Alert Watch and Response Engine (AWARE)

Test Cases



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Revision History

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# Introduction

## Overview

This is the guide to testing the Alert Watch and Response Engine (AWARE) Application. Testing involves traversing the functional space of the AWARE software most representative of what an actual user would do. Test cases are repeatable. This will verify that new code introduced or changes to existing code function as expected and do not destabilize the build under test.

Test Cases, as shown in the Test Case tables, are presented with Test Step descriptions (Operator Actions) and Expected Results columns. The tester or operator performs the steps described and verifies the outcomes defined in the Expected Results column. The tester will record actual results only when a step fails. Test Cases are executed on builds deployed to the Test Environment. Any discrepancies found while executing Test Case steps are recorded in the Defect Description column. Only high-level functionality is taken into consideration while writing Test Cases for the AWARE Application.

## Purpose

The purpose of this document is to provide Test Cases to be used for Testing the AWARE Application. These Test Cases will verify different screens in AWARE to include the following:

* AWARE Alert Cache Editor Login Screen
* AWARE Alert Cache Screen
* AWARE Knowledge Based Editor Login Screen
* AWARE Knowledge Based (KB) Editor Screen
* AWARE KB Alert Category Tab
* AWARE KB Alert Type Tab
* Alert Type Comments Dialog Text Comment Text screen
* CPRS AWARE PROMPT screen
* CPRS AWARE PROMPT ADDRESS NOW Button
* CPRS AWARE PROMPT CLOSE AND ADDRESS LATER Button
* AWARE QI Tool Reports screen
* AWARE QI Tool Clinic/Facility Reports screen
* AWARE QI Tool Provider/Clinic Reports screen

## Reporting Test Incidents

The tester will record test results in the AWARE Test Tracking Report, which will be stored in the Harris SharePoint. When the document is saved in SharePoint, record a note in the check-in comments section to indicate that the document contains initial testing results.

## Severity of Defect

The tester will record the severity of the discovered defect with the following levels:

Table - Severity of Defect

| Defect Severity Level | Description |
| --- | --- |
| **Critical** | This should be reserved for only the most catastrophic of problems. Data corruption, complete inability to use the product at almost any site, etc. For released products, an urgent program error would imply that shipping of the product should stop immediately, until the problem is resolved. |
| **High** | This should be used for only serious problems, affecting many sites, with no workaround. Frequent or reproducible crashes/core dumps/GPFs would fall in this category, as would major functionality not working. |
| **Medium** | This is a problem that:  a) Effects a more isolated piece of functionality  b) Occurs only at certain boundary conditions  c) Has a workaround (where "don't do that" might be an acceptable answer to the user)  d) Occurs only at one or two customers  e) Is very intermittent |
| **Low** | This is for Minor problems, such as failures at extreme boundary conditions that are unlikely to occur in normal use, or minor errors in layout/formatting. These problems do not impact use of the product in any substantive way. |

## Priority

Once defects are reported, the Test Lead/Manager sets the priority of fixing a specific program error. The priorities are as follows:

Table 2 - Priority

| Priority | Description |
| --- | --- |
| **Critical** | Further development and/or testing cannot occur until the defect issue is resolved. The application is unusable until it has been repaired. |
| **Major** | Development and/or testing activities have been impaired due to the defect, which must be resolved promptly. System use is severely impacted while the defect remains in a state of disrepair. [IEEE definition] Software crashes, hangs, or causes loss of data. A major feature is broken. |
| **Normal** | The defect should be resolved in the normal course of development activities. It can wait until a new build or version is generated. |
| **Low** | A minor loss of functionality has occurred; an easy workaround exists. The defect is an irritant that should be repaired; however, it can wait to be repaired following the repair of more serious defects. |
| **Trivial** | The defect is of a cosmetic nature, such as a misspelled word, misaligned text, or a GUI differs from an established standard. |
| **Enhancement** | This is not a defect, but an issue found during testing that can be reported as an enhancement or as a new feature. |

## Test Assumptions, Exceptions, and Notes

The primary content in this document consists of itemized test cases, which provide a structured set of testing instructions for the AWARE application. The test cases are written with the following assumptions:

* AWARE (Software/KIDS) has been properly installed, configured, and setup in a VistA Test Instance.
* The AWARE SQL Server has been properly installed, configured, and setup. This includes, but is not limited to SQL Server, SQL Server Reporting Services (SSRS), Internet Information Services (IIS), Cache Server Pages (CSP), AWARE SQL TRANSPORTER, and AWARE QI Manager.
* The AWARE demo Reminder Dialogs, Text Integration Utility (TIU) Templates, and Health factors have been setup in the Test Instance.
* The user has a working knowledge of Vista.
* The user has experience setting up and configuring Reminder Dialogs, TIU Templates, and Health factors.
* The user has experience with CPRS. Including but not limited to the following roles, Physician, Clinical Application Coordinators (CAC), Lab Tech Technicians, etc.
* Testing is limited to the four sample Clinical Reminder Dialogs.
* Some data validation requires a working knowledge of VistA FileMan and MS SQL Server Management Studio.
* Test Cases were written at a high level and do not include the detailed steps for all the Clinical Reminders since each site will be different.
* They do not include CPRS regression testing. This was done in the VA Innovations lab during the Pilot Project.
* We recommend that the CACs create and process at least one of each of the AWARE Alert Types.
  + Each Alert Type processed should produce:
    - An AWARE prompt pop-up.
    - An AWARE Alert entry in the VistA AWARE Alert Viewer.
    - An AWARE Alert entry in the AWARE QI Tool.

