

ECS Configuration Change Request

1. Originator C.Kenney	2. Log Date: 7/10/01	3. CCR #: 01-0547	4. Rev: -	5. Tel: X4177	6. Rm #: 3204D	7. Dept. DEV/CO18
8. CCR Title: Test Executable for 6A.04_INGEST.01B Fix for NCR 31111 INGEST Servers do not stay up and several other NCRs						
9. Originator Signature/Date <i>Chery Kenney 7/10/01</i>			10. Class II	11. Type: CCR	12. Need Date: 10July2001	
13. Office Manager Signature/Date <i>Wade McBe...</i> 07/10/01			14. Category of Change: Initial ECS Baseline Doc.		15. Priority: (If "Emergency" fill in Block 27). Emergency	
16. Documentation/Drawings Impacted:			17. Schedule Impact:	18. CI(s) Affected:INGEST		
19. Release Affected by this Change: 6A		20. Date due to Customer: 10July2001		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: ECSed31111 - INGEST Servers do not stay up						
23. Problem: (use additional Sheets if necessary) ECSed28839 - Ingest D3 tape fail whenever Request Manager down ECSed29905 - Invalid Zulu TIME_STAMP in PAN file ECSed24862- Throttle Polling w/DR requests ECSed29737 - GSFC/SMC: Ingest of browse via SIPS Interface ECSed29346 - changed HWCI in INGEST database for AQUA ESDTs						
24. Proposed Solution: (use additional sheets if necessary) ECSed31111 - the servers are failing to come up due to memory corruption. During a run of the Ingest servers with purify 5.3, we observed three distinct places in MSS code which needed to be updated to prevent such corruption. Proposed solution was to merged the code from 5B6A (with the memory corruption fixes)						
25. Alternate Solution: (use additional sheets if necessary) Wait for 6A05 baselline						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) Unable to transition to 6A.04 due to problems with INGEST servers.						
27. Justification for Emergency (If Block 15 is "Emergency"): EDC DAAC requested software modification						
28. Site(s) Affected: <input checked="" type="checkbox"/> EDF <input checked="" type="checkbox"/> PVC <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 checked="" 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						
29. Board Comments:			30. Work Assigned To:	31. CCR Closed Date:		
32. EDF/SCDV CCB Chair (Sign/Date): <i>Valeria D. Madrin 7/10/01</i>		Disposition: <u>Approved</u> App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/EGS				
33. M&O CCB Chair (Sign/Date): <i>[Signature] 7.10.01</i>		Disposition: <u>Approved</u> 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 #: *01-0547* Rev: -Originator: C. Kenney

Telephone: 4177 Office: Dev/CO

Title of Change: Test Executable for 6A.04_INGEST.01B Fix for NCR 31111 INGEST Servers do not stay up and several other NCRs

> CLEARCASE: Please provide as Test Executable 6A.04_INGEST.01B

>

Please build an SGI tar file from the current 6A.04 baseline for the following package:

.EclnAPCSVR.pkg
.EclnINTFCSVR.pkg

Also build SUN tar file from the current 6A.04 baseline for the following package:

.EclnGUIOPSW.S.pkg

Provide the Tar files to the DAACs, PVC, & VATC..

DAAC Install Instructions :

SPECIAL INSTRUCTOINS for EDC: TE_6A.04_HDFEOS.01A should be installed in conjunction with this TE [other sites do not need HDFEOS].

Load this TE on top of the 6A.04 installations. Also if mode has not been previously installed, note the INGEST configuration changes as described in the 6A.04 Installation instructions and especially the ones in this paragraph. Instructions to the DAACs will be to load this on top of the PSR 6A.04 delivery. For MODES that have not been installed already this TE can be installed instead of 6A.04 for the listed packages.

The INGEST database must be patched to patch number 6115 for NCR 29737 to work. The last patch number of the INGEST database after the database is patched should be 6118. For modes that have not be previously installed they must follow the database tranistion instructions for patching their INGEST database.

To install these TEs the DAACs can use E.A.S.I to install the listed packages. There are no special configuration changes for the INGEST or HDFEOS servers as a result of this TE. But for modes that have not previously been installed there are INGEST configuration changes as described in the 6A.04 Installation Instructions.

