

Release: Baseline	Test Case Creation Testing Engineer: Minghsiu Shih
Title: Alert Request Test Case	Date Test Case created: February 22, 2006
Test Case Execution Engineer:	Pass/Fail/Postpone:
Test Platform:	Total Test Time:
Start Date:	Version Number:
Complete Date:	CI:
Last Modified By: Scott Nicholson	Test Steps:
Date Modified: 8/21/09	

Test Case #: Radar Alert Request_M

Purpose

This test case demonstrates the capability of AWIPS to generate an area for alert using data displayed on map backgrounds.

Requirement

Not Applicable.

Prerequisite Conditions

- AWIPS shall provide the capability to automatically detect and log the following systems events.
- Receipt of Specified Data
- AWIPS shall provide the user the capability to define actions to be taken upon detection of a system event.
- AWIPS shall provide the user the capability to assign events to individual user notification classes.
- AWIPS shall provide a distinct audio and visual notification for each notification class.

- AWIPS shall automatically monitor observations, forecasts, and guidance data and notify the user when detection criteria are met.
- AWIPS shall provide an interactive, graphical method to allow the user to define two unique alert areas for monitoring of NEXRAD data.
- The large pane on that D2D is at the WFO scale.
- ORPGCommsMgr server are up and running.

Test Procedures

Step #	Action	Expected Results	Actual Results	Pass(P)/ Fail(F)	Comments
1	Open a terminal window on the workstation.	A terminal window opens.			
2	Login into the server and navigate to the edex logs.	The /awips/RadarServer/data/logs/radarserver-log directory is located.			

3	<p>Search the ORPGCommsMgr running process ID that is site independent. Type: ps -ef grep ORPG Search for radarServer and verify it has started: Type: grep radarServer radarserver-log</p> <p>The sample output:</p> <pre> Fxa 5156 1 5 Feb 3 ? 136:01 /awips/fxa/bin/ORPGComms Mgr KENX Fxa 5190 1 13 Feb 3 ? 173:01 /awips/fxa/bin/ORPGComms Mgr KBOX Fxa 5173 1 3 Feb 3 ? 183:01 /awips/fxa/bin/ORPGComms Mgr KOKX Fxa 5207 1 0 Feb 3 ? 22:01 /awips/fxa/bin/ORPGComms Mgr TBWI opMode=storm vcp=21 cuts=[5, 15, 24, 34, 43, 60, 99, 146, 195] rdaOp=online rdaStat=operate rdaAlarm= dte=refl,vel,sw rpgOp=online rpgStat=operate rpgAlarm=none avail=avail rdaVer=11.1 rpgVer=11.0 </pre>	Verify the ORPG process ID with site id included.			
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4	<p>Locate the current ORPGCommsMgr files from the directory. Type: ll -lrt ORPG*</p> <pre>-rw-rw-rw- 1 fxa fxalpha 1948 Feb 28 16:46 ORPGCommsMgr5173ds1-tbw3000026 -rw-rw-rw- 1 fxa fxalpha 26333 Feb 28 16:46 ORPGCommsMgr5156ds1-tbw3000026 -rw-rw-rw- 1 fxa fxalpha 25183 Feb 28 16:46 ORPGCommsMgr5190ds1-tbw3000026 -rw-rw-rw- 1 fxa fxalpha 2420 Feb 28 16:46 ORPGCommsMgr5207ds1-tbw3000026</pre>	<p>Verify the ORPGCommsMgr files are list with process ID included.</p>			
5	<p>Tail one of the ORPGCommsMgr log file and note the site id, kxxx. Type : tail -f <current ORPG file> <note:> kxxx is the site's dedicated radar.</p>	<p>The current ORPG file is followed as it is updated.</p>			
6	<p>Open a D-2D session.</p>	<p>The D-2D is opened.</p>			
7	<p>Select the WFO scale from the menu bar.</p>	<p>The WFO scale displays in the main pane.</p>			
8	<p>On the D-2D menu bar select kxxx -> Alert request. The kxxx site id is the same as choosing in the step 5.</p>	<p>The Alert Request window opens.</p>			
9	<p>Select kxxx from the RPG option menu. Click on the Alert Area #1 radio button. Click the Clear button, then Global Clear. <note:> kxxx is the site's dedicated radar.</p>	<p>A Confirm Delete dialog box opens. Select YES to confirm change.</p>			

