ECS Configuration Change Request

Page(s)

1. Originator	2. Log Date:	3. CCR #:	4. Rev:	5. Tel:	6. Rm #:	7. Dept.
C.Kenney	7/30/01	01-0622-		301-833-4177	3204D	DEV/CO

8. CCR Title: Patch 6A.04_PDPS.02a Replaces PDPS.01 For DAACs and PVC & VATC. Includes Broken Links fix and other NCRs

9. Originator Signature/Date	10. Class	11. Type:	12. Need Date: July27,2001
Cheryl A. Kenney 7/27/01		CCR	

13. Office Manager Signature/Date	14. Category of Change:	15. Priority: (If "Emergency" fill in Block 27).
Janine Martin-Carlile 7/27/01	Initial ECS Baseline Doc.	Emergency

16. Documentation/Drawings Impacted:	17. Schedule Impact:	18. CI(s) Affected:
	n/a	PDPS

19. Release Affected by this Change:	20. Date due to Customer:	21. Estimated Cost:
6A	July27, 2001	None - Under 100K

22. Source Reference: ☒NCR (attach) ☐Action Item ☐Tech Ref. ☐GSFC ☐Other:
31055,30896,31060,31092,30825,31036,30888,31021,31141,31053,31106,30626

23. Problem: (use additional Sheets if necessary)
ECSed31055 - PM-1 DPREP to signal data replacement like AM-1 D
ECSed30896 - PGE 8A inputs staging on different disk than PCF dicates
ECSed31060 - PGE Promote script does not promote PGE that has,
ECSed31092 - PM-1 DPREP truncates PGE version number
ECSed30825 - PDPS PRE Creates Faulty Chains in OPS
ECSed31036 - DPS Disk Reclamation Fails when DpPrFile/PlDataGranule Link is Broken

24. Proposed Solution: (use additional sheets if necessary)
The TE 6A.04_PDPS.01 is obsolete. Patch 6A04_PDPS.02A provides the needed changes. This Patch is to be loaded on top of of Patch 6A.04_PDPS.01
***** Note: If you have not installed PDPS.01, you can skip directly to the Patch PDPS.02a installation. Otherwise load this patch on top of PDPS.01 **********
TAR files were built on 7/11/01 and has been tested in Landover.

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 LaRC & GSFC & EDC ASAP.

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): Randall J. Miller 7/30/01	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
33. M&O CCB Chair (Sign/Date): Debra Sagg 7/30/01	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

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ADDITIONAL SHEET

CCR #: 01-0622 **Rev:** – **Originator:** Cherry Kenney

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

Title of Change: Patch 6A.04_PDPS.02a Replaces PDPS.01 For DAACs and PVC & VATC. Includes Broken Links fix and other NCRs

Actions

Clearcase
Please Build from the 6A04 baseline:

> The SUN tar file will contain the following packages:
> .EcDpPrPLNMGMTWS.pkg
> .EcDpPrQUESRVR.pkg
> .EcPIPLNMGMTWS.pkg
> .EcPIQUESRVR.pkg
> .EcPIODPRM.pkg
> .EcDpAITWS.pkg

> The SGI tar fill will contain the following package:
> .EcDpScSCNCPRCS.pkg

Please deliver tar files to specified sites..

DAAC INSTALL INSTRUCTIONS

1. Get TAR Files from CM distribution.

2. UNTAR the files and copy to the staging area using the Setup.ksh file. Be sure to select "Y" when prompted for "Update ECS Assist Common Files" to get the latest version of ECS ASSIST. THIS MUST BE RUN AS ROOT.

3. On a SUN host, use E.A.S.I. to perform automated installation of all seven packages listed above as follows:

   a. Select the Mode to be installed
   b. Enter the location of the staged files
   c. Select CUSTOM and Click Next
   d. Select the "Subsystem" entry in the "Sort By" box.
   e. Click on the DPS icon to highlight it.
   f. Holding down the Shift key, click on the PLS icon to highlight it.
   f. Once you have selected both icons listed above, click Next.
   g. Select Install as the Installation Phase and Click Next
   h. Select STAGE as the Source File Location. Click Next
   i. Review the packages and hosts as displayed to ensure that they are going to be installed appropriately. Click Next.
   j. Click COMM and ensure all hosts displayed turn green, signaling that they are communicating with E.A.S.I.
   k. Click INSTALL and monitor each host. Ensure each host icon turns green signaling a successful installation.

