

AE IV&V Test Case TO8_0002

Revision History

Rev. No.	Date	By	Description of Changes
1	4/21/08	Susan Williams	Initial version

1. TEST CASE IDENTIFIER

TO8_0002

2. NARRATIVE

The objective of this test case is to determine whether TO8 software can be successfully installed with the documentation/instructions supplied by Raytheon.

In previous task orders, such as TO6 the supplied instructions did not contain all the steps required for successful installation of the AWIPS II software. We will determine if this situation has been corrected for TO8.

3. REFERENCES (Optional)

None

4. FEATURES TO BE TESTED

Verify that EDEX can be installed so that it runs (ingests test data).

Verify that CAVE can be installed and that it can display data ingested by EDEX.

Verify that the ADE can be installed and then successfully built, and deployed to the EDEX installation area and that data can still be displayed.

5. SETUP INSTRUCTIONS

Step	Setup Procedure	Result
1	Start with a PC that fulfills the hardware requirements in the Raytheon Software Test Plan and runs Red Hat Enterprise Linux WS release 4.	
2	Mount the TO8 installation DVD or verify that it has been copied to disk and is available on the machine you will be installing on. This directory will be referred to as the <DVD> below.	

6. ACCEPTANCE CRITERIA

Step(s)	Criteria	Result
1-4	Successfull installation of EDEX.	
5-7	Successfull installation of CAVE.	
8-12	Successfull installation of ADE.	

7. TESTING PROCEDURE

Step	Procedure	Expected Result	Actual Result
1	In a terminal window as root user, change directory to <DVD> and run ./setup_edex.sh.	The EDEX server installation wizard should come up.	

AE IV&V Test Case TO8_0002

Step	Procedure	Expected Result	Actual Result
2	<p>Proceed through the wizard screens – accept the copywrite. Decide on an installation directory and enter that in the screen that asks for it. Select "Server installation" and DO NOT select "Cluster support". Change user and group to your default user and group at the bottom of the Configuration screen. Step through the installation wizard until the edex install has finished. Exit out of the wizard when done.</p>	<p>The wizard should no longer be displayed and the selected installation directory should be populated. And, /etc/init.d should contain the four start up scripts for the edex daemons: edex_activemq, edex_mule, edex_postgres, edex_tomcat.</p>	
3	<p>In a terminal window as root start the edex daemons. Change directory to /etc/init.d and start them in order:</p> <ol style="list-style-type: none"> 1) ./edex_postgres start 2) ./edex_activemq start 3) ./edex_mule start <p>Shutdown mule and then restart it:</p> <ol style="list-style-type: none"> 4) ./edex_mule stop 5) ./edex_mule start <p>And then start tomcat:</p> <ol style="list-style-type: none"> 6) ./edex_tomcat start <p><i>Note: These daemon start up scripts are not covered in the Raytheon provided documentation.</i></p>	<p>The daemons should start up without errors. Check the mule log in <install_dir>/edex/mule/logs/*.log for errors.</p>	
4	<p>Confirm that data can be ingested by copying test data into the edex sbn directories. No test data comes with TO8, but the test satellite data that came with TO6 will work if you still have it:</p> <pre>cp <TO6_install_dir>/edex/opt/data/sbn/tst/satellite/* <install_dir>/edex/opt/data/sbn/sat.</pre> <p>Wait a few minutes for data to be ingested and then start up the Test Driver Interface by navigating to http://localhost:8080/uEngineWeb/ in your browser. Select "Request Product" for "Satellite Data."</p>	<p>The mule log should show the satellite data being ingested. The Test Driver should display a satellite image.</p>	

AE IV&V Test Case TO8_0002

Step	Procedure	Expected Result	Actual Result
	End of EDEX Install. Next: CAVE install.		
5	In a terminal window as yourself, change directory to <DVD> and run ./setup_cave.sh.	The CAVE installation wizard should come up.	
6	Proceed through the wizard screens – accept the copywrite. Decide on an installation directory and enter that in the screen that asks for it - <EDEX_install_dir>/cave is fine. Set the hdf5 directory to be the same as the EDEX hdf5 directory. Step through the wizard and complete the install. Quit the wizard when the install is done.	The wizard should no longer be displayed and the selected installation directory should be populated.	
7	Start up EDEX if it is not already running. Copy in the satellite data again if it has been more than hour since it was first copied (it may have been purged). Start up cave: <pre>cd <CAVE_install_dir> ./cave.sh</pre> After green times for satellite have appeared, select to display one of the satellite products.	Cave should come up. It should look very similar to D-2D. After no more that 60 sec. green times for the satellite data should appear in the satellite menus. Selecting a satellite product should cause it to display in the main pane.	
	End of CAVE Install. Next: ADE install.		
8	In a terminal window as yourself, change directory to <DVD> and run ./setup_ade.sh.	The ADE installation wizard should come up.	
9	Proceed through the wizard screens – accept the copywrite. Decide on an installation directory and enter that in the screen that asks for it. Choose to accept or not accept installation of the topography data – testing should be successfull either way. Step through the wizard and complete the install. Quit the wizard when the install is done.	The wizard should no longer be displayed and the selected installation directory should be populated.	

AE IV&V Test Case TO8_0002

Step	Procedure	Expected Result	Actual Result
10	Configure the ade install directory: cd <ADE_install_dir>/projects/AWIPSEdex cp build/lib/mule/lib/opt/spring-2.0.6.jar build/lib/compile cp build/lib/mule/lib/opt/commons-lang- 2.3.jar build/lib/compile cp build/lib/mule/lib/mule/mule-core- 1.4.0.jar build/lib/compile cp build/lib/mule/lib/mule/mule-module- client-1.4.0.jar build/lib/compile cp build/lib/mule/lib/opt/log4j-1.2.14.jar build/lib/compile cp build/lib/mule/lib/mule/mule-transport- file-1.4.0.jar build/lib/compile cp opt/pmd/xercesImpl-2.6.2.jar build/lib/compile	None	

AE IV&V Test Case TO8_0002

Step	Procedure	Expected Result	Actual Result
11	<p>Continue ADE configuration:</p> <pre>cd <ADE_install_dir>/projects/AWIPSEdex/build</pre> <p>Edit build.xml, change the 'else' statement:</p> <pre><!-- Properties to set the installation directory and the javadoc directory --> <condition property="install.dir" value="{installto}" else="/awips"> <isset property="installto"/> </condition></pre> <p>to your EDEX install directory:</p> <pre><!-- Properties to set the installation directory and the javadoc directory --> <condition property="install.dir" value="{installto}" else="<EDEX_install_dir>"> <isset property="installto"/> </condition></pre> <p><i>Note: This configuration step is not covered in the Raytheon provided documentation.</i></p>	None	

AE IV&V Test Case TO8_0002

Step	Procedure	Expected Result	Actual Result
12	<p>Now compile and deploy. Make sure you're pointing to the correct version of ant. If not, you will get a "filelist..." error when you try to deploy.</p> <pre> cd <ADE_install_dir>/projects/AWIPSEdex/build ant clean ant build ant jibx ant client (really only needed by cave builds) ant deploy (assuming you wish to deploy edex into a runtime location) </pre> <p>Ant will deploy to <EDEX_install_dir>.</p> <p>Restart and run EDEX as described in steps 3 and 4.</p>	<p>There should be no errors in the ant command outputs. EDEX should run as before.</p>	
	End of test		