

Test Case Workstation_Localization_1.0

for the

AWIPS

Contract

DG133W-05-CQ-1067

DCN: AWP.TE.SWCTR/TO8-0020

Prepared for:

U.S. Department of Commerce
NOAA/NWS Acquisition Management Division
SSMC2, Room 17364
1325 East-West Highway
Silver Spring, MD 20910

Prepared by:

Raytheon Company
STC Office
6825 Pine Street
Omaha, NE 68106

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Submitted By:

Test Engineer

Date

Approved By:

Program Manager

Date

Mission Assurance Quality

Date

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Revision History

Revision	Date	Affected Pages	Explanation of Change
1.0	5 December 07	ALL	Initial Release
2.0	17 January 08	iii, 4-7	PDT Redlines/NWS Comments
3.0	29 January 08	ALL	DT Redlines

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1.0 SCOPE

See Software Test Plan.

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2.0 APPLICABLE DOCUMENTS

2.1 Source Documents

- None

2.2 Reference Documents

- Software Test Plan for the Advanced Weather Information Processing System Project, Contract #DG133W-05-CQ-1067, 4 December 2007
- The AWIPS D-2D User's Manual Build 8.1
- Existing AWIPS 1 test procedures
- The VPN connection to the Silver Spring NWS AWIPS 1 test bed
- Release OB8.1 of the Weather Event Simulator (WES)

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3.0 TEST CASE DESCRIPTION

This test case demonstrates the localization capability (base and site) to support local configuration of application capability in CAVE. This includes the capability for CAVE to work off-line or connected to services.

3.1 Assumptions, Constraints and Preconditions

- TO8 software has been installed successfully
- CAVE, EDEX and pgAdmin III are running
- Data has been ingested
- Localization for a specific site not set

3.2 Recommended Hardware

See Software Test Plan.

3.3 Test Inputs

Section 4.0 below contains the test procedures for this test case. Sections 2.2 – 2.9 of the Software Test Plan contain general test inputs applicable to all TO8 test cases.

3.4 Test Outputs

The images and data will be displayed in CAVE.

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4.0 TEST SCENARIO

Step	Action	Result	Pass/Fail
1.	Open CAVE.	As CAVE opens splash screen indicates 'none' for localization. CAVE opens with a map centered on the CONUS in the main panel. A PST Northern Hemisphere (NH) map appears in the smaller, upper left panel followed by a North American (NA) PST map, and two smaller, zoomed in areas over the CONUS. No local radar menu is present in the menu bar.	
2.	Select 'Satellite', 'IR Window'.	An IR satellite image displays. CAVE can operate without access to a localization service in a 5-panel display.	
3.	Using Mouse Button (MB) 3 select 'Change Colormap'. Open the dropdown menu after 'Colormap:'. Scroll through the list. Clear the display by selecting 'Clear'.	A listing of the satellite colormaps appear. Note: The colormaps are generic in nature and are not identified with a specific site, such as koax.	DR #781 DR #865
4.	Select 'Volume'. Then select any available family of grids. Then press the Clear button to clear the display.	A family of gridded data displays when localization is not set. The display clears.	
5.	Redisplay the IR satellite image. Select 3-panel display from the menu bar.	The IR satellite appears in the main panel (same as in 5-panel). A NH PST map displays in the upper left, smaller panel and a NA PST map displays in the lower panel. CAVE can operate without access to a localization service in a 3-panel display.	
6.	Return to the 5-panel display by selecting the 5-panel display icon from the menu bar.	CAVE is placed back into the 5-panel display mode.	
7.	From the menu bar in CAVE using MB1 click on 'CAVE', 'Preferences'.	A Preferences window will open. Users will be able to establish localization settings using this window.	
8.	Single left click on 'Localization' to view the Localization settings.	The Localization settings will display.	
9.	Verify the Site is set to 'none'.	The Site is set to 'none'.	
10.	Single left click on the sideways triangle to expand the Localization menu.	The Localization menu will expand to reveal 'Site Preferences'.	
11.	Single left click on "Site Preferences" to view the Site information.	Site information will reveal the following: Site: DEV Site Full Name: Development Site Type: DEV	DR #779
12.	Re-select 'Localization' from the preferences window.	The Localization setting window redisplay.	
13.	In the Site: entry area, enter 'phfo' to set the localization to the Hawaii Forecast Office. Using MB1 select 'OK'.	The Preferences window will close.	
14.	Close CAVE, and then restart CAVE. Verify the splash screen indicates the site ('phfo') and the username of the currently logged in user (e.g., awips or user).	The splash screen will identify the site as 'phfo' and the correct username.	
15.	Verify the map in CAVE starts in a map view over the Pacific Ocean/Hawaiian Islands.	CAVE displays a State scale map focused on Hawaii and four smaller maps (NH, Pacific Ocean, Regional and State) centered on the in the 5-panel display.	

