ECS Configuration Change Request

1. Originator	2. Log Date:	3. CCR #:	4. Rev:	5. Tel:	6. Rm #:	7. Dept.
Rajesh Dharia	08/02/00	00-0793		(301) 925-0498	3204E	Rel. Dev

8. CCR Title: SGI IRIX 6.5.6 operating system and supporting COTS maintenance upgrade for the ECS project.

9. Originator Signature/Date	10. Class	11. Type:	12. Need Date: 08/08/00
Rajesh Dharia 08/02/00	II	CCR	

13. Office Manager Signature/Date	14. Category of Change:	15. Priority: (If "Emergency" fill in Block 28).
8/17/00	PSR	Routine

16. Documentation/Drawings Impacted:	17. Schedule Impact:	18. CI(s) Affected:
910-TDA-003, 911-TDA-005, 920-TDX(E,G,L,N,V,P)-002,, 920-TDX-003, 920-TDX(E,G,L,N,P,V)-008,920-TDX-014, 922-TDx-	N/A	

19. Release Affected by this Change:	20. Date due to Customer:	21. Estimated Cost:
5B		None - Under 100K

22. Source Reference: ☐NCR (attach) ☐Action Item ☐Tech Ref. ☐GSFC ☒Other:
CUT GROUP and M&O schedule.

23. Problem: (use additional Sheets if necessary)
Upgrading to SGI IRIX 6.5.6 operating system forces an upgrade to several COTS products along with this operating system upgrade. These additional COTS products that are installed as part of this upgrade are BDS (v2.1), DCE Client (V1.2.2a), FLEXlm(v6.1), Hippi SW (v3.3.1), MIPSpro Compilers (V 7.2.1), and ProDEV Workshop (V2.7).
Note: Some of these COTS will not be installed on all SGI platforms. Refer to the appropriate Hardware Software map (920-TDX-002) to determine which COTS products are installed on each platform.

24. Proposed Solution: (use additional sheets if necessary)
Upgrade SGI IRIX 6.5.6 operating system and supporting COTS (as listed above in block 23 and depicted in PSR document) for the ECS project using the install instruction provided in the PSR document.
CM to update baseline documents as per redlines provided.
Software librarian to provide required tar files and CD media to support IRIX 6.5.6 O/S upgrade and associated COTS upgrade.
Note: See additional sheet for more instructions.

25. Alternate Solution: (use additional sheets if necessary)
N/A

26. Consequences if Change(s) are not approved: (use additional sheets if necessary)
IRIX 6.5 transition schedule will be impacted.

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:
Redlines to baseline docs in complete	See E60#	

32. EDF/SCDV CCB Chair (Sign/Date):	**Disposition:** Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
33. M&O CCB Chair (Sign/Date): 8/17/00	**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

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ADDITIONAL SHEET

CCR #: 00-0793 **Rev:** - **Originator:** Rajesh Dharia

Telephone: X0498 **Office:** Rel Devlopment

Title of Change: SGI IRIX 6.5.6 operating system and supporting COTS maintenance upgrade for the ECS project.

(1) Use the Database Create comands, list is provided.
(2) Use the attached Instruction for Transitioning Logins and Users for the Science DataServer, Storage Management, Ingest and Registry Databases.

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ORIGINAL

DATABASE CREATE COMMANDS LIST FOR IRIX 6.5 (EDC ONLY)

Create EcDsScienceDataServer1, EcDsScienceDataServer1_TS1, EcDsScienceDataServer_TS2, stmgtdb1, stmgtdb1_TS1 and stmgtdb1_TS2 Databases on e0acg11_srvr by executing the following commands.

1. **create database EcDsScienceDataServer1 on di_dev2a=2000, di_dev2b=2000 log on log_dev1=700 for load**
   go
   alter database EcDsScienceDataServer1 on di_dev2a=217 for load
   go
   alter database EcDsScienceDataServer1 on di_dev2a=1200 for load
   go

2. **create database EcDsScienceDataServer1_TS1 on testmode_di_dev1=1600, log on testmode_log_dev1=400 for load**
   go
   alter database EcDsScienceDataServer1_TS1 on testmode_di_dev1=400 for load
   go

3. **create database EcDsScienceDataServer1_TS2 on testmode_di_dev1=2000, log on testmode_log_dev1=400 for load**
   go
   alter database EcDsScienceDataServer1_TS2 on testmode_di_dev1=400 for load
   go

4. **create database stmgtdb1 on di_dev1a=600 log on log_dev2=300 for load**
   go
   alter database stmgtdb1 on di_dev1a=300 for load
   go

5. **create database stmgtdb1_TS1 on testmode_di_dev1=200 log on testmode_log_dev1=100 for load**
   go
   alter database stmgtdb1_TS1 on testmode_di_dev1=100 for load
   go

6. **create database stmgtdb1_TS2 on testmode_di_dev1=200 log on testmode_log_dev1=100 for load**
   go
   alter database stmgtdb1_TS2 on testmode_di_dev1=100 for load
   go