# Test Case Tester Mapping

Table – Test Case Tester Mapping

| Test Case # | Test Case Description | Intended Tester |
| --- | --- | --- |
| ST-001 | VistA Navigation | IT, Chief Informatics, Lab ADPAC/CAC |
| ST-002 | AWARE Alert Viewer | QA and Provider |
| ST-003 | AWARE KB Alert Category | Chief Informatics and ADPAC/CAC |
| ST-004 | AWARE KB Alert Type | Chief Informatics and ADPAC/CAC |
| ST-005 | QI TOOL Reports/Tracked Alerts | QA |
| ST-006 | CPRS Integration | Provider |
| ST-007 | AWARE SQL Server | IT |

# Requirements Mapping

Table 4 - Requirements Mapping

| Req # | Requirement Statement | Test Case ID # | Step |
| --- | --- | --- | --- |
| 2.6.1.1 | AWARE’s current command-line VistA/FileMan menu and standalone knowledge-based editor for managing Tracked Alert Categories shall be converted to a web-based, graphical user interface. | ST003 | ST003A, ST003B |
| 2.6.1.2 | AWARE’s current command-line VistA/FileMan menu and standalone knowledge-based editor for managing Tracked Alert Types shall be converted to a web-based, graphical user interface. | ST004 | ST004A, ST004B |
| 2.6.2.1 | The system shall gather data essential for capturing alert monitoring activities into an Alert Audit/Log File as a Cache. | ST002 | ST002A, ST002B, ST002C |
| 2.6.2.2 | The system shall gather AWARE tracked alert data into this AWARE Alert Audit/Log File that have been created within the last 2 weeks | ST002 | ST002D |
| 2.6.2.3 | The data for AWARE Alert Audit/Log Files shall be truncated at 2 weeks | ST002 | ST002D |
| 2.6.2.4 | An AWARE SQL Server Tracked Alert Data Table shall be provided with the same data record/field layout as defined for the file as a Cache in section 2.6.2.1 | ST007 | ST007A |
| 2.6.2.5 | Web based Reporting shall be provided such as with MS SQL Server Reporting Services in dashboard report type displays | ST005 | ST005A |
| 2.6.2.6 | The QI Tool shall provide the ability for users to navigate to a different type of display | ST005 | ST005A |
| 2.6.2.7 | The system shall allow users to drill down to a specific alert and see patient name and identification (ID); value of the alert (e.g., prostate-specific antigen (PSA) level); data and time when alerts were acknowledged; follow-up action performed in response to alert (when captured by AWARE), and date and time of placement of follow-up order | ST005 | ST005A |
| 2.6.2.8 | The system shall provide a means for authorized users to view alert information in a web-based view | ST005 | ST005A |
| 2.6.3 | AWARE/CPRS Integration | ST006 | ST006A |

# Test Results Summary

Table - Test Results Summary

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Trace to Req #** | **Test Case #** | **Test Case Description** | **Date Tested** | **P/F** | **Severity** | **Priority** | **Date Retested** | **Defect Description** | **P/F** | **Comments** |
| N/A | ST-001 | VistA Navigation |  |  |  |  |  |  |  |  |
| 2.6.2.1, 2.6.2.2, 2.6.2.3 | ST-002 | AWARE Alert Viewer |  |  |  |  |  |  |  |  |
| 2.6.1.1 | ST-003 | AWARE KB Alert Category |  |  |  |  |  |  |  |  |
| 2.6.2.1.2, 2.6.2.1.3 | ST-004 | AWARE KB Alert Type |  |  |  |  |  |  |  |  |
| 2.6.2.5, 2.6.2.6, 2.6.2.7, 2.6.2.8 | ST-005 | QI TOOL Reports/Tracked Alerts |  |  |  |  |  |  |  |  |
| 2.6.3 | ST-006 | CPRS Integration |  |  |  |  |  |  |  |  |
| 2.6.2.4 | ST-007 | AWARE SQL Server |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

# Test Case ST-001: VistA Navigation

## Test Objective

Additional steps to verify AWARE functionality.

This test case is optional. It provides additional data validation in VistA.

## Requirements Mapping

Not Applicable.

## Intended Testers

IT, Chief Informatics, Lab ADPAC/CAC.

## Precondition Steps

* Programmer setup and review of AWARE files and functionality.
* Clinical Application Coordinator (CAC) must review/setup the AWARE Reminder Dialogs, TIU Templates, Health Factors, etc., prior to creating the AWARE Alert Types.
* Lab Tech must process Provider orders with critical values.
* Physician
* Need VistA Users with Programmer, Lab Technician, CAC, and Physician rights.

## Identified Test Data

Not Applicable.

## Test Steps

Table - ST-001A: VistA File/Data Review

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | Login to the VistA Test Account. | Verify the correct VistA menu is displayed. |  |  |  |  |
| **2** | Navigate to “**VA FileMan**” menu. | Verify the “**VA FileMan**” menu is displayed. |  |  |  |  |
| **3** | Then select “**Inquire to File Entries**”. | **OUTPUT FROM WHAT FILE:** is displayed. |  |  |  |  |
| **4** | Enter VistA file name to be reviewed. | User is prompted to select which record to display. |  |  |  |  |
| **5** | User reviews VistA File/Record. | Record data is validated. |  |  |  |  |

Table – ST-001B: VistA Reminder Dialog Review

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | Login to the VistA Test Account with Clinical Application Coordinator rights and navigate to the “**Reminder Managers Menu**”. | Verify the correct VistA “**Reminder Managers Menu”** is displayed. |  |  |  |  |
| **2** | Navigate to “**Reminder Dialog Management**” menu. | Verify the “**Reminder Dialog Management**” menu is displayed. |  |  |  |  |
| **3** | Navigate to “**Reminder Dialog**” menu. Then Change View “**CV**”. Then Reminder Dialogs “**D**”. | Verify the “**Dialog View**” is displayed. |  |  |  |  |
| **4** | Select AWARE Reminder Dialog. Review the Dialog for correct setup. | Verify the selected AWARE Dialog is correctly configured. |  |  |  | The Clinical Application Coordinators are responsible for the setup of the AWARE Reminder Dialogs. |

