

ECS Configuration Change Request

1. Originator Randy Miller	2. Log Date: 2-1-99	3. CCR #: 99-0084	4. Rev: -	5. Tel: x0400	6. Off: 2078	7. Org. Dev/CO
8. Title of Change: Distribute 4PX.23 Patch To Mini-DAAC From SMC						
9. Originator Signature <i>Randy Miller</i>	10. Date: 2/1/99	11. Class II	12. Type: CCR	13. Need Date: 2/1/99		
14. Office Manager Signature <i>Randy Miller for Mary Armstrong</i>	15. Date: 2/1/99	16. Date CCB Decision Needed: 2/1/99	17. Category of Change: Update Baseline	18. Priority: Emergency		
19. Documentation/Drawings Impacted: Patch Documentation attached		20. Schedule Impact: None		21. CI(s) Affected: All		
22. Release Affected: 4PX	23. Date due to Customer: 2/1/99	24. Impl. Date: 2/1/99	25. Effectivity of Change: 2/1/99	26. Est. Cost None		
27. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> GSFC CCR <input type="checkbox"/> Tech Ref. <input type="checkbox"/> Other: List attached						
28. Description of Change: (use additional Sheets if necessary) The SMC has received the tar files for the 4PX.23 patch. This CCR authorizes the SMC to push the files to the Mini-DAAC for Patch IPT testing.						
29. Proposed Solution: (use additional sheets if necessary) Distribute the 4PX.23 tar files to the Mini-DAAC.						
30. Alternate Solution: (use additional sheets if necessary) Release the 4PX.23 patch without testing.						
31. Consequences if Change(s) are not approved: (use additional sheets if necessary) 4PX.23 patch will be released without testing, may contain unknown defects.						
32. Does Change Affect Any of the following (Please Explain on additional sheet): <input type="checkbox"/> Maintenance Training <input type="checkbox"/> Performance <input type="checkbox"/> Operation Training <input type="checkbox"/> Safety <input type="checkbox"/> Service <input type="checkbox"/> Support <input type="checkbox"/> Test <input type="checkbox"/> Baseline (XRP) <input type="checkbox"/> Y2K Compliance						
33. Organization(s) Affected: <input type="checkbox"/> CM <input type="checkbox"/> Clearcase SG <input type="checkbox"/> Contracts <input type="checkbox"/> Chief Eng <input type="checkbox"/> FOS <input type="checkbox"/> M&O <input type="checkbox"/> QO <input checked="" type="checkbox"/> Rel Dev <input type="checkbox"/> Procurement <input type="checkbox"/> RTSC <input checked="" type="checkbox"/> Sci. Data Eng <input type="checkbox"/> Security <input type="checkbox"/> Sys. Dev. <input type="checkbox"/> Sys. Eng. <input type="checkbox"/> Sys Verf Acpt <input type="checkbox"/> Other						
34. Site(s) Affected: <input type="checkbox"/> EDF <input checked="" type="checkbox"/> Mini-DAAC <input type="checkbox"/> VATC <input type="checkbox"/> EDC <input type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input checked="" type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> Other						
35. Board Comments:				36. Work Assigned To:		
37. Release Authorized (For CM Use Only): <input type="checkbox"/> Yes <input type="checkbox"/> No			38. CM Verified/Signature and Date			
39. EDF/REL2 CCB Chair (Sign/Date): <i>M. M. Donnell 2/1/99</i>		40. Disposition: <input checked="" type="checkbox"/> App <input type="checkbox"/> Ap/C <input type="checkbox"/> DisApproved <input type="checkbox"/> Withdraw <input type="checkbox"/> Fwd/ECS <input type="checkbox"/> Fwd/ESDIS		41. ESDIS ERB Concurrence:		
42. ECS CCB Chair (Sign/Date):		43. Disposition: <input type="checkbox"/> App <input type="checkbox"/> A/C <input type="checkbox"/> <input type="checkbox"/> DisApproved <input type="checkbox"/> Withdraw		44. CCR Closed Date:		

## 4PX Patch "Wine"

### **Purpose**

The Wine patch (4PX.23) provides fixes for 31 NCRs.

### **NCRs Fixed**

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

### **Nature of Fix**

C++ code was modified in several CSCIs. Database scripts and stored procedures were modified in Science Data Server and Storage Management. The ECS Assist Scripts were modified.