10	Select the Load/Edit Area button.	A message is shown in the Alert Request window bottom that Area #1, kxxx has been loaded. Alert Area #1 Editor (Editable) is shown in the large pane.			DR #2934
11	Press and hold mouse button 3 (right button) over the large pane at a corner of the area you wish to alert.	A pop-up menu appears.			
12	Choose Select Area .	An anchor point with an attached stretch rectangle appears on the screen.			
13	Stretch the rectangle across the desired area, and press mouse button 2 (middle button).	The Alert Cells fill in the rectangle area.			
14	Remove a block of the cells by again pressing and holding mouse button 3 (right button) over a cell and selecting Select Area .	The Select Area is selected. An anchor point with an attached stretch rectangle appears on the screen.			
15	Stretch the rectangle over part of the area of cells, and press button 2 (middle button).	That part of the area is erased.			
16	Remove or add individual cells by clicking mouse button 3 (right button) over any area.	Cell is added or removed.			

17	Click the Add button in the Alert Request window.	A product line appears in the Alert Request dialog.			Variance: There is no Add Request Defs dialog. Product holders are automatically added to the Alert Request window with dropdown options
18	In the Category menu, choose Velocity .	Velocity is defined.			DR #2936
19	In the Threshold Codes , select 15 kts .	15 kts is defined.			
20	In the Alert Request dialog toggle the option to No (if necessary).	The product fields are selected with the Category, Threshold Code, and Request Product Flag: list in the Alert Request window as Velocity, (#1) 15kts, no.			
21	Repeat step 17-20 to add more alerts at the Alert Area #1 see as the Table 1. Alert Selections. Click Exit button.	A Confirm Exit dialog appears.			

22	MB1 click Cancel in the Confirm Exit dialog. Then click Send Request.	The Confirm Exit dialog closes. The Alert Area is saved. <Note:> The ORPGCommsMgr log transmitted BoxBits bit pattern will show a matching pattern of bits to that area edited/displayed on D2D; 1 = area filled in, 0 = empty area.			
23	Click Exit.	The Alert Request windows and graphics are cleared from the screen.			
24	On the D-2D menu bar select kxxx -> Alert request . The kxxx site id is the same as choosing in the step 5.	The Alert Request window opens. Alert Area #1 Editor (Editable) is shown in the large pane.			Variance: Alert Area loads with its default set in Edit mode.
25	If necessary, select kxxx from the RPG option menu in the Alert Request window. Click on the Alert Area #1 radio button. Click the Load/Edit Area button. <note:> kxxx is the site's dedicated radar.	A message is shown in the Alert Request window bottom that Area #1, kxxx has been loaded .			DR #2934
26	Click Send Request.	The request is sent. Acknowledgment of successful transmission of the Alert Request appears in the Radar Status Bar. The message reads Alert request was sent for Area #1, kxxx .			DR #2934

27	In the tail log file that was open in the step 5 verify the Alert Request was sent and shown as: RadarClientC. EVENT: From Radar Server -- Alert Request RadarClient.C EVENT: Sending alert request to RPG NexradAlertRequestMsg.C EVENT: From RadarServer: Alert Request for area 1 ORPGClient.C EVENT: orpg Normal channel: ### bytes written	Verify the messages shown request sent.			
28	In the Alert Request window click on the Alert Area #2 radio button then the Load/Edit Area button.	A message is shown in the Alert Request window button that Area #2, kxxx has been loaded. Alert Area #2 Editor (Editable) is shown in the large pane.			
29	Press and hold mouse button 3 (right button) over the large pane at a corner of the area you wish to alert.	A pop-up menu appears.			
30	Choose Select Area .	An anchor point with an attached stretch rectangle appears on the screen.			
31	Stretch the rectangle across the desired area (include part of Alert Area #1), and press mouse button 2 (middle button).	The Alert Cells fill in the rectangle area.			

