

AE IV&V Test Case TO8_0005

Revision History

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

1. TEST CASE IDENTIFIER

TO8_0005

2. NARRATIVE

This test case compares the performance between AWIPS D2D and CAVE from AWIPS II TO6 to TO8. The GSD test case results from AWIPS II TO6 are attached as a resource for comparison.

Caveat: This test must be run on the same hardware as was done in TO6.

3. REFERENCES (Optional)

None

4. FEATURES TO BE TESTED

Elapsed times and actions are tested and compared between the two versions of AWIPS II.

5. SETUP INSTRUCTIONS

Step	Setup Procedure	Result
1	Start CAVE	CAVE starts
2	Start AWIPS D2D	AWIPS D2D starts

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6. ACCEPTANCE CRITERIA

Step(s)	Criteria	Result
1	Procedures are successfully created and saved in AWIPS D2D and CAVE.	
2-6	Products successfully display and an elapsed time is recorded for each product(s).	

7. TESTING PROCEDURE

Below are GSD's Test Case results from TO6. The same steps will be tested on TO8 and AWIPS D2D (build OB8.2).

GSD Test Case Results for ADE 1.0 (TO6)

Tests run on AWIPS II are given a pass if they meet or exceed the current AWIPS; a failure otherwise. Test cases whose times less than those of the current AWIPS but are very close are also given a passing grade.

This series of test cases will test the capability of ADE 1.0, with the exception of the HydroEditor, SkewT and GFE. The majority of the tests are performance related.

GSD_Test_TO6_0000 – Capability

Test Case	Results on AWIPS	Results on AWIPS II	Action
Create and save a procedure using at least 4 different products available from the main menu and Volume Browser.	The procedure was saved.	<p>Test Passed</p> <p>Loaded US States, US Rivers, and Observations first, then loaded Grid. Once the grid was loaded, there was an immediate slow response.</p> <p>The procedure was saved.</p>	<p>Current AWIPS: Loaded GFS40 RH Surface from VB, Metar Station Plot from Obs menu, InterStates from Maps menu, and Fixed Buoys from Obs menu.</p> <p>AWIPS ADE 1.0 TO6: Loaded US States and US Rivers from Add Layer->Map Backgrounds. Loaded Grid-RH 2.0m and Observations from File->Volume Browser.</p>

GSD_Test_TO6_0001 – Performance

Test Case	Results on AWIPS	Results on AWIPS II	Action
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Time it takes to load the saved procedure.	The procedure loaded and took 1.57 seconds using 1 frame.	<p>Test Passed</p> <p>Products loaded from main menu on CAVE...Add Layer -> Map Backgrounds -> US States, Satellite -> IR Window, Add Layer -> Demos -> AVHRR Tiled Resource, Add Layer -> Demos -> Marine Warnings.</p> <p>Time = 2.22 seconds</p>	<p>Current AWIPS: File->Procedures->Open procedure->Load.</p> <p>AWIPS ADE 1.0 TO6: File->Load Bundle, select the saved bundle and select OK.</p>
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GSD_Test_TO6_0002 - Performance

Test Case	Results on AWIPS	Results on AWIPS II	Action
Time it takes to load All Tilts EDEX script.	<p>All Tilts took 11.15 seconds to load the first time and 1.01 seconds to load the second time using 1 frame.</p> <p>The second time was much faster since the data had already been stored.</p>	<p>Test Passed</p> <p>1.70 seconds to load from the Run EDEX Script GUI.</p>	<p>Current AWIPS: The All Tilts Z/V function that is used for this test case is under the local radar menu.</p> <p>AWIPS ADE 1.0 TO6: Copied and pasted the All Tilts script into the Run EDEX Script GUI located on the File menu.</p>

GSD_Test_TO6_0003 – Performance

Test Case	Results on AWIPS	Results on AWIPS II	Action
Time it takes to load Satellite data from main menu. Record each one independently.	<p>IR Window - took 0.74 seconds</p> <p>Visible - took 0.66 seconds</p>	<p>Test Passed</p> <p>IR Window - took 0.77 seconds</p> <p>Visible - took 0.88 seconds</p>	<p>Both Systems: Individually loaded the IR Window and Visible Satellite images from the Satellite menu</p>

GSD_Test_TO6_0004 – Performance

Test Case	Results on AWIPS	Results on AWIPS II	Action

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<p>Time it takes to load Model, Satellite, Radar and ASCII data from the VB. Record each one individually.</p>	<p>GFS40 Rel Humidity Surface - took 0.41 seconds using 1 frame</p>	<p>Test Passed Grid - RH 2.0m - took 2.79 seconds Observations (ASCII) - took 3.14 seconds Radar 0.5 Refl - took 0.99 seconds Satellite East Conus IR Window - took 1.16 seconds</p>	<p>Current AWIPS: Individually loaded Grid data from the File->Volume->Browser GUI. Grid is the only available selection from the VB AWIPS ADE 1.0 TO6: Individually loaded Grid, Satellite, ASCII, and Radar data from the File->Volume Browser GUI.</p>
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GSD_Test_TO6_0005 – Performance

Test Case	Results on AWIPS	Results on AWIPS II	Action
<p>Time it takes to overlay Model, Satellite, Radar and ASCII data from the VB. Try as a procedure.</p>	<p>GFS40 Rel Humidity Surface - took 0.41 seconds using 1 frame</p>	<p>Test Passed Total time for all 4 to display - 44.34 seconds Timing is based on manually selecting each product from the VB one at a time. Timing is from the start of the Satellite East Conus IR Window, when I hit the OK button, till the Grid Temperature 2.0m loaded Loaded them in the following order: Satellite Observations Radar Grid</p>	<p>Current AWIPS: Individually loaded Grid data from the File->Volume->Browser GUI. Grid is the only available selection from the VB AWIPS ADE 1.0 TO6: Individually loaded Grid, Satellite, ASCII, and Radar data from the File->Volume Browser GUI.</p>

GSD_Test_TO6_0006 – Performance

Test Case	Results on AWIPS	Results on AWIPS II	Action
<p>Run live SBN data end-to-end for a period of 5 days.</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>

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Step	Procedure	Expected Result	Actual Result
1	Create and save a procedure in CAVE and AWIPS D2D by using at least 4 different products available from the main menu and Volume Browser. Use the same products as in GSD_Test_TO6_0000 above, if applicable.	Procedures are created and saved in CAVE and AWIPS D2D.	
2	Record the time it takes to load the saved procedures from Step 1. For CAVE, use the same products in GSD_Test_TO6_0001 , if applicable.	Saved procedures are displayed and the time is recorded.	
3	Time it takes to load All Tilts from the Local Radar menu.	All Tilts displays and the time is recorded.	
4	Time it takes to load the IR and Visible Satellite products from the Satellite menu. Record each one separately.	Satellite products display and the time is recorded for each product.	
5	Time it takes to load Model, Satellite, Radar and ASCII products from the Volume Browser. Use the same products as GSD_Test_TO6_0004 listed above, if applicable. Record each one separately.	Each product displays and the time is recorded for each.	
6	Time it takes to overlay Model, Satellite, Radar and ASCII data from the Volume Browser. Try as a procedure. Use the same products as GSD_Test_TO6_0005 listed above, if applicable.	Procedure displays and time is recorded.	
	End of test		