

ECS Configuration Change Request

1. Originator Bob Hartranft/Byron Peters		2. Log Date: 3 JEP 99		3. CCR #: 99-0838		4. Rev: -		5. Tel: 301/925-0997		6. Rm #: 3009		7. Org. RDEV			
8. Title of Change: Engineering Technical Directive for configuring SQS															
9. Originator Signature/Date <i>Byron Peters</i> 9/2/99								10. Class II		11. Type: CCR		12. Need Date: 9/7/99			
13. Office Manager Signature/Date <i>Hardy Bollinger</i> 9/2/99								14. Category of Change: Other				15. Priority: (If "Emergency" fill in Block 28). Emergency			
16. Documentation/Drawings Impacted: None - these parameters are not currently baselined								17. Schedule Impact:		18. CI(s) Affected:SDSRV					
19. Release Affected: Drop 4PY/5A						20. Date due to Customer:		21. Impl. Date:		22. Estimated Cost: None					
23. Source Reference: <input type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: SQS PSR															
24. Description of Change: (use additional Sheets if necessary) SQS is in the process of being released. SDSRV recommends using multiple instances of SQS to improve performance and fault tolerance. Also, additional user accounts are needed to support the additional instances.															
25. Proposed Solution: (use additional sheets if necessary) This Engineering Technical Directive provides the Landover recommended configuration changes for SQS. Note that this is a revision of ETD 99-007 which extends the usage to all facilities.															
26. Alternate Solution: (use additional sheets if necessary) None															
27. Consequences if Change(s) are not approved: (use additional sheets if necessary) SQS will not work properly.															
28. Justification for Emergency (If Block 15 is "Emergency"): LDAAC and GDAAC need this set of procedures before the release of Drop 5A.02.															
29. Site(s) Affected: <input checked="" type="checkbox"/> EDF <input checked="" type="checkbox"/> Mini-DAAC <input checked="" type="checkbox"/> VATC <input checked="" type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input checked="" type="checkbox"/> LaRC <input checked="" type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other															
30. Board Comments:										31. Work Assigned To:					
32. EDF/REL2 CCB Chair (Sign/Date): <i>Ma McDonald</i> 9/3/99				33. Disposition: <u>Approved</u> A/C Disapproved Fwd/ECS Fwd/ESDIS				34. (TBD)							
35. M&O CCB Chair (Sign/Date): <i>Harold Sloan</i> 9/3/99				36. Disposition: <u>Approved</u> A/C Disapproved Fwd/ECS Fwd/ESDIS				37. CM Manager's Closure:							
38. ECS CCB Chair (Sign/Date):				39. Disposition: Approved A/C Disapproved				40. CCR Closed Date:							

ORIGINAL

**ECS Project****Engineering Technical Directive****No. 99-009**

Subject: Multiple SQS Instances

09/03/99

The following directive is issued to all labs and DAACs.

Issue: Multiple instances of SQS should be enabled in order to get the best performance.

Fix: This note describes the configuration changes needed for the SQS server and the EcDsScienceDataServer configuration file (EcDsScienceDataServer.CFG).

The system should be configured to run 4 sqsserver processes. These servers should follow the naming convention:

```
e0acg01_sqs322_srvr
e0acg01_sqs322_srvr_1
e0acg01_sqs322_srvr_2
e0acg01_sqs322_srvr_3
```

Note: the "e0" portion of the server should be changed as appropriate for each DAAC or lab.

These names and associated addresses (IP and port number) must be added to the "interfaces" file located on e0acg01 and the "automounted" directory /tools/sybOCv11.1.0 accessed by e0acs05.

In the OPS mode, the EcDsScienceDataServer configuration file should be adjusted to reflect these new values. The specific lines to change are:

```
DSQUERY = e0acg01_sqs322_srvr e0acg01_sqs322_srvr_1 e0acg01_sqs322_srvr_2
SDSRV_SYBASE_SERVER = e0acg0_srvr 1 e0acg01_srvr e0acg01_srvr
```

In the test modes, the EcDsScienceDataServer configuration file should be adjusted to reflect these new values. The specific lines to change are:

```
DSQUERY = e0acg01_sqs322_srvr_3
SDSRV_SYBASE_SERVER = e0acg01
```

Each of the new sqs server instances should have it's own start script. Each start script should specify a unique log file and a unique sybase login with the SQSUSER environment variable.

Log files should be named according to the naming convention:

```
e0acg01_sqs322_srvr.log
e0acg01_sqs322_srvr_1.log
e0acg01_sqs322_srvr_2.log
e0acg01_sqs322_srvr_3.log
```

These files should be stored in a standard directory such as "/usr/ecs/OPS/COTS/sqs_322"

The unique SQSUSER logins for each instance will allow DBAs to differentiate the "sa" connections established by each of the sqs servers. The SQSUSER login should be named according to the convention:

```
sqs_322_sa
sqs_322_sa_1
sqs_322_sa_2
sqs_322_sa_3
```

respectively for each instance. Each login should be assigned sa role within the SQL server. The password doesn't need to be unique for each login but should be passed to the sqs server instance through the environment variable SQSPASSWORD defined in the start up script.



ECS Project

Engineering Technical Directive

No. 99-009

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09/03/99

Testing: Once the servers are up, do a "ps -ef | grep sqsserver" and verify that there are four instances of sqsserver

Implementation: All acg hosts that run SQS

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Approved By: M. McBride *MM*
Director, Systems Engineering

Reference CCR: 98-0838

-----End of Directive-----