4. Install the PDPS database patch by running ECS Assist Subsystem Manager from the PLS host:
   a. From the ECS Assist Subsystem Manager, select the mode for which the patch is being applied.
   b. Select PLS from the list of subsystems displayed Click on "EcPI" in the Components box.

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c. Click on the Database icon. Select "DbPatch" from the drop-down menu.
d. Select ".dbparms" from the window that appears. Click "Ok".
e. When the window is displayed with the message "Nothing to Configure", click "OK".
f. Fill in the requested information for the PDPS database. Click "Ok".
g. Monitor the output log for any errors. View the dbpatch log in the /usr/ecs/<MODE>/CUSTOM/logs directory to verify that there are no errors.
h. Note that NCR corrections have added db patches up to 6A18. You must update the PDPS DB upto 6A18.
i. Continue on to step 5.

5.
. Make sure the PDPS servers are up and running. Check the output logs for any errors.

**********END OF INSTALL INSTRUCTIONS**********

Item 23(Problems continued)

ECSed30888 - FAILPGE functionality is not working
ECSed31021 - EcDpPrRmFilesWOGranules.pl script failing in TS1
ECSed31106 - Problem generating DPR's
ECSed31141 - GSFC/SMC: PREPQC PGE ODL has errors
ECSed31053 - Can not create PLS database with 6A04 EcPlCreatePDPSDatabase script
ECSed30626 - ASTER On-Demand order submittal taking too long

Summary of all NCR fixes:

ECSed31055 Corrected PM-1 DPREP so that it signals data replacement, sets the automatic QA flag appropriately, and exits twith the appropriate status code whenever a long data gap or range violation is encountered, as AM-1 DPREP does.
Files in Task:
/ecs/formal/PDPS/DPS/PRONG/src/PreProcess/DpPrAm1VersionNumber.C@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/PRONG/src/PreProcess/DpPrPm1VersionNumber.C@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/PRONG/src/PreProcess/DpPrRecordProcessor.C@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/AM1_Ancillary_DPREP.tar.met@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/FDDAttitude.tar.met@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/HowToRunAm1DPREP@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/HowToRunPm1DPREP@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_AM1Eph#3010501.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_AM1Eph#3010502.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_AM1Eph#3010503.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_AM1Eph#3010504.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_FddAtt#3010501.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_FddAtt#3010502.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_FddAtt#3010503.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_FddAtt#3010504.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_PM1DefAtt#0020501.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_PM1DefAtt#0020502.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_PM1DefAtt#0020503.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_PM1DefAtt#0020504.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_PM1DefEph#0020501.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_PM1DefEph#0020502.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_RepEph#3010501.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_RepEph#3010502.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_RepEph#3010503.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_RepEph#3010504.odl@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ODL@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/PM1DefAtt.tar.met@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/PM1DefEph.tar.met@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data/ReplaceEphemeris.tar.met@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/ecs/formal/PDPS/DPS/data@@/main/relb/maint_6A04/kummerer_ncr31055_6A04/1
/1

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Test Instructions for Checkout Lab:
Run the PM-1 DPREP unit test. Check each DPR's execution phase status code to see that it is 216. Each interval that is processed has a long data gap or missing status words, thereby causing DPREP to signal data replacement may be necessary.

