claims by default. |  | Pass |
| 7 | Verify that if there are more than 10 claims, system automatically sets it to next page with 10 per page. User should be able to navigate to these pages using page #s or next, previous, first, and last buttons | System automatically sets it to next page with 10 per page. User should be able to navigate to these pages using page #s or next, previous, first, and last buttons. | System automatically sets it to next page with 10 per page. User can navigate to these pages using page #s or next, previous, first, and last buttons. |  | Pass |
| 8 | Verify user can view following items for claims:   1. Check box to select claim row 2. Veteran ID 3. Veteran Name 4. Regional office 5. Claim ID 6. Date of Claim 7. CEST date 8. Model/ Contention 9. Search box | User can view:   1. Select Check box to claim row 2. Veteran ID 3. Veteran Name 4. Regional office 5. Claim ID 6. Date of Claim 7. CEST date 8. Model/ Contention 9. Search box | User can view:   1. Select Checkbox to claim row 2. Veteran ID 3. Veteran Name 4. Regional office 5. Claim ID 6. Date of Claim 7. CEST date 8. Model/ Contention 9. Search box |  | Pass |
| 9 | Verify that there are Ascending and Descending keys to view data in each column. | There are Ascending and Descending keys to view data in each column available. | There are Ascending and Descending keys to view data in each column available. |  | Pass |
| 10 | Verify that the following two links are shown on the left of the screen:   * Dashboard * Reports | There are two links present on the screen:   * Dashboard * Reports | There are two links present on the screen:   * Dashboard * Reports |  | Pass |
| 11 | Select desired claim which user needs to process from checkbox which shows up for each row of claims | User can select checkbox which shows up for each row of claims. | User can select checkbox which shows up for each row of claims. |  | Pass |
| 12 | Click “Process Claim” button. | User can click “Process Claim” button successfully. | User can click “Process Claim” button successfully. |  | Pass |
| 13 | Verify that system processes claims and displays the processed data on the Results tab with the following items:   * Veteran ID * Veteran Name * Claim ID * Model * Model Result ID * Prior Rating * Rater Evaluation * Model Results * RE/MR Match * Pattern Rate of Use * Pattern Accuracy * Search box   Each column has an Ascending and Descending scroll buttons.  If there are more than 10 rows of results, the remaining results display on the following pages with options to navigate to next, previous, first, and last page or the user can go to a particular page using 1, 2, 3…. | Results tab displays all of the following items:   * Veteran ID * Veteran Name * Claim ID * Model * Model Result ID * Prior Rating * Rater Evaluation * Model Results * RE/MR Match * Pattern Rate of Use * Pattern Accuracy * Search box   Each column has Ascending and Descending scroll buttons.  If there are more than 10 rows of results, the remaining results display on the following pages with options to navigate to next, previous, first, and last page or the user can go to a particular page using 1,2 3…. | Results tab displays all of the following items:   * Veteran ID * Veteran Name * Claim ID * Model * Model Result ID * Prior Rating * Rater Evaluation * Model Results * RE/MR Match * Pattern Rate of Use * Pattern Accuracy * Search box   Each column has Ascending and Descending scroll buttons.  If there are more than 10 rows of results, the remaining results display on the following pages with options to navigate to next, previous, first, and last page or the user can go to a particular page using 1,2 3 …. |  | Pass |
| 14 | Verify the search button in (if user enters any text, it shows results. | System brings claims for text entered in search box | System brings claims for text entered in search box |  | Pass |
| 15 | Verify that after claim result page shows data it can be further searched by (Processed Claim from date to Processed Claim To date, Model Type, Model Result ID). | The search results are shown as per search criteria in (From date to Processed Claim To date, Model Type, Model Result ID). | The search results are shown as per search criteria in (From date to Processed Claim To date, Model Type, Model Result ID). |  | Pass |
| 16 | Click Model Result ID to see Details in Model Result Page, System must bring Detail Model Result page. | Detail Model Result page is displayed. | Detail Model Result page is displayed. |  |  |
| 18 | Verify the system populates:   * Veteran ID * Veteran Name * Claim ID * Model * Model Result ID * Prior Rating * Rater Evaluation * Model Results * RE/MR Match * Pattern Rate of Use * Pattern Accuracy * Agree (Y/N) button | System populates:   * Veteran ID * Veteran Name * Claim ID * Model * Model Result ID * Prior Rating * Rater Evaluation * Model Results * RE/MR Match * Pattern Rate of Use * Pattern Accuracy * Agree (Y/N) button | System populates: System did populate   * Veteran ID * Veteran Name * Claim ID * Model * Model Result ID * Prior Rating * Rater Evaluation * Model Results * RE/MR Match * Pattern Rate of Use * Pattern Accuracy * Agree (Y/N) button |  | Pass |
| 19 | Verify the following calculations:   1. If the pattern accuracy exceeds 99.5 percent, it’s considered “Extremely Reliable”. 2. If the pattern accuracy is between 98.5 and 99.49 percent, it’s considered “Very Reliable”. 3. If the pattern accuracy is between 90 and 98.49 percent, it’s considered “Somewhat Reliable”. 4. If the pattern accuracy is less than 90 percent, it’s considered “Not Reliable”. |  |  |  | Not Tested |