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Step	Action	Result	Pass/Fail
16.	Verify that a site specific (phfo) menu is available.	In the menu bar the PHFO menu displays with four Hawaiian Island radar sites available for display. They are: PHKI (Kauai), PHWA (South Shore), PHKM (Kohala), and PHMO (Molokai). The local regionalization is set to Hawaii.	
17.	Reopen the preferences window location under CAVE.	The Preferences window will open.	
18.	Under 'Localization', verify the Site is set to 'phfo'.	The Localization setting is set to 'phfo'.	
19.	Expand the Localization menu and select 'Site Preferences'.	The Site information will display in the Preferences window.	
20.	Verify the following settings: Site: PHFO Site Full Name: Honolulu Site Type: WFO	The settings are accurate.	DR #779
21.	Reset the localization to Omaha, KOAX by changing 'phfo' to 'koax' and select 'OK'.	Localization is set to Omaha, 'koax'.	
22.	Close CAVE, and then restart CAVE. Verify the splash screen indicates the site ('koax') and the username of the currently logged in user (e.g., awips or user).	The splash screen will identify the site as 'koax' and the correct username.	
23.	Verify the map in CAVE starts in a map view centered over the CONUS.	The koax localization displays. CAVE displays a CONUS map. In the 5-panel display, four additional small-scale map selections appear ranging from a NH PST view to a State view centered near Omaha.	
24.	Verify that a site specific (koax) menu is available.	In the menu bar the KOAX menu displays. Radar selections for 'koax' are available.	DR #779
25.	Reopen the preferences window location under CAVE.	The Preferences window opens.	
26.	Under 'Localization' verify the Site is set to 'koax'.	The Localization setting is set to 'koax'.	
27.	Expand the Localization menu and select 'Site Preferences'.	The Site information will display in the Preferences window.	
28.	Verify the following settings: Site: KOAX Site Full Name: Omaha Site Type: WFO	The settings are accurate.	DR #779
29.	Close the Preferences window and select 'koax', 'koax 4 Bit Products', koax 4bit Reflectivity, '0.5 Refl' from the menu bar. Note: If not available, any other radar product can be selected. Clear the display by selecting 'Clear'.	Omaha radar, 0.5 base reflectivity displays using the Omaha localization. CAVE clears.	
30.	Select 'Satellite', 'IR Window'.	An IR satellite image displays using the Omaha localization.	
31.	Using MB3 select 'Change Colormap'. Open the dropdown menu after 'Colormap:'. Scroll through the list.	A listing of the satellite colormaps appear. Note that the koax colormaps appear. They will appear similar to site/koax/XXXX where XXXX is the name of the particular colormap. Through the use of colormaps, AWIPS provides menu localization.	
32.	Close the 'Change Colormap' dialog box and clear the display. Select 'Maps' from the menu bar and 'HiRes	A topographic map image displays in the main pane.	

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Step	Action	Result	Pass/Fail
	Topo Image'.		
33.	Clear the display. Select 'Maps' from the menu bar and 'Cities'.	A list of cities displays on the main pane.	
34.	Zoom-in over the central CONUS.	Additional cities display the more the map is zoomed.	
35.	From 'Maps' select 'County Names'. Note: may have to zoom-in further to see county display.	A list of counties displays on the main pane.	
36.	Clear the display by pressing the Clear button.	The CAVE display clears.	
	End of Test		

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5.0 REQUIREMENTS VERIFICATION TRACEABILITY MATRIX (RVTM)

Number	Description	Test Step(s)
ADE_TO6_003_001	AWIPS CAVE shall acquire localization preferences from a localization service	13-14, 21-22
ADE_TO6_003_002	AWIPS CAVE shall maintain the ability to operate without access to a localization service	1-6
ADE_TO6_004_001	The AWIPS shall contain a localization service capable of storing user preferences	7-12, 15-18, 19-20, 25-28
ADE_TO6_004_002	The AWIPS shall contain a localization service capable of storing site preferences	5-12, 15-18, 219-28
ADE_TO6_004_003	The AWIPS shall contain a localization service capable of storing base preferences	5-12, 15-18, 19-28
AWIPS_TO8_025.1.3	AWIPS service shall provide menu localization	1, 16, 24, 29-30
AWIPS_T08_025.2.3	The MapSrv shall provide a service to provide topographic map data for area map data	32
AWIPS_T08_025.3	AWIPS service shall provide vector maps	1, 5, 15, 23, 33-35

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