### **Installation Instructions**

**Dependencies And Preconditions.** The Wine patch can only be installed into modes containing the 4PX.18 (Ruby) or higher revision level of ECS.

**Contents of the Patch Kit:** This patch consists of four files: the SGI system delivery tar file and the setup k-shell file, and the Sun system delivery tar file and the setup k-shell file.

**READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION.**

### **General Instructions.**

- 1) Download and stage the files for the delivery from the SMC.
- 2) DO install ECS Assist from the staging directory using the setup script.
- 3) DO NOT perform an installation to SHARED Mode.
- 4) DO NOT perform a Toolkit installation.
- 5) DO NOT re-install any ESDTs.

### **Subsystem Specific Instructions.**

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CLIENT (CLS)

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There are no Client (CLS) components newly delivered, replaced, or re-configured by this patch.

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#### COMMUNICATIONS (CSS) and MANAGEMENT (MSS)

There are no Communications (CSS) or Management (MSS) components newly delivered, replaced, or re-configured by this patch.

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#### DATA MANAGEMENT (DMS) and INTEROPERABILITY (IOS)

Use EcCoAssist to install the files for all of the DMS and IOS packages on all hosts. Do not run the Mkcfig or Mkcdsentry options – no changes in configuration parameters or CDS entries are required. Do not run any database patch or build scripts – no changes in the databases are required.

Update the Valids as follows:

(These instructions are written specifically for EDC. Other DAACs should substitute their local host names as appropriate.)

- 1) login into e0ins02 as cm<mode>
- 2) Delete all entries in the DmDdValidsMapping in the Data Dictionary database:

```
> cd /usr/ecs/<mode>/CUSTOM/dbms/DMS/data/DDictData/
```

```
> isql -Udms_role -P<password> -Se0ins02_srvr
```

```
isql> use EcDmDictService_<mode>
```

```
isql> go
```

```
isql> delete DmDdValidsMapping
```

```
isql> go
```

```
isql> quit
```

- 3) Copy in the vew valids mappings

```
> bcp EcDmDictService_<mode>..DmDdValidsMapping in  
DmDdValidsMapping.dat -c -Udms_role -P<password> -Se0ins02_srvr
```

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4) Update the valids mappings in the Data Dictionary database by running the Data Dictionary Maintenance Tool, selecting the Attribute Mapping Tab, and clicking on the "Update All Collections" button at the bottom of the Data Dictionary Maintenance Tool

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#### INGEST (INS)

Use EcCoAssist to install the files for all of the INS packages on all hosts. Do not run the Mkcfg or Mkcdsentry options – no changes in configuration parameters or CDS entries are required. Do not run any database patch or build scripts – no changes in the databases are required.

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#### PLANNING (PLS) and DATA PROCESSING (DPS)

Use EcCoAssist to install the files for all of the PLS and DPS packages on all hosts. Do not run the Mkcfg or Mkcdsentry options – no changes in configuration parameters or CDS entries are required. Do not run any database patch or build scripts – no changes in the databases are required.

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#### STORAGE MANAGEMENT (STMGT) and DATA DISTRIBUTION (DDIST)

Use EcCoAssist to install the files for all of the STMGT and DDIST packages on all hosts.

The permissions for the media server executables (EcDsSt8MMServer and EcDsStD3Server) must be set from the command line so that they will execute as root.

Do not run the Mkcfg option – no changes in configuration parameters are required.

Execute EcDsStMkCdsEntry on all platforms that host an EcDsStFtpDisServer.

Update the STMGT/DDIST database by executing STMGT Patch 4PY.7(4PX.23) from EcCoAssist.

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## SCIENCE DATA SERVER (SDSRV)

Use EcCoAssist to install the files for all of the SDSRV packages on all hosts.

Do not run the Mkcfcg options. Only one change in a configuration parameter is required by the patch: edit the configuration parameter file for the Science Data Server and set the AUTO\_INSPECT parameter to ON.

Do not run the Mkcdsentry options – no changes in CDS entries are required.

Update the SDSRV database by executing SDSRV Patch 4.8 from EcCoAssist.

