

AE IV&V Test Case TO8_0010

Revision History

Rev. No.	Date	By	Description of Changes
1	4/15/08	GSD-ALL	Initial Release

1. TEST CASE IDENTIFIER

TO8_0010

2. NARRATIVE

This test case will determine the integrity of the data on AWIPS II for the TO8 software release. The following information will be recorded:

- Visual comparison of AWIPS II TO8 data product display to the current AWIPS
- Data sampling (AWIPS II vs AWIPS) for observations, grids, etc.
- Listings of text-based data from postgres database
- Log file comparisons for SBN data ingest
- Stored data file comparison

3. REFERENCES

- Raytheon's TO8 Test Plan/Procedures
- AWIPS OB8.1 Users Guide

4. FEATURES TO BE TESTED

The attributes to be tested include the following:

- Visual comparison of AWIPS II TO8 data product display to the current AWIPS (side-by-side comparison)
- Data sampling (AWIPS II vs AWIPS) for observations, grids, etc.
- Listings of text-based data from postgres database
- Log file comparisons for SBN data ingest
- Data file comparison (ncdump vs hdfview)

5. SETUP INSTRUCTIONS

The following must be available prior to executing this test procedures:

- A hardware platform meeting the AWIPS II specifications (see Raytheon's Test Plan)

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- A hardware platform meeting the AWIPS specifications
- TO8 software installed successfully on the AWIPS II hardware platform
- AWIPS OB8.1 software installed successfully on the AWIPS hardware platform
- Data are ingested from the SBN on both the AWIPS II and AWIPS platforms
- AWIPS II software (CAVE, EDEX and pgAdmin III) up and running on the AWIPS II hardware components
- AWIPS software up and running on the designated hardware platform

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6. ACCEPTANCE CRITERIA

Step(s)	Criteria	Result
1	Data integrity of AWIPS II TO8 is equivalent to AWIPS OB8.1	

7. TESTING PROCEDURE

Step	Procedure	Expected Result	Actual Result
1	Compare side-by-side, product by product, data products displayed on AWIPS II and AWIPS. The products must be displayed on the same scale and the products must have the same date and time. Include all data types (observations and forecasts).	The products displayed on AWIPS II and AWIPS agree when displayed on the same scale, for the same date and time.	
2	When the products in Step 1 above are displayed on each platform, sample the displayed product. Take an example screen shot of each system for each type of data compared.	The sample readouts are the same on AWIPS II and AWIPS.	
3	From the postgres database on each platform, extract the same text products. Verify that the products are identical. Print or save to file representative products.	The text products are the same.	
4	<p>Compare the data ingest log files for each decoder on the AWIPS platform with the ingest log files on AWIPS II. As AWIPS II stores all ingest events in one file, a script will be written to extract like events. For example, all satellite entries in the Mule log file will be extracted and compared to the Satdecoder log file on the AWIPS platform. The logging level in the AWIPS II file may need to be modified to record similar events that are currently recored in AWIPS.</p> <p>Verify that the logs files for each system are getting the same products and have similar event times. Save representative log file from each system.</p>	<p>The same events are recorded in the AWIPS II Mule log file as in the AWIPS complementary log file.</p> <p>The data storage times for like products from the SBN are the similar for both systems. No products are being dropped.</p>	
5	Compare the data files for select products (grids, satellite, point data) using ncdump (for AWIPS netCDF files) and hdfview (for AWIPS II files). Save output form each.	All the data in the netCDF files are also in the hdf5 files.	
	End of test		