

ECS Configuration Change Request

1. Originator Byron V. Peters	2. Log Date: 4 MAY 99	3. CCR #: 99-0382	4. Rev: -	5. Tel: 301/883-4077	6. Rm #: 2011C	7. Org. SED
8. Title of Change: Update Engineering Technical Directive for Anonymous FTP						
9. Originator Signature/Date: <i>Byron V. Peters</i> 5/5/99			10. Class H	11. Type: CCR	12. Need Date: 5/7/99	
13. Office Manager Signature/Date: <i>Franklin D. ...</i> 5/4/99			14. Category of Change: Update Baseline		15. Priority: (If "Emergency" fill in Block 28). Routine	
16. Documentation/Drawings Impacted: ETD 99-005			17. Schedule Impact: None	18. CI(s) Affected:DDIST		
19. Release Affected: Drop 4PX, 4PY		20. Date due to Customer:	21. Impl. Date:	22. Estimated Cost: None		
23. Source Reference: <input type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other:						
24. Description of Change: (use additional Sheets if necessary) Due to required changes in the ECS custom code, the configuration of the anonymous ftp server must be updated. The intention is also to make the instructions clearer.						
25. Proposed Solution: (use additional sheets if necessary) Implement attached directive						
26. Alternate Solution: (use additional sheets if necessary) None						
27. Consequences if Change(s) are not approved: (use additional sheets if necessary) User pull will not work.						
28. Justification for Emergency (If Block 15 is "Emergency"):						
29. Site(s) Affected: <input checked="" type="checkbox"/> EDF <input checked="" type="checkbox"/> Mini-DAAC <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						
30. Board Comments:				31. Work Assigned To:		
32. EDF/REL2 CCB Chair (Sign/Date): <i>Mark Donald</i> 5/5/99		33. Disposition: <u>Approved</u> A/C Disapproved Fwd/ECS Fwd/ESDIS		34. (TBD)		
35. M&O CCB Chair (Sign/Date): <i>J. ...</i> 5/5/99		36. Disposition: <u>Approved</u> A/C Disapproved Fwd/ECS Fwd/ESDIS		37. CM Manager's Closure:		
38. ECS CCB Chair (Sign/Date): <i>J. ...</i>		39. Disposition: Approved A/C Disapproved		40. CCR Closed Date:		

ORIGINAL

Subject: Anonymous FTP setup

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The following directive is issued to all DAACS and labs.

Issue: Anonymous FTP must be setup and is required since users pulling data from ECS will not have an ECS account. Installation will be restricted to the primary ACM host. Any other instances must have ECS program approval.

Fix: Setup an anonymous FTP account and directory to allow users to obtain data via FTP from ECS.

Testing: From an Internet-based system, download a test file from the primary ACM host (usually acg01) using anonymous ftp. On login, an "ls" should *not* show directories. cd to the appropriate directory obtained from the email notification after login and then download the file(s).

Implementation: The following steps are designed to help set up a network accessible anonymous FTP account:

1. Logon to the primary "acg" host as root (or su to root)
2. Verify that there are no other anonymous ftp servers running on the host.
3. Create the anonymous FTP account in the passwd file:
ftp:*:997:999:anonymous FTP account:/data4/OPS/apc/Pull_Data/user:/dev/null

IMPORTANT NOTE: Use the correct physical name/path of the actual disk -- it may not be data4. Construct the rest of the path, however, to be similar.

4. Create an anonymous FTP directory (if not already created) as setup in the passwd file and a cache area for the files to be staged:
mkdir /data4/OPS/apc/Pull_Data/user
mkdir /data4/OPS/apc/Pull_Data/cache

IMPORTANT NOTE: The cache directory must be created as a peer (on the same hierarchical level) as the user directory and both cache and user must be on the same file system as they are hard linked and hard links will not work between two different file systems. Do not place the pull area under the login directory, as this will create a security hole.

5. Set the permissions and ownership on the cache directory using the commands:
chmod -R 775 /data4/OPS/apc/Pull_Data/cache
chown -R cmops:cmops /data4/OPS/apc/Pull_Data/cache
6. Set global access permission for the anonymous FTP directory so that the file may be written by an application that is started as part of the cmops group but is unseen (yet still accessible) to a user who knows the name:
chmod -R 171 /data4/OPS/apc/Pull_Data/user
chown -R ftp.cmops /data4/OPS/apc/Pull_Data/user

Anybody logging in can now retrieve files in the user directory, but they must be told the path and the name of the file beforehand because they cannot list the directory contents.

7. Create the etc directory underneath the Pull_Data directory using the command:
mkdir /data4/OPS/apc/Pull_Data/etc
8. Copy /etc/passwd and /etc/group to /data4/OPS/apc/Pull_Data/etc and edit the files as follows.

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The passwd file should contain only:

```

root:*:0:0:super-user:/:/dev/null
bin:*:3:3:system tools owner:/bin:/dev/null
sys:*:4:0:system activity owner:/usr/adm:/dev/null
ftp:*:997:999:anonymous FTP account:/data4/OPS/apc/Pull_Data/user:/dev/null

```

The group file should only contain an entry for cmops

NOTE: REPLACE THE XXX WITH YOUR LOCAL cmops GID:

cmops:*:XXX:

Set restrictive permissions on /data4/OPS/apc/Pull_Data/etc/passwd and /data4/OPS/apc/Pull_Data/etc/group:

chmod 444 /data4/OPS/apc/Pull_Data/etc/*

9. Add device and library files for anonymous FTP as follows:

```

# mkdir /data4/OPS/apc/Pull_Data/dev
# /sbin/mknod /data4/OPS/apc/Pull_Data/dev/zero c 37 0
# mkdir /data4/OPS/apc/Pull_Data/lib
# cp /lib/libc.so.1 /data4/OPS/apc/Pull_Data/lib
# cp /lib/rld /data4/OPS/apc/Pull_Data/lib

```

10. Add the following entry to the file /etc/aliases so that mail sent to the user anonymous goes to the postmaster:

Anonymous: postmaster

11. To make the above alias take effect, run the command:

newaliases

12. Verify that FTP logging to record successful and unsuccessful FTP logins and actions on files and directories performed during a FTP session by editing the /etc/inetd.conf file. Verify that the following line is present (and if not present enter it):

ftp stream tcp nowait root /etc/wrappers/ftpd ftpd -lll

13. After editing /etc/inetd.conf, restart inetd with the following command:

/etc/killall -HUP inetd

Point of Contact: Byron V. Peters, chair, TSIWG, email bpeters@eos.hitc.com
Phone: 301/883-4077

Approved By: M. McBride 
Director, Systems Engineering

Reference CCR: 99-0382

-----End of Directive-----