32	Repeat step 17-20 to add up to 10 alerts at the Alert Area #2 see as the Table 1. Alert Selections.	The product is added to the Category, Threshold Code, and Request Product Flag: list in the Alert Request window.			
33	Repeat step 17-20 to add one more alert.	The Add Category Error window opens, stating that no more than 10 selections can be made (the limit is 10).	No error window appears. The request gets hung. The user must click Cancel in the Radar Application window that appears, remove the 11 th product and retry.		DR #2933
34	Click OK button.	The Add Category Error window closes.			
35	Select kxxx from the RPG menu, and click Send Request . The kxxx site id is the same as choosing in the step 5.	Acknowledgment of successful transmission of the Alert Request appears in the Radar Status Bar. The message reads Alert request was sent for Area #2, kxxx .			

36	In the tail log file that was open in the step 5 verify the Alert Request was sent and shown as: RadarClientC. EVENT: From Radar Server -- Alert Request RadarClient.C EVENT: Sending alert request to RPG NexradAlertRequestMsg.C EVENT: From RadarServer: Alert Request for area 2 ORPGClient.C EVENT: orpg Normal channel: ### bytes written	Verify the messages shown request sent.			
37	Wait for Alert Messages to appear on the workstation. Messages will appear as Red Banners and on the Radar Status Bar when one of the indicated thresholds is met.	Verify setting and receiving alert messages.			DR #2934
38	Clear the large pane.	The large pane clears			
39	Close all opened dialogs and close D2D.	All opened dialogs are closed. D2D closes.			
This concludes the test case.					

Table 1 Alert Selections	
Alert Choices	Range Choices
Grid Velocity <1>	15 kts, 25 kts, 35 kts, 45 kts, 50 kts, 60 kts
Grid Comp Refl <2>	20 dBZ, 30 dBZ, 40 dBZ, 50 dBZ, 60 dBZ, 70 dBZ
Grid Echo Tops <3>	30 kft, 40 kft, 50 kft, 60 kft
Grid SWP <4>	30%, 40%, 50%, 60%, 70%
Grid VIL <6>	35 Kg/m2, 40 Kg/m2, 45 Kg/m2, 50 Kg/m2, 55 Kg/m2, 65 Kg/m2
Vol VAD <7>	15 kts, 20 kts, 25 kts, 30 kts, 35 kts, 40 kts
Vol Max Hail Size <8>	1 x .25 in, 2 x .25 in, 3 x .25 in, 4 x .25 in, 5 x .25 in, 6 x .25 in
Vol Mesocyclone <9>	UN-COR, 3D-COR, MESO
Vol TVS <10>	ETVS, TVS
Vol Max Storm Ref <11>	35 dBZ, 40 dBZ, 45 dBZ, 50 dBZ, 55 dBZ, 60 dBZ
Vol Prob Hail <12>	10%, 20%, 30%, 50%, 70%, 90%
Vol Prob Svr Hail <13>	10%, 20%, 30%, 50%, 70%, 90%
Vol Storm Top <14>	20 kft, 30 kft, 40 kft, 50 kft, 60 kft, 70 kft
Vol Max 1 hr PARA <15>	10x.1 in, 20x.1 in, 30x.1 in, 40x.1 in
Fcst Max Hail Size <25>	1 x .25 in, 2 x .25 in, 3 x .25 in, 4 x .25 in, 5 x .25 in, 6 x .25 in
Fcst Mesocyclone <26>	UN-COR, 3D-COR, MESO
Fcst TVS <27>	ETVS, TVS
Fcst Max Storm Ref <28>	35 dBZ, 40 dBZ, 45 dBZ, 50 dBZ, 55 dBZ, 60 dBZ
Fcst Prob Hail <29>	10%, 20%, 30%, 50%, 70%, 90%
Fcst Prob Svr Hail <30>	10%, 20%, 30%, 50%, 70%, 90%
Fcst Storm Top <31>	20 kft, 30 kft, 40 kft, 50 kft, 60 kft, 70 kft