ECSed30896 - Added New Trigger "TrigInsDpPrGranuleLocation" which checks the "onDemandCopy" field in "PIDataTypeMaster" for the dataType of the granule and disallows an insert for the granuleId if there is already one in the table and onDemandCopy = 0
Files in Task:
/ecs/formal/PDPS/PLS/.EcPIDB.iu@@/main/relb/aabdelaz_ECSed30896/1
/ecs/formal/PDPS/PLS/sybase/EcPICreatePDPSDatabase@@/main/relb/aabdelaz_ECSed30896/1
/ecs/formal/PDPS/PLS/sybase/EcPIDbPatch.5B40@@/main/aabdelaz_ECSed30896/1
/ecs/formal/PDPS/PLS/sybase/EcPIDbPatch.5B40@@/main/aabdelaz_ECSed30896/2
/ecs/formal/PDPS/PLS/sybase/EcPIDbPatch.6A17@@/main/aabdelaz_ECSed30896/1
/ecs/formal/PDPS/PLS/sybase/EcPIDbPatch.6A17@@/main/aabdelaz_ECSed30896/2
/ecs/formal/PDPS/PLS/sybase/EcPIDbPatch@@/main/relb/aabdelaz_ECSed30896/1
/ecs/formal/PDPS/PLS/sybase/README@@/main/relb/aabdelaz_ECSed30896/1
/ecs/formal/PDPS/PLS/sybase/src/TrigInsDpPrGranuleLocation.sql@@/main/aabdelaz_ECSed30896/1
/ecs/formal/PDPS/PLS/sybase/src/TrigInsDpPrGranuleLocation.sql@@/main/aabdelaz_ECSed30896/2
/ecs/formal/PDPS/PLS/sybase/src@@/main/relb/aabdelaz_ECSed30896/1
Test Instructions for Checkout Lab:
Run EcPIDbPatch from EA Assistant after installing PLS.

ECSed31060 Changed the Promote PGE script to promote PGEs whenever the PGE deleteFlag is set to "1" (having been deleted) in the destination mode.
. Files in Task:
/ecs/formal/PDPS/DPS/SSIT/scripts/EcDpDbPromotePgeDb.ksh@@/main/relb/maint_6A04/kummerer_ncr31060_6A04/1
Test Instructions for Checkout Lab:
With identical PGEs in the source (e.g. TS1) and destination (e.g. TS2) modes, delete the PGE (using the Operational Metadata Update GUI in the SSIT Manager) in the destination mode. At this point the deleteFlag should be "1" in the PmPgeMaster table for the
deleted PGE. Promote the PGE from the source mode to the destination mode. Verify that the metadata were promoted by examining the deleteFlag in the PIPgeMaster table. It should be set to "0" again.

ECSed31092 - Changed DPREP so that leading zeroes on PGE version numbers are not truncated.
Files in Task:
/ecs/formal/PDPS/DPS/PRONG/src/PreProcess/DpPrAncPacketProcessor.C@@/main/relb/maint_6A04/kummerer_ncr3109204/1
/ecs/formal/PDPS/DPS/PRONG/src/PreProcess/DpPrEphemerisRecord.C@@/main/relb/maint_6A04/kummerer_ncr31092_6A01
/ecs/formal/PDPS/DPS/PRONG/src/PreProcess/DpPrRecordProcessor.C@@/main/relb/maint_6A04/kummerer_ncr31092_6A01
Test Instructions for Checkout Lab

Halt DPREP in execution, edit the PCF, change the PGE version number to one less than 1.0.0, release DPREP, and then examine the PGE version number in the output products. Leading zeroes should not have been truncated.

ECSed30825- Because of cross-linking EcPIDetermineChain.pl is finding large, monolithic chains.
Modified EcPIDetermineChain.pl to select children based on the number of granules produced by a parent that they use. Children should be attached to parents which produce the most granules that they use.
This modification will change the chaining algorithm so that children will have only 1 parent -- i.e. chains will be only one root node.
Files in Task
/ecs/formal/PDPS/PLS/PLANG/src/PWB/wb/src/EcPIDetermineChain.pl@@/main/relb/dsims_chains308256A04/1
Test Instructions for Checkout Lab:
1) Activate a plan and verify that the plan activates successfully
2) Procure the GDAAC OPs database and run the script against it in a test mode. Verify that the chains produced are reasonable by running /home/dsims/ECSed30825/report against the test database.