Table – ST-001C: VistA Lab Results Processing

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | Login to the VistA Test Account with Lab Technician rights and navigate to the “**Laboratory DHCP Menu**”. | Verify the correct VistA “**Laboratory DHCP Menu”** is displayed. |  |  |  |  |
| **2** | Navigate to “**Process data in lab menu**”. | Verify the “**Process data in lab menu**” menu is displayed. |  |  |  |  |
| **3** | Navigate to **“Accession order”** then immediatelyenter **“data”** menu. | Verify “**Select Performing Laboratory:**” is displayed. |  |  |  |  |
| **4** | Select the correct Lab. Then enter the Order Number from CPRS. | Verify the correct Lab Order is displayed. |  |  |  |  |
| **5** | Select “Now” for the Collection Date@Time. Then add the critical Lab data. Enter the Lab Tech Initials to Approve and Release the Order. | Critical Lab Results are processed and released.  Provider can now view AWARE Critical Alerts in CPRS. |  |  |  |  |

# Test Case ST-002: AWARE Alert Viewer

## Test Objective

To verify that the user has the permissions to access the VistA AWARE Alert Cache and they can login.

## Requirements Mapping

* **2.6.2.1, 2.6.2.2, 2.6.2.3** and related RSD sub-items

## Intended Testers

QA and Provider.

## Precondition Steps

* User must have permission to access the AWARE Alert Viewer Login screen.
* The User has reviewed the T4\_AWARE\_UserGuide-AlertCacheViewer.

## Identified Test Data

AWARE Alerts have already been created in the test environment.

AWARE Test data is stored in the new VistA File #19008.2 VEFA AWARE ALERT CACHE File. RSD 2.6.2.1 defines the fields in this file. FileMan can be used to display the Data Dictionary and view actual AWARE Test Data.

## Test Steps

Table 9 - ST-002A: VistA AWARE Alert Viewer Login Screen Test Steps

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Comments / Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | Enter the <AWARE Alert Cache URL> in the browser. | Verify VistA AWARE Alert Viewer Login screen is displayed with the following fields:   * Access Code: Blank * Verify Code: Blank |  |  |  |  |
| **2** | Enter the users Access Code and Verify Code and click the **Logon** button. | Verify the VistA AWARE Alert Viewer Home Page screen is displayed. Ordering Provider, Service, Patient, Follow-up > 7 Days Drop Down boxes should be displayed. |  |  |  |  |

# 

Table 10 - ST-002B: VistA AWARE Alert Viewer Screen Test Steps

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Comments/Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | After logon to the VistA AWARE Alert Cache page. | Verify the VistA AWARE Alert Viewer Home Page screen is displayed.  Ordering Provider, Service, Patient, and Follow-up > 7 Days Drop Down boxes should be displayed. The current user and Facility are displayed at the bottom of the page. |  |  |  | All the AWARE Alerts should be displayed in the AWARE Alerts table for the selected Ordering Provider, Service, Patient, and Follow-up > 7 Days selected. |
| **2** | Double click on an AWARE Alert row to display the details of the selected Alert. | Verify the Selected AWARE Alert is displayed on a new page.  The screen should have an “Alert” tab, “Status” tab, “Result” tab, and a “Follow-up Actions” tab.  Verify the “Alert” tab is displayed.  Data displayed is based on provider follow-up and alert actions. It is normal for some fields to be blank. |  |  |  |  |
| **3** | Click on the “**Status**” tab. | Verify the “Status” tab is displayed.  Data displayed is based on provider follow-up and alert actions. It is normal for some fields to be blank. |  |  |  |  |
| **4** | Click on the “**Result**” tab. | Verify the “Result” tab is displayed.  Data displayed is based on provider follow-up and alert actions. It is normal for some fields to be blank. |  |  |  |  |
| **5** | Click on the “**Follow-up Actions**” tab. | Verify the “Follow-up Actions” tab is displayed.  Data displayed is based on provider follow-up and alert actions. It is normal for some fields to be blank. |  |  |  | This tab may not have any data displayed if no follow-up action has been taken on the Alert. |
| **6** | On the “Alert”, “Status”, “Result”, and the “Follow-up Actions” pages Click on the “**Close**” button. | Verify the user is returned to the AWARE Alerts Viewer home page. |  |  |  |  |
| **7** | Return to the AWARE Alerts Cache page. Click on the “**Sign Out**” Button at the lower right of the page. | Verify the user is returned to the VistA AWARE Alerts Cache Editor Logon page. |  |  |  |  |

