ECS Configuration Change Request

1. Originator	2. Log Date:	3. CCR #:	4. Rev:	5. Tel:	6. Off:	7. Org.
Randy Miller	10/30/98	98-1146		x0400	2077	Dev/CO

8. Title of Change: Deliver Cyan Patch for 4PX to SMC

9. Originator Signature	10. Date:	11. Class	12. Type:	13. Need Date:
Randall J. Miller	10/29/98	II	CCR	10/30/98

14. Office Manager Signature	15. Date:	14. Date CCB Decision Needed:	17. Category of Change:	18. Priority:
[signature]	10/29/98	10/30/98	Update Baseline	Emergency

19. Documentation/Drawings Impacted:	20. Schedule Impact:	21. CI(s) Affected:
See attached documentation for patch. 914-TDA-054	None	DPREP

22. Release Affected:	23. Date due to Customer:	24. Impl. Date:	25. Effectivity of Change:	26. Est. Cost
4PX	ASAP	10/30/98	10/30/98	None

27. Source Reference: ☒NCR (attach) ☐Action Item ☐ GSFC CCR ☐Tech Ref. ☐Other:
See attached list.

28. Description of Change: (use additional Sheets if necessary)
Deliver and install patch to fix DPREP.

29. Proposed Solution: (use additional sheets if necessary)
Merge files required for patch to 4PX baseline, create tar files containing patch files, deliver patch tar files to SMC, distribute tar files to GDAAC and Mini-DAAC. The formal PSR will be held Friday, 10/30. Shipment of the tar files to the SMC and release of the tar files from the SMC to GDAAC and Mini-DAAC before the formal PSR is authorized with this signature: [signature]

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

31. Consequences if Change(s) are not approved: (use additional sheets if necessary)
SSI&T at GDAAC will be held up.

32. Does Change Affect Any of the following (Please Explain on additional sheet):
☐Maintenance Training ☐Performance ☐Operation Training ☐Safety ☐Service ☐Support ☒Test
☐Baseline (XRP) ☐Y2K Compliance

33. Organization(s) Affected: ☐CM ☐Clearcase SG ☐Contracts ☐Chief Eng ☐FOS ☐M&O ☐QO ☐ Rel Dev ☐Procurement ☐RTSC ☐Sci. Data Eng ☐Security ☐Sys. Dev. ☐Sys. Eng. ☐Sys Verf Acpt ☐Other

34. Site(s) Affected: EDF ☒Mini-DAAC VATC EDC ☒GSFC LaRC NSIDC ☒SMC ☐AK ☐JPL ☐EOC ☐Other

35. Board Comments:	36. Work Assigned To:
Pending FINAL version of Patch documentation.	

37. Release Authorized (For CM Use Only):	38. CM Verified/Signature and Date
☐Yes ☐ No	

39. EDF/REL2 CCB Chair (Sign/Date):	40. Disposition:	41. ESDIS ERB Concurrence:
[signature] 10/30/98	☐App ☒App/C ☐DisApproved ☐Withdraw ☐Fwd/ECS ☐Fwd/ESDIS	

42. ECS CCB Chair (Sign/Date):	43. Disposition:	44. CCR Closed Date:
	App ☐ A/C ☐ DisApproved☐ Withdraw☐	

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4PX Patch "Cyan"

Purpose

The Cyan patch (4PX.03) provides fixes for defects in DPREP.

DPREP is not executed at EDC or NSIDC; therefore this patch is not required at these sites. The fixes provided in this patch will also be provided in the 4PY delivery; hence it is recommended that sites not currently actively integrating with DPREP wait until the 4PY delivery to take these fixes.

NCRs Fixed

See the attached list for the NCRs fixed in this patch..

Nature of Fix

The fixes provided by the Cyan patch are implemented with the delivery of new DPREP executables and data files (ODLs).

Installation Instructions

The following instructions describe the installation of the Cyan patch into a mode containing the 4PX version of ECS. Note that there are no interdependencies between this patch and the previous patches to 4PX (Amber and Burgundy).

READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION.

1) Download and stage the files for the 4PX Cyan delivery from the SMC.

2) DO NOT perform any clean-up activities (data, databases, CDS entries, et cetera).

3) DO NOT install ECS Assist from the staging directory using the setup script.

4) From the command line, copy the following files from the staging area (<staging area>/sgi/CUSTOM/bin/DPS) to the directory /usr/ecs/<MODE>/CUSTOM/bin/DPS on the Science Processor:

EcDpPrAM1Step1DPREP
EcDpPrAm1AncillaryDPREP
EcDpPrAm1EphemerisGapFillDPREP
EcDpPrAm1ToolkitToHdfDPREP
EcDpPrAm1FddAttitudeDPREP

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EcDpPrAm1FddReplaceEphemerisDPREP
EcDpPrDumpAttitudeDPREP
EcDpPrDumpEphemerisDPREP

From the command line, copy the following data files from the staging area (<staging area>/sgi/CUSTOM/data/DPS) to the directory /usr/ecs/<MODE>/CUSTOM/data/DPS on the Science Processor:

PGS_101
HowToCreateDprepTarFile
HowToRunDPREP
EDOS_LEVEL_ZERO_00.curr
EDOS_LEVEL_ZERO_01.curr
EDOS_LEVEL_ZERO_00.next
EDOS_LEVEL_ZERO_01.next
EDOS_LEVEL_ZERO_00.next_1
EDOS_LEVEL_ZERO_01.next_1
EDOS_LEVEL_ZERO_00.next_2
EDOS_LEVEL_ZERO_01.next_2
EDOS_LEVEL_ZERO_00.next.step3
EDOS_LEVEL_ZERO_01.next.step3
AM1_DEFINITIVE_ATT.fdd.curr
AM1_DEFINITIVE_ATT.fdd.next
AM1_DEFINITIVE_ATT.fdd.next_1
AM1_REPAIR_EPH.fdd
AM1ANC.curr.met
AM1ANC.next.met
AM1ANC.next_1.met
AM1ANC.next_2.met
AM1_DEFINITIVE_ATT.fdd.curr.met
AM1_DEFINITIVE_ATT.fdd.next.met
AM1_DEFINITIVE_ATT.fdd.next_1.met
FDDAttitude.tar.met
AM1_Ancillary_DPREP.tar.met
EcDpPrAm1AncillaryDPREP.Steps1ab.PCF.curr
EcDpPrAm1AncillaryDPREP.Steps1ab.PCF.next
EcDpPrAm1AncillaryDPREP.Steps1ab.PCF.next_1
EcDpPrAm1FddAttitudeDPREP.Step2.PCF.curr
EcDpPrAm1FddAttitudeDPREP.Step2.PCF.next
EcDpPrAm1FddReplaceEphemerisDPREP.Step3.PCF.curr
EcDpPrAm1FddReplaceEphemerisDPREP.Step3.PCF.next

Note that some of the data files mentioned above are not changed by the patch. The above copy can be achieved by installing .EcDpPrDPREP.iu on the science processor using ECS-Assist.

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Follow the instructions in the files
/usr/ecs/<MODE>/CUSTOM/data/DPS/DPREP_README,
/usr/ecs/<MODE>/CUSTOM/data/DPS/HowToRunDPREP, and
/usr/ecs/<MODE>/CUSTOM/data/DPS/HowToCreateDprepTarFile to create DPREP PGE tar files.

Note: If the old DPREP executables have been registered in the PDPS database using the SSIT Manager and if there are references to them in the PDPS database, they have to removed manually.

Sun Installation Instructions:

The sun installation is limited to data files on the SSI&T Workstation. From the command line, copy the following data files from the staging area (<staging area>/sun/CUSTOM/data/DPS/ODL) to the directory /usr/ecs/<MODE>/CUSTOM/data/DPS/ODL on the SSI&T Workstation:

PGE_AM1Eph#2.0#01.odl
PGE_AM1Eph#2.0#02.odl
PGE_FddAtt#1.0#01.odl
PGE_FddAtt#1.0#02.odl

Using the SSI&T Manager GUI, register the DPREP PGEs.

5) DO NOT perform an installation to SHARED Mode.

6) DO NOT perform a Toolkit installation.

5) DO NOT perform any mkconfigs using ECS Assist -- no changes in configuration are required by the patch.

6) DO NOT perform any database updates.

7) DO NOT re-install any ESDTs.

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NCR	Subsystem	S	F	D	4PY Merge	4PY Build	Developer	NCR Title
17430	DPS	2	C	R	929007	929004	khouck	AM-1 DPREP should report QA violations in LogStatus file.
17612	DPS	3	R	T	1021017	1021002	khouck	AM-1 DPREP error in QA statistics calculation.
17643	DPS	2	C	T	1002023	1002001	khouck	AM-1 DPREP utility EcDpPrAm1AncillaryDPREP safe mode QA error.
17954	DPS	3	R	T	1021014	1021002	khouck	AM-1 DPREP needs to record status of PGE run in LogStatus
18047	DPS	2	C	R	1006020	1007002	khouck	AM-1 DPREP should not be limit checking FDD attitude data.
18094	DPS	1	E	R	928008	928015	khouck	DPREP: Profile 2 looks for previous datasets.
18130	DPS	2	C	R	928008	928015	khouck	DPREP: Insufficient char length causes Step 1 DPREP to fail
18146	DPS	2	C	T	1001002	1001002	bhough	DPREP: Incorrect path causes wrong executable to be run
18203	DPS	3	R	R	1006020	1007002	khouck	AM-1 DPREP DPREP fails to zero qaStatistics field.
18281	DPS	2	E	R	1019003	1019002	khouck	AM-1 DPREP tags FDD ephemeris output with wrong S/C ID.
18293	DPS	2	C	T	1016005	1016001	mmauthe	DPREP: ODL Updates needed for Step 2 (FddAtt)
18294	DPS	2	C	T	1006023	1008002	khouck	DPREP: AM1ATTF .met files don't match the delivered data
18460	DPS	2	C	R	1019003	1019002	khouck	AM-1 DPREP core dumps over uninitialized orbit count variable.
18789	DPS	2	C	T	1028015	1028002	mmauthe	Need to fix DPREP ODL after multiple NCR fixes

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