ECSed31036- 1. Fix the broken SQL statement which will create broken links in PDPS DB.
2. Delete all entries in DpPrGranuleLocation table for the given granuleId in the Delete method. This will prevent any inconsistencies from happenning for copy-ondemand scenario
Files in Task:

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/ecs/formal/PDPS/DPS/PRONG/src/DataMgmt/DpPrGranuleLocator.C
/ecs/formal/PDPS/PLS/PLANG/src/CoreLib/PIDataGranule.C
Test Instructions for Checkout Lab:
1. Check PDPS DB, make sure there is no broken links. Recommend using EcDpPrRmFilesWOGranules.pl script.
2. Run EcPIDbClean script to clean up some Dprs.
3. Use Production Request Editor to generate Dprs (any PGE is OK) while intentionally put in some wrong collection time which will fail the Dpr generation. (Before the fix, broken links will be generated.)
4. Check, there is no broken link created in PDPS DB.
Note: When running EcDpPrRmFilesWOGranules.pl to check for broken links, the system has to be in a quiet state.

ECSed30888- Fix the code for the Post job so that it will not be killed in Autosys when running a failed PGE.
. Files in Task:
/ecs/formal/PDPS/DPS/PRONG/src/JobMgmt/DpPrScheduler.C@@/main/relb/maint_6A04/nd
inh_6A04_30888/1
Test Instructions for Checkout Lab:
1)register PGE
2)hold the Post job
3)change exitCode to make PGE fail
4)run the Post job
5)verify that the job will complete after inserting PGE failed tar file to SDSRV, changing completionState to FAILEDPGE and pgeState to 6

ECSed31021 1- Modified trigger "TrigDelDpPrDiskAllocation", removed the check for matching computerId from both select and update statments in the trigger, and added check to make sure diskUsage field will not get value less than zero.
2- Dropped unique index 'PIDataTypeGranule_UI_AR' on PIDataGranuleShort_Archive table, to allow records with same universalReference to be inserted in archive table, per NCR31106.
Files in Task:
/ecs/formal/PDPS/PLS/.EcPIDB.iu@@/main/relb/aabdelaz_ECSed31021_6A05/1
/ecs/formal/PDPS/PLS/sybase/EcPICreatePDPSDatabase@@/main/relb/aabdelaz_ECSed31021_6A05/1
/ecs/formal/PDPS/PLS/sybase/EcPIDbPatch.6A18@@/main/aabdelaz_ECSed31021_6A05/1
/ecs/formal/PDPS/PLS/sybase/EcPIDbPatch@@/main/relb/aabdelaz_ECSed31021_6A05/1
/ecs/formal/PDPS/PLS/sybase/EcPIDbPatch@@/main/relb/aabdelaz_ECSed31021_6A05/2
/ecs/formal/PDPS/PLS/sybase/README@@/main/relb/aabdelaz_ECSed31021_6A05/1
/ecs/formal/PDPS/PLS/sybase/src/TrigDelDpPrDiskAllocation.sql@@/main/relb/aabdelaz_ECSed31021_6A05/1
/ecs/formal/PDPS/PLS/sybase/src/TrigDelDpPrDiskAllocation.sql@@/main/relb/aabdelaz_ECSed31021_6A05/2
Test Instructions for Checkout Lab:
Run EcPIDbPatch from EA Assistant after installing PLS.

ECSed31106 - Dropped unique index 'PIDataTypeGranule_UI_AR' on
PIDataGranuleShort_Archive table, to allow records with same universalReference to be inserted in archive table, per NCR31106.
. Files in Task:
/ecs/formal/PDPS/PLS/.EcPIDB.iu@@/main/relb/aabdelaz_ECSed31106_6A05/1
/ecs/formal/PDPS/PLS/sybase/EcPICreatePDPSDatabase@@/main/relb/aabdelaz_ECSed31106_6A05/1
/ecs/formal/PDPS/PLS/sybase/EcPIDbPatch.6A18@@/main/aabdelaz_ECSed31106_6A05/1
/ecs/formal/PDPS/PLS/sybase/EcPIDbPatch@@/main/relb/aabdelaz_ECSed31106_6A05/1
/ecs/formal/PDPS/PLS/sybase/README@@/main/relb/aabdelaz_ECSed31106_6A05/1
/ecs/formal/PDPS/PLS/sybase@@/main/relb/aabdelaz_ECSed31106_6A05/1

Test Instructions for Checkout Lab:
Run EcPIDbPatch from EA Assistant after installing PLS.