Table - ST-002C: VistA AWARE Alert Viewer Information

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Comments/Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | After logon to the VistA AWARE Alert Viewer page. | Verify the VistA AWARE Alert Viewer Home Page screen is displayed.  Ordering Provider, Service, and Follow-up > 7 Days Drop Down boxes should be displayed. The current user and Facility are displayed at the bottom of the page. |  |  |  | All the AWARE Alerts should be displayed in the AWARE Alerts table for the selected Ordering Provider and Service selected. |
| **2** | Double click on an AWARE Alert row to display the details of the selected Alert. | Verify the Selected AWARE Alert is displayed on a new page. The screen should have an “**Alert**” tab, “**Status**” tab, “**Result**” tab, and a “**Follow-up** **Actions**” tab.  Verify the “**Alert**” tab is displayed. The following fields validate that the correct data is being captured.  *It is normal for some fields to be blank.*  **RSD Field RDS VistA Field Alert Viewer Field**  ALERT ID 2.6.2.1.1 ALERTID Alert ID  ALERT DATE TIME 2.6.2.1.10 DATETIME DATE  SERVICE 2.6.2.1.4 SERVICE Service  ORDERING PROVIDER ID 2.6.2.1.6 ORDERING PROVIDER Ordering Provider  N/A N/A ALERT RECIPENT Alert Recipient  N/A N/A PATIENT Patient  ALERT CATEGORY 2.6.2.1.9 ALERT CATEGORY Alert Category  ALERT TYPE 2.6.2.1.8 ALERT TYPE Alert Type |  |  |  | The user can verify that the correct Alert Audit/Log information is tracked and stored. |
| **3** | Click on the “**Status**” tab. | Verify the “**Status**” tab is displayed. The following fields validate that the correct data is being captured.  *It is normal for some fields to be blank.*  **RSD Field RDS VistA Field Alert Viewer Field**  UNACKED STATE 2.6.2.1.13 UNACKSTATUS Un-Ack Status  ACKED RENEWED STATE 2.6.2.1.14 ACKRENEWDATE Alert Renew Date  ACKED DELETED STATE 2.6.2.1.15 DELETEDATE Delete Date  FAT ORDER STATUS 2.6.2.1.11 FAT STATUS Alert Status  FAT PROVIDER 2.6.2.1.12 FAT PROVIDER Alert Provider  ACKED BY PROVIDER ID 2.6.2.1.16 FOLLOW-UP PROVIDER Follow-up Provider  CLINIC 2.6.2.1.5 CLINIC Clinic  PATIENT ID 2.6.2.1.7 PATIENTID Patient ID |  |  |  | The user can verify that the correct Alert Audit/Log information is tracked and stored. |
| **4** | Click on the “**Result**” tab. | Verify the “**Result**” tab is displayed. The following fields validate that the correct data is being captured.  *It is normal for some fields to be blank.*  **RSD Field RDS VistA Field Alert Viewer Field**  N/A N/A ALERT RESULTOR Alert Resultor  N/A N/A RESULTOR PERSON CLASS Resultor Person Class  N/A N/A ALERT TYPE ORIG STATION Alert Type Orig Station  N/A N/A FOLLOW-UPS Follow-up  N/A N/A FOLLOWUP>7D Follow-up > 7 Days  N/A N/A ACK>7D Ack > 7 Days  ALERT TEXT 2.6.2.1.2 ALERTVALUE Alert Value |  |  |  | The user can verify that the correct Alert Audit/Log information is tracked and stored. |
| **5** | Click on the “**Follow-up Actions**” tab. | Verify the “**Follow-up Actions**” tab is displayed. The following fields validate that the correct data is being captured.  *It is normal for some fields to be blank.*  **RSD Field RDS VistA Field Alert Viewer Field**  ORDER/FOLLOW UP 2.6.2.1.16.1 FOLLOWUP ACTIONS Follow-up Actions  ACTION TAKEN DATE/TIME 2.6.2.1.16.2 DATE/TIME Date/Time |  |  |  | This tab may not have any data displayed if no follow-up action has been taken on the Alert.  The user can verify that the correct Alert Audit/Log information is tracked and stored. |

Table - ST-002D: VistA AWARE Alert Cache Tracked Data Test Steps

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Comments/Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | After logon to the VistA AWARE Alert Viewer page. | Verify the VistA AWARE Alert Viewer Home Page screen is displayed.  \*Verify Alerts created in the last 2 weeks are displayed on the VistA AWARE Alert Viewer Screen.  **NOTE:** The Date Ranage of the Alerts displayed in the Alert Viewer is based on the CACHE WINDOW Field of the VEFA AWARE ALERTS PARAMETER File. Check this field value before failing this test! |  |  |  | \*The “Date” column should display Alerts with-in the last 2 weeks.  \*\*\*The “Date” column should Not display Alerts older than 2 weeks from the current date. |

# Test Case ST-003: AWARE KB Editor Alert Category

## Test Objective

To verify that the user must have permissions to access the AWARE Knowledge Based Editor Login screen and they can Login.

To verify the system will allow the user to Add and Edit AWARE Alert Categories and related sub-item data.

## Requirements Mapping

* **2.6.1.1**
  + 2.6.1.1.1 and related RSD sub-items.

## Intended Testers

Chief Informatics and ADPAC/CAC.

## Precondition Steps

* User must have permission to access the AWARE Knowledge Based Editor Login screen.
* The user has read and understands the KB Editor User Guide (T4\_AWARE\_UserGuide-KBEditor).

**Note:** The Knowledge Based Editor, **Add** Alert Category functionality is not included in the test cases. Under normal operations the Alert Categories are preconfigured during the software installation and no further actions are required. If for some reason a site has a unique need for a non-standard Alert Category and CPRS Notification Type, the application has the ability to Add new Alert Categories. However this functionality is restricted to OI&T technical staff with VistA Programmer access. This functionality should only be executed by users with detailed technical knowledge of AWARE and VistA functionality.

## Identified Test Data

Each test environment will have two Alert Categories pre-defined. Users will have limited editing capabilities. The defined Alert Categories can only be deleted by a VistA programmer.

When a user double clicks on an item, it is edited.

## Test Steps

Table 13 - ST-003A: VistA AWARE Knowledge Based Editor Login Test Steps

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Comments/Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | Enter the <AWARE Knowledge Based Editor URL> in the browser. | Verify VistA AWARE Knowledge Based Editor Login screen is displayed with the following fields:   * Access Code: Blank * Verify Code: Blank |  |  |  |  |
| **2** | Enter the users Access Code and Verify Code and click the **Logon** button. | Verify the VistA AWARE Alert Cache Home Page screen is displayed. Ordering Provider and Service Drop Down boxes should be displayed. |  |  |  |  |

Table 14 - ST-003B: AWARE KB Editor Test Steps

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Comments/Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | After logon to the VistA AWARE Knowledge Based Editor page. | Verify the VistA AWARE Knowledge Based Editor Home Page screen is displayed.  AWARE “Alert Category” tab and “Alert Type” tab should be displayed.  Existing AWARE Knowledge Based Alert Categories will be displayed in the Alert Category table. |  |  |  |  |
| **2** | Click on the “**Sign Out**” button at the bottom right of the page. | Verify the user is returned to the VistA AWARE Knowledge Based Editor Logon page. |  |  |  |  |

