

ECS Configuration Change Request

Page(s)

1. Originator Cherry Kenney	2. Log Date: 10/4/01	3. CCR #: 01-0788	4. Rev: --	5. Tel: 301-833-4177	6. Rm #: 3204D	7. Dept. DEV/CO
8. CCR Title: TE_6A.04_STMGT_02 For All DAACs Adds scripts to STMGT for trouble shooting STMGT at the DAACs						
9. Originator Signature/Date /s/ Cherry A. Kenney, 10/4/01			10. Class II	11. Type: CCR	12. Need Date: 04OCT01	
13. Office Manager Signature/Date /s/ Art Colen, 10/4/01			14. Category of Change: Initial ECS Baseline Doc.		15. Priority: (If "Emergency" fill in Block 27). Emergency	
16. Documentation/Drawings Impacted:			17. Schedule Impact: n/a	18. CI(s) Affected: STMGT		
19. Release Affected by this Change: 6A		20. Date due to Customer: 04OCT01		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: 31978						
23. Problem: (use additional Sheets if necessary) 31978 6A STMGT Trouble Shooting OPS Procedure Needed						
24. Proposed Solution: (use additional sheets if necessary) Provide TE_6A.04_STMGT_02						
25. Alternate Solution: (use additional sheets if necessary) Wait until next s/w release.						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) Delays in getting fixes to the field, DAACs must continue to work around problems						
27. Justification for Emergency (If Block 15 is "Emergency"): Corrections are required at ALL DAACs to assist with trouble shooting						
28. Site(s) Affected: <input 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): /s/ Randall J. Miller, 10/4/01			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB			
33. M&O CCB Chair (Sign/Date): /s/ Debra Stepp, 10/4/01			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 #: 01-0788 **Rev:** - **Originator:** Cherry Kenney

Telephone: 301-833-4177 **Office:** 3204d

Title of Change: TE_6A.04_STMGT_02 For All DAACs Adds scripts to STMGT for trouble shooting STMGT at the DAACs

Actions

Clearcase

```
> Please build TAR file for the listed scripts from 6A04NOFW
>> baseline.
>>
>>>>Files:
>
>
> /ecs/formal/DSS/stmgt/src/Database/debug_stmgt
> /ecs/formal/DSS/stmgt/src/Database/monitor_stmgt_operations
> /ecs/formal/DSS/stmgt/src/Database/monitor_stmgt_totals
>>>
>>
>> Please name tarfile
>>>> for TE_6A.04__STMGT.02
>
```

DAAC INSTALL INSTRUCTIONS

1. Get TAR File from CM distribution.

```
debug_stmgt
monitor_stmgt_operations
monitor_stmgt_totals
```

2. Untar the tar file

3. Copy the scripts listed in step1 to the /usr/ecs/<MODE>/CUSTOM/utilities directory on the host where the STMGT database resides.

4. Change the file permission on the file to 775.

IMPORTANT INFORMATION: How to Run the New Database Scripts

The scripts report the status of various stmgt operations and thus help debug problems
The scripts are a series of database queries.
The scripts are:

debug_stmgt:

- writes status of many operations to a file that can then

be sent to ecs for analysis. The output contains comments that should help the DAAC operator diagnose the problem.

debug_stmgt requires 3 parameters: StartDate, EndDate, and FileName
StartDate and EnDate are of the form "mm/dd/yyyy hh:mm:ss"
FileName is the output File Name Results are sent to the output File Name

monitor_stmgt_totals:

- prints to the terminal window some statistics on file transfer operations. This attempts to show the total amount of data transferred since a specified point in time. This is done by querying the ProgressPartial column of the DsStGenericRequest table. One problem is that the units of this column can vary between KB and MB. This makes the script only good for showing that something is happening.

monitor_stmgt_totals: requires two parameters: SamplingRate, StartTime
SamplingRate is how often to run the query in seconds
StartDate is of the form "mm/dd/yyyy hh:mm:ss"

The script sends results to the screen and will run indefinitely, until the user ctrl-c's out of the script.

monitor_stmgt_operations:

- prints active file transfer operations by server/thread. Also shows the ftp push destinations along with number of requests going to each destination.

monitor_stmgt_operations requires 1 parameter: SamplingRate
Sampling Rate is how often the query is run in seconds.
The script sends results to the screen and will run indefinitely, until the user ctrl-c's out of the script.

All three scripts require the DSQUERY, DBNAME, DBUSERNAME DBPASSED SYBASE environment variables to be defined. When the script is run, if any of these environment variables are not set, the user is prompted to set the variable and re-run the script.

END OF INSTALL INSTRUCTIONS

Summary of NCR fixes:

ECSed31978: Adds scripts to STMGT for trouble shooting STMGT at the DAACs

Files in Task:

/ecs/formal/DSS/stmgt/.EcDsStmgtDBPatch.iu@@/main/relb/maint_6A04/hcolglaz_31978_6A04/1
/ecs/formal/DSS/stmgt/src/Database/debug_stmgt@@/main/hcolglaz_31978_6A04/1
/ecs/formal/DSS/stmgt/src/Database/monitor_stmgt_operations@@/main/hcolglaz_31978_6A04/1
/ecs/formal/DSS/stmgt/src/Database/monitor_stmgt_totals@@/main/hcolglaz_31978_6A04/1
/ecs/formal/DSS/stmgt/src/Database@@/main/relb/maint_6A04/hcolglaz_31978_6A04/1

. Test Instructions for Checkout Lab:

install stmgt database into mode and verify scripts have loaded. Run the scripts providing the necessary environmental variables.

CM01AJA00