## VABCDS–646 Verify Knee aggregate contention and decision calculator and VABCDS 736 Calculation Validation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC14—Rater—Verify Knee Aggregate Contention and Decision Calculator | | | | | |
| Test Case Objective: As a Rater, I need to verify that aggregate contention decision calculator is giving correct results. | | | | | |
| Pre-Conditions: BCDSS must be available with Admin, Rater, login setup. | | | | | |
| Actors/User Role: Rater, | | | | | |
| Requirements Tested #: VABCDS  Test Case: VABCDS 226 | | | | | |
| Module or Screen: Dashboard  Tested by: System Tester  Date Tested | | | | | |
| Step # | **Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/Fail** |
| 1 | Open BCDSS application. |  |  |  |  |
| 2 | Log into BCDSS application as Rater with authorized user ID and password. | The login must be successful and System must display Rater’s Dashboard. | Login is successful and System displays Rater’s Dashboard. |  | Pass |
| 3 | Verify that after successfully logging in as rater, system displays Rater’s dashboard. | Rater Dashboard must display. | Rater Dashboard displays. |  | Pass |
| 4. | Repeat Steps 4-14 from [TC13](#_VABCDS–372_Advance_Search) and verify the calculations using SQL Scripts after logging on to BCDSS database. For SQL statement and Calculation go to [Section 5](#_SQL_Statements_and). |  |  |  | Pass |

# Requirements Mapping

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Package | REQ # | Requirements | Source | Test Case# | Test Status/Comments |
| BCDSS version 1.0 | 188 | Authentication of logins. |  | 01 | Completed |
| 193 | Rater’s access to Dashboard |  | 02 | Completed |
| 192 | Modeling Agent’s access to Dashboard |  | 03 | Completed except Report |
| 194 | Ability to retrieve claims |  | 04 | Completed |
| 354 & 367 | Verification of logged in user credentials |  | 05 | Completed |
| 395 | Viewing of all items on dashboard |  | 06 | Completed |
|  | 176 | Functionality “Administrator can edit user |  | 07 | Completed |
|  | 175 | Functionality “Administrator can edit user |  | 08 | Completed |
|  | 543 | Session Termination |  | 09 | Completed |
|  |  | SOAP UI Modelling Mock Service |  | 10 | Pending |
|  | 692 | Redesign of Navigation Menu of Rater and Modelling Agent |  | 11 | Completed |
|  | 691 | Verification of pagination of  Rater/Modeling Agent claims on dashboard |  | 12 | Completed |
|  | 372 | Advance Search on Rater/Modeling Agent screen |  | 13 | Completed |
|  | 199 | Verify that as a Rater, I need to view the output of the Predictive Model, so that I can compare it with the actual Rating output |  | 14 | Completed |

# Test Data

This section will have a set of data created for testing the prototype for the Benefits Claims 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 |  |