Table 15 - ST-003C: AWARE KB Alert Category Tab Test Steps

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Comments/Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | After logon to the VistA AWARE Knowledge Based Editor page. | Verify the VistA AWARE Knowledge Based Editor “Alert Category” tab is displayed.  All the existing AWARE Alert Categories should be displayed in the AWARE Alert Category table. |  |  |  |  |
| **2** | Double click on an AWARE Alert Category row to display the details of the selected Alert Category  . | Verify the Selected AWARE Alert Category is displayed on a new page.  The “**Description** \*” field, “**Delete** **Alert**” drop down, “**Notification Type**” drop down and “**Upon** **Follow-Up** **Action**”  \*\*Check box fields are only fields that can be edited. |  |  |  | \* Once an AWARE Alert Category has been added, the “**Description**” field is the only field that can be edited.  \*\* When the user clicks the Add function, the” **Name**” field is editable and must be entered. With programmer access, all fields are editable. |
| **3** | Click the “**OK**” button or the “**Cancel**” button. | “**OK**” button Verify:   * The “**Description**”, “**Delete** **Alert**”, “**Notification Type**”, and “**Upon** **Follow-Up** **Action**” fields contain the correct changes.   “**Cancel**” button Verify:   * There were no changes to the “**Description**”, “**Delete** **Alert**”, “**Notification Type**”, and “**Upon** **Follow-Up** **Action**” fields. |  |  |  |  |

# Test Case ST-004: AWARE KB Alert Type

## Test Objective

To verify the system will allow the user to Add, Edit, Copy and Delete AWARE Alert Types and related sub-item data.

## Requirements Mapping

* **2.6.1.2, 2.6.1.3**
  + 2.6.1.2.1 and related RSD sub-items.
  + 2.6.1.3.1 and related RSD sub-items.

## Intended Testers

Chief Informatics and ADPAC/CAC.

## Precondition Steps

1. User has already logged into the AWARE Knowledge Based Editor Web page.
2. AWARE Alert Categories have been correctly defined.
3. The User has reviewed the T4\_AWARE\_UserGuide-KBEditor.
   1. Specifically sections 3.2.3, 3.2.4, 3.2.5, 3.2.6, and 3.2.7.

## Identified Test Data

Each test environment will have at least one predefined AWARE CPRS Reminder, CPRS TIU, Health Factor, and AWARE Knowledge Based rule defined via the KIDS Build. This includes the four sample Clinical Reminder Dialogs and all their related items.

When adding new Alert Types, add the corresponding Reminder Dialog Groups/Elements. They must be added in the same order as the Reminder Dialog is defined.

## Test Steps

Table 16 - ST-004A: AWARE KB Alert Type Tab Test Steps

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Comments/Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | After logon to the VistA AWARE Knowledge Based Editor page, click on the “**Alert Type**” tab. | Verify the VistA AWARE Knowledge Based Editor “Alert Type” tab is displayed.  All the existing AWARE Alert Types should be displayed in the AWARE Alert Type table.  \*\*Validate the “Add”, “Edit”, and “Delete” hyperlinks are displayed in the lower left side of the screen. |  |  |  | \*\* “Add” allows the user to create a new AWARE Alert Type and related sub-items.  “Edit” allows the user to update an existing AWARE Alert Type and related sub-items.  “Delete” allows the user to remove an existing AWARE Alert Type and related sub-items. |

