

AE IV&V Test Case TO8_8009

Revision History

Rev. No.	Date	By	Description of Changes
1.0	4/17/08	Jim Williams	Initial test case submission

1. TEST CASE IDENTIFIER

TO8_8009

2. NARRATIVE

Evaluate (remote) workstation performance and stability. The workstations will run CAVE only. The EDEX server-side will ingest live SBN data and run in cluster mode on "baseline" Dell 2950 servers. The workstations and cluster will reside on a dedicated Gig-E LAN. Evaluate response times for product call-up and display in CAVE. Attempt to load the network with several CAVE workstations and evaluate performance of the system.

3. REFERENCES (Optional)

Raytheon Omaha test platform for server-side configuration

4. FEATURES TO BE TESTED

Performance of CAVE – product call up and response times of displays in CAVE compared to AWIPS I D-2D.

5. SETUP INSTRUCTIONS

Step	Setup Procedure	Result
	Dell 2950 servers configured according to Raytheon's specs for the new PX servers. The 2950 servers will be configured in a SEDA cluster on a dedicated GigE LAN. Baseline	

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Step	Setup Procedure	Result
	AWIPS LX workstations will be networked to the dedicated GigE LAN.	

6. ACCEPTANCE CRITERIA

Step(s)	Criteria	Result
	Workstation performance (product call up and response times of displays in CAVE) are no worse than identical product call up and response times of displays in AWIPS I D-2D.	

7. TESTING PROCEDURE

Step	Procedure	Expected Result	Actual Result
1	2-node Dell 2950 cluster with a third Dell 2950 server acting as dedicated NAS device. Postgres will run on the primary cluster node. One to four CAVE workstations will be networked to the cluster.	Workstation performance (product call up and response times in CAVE) are no worse than identical product call up and response times in AWIPS I D-2D	
2	2-node Dell 2950 cluster with a third Dell 2950 server acting as dedicated NAS device. Postgres will run on a fourth Dell 2950 server (dedicated postgres server). One to four CAVE workstations will be networked to the cluster.	Workstation performance (product call up and response times in CAVE) are no worse than identical product call up and response times in AWIPS I D-2D	
3	Single (standalone) edex server running on a Dell 2950 server. One to four CAVE workstations will be networked to the cluster.	Workstation performance (product call up and response times in CAVE) are no worse than identical product call up and response times in AWIPS I D-2D	
	End of test		