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DATABASE CREATE COMMANDS LIST FOR IRIX 6.5 (GSFC ONLY)

Create EcDsScienceDataServer1, EcDsScienceDataServer1_TS1, EcDsScienceDataServer_TS2, stmgtdb1, stmgtdb1_TS1 and stmgtdb1_TS2 Databases on g0acg01 by executing the following command

1. **create database EcDsScienceDataServer1 on di_dev2a=300 log on log_dev1=100 for load**
   go
   alter database EcDsScienceDataServer1 on di_dev2a=1700 log on log_dev1=300 for load
   go
   alter database EcDsScienceDataServer1 on di_dev2a=2000 log on log_dev1=600 for load
   go
   alter database EcDsScienceDataServer1 on di_dev2a=100 for load
   go

2. **create database EcDsScienceDataServer1_TS1 on testmode_di_dev1=1000, log on testmode_log_dev1=400 for load**
   go
   alter database EcDsScienceDataServer1_TS1 on testmode_di_dev1=600 for load
   go
   alter database EcDsScienceDataServer1_TS1 on testmode_di_dev1=400 for load
   go

3. **create database EcDsScienceDataServer1_TS2 on testmode_di_dev1=300, log on testmode_log_dev1=100 for load**
   go
   alter database EcDsScienceDataServer1_TS2 on testmode_di_dev1=100 for load
   go

4. **create database stmgtdb1 on di_dev1a=600 log on log_dev2=300 for load**
   go
   alter database stmgtdb1 on di_dev1a=300 for load
   go

5. **create database stmgtdb1_TS1 on testmode_di_dev1=200 log on testmode_log_dev1=100 for load**
   go
   alter database stmgtdb1_TS1 on testmode_di_dev1=100 for load
   go

6. **create database stmgtdb1_TS2 on testmode_di_dev1=200 log on testmode_log_dev1=100 for load**
   go
   alter database stmgtdb1_TS2 on testmode_di_dev1=100 for load
   go

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Instructions for Transitioning Logins and Users for the Science Data Server, Storage Management, Ingest, and Registry Databases

1. Science Data Server:

a. Run the database logins script to ensure that all required logins are present on the server (this only needs to be done once, regardless of the number of modes):

```
i.)     cd /usr/ecs/$MODE/CUSTOM/dbms/DSS
ii.)    DsDbSybaseLogins sa $SERVERNAME
iii.)   (You will be prompted for the sa password.)
```

b. For each mode, drop and then add back the users in the mode-specific database:

```
i.)     $SYBASE/bin/isql -U $DBO -P $DBO_PASSWORD -S $SERVERNAME
ii.)    use EcDsScienceDataServer1(_$MODE)
iii.)   go
iv.)    sp_dropuser EcDsScienceDataServer
v.)     go
vi.)    sp_dropuser EcDsHdfEosServer
vii.)   go
viii.)  sp_dropuser EcDsSdSrvGui
ix.)    go
x.)     sp_adduser EcDsScienceDataServer, EcDsScienceDataServer, sdsrv
xi.)    go
xii.)   sp_adduser EcDsHdfEosServer, EcDsHdfEosServer, sdsrv
xiii.)  go
xiv.)   sp_adduser EcDsSdSrvGui, EcDsSdSrvGui, sdsrv
xv.)    go
xvi.)   exit
```

2. Storage Management

a. Run the database logins script to ensure that all required logins are present on the server (this only needs to be done once, regardless of the number of modes):

```
i.)     cd /usr/ecs/$MODE/CUSTOM/dbms/DSS
ii.)    EcDsStDbLogin $MODE sa $sa_PASSWORD $SERVER $DBNAME
```

b. For each mode, drop the users in the mode-specific database:

```
i.)     $SYBASE/bin/isql -U $DBO -P $DBO_PASSWORD -S $SERVERNAME
ii.)    use stmgtdb1(_$MODE)
iii.)   go
iv.)    sp_dropuser EcDsStPullMonitorServer
v.)     go
vi.)    sp_dropuser EcDsSt4MMServer
vii.)   go
viii.)  sp_dropuser EcDsSt8MMServer
ix.)    go
x.)     sp_dropuser EcDsStArchiveServer
xi.)    go
xii.)   sp_dropuser EcDsStIngestFtpServer
xiii.)  go
xiv.)   sp_dropuser EcDsStStagingDiskServer
xv.)    go
xvi.)   sp_dropuser EcDsStStagingMonitorServer
xvii.)  go
```

ORIGINAL

xviii.) sp_dropuser EcDsStFtpDisServer
xix.) go
xx.) sp_dropuser EcDsStCDROMServer
xxi.) go
xxii.) sp_dropuser EcDsStPrintServer
xxiii.) go
xxiv.) sp_dropuser EcDsStD3Server
xxv.) go
xxvi.) sp_dropuser EcDsStmgtGui
xxvii.) go
xxviii.) sp_dropuser EcDsDistributionServer
xxix.) go
xxx.) sp_dropuser EcDsDdistGui
xxxi.) go
xxxii.) exit
xxxiii.)