Table 17 - ST-004B: AWARE KB Alert Type Tab Test Step –Add/Edit

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Comments/Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **2** | Double Click anywhere on the existing Alert Type row to Edit it. | Verify:   * The “**VistA AWARE KB Editor – Alert Type**” screen is displayed. The screen will have the following four Tabs, “**Reminder Dialog**”, “**Order Dialog**”, “**Follow-up Dialog**”, and “**Comments Dialog**”. * Under the “**Reminder Dialog**” tab, the following fields are provided: * Alert Type Free-Text Box * Description Free-Text Box * Generic Name Free-Text Box * Reminder Dialog Free-Text Box * Search Button Searches Reminder Dialogs * TIU Template Free-Text Box * Search Button Searches TIU Templates * Alert Category Drop Down Box * Alert Type Mnemonic Free-Text Box * AWARE Source Site Free-Text Box * Active Check Box * Initiation Date Date Field * **OK** and **Cancel** buttons |  |  |  | The Initiation Date is maintain by the system. |
| **3** | Click on the “**Order Dialog**” Tab. | Verify:   * The “**Order Dialog**” Tab screen is displayed. * Existing Order Dialogs for the selected Alert Type will be displayed. * \*\*The “Add”, “Edit”, and “Delete” hyperlinks are displayed in the lower left side of the screen. * The “**VistA AWARE KB Editor – Order Dialog Box Text**” screen is displayed. |  |  |  | \*\* “Add” allows the user to create a new AWARE Alert Type Order Dialogs.  “Edit” allows the user to update an existing AWARE Alert Type Order Dialogs.  “Delete” allows the user to remove an existing AWARE Alert Type Order Dialogs. |
| **4** | Double Click anywhere on the existing Order Dialog row to Edit it. | Verify:   * The “**VistA AWARE KB Editor – Order Dialog**” screen is displayed. * The following fields are provided: * Alert Type Display Only * Order Dialog Box Text Free-Text Box * Desired Reminder Element Free-Text Box * Search Button Searches Reminders * Sequence Number Free-Text Box * Desired Order Dialog Package Drop Down Box * Orderable Item Required Check Box * Orderable Item Display Group Display Only * Orderable Item Name Display Only * Order Dialog Display Group Display Only * Order Dialog Package Display Only * Order Dialog Display Only * Additional Finding Display Only * Progress Note Display Only * **Update and Close, Update** and **Close** buttons |  |  |  |  |
| **5** | Click on the “**Follow-up Dialog**” Tab. | Verify:   * The “**Follow-up Dialog**” Tab screen is displayed. * Existing Follow-up Dialogs for the selected Alert Type will be displayed. * \*\*The “Add”, “Edit”, and “Delete” hyperlinks are displayed in the lower left side of the screen. * The “**VistA AWARE KB Editor – Follow-up Dialog Box Text**” screen is displayed. |  |  |  | \*\* “Add” allows the user to create a new AWARE Alert Type Follow-up Dialogs.  “Edit” allows the user to update an existing AWARE Alert Type Follow-up Dialogs.  “Delete” allows the user to remove an existing AWARE Alert Type Follow-up Dialogs. |
| **6** | Double Click anywhere on the existing Follow-up Dialog row to Edit it. | Verify:   * The “**VistA AWARE KB Editor – Follow-up Dialog**” screen is displayed. * The following fields are provided: * Alert Type Display Only * Order Dialog Box Text Free-Text Box * Desired Reminder Element Free-Text Box * Search Button Searches Reminder Dialogs * Sequence Number Free-Text Box * Desired Order Dialog Package Drop Down Box * Orderable Item Required Check Box * Orderable Item Display Group Display Only * Orderable Item Name Display Only * Order Dialog Display Group Display Only * Order Dialog Package Display Only * Order Dialog Display Only * Additional Finding Display Only * Progress Note Display Only * **Update and Close, Update** and **Close** buttons |  |  |  |  |
| **7** | Click on the “**Comments Dialog**” Tab. | Verify:   * The “**Comments Dialog**” Tab screen is displayed. * Existing Comments Dialogs for the selected Alert Type will be displayed. * \*\*The “Add”, “Edit”, and “Delete” hyperlinks are displayed in the lower left side of the screen. * The “**VistA AWARE KB Editor – Comments Dialog Box Text**” screen is displayed. |  |  |  | \*\* “Add” allows the user to create a new AWARE Alert Type Comments Dialogs.  “Edit” allows the user to update an existing AWARE Alert Type Comments Dialogs.  “Delete” allows the user to remove an existing AWARE Alert Type Comments Dialogs. |
| **8** | Double Click anywhere on the existing Comments Dialog row to Edit it. | Verify:   * The “**VistA AWARE KB Editor – Comments Dialog**” screen is displayed. * The following fields are provided: * Alert Type Display Only * Order Dialog Box Text Free-Text Box * Desired Reminder Element Free-Text Box * Search Button Searches Reminder Dialogs * Sequence Number Free-Text Box * Desired Order Dialog Package Drop Down Box * Orderable Item Required Check Box * Orderable Item Display Group Display Only * Orderable Item Name Display Only * Order Dialog Display Group Display Only * Order Dialog Package Display Only * Order Dialog Display Only * Additional Finding Display Only * Progress Note Display Only * **Update and Close, Update** and **Close** buttons |  |  |  |  |

Table - ST-004C: AWARE KB Alert Type Tab Test Step – Copy

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Comments/Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | Single Click on the existing Alert Type row to be copied. Then Click Copy or press Ctrl+Alt+C. | Verify:   * The Alert Type to be copied is highlighted. * A confirmation message is displayed (Copy the selected Alert Type?). |  |  |  |  |
| **2** | Click on the “**OK**” button to copy the Alert or the “**Cancel**” button to stop the copy. | Verify:   * **Knowledge Based Editor** message is displayed. Alert Type Copied successfully. New Alert Type: \*xxxxxxxxxx. |  |  |  | “\*xxxxxxxxxx” is the name of the new Alert Type. A success notification will be shown to the user. |
| **3** | Click on the “**OK**” button. | Verify:   * The user is returned to the Alert Type tab. * The newly copied Alert Type is displayed. |  |  |  | Upon successful copy, a new Alert Type with the same name as the source prefixed by “\*” is created. |
| **4** | Double Click anywhere on the new Alert Type or press Ctrl+Alt+E to Edit it. | * The copied “**Alert Type**” is displayed. * Edit the copied “**Alert Type**” as needed, following the T4\_AWARE\_UserGuide-KBEditor document. |  |  |  | “Edit” allows the user to update an existing AWARE Alert Type Follow-up Dialogs. |

# Test Case ST-005: QI TOOL Reports/Tracked Alerts

## Test Objective

To verify the system will allow the user to view Reports for AWARE Tracked Alerts.

## Requirements Mapping

* **2.6.2.5, 2.6.2.6., 2.6.2.7, 2.6.2.8**
  + 2.6.2.5.1 and related RSD sub-items.
  + 2.6.2.6.1 and related RSD sub-items.
  + 2.6.2.7.1 and related RSD sub-items.
  + 2.6.2.8.1 and related RSD sub-items.

## Intended Testers

QA.

## Precondition Steps

Not Applicable.

## Identified Test Data

Not Applicable.