This block of instructions applies only to EDC, and assumes that the Violet patch (4PX.22) has not been applied to the mode undergoing installation. These instructions remove the HdfEosServers from the Sun host and install them on the SGI host.

On the Sun machine where the HdfEosServers are currently installed do the following:

1. Remove the following files:
  - /usr/ecs/<MODE>/CUSTOM/bin/DSS/EcDsHdfEosServer
  - /usr/ecs/<MODE>/CUSTOM/utilities/EcDsHdfEosServerMkcfcg
  - /usr/ecs/<MODE>/CUSTOM/utilities/EcDsHdfEosServerStart
2. Copy all the /usr/ecs/<MODE>/CUSTOM/cfg/EcDs\*.CFG files to /usr/ecs/<MODE>/CUSTOM/cfg/EcDs\*.CFG\_old. Copies of the .CFG files can be used to help set the correct values for the configuration parameters when you run the mkcfcg option.
3. Remove the following files:
  - /usr/ecs/<MODE>/CUSTOM/cfg/EcDsHdfEosServer.PCFG
  - /usr/ecs/<MODE>/CUSTOM/cfg/EcDsHdfEosServer.CFG
4. Using ECS Assist, re-install the SDSRV on the SUN by installing the following packages:
  - EcDsSdOPSWs.pkg
  - EcDsSdSDSRV.pkg
  - EcDsSdMOC.pkg
5. Run the Mkcfcg option of ECS Assist for the EcDsScienceDataServerApp. When you click on the EcDsScienceDataServerApp button one new parameter should appear. That parameter is NumOfHdfServer. Set the value of this parameter to the number of HdfEosServers that will be installed on the SGI Machine. Using the old configuration parameter files set the values of the configuration parameters for the Science Data Server Client, Science Data Server, and Science Data Server GUI.
6. Exit EcsAssist
7. Start the EcDsScienceDataServer using HPOV.

8. On an HP Machine use the cdsbrowser to delete the CDS entries associated with the HdfEosServer on the Sun machine. To do this go into the cdsbrowser and delete the following entries:

```
././subsys/ecs/servers/<SunMachine>/ EcDsHdfEosServer_#/EcAgManagerObj_<MODE>
././subsys/ecs/servers/<SunMachine>/ EcDsHdfEosServer_#/EcDsHdfEosServer_#_Obj1_<MODE>
././subsys/ecs/servers/<SunMachine>/ EcDsHdfEosServer_#/EcDsHdfEosServer_#_Obj2_<MODE>
././subsys/ecs/servers/<SunMachine>/ EcDsHdfEosServer_#/EcDsHdfEosServer_#_Obj3_<MODE>
```

The # will be replaced by a number. You will repeat this step for all HdfEosServers that had been on the Sun. (If you have 5 HdfEosServers then you will repeat this step five times replacing the # with 1, then 2, then 3, etc.)

On the SGI Machine where the HdfEosServers are being installed installed do the following:

1. Using ECS Assist install the EcDsHdfEosServer.pkg
  2. Run the Mkcfcg option for the EcDsScienceDataServerApp. Set the number of HdfEosServers that will be installed on the SGI Machine in the EcDsScienceDataServerApp configuration parameter. Also set the configuration parameters for the HdfEosServers. Use the
    - /usr/ecs/<MODE>CUSTOM/cfg/EcDsHdfEosServer.CFG\_old files on the Sun machine to help set the values of the parameters.
  3. Run Mkcdsentry
  4. Start the HdfEosServers from HPOV. (To start them at the command line, run the application level script. To run this script by hand type:
 

```
/usr/ecs/<MODE>/CUSTOM/utilities/EcDsScienceDataServerAppStart <MODE>
```

 This will automatically start the number of instances of the HdfEosServers that is configured at the Application level.)
  5. Using ping\_by\_name, ping each interface (each server has three) of each of the HdfEosServers to verify they are ping-able and that there is not more than one entry for each one. To ping all of the interfaces for one of the HdfEosServers enter the following:
 

```
ping_by_name ././subsys/ecs/<MODE>/EcDsHdfEosServer_<server_number>_G1
ping_by_name ././subsys/ecs/<MODE>/EcDsHdfEosServer_<server_number>_G2
ping_by_name ././subsys/ecs/<MODE>/EcDsHdfEosServer_<server_number>_G3
```
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