c. For each mode, run the script to add users to the database:
   i.) cd /usr/ecs/$MODE/CUSTOM/dbms/DSS
   ii.) EcDsStDbUser $MODE $DBO $DBO_PASSWORD $SERVER $DBNAME

3. Ingest:
   a. Run the database logins script to ensure that all required logins are present on the server (this only needs to be done once, regardless of the number of modes):
      i.) cd /usr/ecs/$MODE/CUSTOM/dbms/INS
      ii.) EcInDbLogin $MODE sa $sa_PASSWORD $SERVER $DBNAME

   b. For each mode, drop the users in the mode-specific database:
      i.) $SYBASE/bin/isql -U $DBO -P $DBO_PASSWORD -S $SERVERNAME
      ii.) use Ingest(_$MODE)
      iii.) go
      iv.) sp_dropuser EcInAuto
      v.) go
      vi.) sp_dropuser EcInRegMgr
      vii.) go
      viii.) sp_dropuser EcInGran
      ix.) go
      x.) sp_dropuser EcInGran0
      xi.) go
      xii.) sp_dropuser EcInGran1
      xiii.) go
      xiv.) sp_dropuser EcInPolling
      xv.) go
      xvi.) sp_dropuser EcInGUI
      xvii.) go
      xviii.) sp_dropuser EcInInter
      xix.) go
      xx.) exit

   c.) For each mode, run the script to add users to the database:
      i.) cd /usr/ecs/$MODE/CUSTOM/dbms/INS
      ii.) EcInDsUser $MODE $DBO $DBO_PASSWORD $SERVER $DBNAME

ORIGINAL

4. Registry:

   a. Run the database logins script to ensure that all required logins are present on the server (this only needs to be done once, regardless of the number of modes):
      i.) cd /usr/ecs/$MODE/CUSTOM/dbms/CSS/ddm_css_support
      ii.) EcCsRgDbLogins sa $sa_PASSWORD $SERVERNAME

   b. For each mode, drop and then readd the users in the mode-specific database:
      $SYBASE/bin/isql -U $DBO -P $DBO_PASSWORD -S $SERVERNAME
      i.) use EcCsRegistry(_$MODE)
      ii.) go
      iii.) sp_dropuser EcCsRegistry
      iii.) go
      iv.) sp_dropuser GuiAdmin
      v.) go
      iv.) sp_dropuser EcCsUser
      viii.) go
      ix.) sp_adduser EcCsRegistry
      x.) go
      xi.) sp_adduser GuiAdmin, GuiAdmin, RgAdminGroup
      xii.) go
      xiii.) sp_adduser EcCsUser, EcCsUser, RgUserGroup
      xiv.) go
      xv.) exit

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Irix Upgrade: Plan for baseline documentation

Document	Responsible Manager	Responsible Personnel	Status (8/17/00)	Date needed
Overall ~~eer~~ doc coordination	Howard Ausden	Mike Helton		8/18/00
HW Diagrams 920-TDx-001	Jim Mather	Bob Byrnes	In Work	↓
Site-Host Map 910-TDA-005		Harvey Privor	In Work	↓
Floor plans 920-TDx-004		Tim Wells	CCR 00-0749 Done	↓
H/W Network Diagrams 921-TDE-002		Randy Haynes	CCR 00-0795 Done	↓
Host IP Assignments 921-TDE-003		Randy Haynes	CCR 00-0795 Done	↓
Ingest Host Static Routes 921-TDE-006		Randy Haynes	CCR 00-0795 Done	↓
EDC Primary DNS B/L Doc 923-TDE-001		Randy Haynes	CCR 00-0795 Done	↓
EDC Primary DNS B/L Doc 923-TDE-005		Randy Haynes	CCR 00-0795 Done	↓
SMC Primary DNS B/L Doc 923-TDS-002		Randy Haynes	CCR 00-0795 Done	↓
SMC Primary DNS B/L Doc 923-TDS-005		Randy Haynes	CCR 00-0795 Done	↓
Disk partitions 922-TDx-all		Rob Cole	Done 8/16	↓
Mount points 920-TDx-008		Bryon Peters	In Work	↓
HW-SW Maps 920-TDx-002	Howard Ausden	Mike Helton	Flow down - COTS	↓
COTS Baseline 910-TDA-003		M. Corbett	In Work	↓
Irix patch list 911-TDA-005	Royal White	Allan Lane	Done	↓
HW-patch maps 920-TDx-014		Allan Lane	Done	↓
System infrastructure 920-TDx-003		M. Corbett	Done	↓
SGI Unix Kernel Configs 920-TDx-016	Felicia Harris	Imran Chughtai	In work	↓
Host Memory 920-TDx-018		Steve Haupt		↓
HW-Database maps 920-TDx-009	Peter MacHarrie	H. Colglazier	Done	↓

(Note: This list to be referenced in the IRIX upgrade for OS and COTS CCR – 00-0793).

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