## Test Steps

Table 19 - ST-005A: Reports– QITool Tracked Reports

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | Using a Web Browser navigate to the AWARE QITool URL:  <http://54.225.241.115/ReportServer?%2fReport+Project2&rs:Command=ListChildren> | Verify the “Report Project2” Web page is displayed.  The following reports should be displayed:   |  | | --- | | Aware\_Provider\_Full\_Drill\_Down\_Level\_Dashboard | | Aware\_Provider\_Full\_Drill\_Down\_Level\_Greater7Days\_Dashboard | | Aware\_Provider1\_All Alert Types\_Drill\_Down\_Level\_Greater7Days\_Dashboard | | Aware\_Provider1\_All Clinics\_Drill\_Down\_Level\_Greater7Days\_Dashboard | | Aware\_Provider1\_All Services\_Drill\_Down\_Level\_Greater7Days\_Dashboard | | Aware\_Provider1\_All Services\_Summary\_Level\_Dashboard | | Aware\_Provider1\_Composite\_All Services\_Summary\_Level\_Dashboard | | Aware\_Provider1\_Service\_All Clinics\_Summary\_Level\_Dashboard | | Aware\_Provider1\_Summary\_Level\_Dashboard | | Aware\_Site\_All\_Services\_Summary\_Drill\_Down\_Level\_Dashboard | | Aware\_Site\_All\_Services1\_Full\_Summary\_Drill\_Down\_Level\_Show\_Only\_GT\_7Days\_Dashboard | | Aware\_Site\_All\_ServicesClinics\_Summary\_Drill\_Down\_Level\_Dashboard | | Aware\_Site\_Composite\_All\_Services1\_Summary\_Drill\_Down\_Level\_Show\_Only\_GT\_7Days\_Dashboard | | Aware\_Site\_Full\_Summary\_Drill\_Down\_Level\_Dashboard | | Aware\_Site\_Full\_Summary\_Drill\_Down\_Level\_Show\_Only\_GT\_7Days\_Dashboard | | Aware\_Site\_Service\_All\_Clinics\_Summary\_Drill\_Down\_Level\_Dashboard | | Aware\_Site\_Service\_All\_Clinics1\_Full\_Summary\_Drill\_Down\_Level\_Show\_Only\_GT\_7Days\_Dashboard | |  |  |  |  |
| **2** | Select each of the reports and run with the required parameters. | Reports will display the required data in RSD 2.6.2.5, 2.6.2.6, 2.6.2.7, and 2.6.2.8 |  |  |  |  |

# 

# Test Case ST-006: CPRS AWARE Integration

## Test Objective

To verify the AWARE system integrates with CPRS and Alerts Providers as designed.

## Requirements Mapping

* **2.6.3**
  + 2.6.3.1.
  + 2.6.3.2 and related RSD sub-items.
  + 2.6.3.3 and related RSD sub-items.
  + 2.6.3.4.

## Intended Testers

Providers.

## Precondition Steps

1. The workstation being used to access AWARE CPRS Functionality has the new Patient Closeout Chart COM object Dynamic Link Library (DLL) called **vefaalerttracking.dll** loaded.
2. The CPRS User has been enabled and setup to use the Follow-up Alert Tracking (FAT) with enhanced CPRS “Patient Closeout Chart” COM Object: “**write4comobject**”.
3. The CPRS User has been assigned “**VEFAALRE**” SECONDARY MENU OPTION.
4. The CPRS User has been assigned the linkage to the Text Integration Utility (TIU) Template for each of the new AWARE Reminder Dialogs.
5. The CPRS User has Notifications turned On for “**Critical labs results (action)”** and “**Abnl Imaging Reslt, Need Attn (action**)”.

## Identified Test Data

Not Applicable.

## Test Steps

Table 20 - ST-006A: CPRS AWARE Integration **ADDRESS LATER** workflow

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | Provider Logs into CPRS. | Patient Selection page is displayed. |  |  |  |  |
| **2** | Provider selects Patient | CPRS Patient record is displayed. |  |  |  |  |
| **3** | Provider Orders an AWARE Tracked event like PSA Lab test. Then signs the order. | Requested order is displayed.  Order Status is changed to Pending after signing. |  |  |  |  |
| **4** | Lab Tech processes test with critical results. | CPRS Order is Complete. |  |  |  |  |
| **5** | Provider Selects New Patient in CPRS. | The AWARE Follow up Action Tracker Pop Up is Displayed.  The Provider must click the **“ADDRESS NOW”** button or the **“CLOSE AND ADDRESS LATER”** button. |  |  |  |  |
| **6** | Provider clicks the **“CLOSE AND ADDRESS LATER”** button. | The AWARE Alert is renewed.  The CPRS Patient Selection page is Displayed.  The Providers current Notifications are displayed in the lower section of the page. |  |  |  |  |
| **7** | Provider selects a new patient or they can Acknowledge the alert. | If a new patient was selected the patient CPRS record is Displayed.  If the Provider highlights the alert notification and clicks the **“Process”** button, the critical alert result is displayed and the alert is renewed. |  |  |  |  |
| **8** | Repeat steps 2 through 7 for all the AWARE Alert events the need testing. | N/A |  |  |  |  |

Table – ST-006B: CPRS AWARE Integration **ADDRESS NOW** workflow

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | Provider Logs into CPRS. | Patient Selection page is displayed. |  |  |  |  |
| **2** | Provider selects Patient | CPRS Patient record is displayed. |  |  |  |  |
| **3** | Provider Orders an AWARE Tracked event like PSA Lab test. Then signs the order. | Requested order is displayed.  Order Status is changed to Pending after signing. |  |  |  |  |
| **4** | Lab Tech processes test with critical results. | CPRS Order is Complete. |  |  |  |  |
| **5** | Provider Selects New Patient in CPRS. | The AWARE Follow up Action Tracker Pop Up is Displayed.  The Provider must click the **“ADDRESS NOW”** button or the **“CLOSE AND ADDRESS LATER”** button. |  |  |  |  |
| **6** | Provider clicks the **“ADDRESS NOW”** button. | The appropriate redirected AWARE TIU Template/Reminder Dialog Displayed.  If this is an outpatient the Location page will be presented for clinic choice. |  |  |  |  |
| **7** | Provider Selects the clinic. | Next the Progress Note selection is presented. |  |  |  |  |
| **8** | Provider enters the Progress Note. | Next the Reminder Dialog Template for the AWARE Alert is presented.  The provider enters the orders and or non-order follow-up actions. |  |  |  |  |
| **9** | Provider clicks the “**Finish**” button to initiate follow-up actions. | Next the AWARE Alert Follow-Up actions (Orders, Consults, Notes, Etc) are presented. Provider is asked to accept any orders. |  |  |  |  |
| **10** | Provider Signs the follow-up actions. | The AWARE Alert is cleared and the pop-up will no longer be displayed.  CPRS is closed or new patient selection is presented. |  |  |  |  |
| **11** | Repeat steps 2 through 7 for all the AWARE Alert events the need testing. | N/A |  |  |  |  |

# Test Case ST-007: AWARE SQL Server

## Test Objective

To verify the AWARE MS SQL Server for Tracked Alerts and QI Tool Reporting.

