

AE IV&V Test Case TO8_8008

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_8008

2. NARRATIVE

Determine stability of the EDEX server-side while ingesting live OAX SBN data in cluster mode running on "baseline" Dell 2950 servers on a dedicated Gig-E network. This will focus on database and edex process stability over time – that is, determine if postgres and hdf5 databases stay in sync over time, evaluate the effect of purging on database stability, etc.

3. REFERENCES (Optional)

[List reference material used to develop the test case]
Raytheon Omaha test platform for server-side configuration

4. FEATURES TO BE TESTED

[List product components or features which will be tested]
Evaluate stability of the edex services in a variety of cluster modes (including standalone) while ingesting live SBN data. The focus will be on database and edex process stability over time – determine the stability of the edex services over time, whether the postgres and hdf5 databases stay in sync over time, whether all ingested data are actually stored in the databases, and the effect of purging on database stability and integrity.

5. SETUP INSTRUCTIONS

[Describe any special conditions which must be setup prior to the start of this test case]

Step	Setup Procedure	Result
	Dell 2950 servers configured according to Raytheon's specs for the new PX servers.	

6. ACCEPTANCE CRITERIA

Step(s)	Criteria	Result
	Edex services behave properly over time (no hangs, crashes, etc)	
	Postgres and hdf5 databases stay in sync over time.	
	All ingested sbn data are stored in the databases.	
	Purging performs according to specs and does not have adverse side-effects (e.g., database corruption, etc)	

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.	<ul style="list-style-type: none"> - Edex services continue to work as expected over time – no hangs, crashes, etc. - Postgres and hdf5 databases stay in sync over time. - All ingested sbn data are stored in the databases correctly over time. - Purging performs according to the Raytheon specifications and does not have adverse side-effects. 	
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).	<ul style="list-style-type: none"> - Edex services continue to work as expected over time – no hangs, crashes, etc. - Postgres and hdf5 databases stay in sync over time. - All ingested sbn data are stored in the databases correctly over time. - Purging performs according to the Raytheon specifications and does not have adverse side-effects. 	
3	Single (standalone) edex server running on a Dell 2950 server.	<ul style="list-style-type: none"> - Edex services continue to work as expected over time – no hangs, crashes, etc. - Postgres and hdf5 databases stay in sync over time. - All ingested sbn data are 	

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Step	Procedure	Expected Result	Actual Result
		stored in the databases correctly over time. - Purging performs according to the Raytheon specifications and does not have adverse side-effects.	
	End of test		