ECSed31141 -ltered the PREPQC ODL files to process BUFR format data sets appropriately.
Processing assumes that BUFR data sets are 6 hour granules offset from
start-of-day. Changed ODL so that:

(1) PROCESSING_PERIOD = "HOURS=6" (PREPQC PGE ODL and ESDT PREPQC ODL)
(2) PROCESSING_BOUNDARY = "START_OF_DAY" (PREPQC PGE ODL and ESDT PREPQC ODL)
(3) NOMINAL_SIZE = 21 (ESDT PREPQC ODL)
(4) NOMINAL_SIZE = 6 (ESDT PREPQCH ODL)
(5) DELAY = 259200 (for ESDT PREPQC ODL)
(6) MINIMUM_OUTPUTS = 1 (PREPQC PGE ODL)
(7) MINIMUM_SIZE = 0 (PREPQC PGE ODL)

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(8) MAXIMUM_SIZE = 7 (PREPQC PGE ODL)
Files in Task:
/ecs/formal/PDPS/DPS/data/ODL/ESDT_PREPQC#001.odl@@/main/maint_6A04/kummerer_ncr31141_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/ESDT_PREPQCH#001.odl@@/main/maint_6A04/kummerer_ncr31141_6A04/1
/ecs/formal/PDPS/DPS/data/ODL/PGE_PREPQC#001#001.odl@@/main/maint_6A04/kummerer_ncr31141_6A04/1
/ecs/formal/PDPS/DPS/data/ODL@@/main/relb/maint_6A04/kummerer_ncr31141_6A04/1
/ecs/formal/PDPS/DPS/data/ODL@@/main/relb/maint_6A04/kummerer_ncr31141_6A04/2
/ecs/formal/PDPS/DPS/data/PREPQC.tar.met@@/main/maint_6A04/kummerer_ncr31141_6A04/1
/ecs/formal/PDPS/DPS/data@@/main/relb/maint_6A04/kummerer_ncr31141_6A04/1
Test Instructions for Checkout Lab:
Register PREPQC. Plan and process the unit test data.

ECSed31053 - Fixed typo in "EcPlCreatePDPSDatabase" script, in setting PK constraint for "PlMetadataChecks" table, replaced "logicalId" with "lgoicalId".

ECSed30626 - Increase the performance of OnDemand order processing by not sending dpr to JobMgmt, instead, just update ondemand dpr to Pending state, and let SubMgr pending thread to pick up the dpr and send to JobMgmt. In addtition, odMgr will update the all of request ondemand order's stutus to MSS at once,
Files in Task:
/ecs/formal/PDPS/DPS/PRONG/src/Common/DpPrUpdateStatus.C@@/main/relb/rlam_Esd30626_6A04/1
/ecs/formal/PDPS/DPS/PRONG/src/Common/DpPrUpdateStatus.h@@/main/relb/rlam_Esd30626_6A04/1
/ecs/formal/PDPS/DPS/include/DpPrUpdateStatus.h@@/main/relb/rlam_Esd30626_6A04/1
/ecs/formal/PDPS/PLS/PLANG/src/CoreLib/PlOrderFactory.C@@/main/relb/rlam_Esd30626_6A04/1
/ecs/formal/PDPS/PLS/PLANG/src/CoreLib/PlPrActivator.C@@/main/relb/rlam_Esd30626_6A04/1
Test Instructions for Checkout Lab:
Run HighLevel OnDemand order.

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