Validate that the AWARE SQL Server is loading and processing the data from the VistA files.

## Requirements Mapping

* **2.6.2.4** and related RSD sub-items

## Intended Testers

IT.

## Precondition Steps

* Must have access to the MS SQL Server.
* MS SQL Server must have MS SQL Server 2008R2, SQL Server Management Studio installed.
* The user must have knowledge on running SQL Queries.

## Identified Test Data

Not Applicable.

## Test Steps

Table - ST-007A: MS SQL Server Validation

| Test Step | Operator Action | Expected Results | Actual Results | P/F | Severity | Defect Description |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | Remote Desktop Connect (RDC) to the AWARE MS SQL Server. | AWARE SQL Server Desktop is displayed. |  |  |  |  |
| **2** | Launch SQL Server Management Studio. | MS SQL Server Management Studio is displayed. |  |  |  |  |
| **3** | Click Databases, AWARE, Tables, Alerts, Columns. | Verify all AWARE SQL Columns match the AWARE Alert Cache Audit/Log fields. See **Attachment A** for field mapping. |  |  |  |  |
| **4** | Click New Query and run the following query.  /\*\*\*\*\*\* Script for validating AWARE SQL DB is Truncated at 180 days  GT180D should be 0  \*\*\*\*\*\*/  SELECT COUNT(DATEDIFF(DAY, DATETIME1, CURRENT\_TIMESTAMP))GT180D  FROM [AWARE].[dbo].[Alerts$]  WHERE DATEDIFF(DAY, DATETIME1, CURRENT\_TIMESTAMP) > 180 | The count should equal zero. |  |  |  |  |
| **5** | Click New Query and run the following query.  /\*\*\*\*\*\* Script for validating AWARE SQL DB is Storing Alerts Daily. \*\*\*\*\*\*/  SELECT ALERTID, DATETIME1, DATEDIFF(DAY, DATETIME1, CURRENT\_TIMESTAMP)DAYSOLD,  FACILITYNAME  FROM [AWARE].[dbo].[Alerts$]  WHERE DATEDIFF(DAY, DATETIME1, CURRENT\_TIMESTAMP) <= 7 | The Alerts that were created in the last 7 days will be displayed. |  |  |  |  |

# Attachment A – Database Data Mapping

Table – Database Data Mapping

| **Data Element in VistA** | **Data Element in SQL Server Database (Table. Column)** | **Data Element in QI Reports** |
| --- | --- | --- |
| 19008.2,.01/ALERTID | Alerts$.ALERTID | Alert ID |
| 19008.2,1/DATETIME | Alerts$.DATETIME1 | Alert Date Time |
| 19008.2,2/FACILITY NAME | Alerts$.FACILITYNAME | Facility |
| 19008.2,3/SERVICE | Alerts$.SERVICE1 | Service |
| 19008.2,4/ORDERING PROVIDER | Alerts$.ORDERINGPROVIDER | Ordering Provider |
| 19008.2,5/ALERT RECIPIENTS | Alerts$.ALERTRECIPIENTS | N/A |
| 19008.2,6/PATIENT | N/A | The Patient Name field is not mapped to SQL due to Privacy Rules. |
| 19008.2,7/ALERT CATEGORY | Alerts$.ALERTCATEGORY | Alert Category |
| 19008.2,8/ALERT TYPE | Alerts$.ALERTTYPE | Alert Type |
| 19008.2,23/ALERTVALUE | Alerts$.VALUE1 | Alert Value |
| 19008.2,9/UNACKSTATUS | Alerts$.UNACKSTATUS | Unack Status |
| 19008.2,10/ACKRENEWDATE | Alerts$.ACKRENEWDATE | Alert Renew Date |
| 19008.2,11/DELETEDATE | Alerts$.DELETEDATE | Alert Delete Date |
| 19008.2,12/FAT STATUS | Alerts$.FATSTATUS | Alert Status |
| 19008.2,13/FAT PROVIDER | Alerts$.FATPROVIDER | Alert Provider |
| 19008.2,14/FOLLOW-UP PROVIDER ID | Alerts$.FOLLOW\_UPPROVIDERID | N/A |
| 19008.2,16/CLINIC | Alerts$.CLINIC | Clinic |
| 19008.2,17/PATIENTID | Alerts$.PATIENTID | Patient ID |
| 19008.2,18/ALERT RESULTOR | Alerts$.ALERTRESULTOR | N/A |
| 19008.2,19/RESULTOR PERSON CLASS | Alerts$.RESULTORPERSONCLASS | N/A |
| 19008.2,20/ALERT TYPE ORIG STATION | Alerts$.ALERTTYPEORIGSTATION | N/A |
| 19008.2,21/FOLLOWUP>7D | Alerts$.FOLLOWUPGT7D | Follow-up > 7 Days |
| 19008.2,22/ACK>7D | Alerts$.ACKGT7D | Alert > 7 Days |
| 19008.215,.01/FOLLOWUP ACTIONS | Followups$.FOLLOWUP | Follow-up |
| 19008.215,1/DATE/TIME | Followups$.FOLLOWUPDATETIME | Follow-up Date Time |
| N/A | Alerts$.STATION\_DATETIME\_ALERTID  This field is calculated during table loading. | N/A |
| 19008.2,25 ORIG ALERT TYPE | Alerts$.SPARE | N/A |
| N/A | Alerts$.FOLLOWUPLT7D  This field is calculated during table loading. | N/A |