1. Get TAR Files listed above from CM distribution;
UnTAR the files to staging areas.

2 INSTALL OF INGEST PACKAGES

.EclnAPCSVR.pkg
.EclnINTFCSVR.pkg
.EclnGUIOPSW.S.pkg

On a SGI host, use E.A.S.I. to perform automated installation of the INGEST SGI hosts as follows:

- a. Select the Mode to be installed
- b. Enter the location of the staged files

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- c. Select CUSTOM and Click Next
- d. Click on the "Sort by: Subsystem" button, expand the INS and ECIn icons to display the INGEST packages
- e. Holding down the shift key, select the three packages listed in step 2.
- f. Select Install as the Installation Phase and Click Next
- g. STAGING AREA will be shown as the Installation Type. Click Next
- h. Verify packages are correct and click Next.
- i. Click COMM and ensure all INS hosts turn green, signaling they are communicating with E.A.S.I.
- j. Click INSTALL and monitor each host. Ensure each INS host turns green signaling a successful installation.

3. INSTALL OF INGEST PATCHES.

Modify the file permissions as specified below

```
cd/<distribution_directory>/<stage_directory>/SUN/CUSTOM/dbms
chmod 744 INS/EcInDbLogin
```

4. Apply the INGEST Database patches on the INGEST xxicgx host. Must have DBO privilege to perform this task.:

- a. Determine the current version of the INGEST database
 - i. Use isql to access the INGEST database
 - ii. Execute the following


```
Select * from EcDbDatabaseVersions where EcDbCurrentVersionFlag = "Y"
```
 - iii. Record the value in the EcDbComments field. If you are already at Patch #6118. then you do not need to apply any INGEST DB Patches (skip step 4b.).
- b. Apply the INGEST Database Patch from the SubSystem Manager.
 - a. Click Database and Select Patch
 - b. Select .dbparms
 - c. In the Database Config Screen enter 6118(if not already displayed)
 - d. Enter DBO and database information and click ok to apply the patch.

5. MAKE SURE THE INGEST Hosts are up and running. Check logs for any error messages.

*****END OF INSTALLATION INSTRUCTIONS*****

Additional NCRs:

ECSed30708 - ESDT Update to INGEST Database for DAO Descriptors
 ECSed30983 - Create new INGEST database entry for DsESDTMoMOD09Q1.003.desc
 ECSed29737 INGEST Database Patch for Ingesting Browse with Metadata via SIPS
 ECSed30983 - Database Patch for New Modis Descriptors - Patch number

Summary of NCR testing

ECSed31111

Test Instructions for Checkout Lab:

Since we were unable to recreate the problem in the lab, simply try and bring the servers up. If they come up, that's enough.

ECSed28839

Test Instructions for Checkout Lab:

With the request manager down, attempt to ingest data from a D3 tape. When the window pops up to inform the user that the request could not be received by the Ingest request manager, start the Ingest request manager and, after establishing that the Ingest request manager has finished its startup, click on "Yes".

ECSed29905

Test Instructions for Checkout Lab:

Run polling for SAGE_III_SCF and when the ingest is complete check that the PAN files have GMT, not local time, as the TIME_STAMP

ECSed24862

Test Instructions for Checkout Lab:

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Set max number of requests to some small number and submit more than that number of request. Observe in debug log the current requests do not exceed maximum.

ECsed29737

Test Instructions for Checkout Lab:

- 1) You may want use PDR files used for development reside in the following directory:
origin:/devdata1/INGEST/pollMODAPS/pdr/pdrsSuccessBrowse
- 2) Make PDR to contain science file with .met and Browse file with .met file. No linkage file must be included this PDR. 2.1) Test using a SIPS polling server (Ex: EcInPolling.MODAPS).
- 3) Make PDR to contain science file with .met and Browse file only No linkage file must be included this PDR. 3.1) Test using a SIPS polling server (Ex: EcInPolling.MODAPS)
- 4) Make PDR to contain Browse DATA_TYPE with a BROWSE FILE_TYPE, a BROWSE_METADATA FILE_TYPE, and a LINKAGE FILE_TYPE. 4.1) Test using a SIPS polling server (Ex: EcInPolling.MODAPS)
- 5) Make PDR to contain Browse DATA_TYPE with a BROWSE FILE_TYPE, and a LINKAGE FILE_TYPE only. 5.1) Test using a SIPS polling server (Ex: EcInPolling.MODAPS).

ECsed29346

Install mode via ECS Assist. Ensure config parameter window displays Patch level 6111. Run DB Patch. Check DBoutfile_schema for possible errors. Note: This is to be applied only to relB and sckts at this time (patch to 6A04 will happen later).

ECsed29737(INGEST DB)

Test Instructions for Checkout Lab:

Install mode using EcCoAssist. Run DB patch level 6115. Check DBoutfile_schema for possible errors.

ECsed30983

Perform Ingest Database package install

Apply patch 6114

CM01AJA00

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