

AE IV&V Test Case TO8_8011

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_8011

2. NARRATIVE

Experiment with ingesting other (non-OAX) SBN data. For example, ingest the normal LWX SBN load (as seen on NHDA or NMTW). Evaluate performance and stability of the EDEX services. Determine average and peak data volumes of the ingested data.

3. REFERENCES (Optional)

Raytheon Omaha test platform for server-side configuration

4. FEATURES TO BE TESTED

Evaluate performance and stability of the edex services during live SBN (non-OAX) data ingest. Determine SBN data volume (average and peak) during live SBN (non-OAX) data ingest.

5. SETUP INSTRUCTIONS

Step	Setup Procedure	Result
1	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.	

6. ACCEPTANCE CRITERIA

Step(s)	Criteria	Result
1	Edex services must remain stable over time and must function properly with no hangs, crashes, memory leaks, etc. Average and peak data volume (number of MB/hour and number of files ingested per hour) must meet or exceed the volumes shown on an AWIPS I system ingesting the identical SBN data stream from the CPs.	

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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.	Edex services must remain stable over time and continue to function properly – no hangs, crashes, etc. Data volume should meet or exceed the volume shown on an AWIPS I system ingesting the identical SBN data stream from the CPs.	
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).	Edex services must remain stable over time and continue to function properly – no hangs, crashes, etc. Data volume should meet or exceed the volume shown on an AWIPS I system ingesting the identical SBN data stream from the CPs.	
3	Single (standalone) edex server running on a Dell 2950 server.	Edex services must remain stable over time and continue to function properly – no hangs, crashes, etc. Data volume should meet or exceed the volume shown on an AWIPS I system ingesting the identical SBN data stream from the CPs.	
	End of test		