# SQL Statements and Calculations Formulas

|  |  |
| --- | --- |
| **Step 1: Fetch Profile date for selected claim** | Rater selects a claim ID – Fetching profile date from corp claim table |
| select distinct PTCPNT\_VET\_ID, BNFT\_CLAIM\_ID, CNTNTN\_CLSFCN\_ID,PRFIL\_DT, |
| DATE\_OF\_CLAIM, CLAIM\_RO\_NAME, CNTNTN\_CLMANT\_TXT from bcdss.AH4929\_RATING\_CORP\_CLAIM where PTCPNT\_VET\_ID = “value” |
| and BNFT\_CLAIM\_ID = “Value” |
| and |
| CNTNTN\_CLSFCN\_ID in (230,270,3690,3700,3710,8919,3720,3730,3780,3790,3800) |
| And END\_PRDCT\_TYPE\_CD like '02%' |
| **Result**  **Vet ID Claim ID Contention Profile date Date of Claim**  **Get Max Profile date, if claim has multiple profile dates** |
| **Step 2: Aggregate Contentions** | Fetch previous claims based on profile date and for aggregate contentions |
| select distinct PTCPNT\_VET\_ID, BNFT\_CLAIM\_ID, CNTNTN\_CLSFCN\_ID |
| from bcdss.AH4929\_RATING\_CORP\_CLAIM where PTCPNT\_VET\_ID = “Value” |
| and PRFIL\_DT <= 'Profile Date Value' and |
| CNTNTN\_CLSFCN\_ID in (230,270,3690,3700,3710,8919,3720,3730,3780,3790,3800) |
| and END\_PRDCT\_TYPE\_CD like '02%' |
| **Getting Claim IDs for the profile date** |
| **Results**:  **Vet ID Claim Id Contention**  **Aggregate Contentions -- These values should go to results contention table.** |
| **Step 3: Aggregate decision and calculate CDD** |  |
| **3.1 Fetch decisions based on claim date and for aggregate decisions.** | select distinct rd.diagnosis\_code , PRFIL\_DT |
| from bcdss.AH4929\_RATING\_DECISION rd. |
| where |
| rd.PTCPNT\_VET\_ID = “Vet ID” |
| and PRFIL\_DT < ' Value ' -- Date of claim |
| and DIAGNOSIS\_CODE in |
| ('5055', '5161', '5162' , '5163' , '5164' , '5165' , |
| '5256' , '5257' , '5258' , '5259' , '5260' , '5261' , '5262' , |
| '5263' , '5264' , '5313' , '5314' , '5315') |
| and rd.begin\_dt IS NOT NULL and rd.begin\_dt < rd.prmlgn\_dt |
| and (rd.end\_dt is NULL or rd.end\_dt >= rd.prmlgn\_dt) and rd. system\_type\_cd = 'C' |
| and rd.dsblty\_decn\_type\_cd in ('SVCCONNCTED','1151GRANTED') |
| group by rd.diagnosis\_code , PRFIL\_DT |
| order by diagnosis\_code, PRFIL\_DT |
| **Results:**  **code profile date**  **Then get**  **Diagnosis Code counts.** |
| **3.2 Get decision based on target date’s profile date** | SELECT PTCPNT\_VET\_ID, min(PRFIL\_DT) FROM bcdss. AH4929\_RATING\_decision |
| where PRFIL\_DT >= '' -- Date of claim for target claim |
| and PTCPNT\_VET\_ID = 359364 |
| and DIAGNOSIS\_CODE in ('5055', '5161', '5162' , '5163' , '5164' , '5165' , '5256' , '5257' , '5258' , '5259' , '5260' , '5261' , '5262' , '5263' , '5264' , '5313' , '5314' , '5315') |
| and dsblty\_decn\_type\_cd in ('SVCCONNCTED','1151GRANTED') |
| GROUP BY PTCPNT\_VET\_ID, PRFIL\_DT |
| order by PRFIL\_DT |
| **Result**  Claim ID and Profile date |
| **3.3 Take the first Record to get percent number for each diagnosis code which has latest begin date** | select DIAGNOSIS\_CODE, max(begin\_dt) , PRCNT\_NBR |
| from bcdss.AH4929\_RATING\_decision where |
| PTCPNT\_VET\_ID = “value” |
| and PRFIL\_DT like Value %' |
| and DIAGNOSIS\_CODE in ('5055', '5161', '5162' , '5163' , '5164' , '5165' , '5256' , '5257' , '5258' , '5259' , '5260' , '5261' , '5262' , '5263' , '5264' , '5313' , '5314' , '5315') |
| and dsblty\_decn\_type\_cd in ('SVCCONNCTED','1151GRANTED') |
| GROUP BY DIAGNOSIS\_CODE, begin\_dt , PRFIL\_DT, PRCNT\_NBR |
| order by begin\_dt desc |
| **Result**  **Diagnosis Code, Max Percent Number** |
| **3.4 Apply CDD Formula** | **CDD = 100 X min (60/100 , 1- (1-DIA code 1/100)(1-DIA Code 2 /100))** |

# 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: