ECS Configuration Change Request

1. Originator	2. Log Date:	3. CCR #:	4. Rev:	5. Tel:	6. Rm #:	7. Dept.
Wenhsing Yang	**09/29/03**	**03-0663**	**—**	301-925-0483	3204C	DEV/DDM

8. CCR Title: To create SubServer databases on ACS in DAACs for sun consolidation.

9. Originator Signature/Date	10. Class	11. Type:	12. Need Date: 2003-09-30
Wenhsing Yang /s/ 09/29/03	**II**	**CCR**	

13. Office Manager Signature/Date	14. Category of Change:	15. Priority: (If "Emergency" fill in Block 27).
Arthur Cohen /s/ 09/29/03	Update ECS Baseline Doc.	Routine

16. Documentation/Drawings Impacted *(Review and submit checklist):*	17. Schedule Impact:	18. CI(s) Affected:
920-TDE-009,920-TDG-009,920-TDL-009,920-TDN-009,910-TDA-005	None	INTHW

19. Release Affected by this Change:	20. Date due to Customer:	21. Estimated Cost:
6A	2003-09-30	None - Under 100K

22. Source Reference: ☐NCR (attach) ☐Action Item ☐Tech Ref. ☐GSFC ☒Other:
Sun consolidation.

23. Problem: (use additional Sheets if necessary)
Need SubServer databases on ACS hosts in DAACs for sun consolidation.

24. Proposed Solution: (use additional sheets if necessary)
Create SubServer databases on ACS hosts in DAACs for sun consolidation.

25. Alternate Solution: (use additional sheets if necessary)
None

26. Consequences if Change(s) are not approved: (use additional sheets if necessary)
No SubServer databases on ACS hosts in DAACs for sun consolidation.

27. Justification for Emergency (If Block 15 is "Emergency"):

28. Site(s) Affected: ☐EDF ☐PVC ☐VATC ☒EDC ☒ GSFC ☒LaRC ☒NSIDC ☐SMC ☐AK ☐JPL ☐EOC ☐ IDG Test Cell ☐Other

29. Board Comments:	30. Work Assigned To:	31. CCR Closed Date:

32. EDF/SCDV CCB Chair (Sign/Date): **Byron V. Peters /s/ 09/30/03**	**Disposition:** Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
33. M&O CCB Chair (Sign/Date):	**Disposition:** Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
34. ECS CCB Chair (Sign/Date):	**Disposition:** Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS

ADDITIONAL SHEET

CCR #: 03-0663 Rev: — Originator: Wenhsing Yang

Telephone: 301-925-0483 **Office:** 3204C

Title of Change: To create SubServer databases on ACS in DAACs for sun consolidation.

New ACS Sybase Server Configuration Parameters, Devices, and Databases creation steps:

(1) ASE server configuration parameters
(2) Create Sybase devices
(3) Create login css_role
(4) Create databases and set database option to “select into/bulkcopy/pllsort”
(5) Configure dbccdb (See 910-TDA-025 Section 5.3 Configuring dbccdb database)
(6) Delete SubServer databases from INS server after migration to ACS server
NOTE: Since mss_acct_db and its testing mode databases had been migrated to ACG previously, those databases should be dropped from MSS servers.

(1) ASE Server Configuration Parameters:

sp_configure

cpu grace time 1500
enable rep agent threads 1
event buffers per engine 5000
License information 0
max online engines 1
max SQL text monitored 1024
number of devices 40
number of devices 40
number of engines at startup 1
number of locks 50000
number of open databases 25
number of open indexes 1500
number of open objects 4000
number of user connections 800
number of user connections 800
number of worker processes 2
o/s file descriptors 1024
procedure cache size 153600

max memory 1024000

(2) Verify the following file systems, raw partitions, and link below have been created and owned by sybase:

(i) Filesystems for sybase devices:

/sybasefs1 8G
/sybasefs2 8G
/sybasefs3 8G
/sybasefs4 8G

(ii) Raw partitions for RS stable queues:

SQ1 1G
SQ2 1G
SQ3 1G

(iii) Filesystems for database dumps:

/sybdump1 32G
/sybdump2 32G
/sybdump3 32G

/sybdumps 68G

The subdirectories should be created:

/sybdumps/dumps
/sybdumps/dumps/logs
/sybdumps/trans
/sybdumps/trans/logs

and

/usr/ecs/OPS/COTS/sybase/sybase_dumps linked to /sybdumps.

**** II. Database Devices xxacsYY_srvr

Logical Device Name	Size(M)	Physical Device Name
RSSD_DATA	400	/dev/vx/rdsk/[xxacsYYdg]/RSSD_DATA
RSSD_LOG	400	/dev/vx/rdsk/[xxacsYYdg]/RSSD_LOG
ardev	800	/sybasefs1/devices/ardev.dat
arlog	400	/sybasefs2/devices/arlog.dat
auditdata	2048	/sybasefs2/devices/auditdata
auditlog	1024	/sybasefs1/devices/auditlog
datadev1	16384	/dev/vx/rdsk/[xxacsYYdg]/datadev1
datadev2	16384	/dev/vx/rdsk/[xxacsYYdg]/datadev2
datadev3	16384	/dev/vx/rdsk/[xxacsYYdg]/datadev3
datadev4	16384	/dev/vx/rdsk/[xxacsYYdg]/datadev4
datadev5	16384	/dev/vx/rdsk/[xxacsYYdg]/datadev5
datadev6	16384	/dev/vx/rdsk/[xxacsYYdg]/datadev6
dbccdata	4096	/dev/vx/rdsk/[xxacsYYdg]/dbcc_data
dbcclog	2048	/dev/vx/rdsk/[xxacsYYdg]/dbcc_log
logdev1	8192	/dev/vx/rdsk/[xxacsYYdg]/logdev1
logdev2	8192	/dev/vx/rdsk/[xxacsYYdg]/logdev2
logdev3	8192	/dev/vx/rdsk/[xxacsYYdg]/logdev3
master	200	/dev/vx/rdsk/[xxacsYYdg]/master
sysprocsdev	400	/sybasefs2/devices/sybprocdev.dat
tempdb1	4096	/tempdb1/tempdb1.dat
tempdb2	4096	/tempdb2/tempdb2.dat
tempdb3	4096	/tempdb3/tempdb3.dat

(3) Create login css_role, ARAdmin, edb_role
(4) Create databases and set database option to “select into/bulkcopy/pllsort”

**** III. Database Allocation xxacsYY_srvr
NOTE: Do NOT create the COTS databases, ARSystem and xxacsYY_r_srvr_RSSD, which are to be created by the COTS ARSystem and RS installations respectively.

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ALL DAACS
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	Database Name	Device Name	Device Allocation (M)
#	ARSystem	ardev	150
#	ARSystem	arlog	50
#			
#	200	(FOR EDC)	
#	ARSystem	ardev	100
#	ARSystem	arlog	50
#			
#	150	(FOR OTHER DAACS)	
	dbccdb	dbccdata	2000

```
        dbccdb                  dbcclog                     1000

      3000
        master                  master                       6
        master                  master                      94

       100
        model                   master                       2

        2
#         XXacsYY_r_srvr_RSSD        RSSD_DATA                    200
#         XXacsYY_r_srvr_RSSD        RSSD_LOG                     200
#
#       400
        sybsystemdb             sysprocsdev                  5

        5
        sybsystemprocs          sysprocsdev                  125

       125
        sybsecurity             auditdata                    1000
        sybsecurity             auditlog                     500

      1500
        tempdb                  master                       3
        tempdb                  tempdb                       1000

      1003


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LPDAAC
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        SubServer               datadev1                     1200
        SubServer               datadev1                     600
        SubServer               logdev1                      600

      2400
        SubServer_TS1           datadev2                     400
        SubServer_TS1           datadev2                     200
        SubServer_TS1           logdev2                      200

       800
        SubServer_TS2           datadev3                     400
        SubServer_TS2           datadev3                     200
        SubServer_TS2           logdev3                      200

       800

        EDB                     datadev4                     900
        EDB                     logdev3                      400
        EDB                     datadev4                     1148
        EDB                     datadev4                     2048
        EDB                     datadev5                     1748
        EDB                     datadev5                     2048
        EDB                     datadev5                     2048
        EDB                     datadev6                     500
        EDB                     datadev6                     1548
        EDB                     datadev6                     2048

     14436
        EDB_TS1                 datadev5                     400
        EDB_TS1                 logdev2                      200

       600
        EDB_TS2                 datadev6                     300
        EDB_TS2                 logdev2                      100
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400

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GSFC
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SubServer	datadev1	125
SubServer	datadev1	60
SubServer	logdev1	60
SubServer	logdev1	60
SubServer	datadev1	100
SubServer	logdev1	60
SubServer	datadev2	100
SubServer	logdev1	100
SubServer	datadev2	300
SubServer	logdev1	100
SubServer	datadev2	200
SubServer	logdev1	50
SubServer	datadev3	100
SubServer	datadev3	300
SubServer	datadev3	100

1815

SubServer_TS1	datadev2	40
SubServer_TS1	datadev2	20
SubServer_TS1	logdev2	20
SubServer_TS1	datadev2	20
SubServer_TS1	datadev2	10

110

SubServer_TS2	datadev3	40
SubServer_TS2	datadev3	20
SubServer_TS2	logdev3	20
SubServer_TS2	datadev3	20
SubServer_TS2	logdev3	20

120

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LARC
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SubServer	datadev1	1200
SubServer	datadev1	600
SubServer	logdev1	600

2400

SubServer_TS1	datadev2	400
SubServer_TS1	datadev2	200
SubServer_TS1	logdev2	200

800

SubServer_TS2	datadev3	400
SubServer_TS2	datadev3	200
SubServer_TS2	logdev3	200

800

EDB	datadev4	1000
EDB	logdev3	500

1500

EDB_TS1	datadev5	400
EDB_TS1	logdev2	100

500

EDB_TS2	datadev6	400
EDB_TS2	logdev2	100

500

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NSIDC
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SubServer	datadev1	1200
SubServer	datadev1	600
SubServer	logdev1	600

2400

SubServer_TS1	datadev2	400
SubServer_TS1	datadev2	200
SubServer_TS1	logdev2	200

800

(5) Configure dbccdb (See 910-TDA-025 Section 5.3 Configuring dbccdb database)
NOTE: (i) Devices are dbccdata and dbcclog. (ii) Dbcc cache should be twice as that is estimated by sp_plan_dbccdb.

(6) Delete SubServer databases from INS server after migration to ACS server
NOTE: Since mss_acct_db and its testing mode databases had been migrated to ACG previously, those databases should be dropped from MSS servers.