

ECS Configuration Change Request

1. Originator Byron V. Peters	2. Log Date: 1/14/99	3. CCR #: 99-0034	4. Rev: —	5. Tel: 4077	6. Off: SED	7. Org. HWE
8. Title of Change: Update Engineering Technical Directive 001						
9. Originator Signature <i>Byron V. Peters</i>		10. Date: 12/17/98	11. Class II	12. Type: CCR	13. Need Date: 12/18/98	
14. Office Manager Signature <i>Hardy Hollinger</i>		15. Date: 12/17/98	16. Date CCB Decision Needed: 12/18/98	17. Category of Change: Category	18. Priority: Routine	
19. Documentation/Drawings Impacted: ETD001			20. Schedule Impact: None	21. CI(s) Affected:		
22. Release Affected: Drop 4PX		23. Date due to Customer: N/A	24. Impl. Date: 12/31/98	25. Effectivity of Change:	26. Est. Cost None	
27. Source Reference: <input type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> GSFC CCR <input type="checkbox"/> Tech Ref. <input type="checkbox"/> Other:						
28. Description of Change: (use additional Sheets if necessary) An update to ETD001 has been requested to include the "ftpd -lll" option and a note to check the appropriate files when there are multiple network adapters in a host.						
29. Proposed Solution: (use additional sheets if necessary) Revise ETD 001 to ETD-001A as attached. <i>ETD 001 Rev 1</i>						
30. Alternate Solution: (use additional sheets if necessary) N/A						
31. Consequences if Change(s) are not approved: (use additional sheets if necessary) ECS Custom code will not function correctly.						
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 checked="" 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 checked="" type="checkbox"/> M&O <input type="checkbox"/> QO <input type="checkbox"/> Rel Dev <input type="checkbox"/> Procurement <input checked="" type="checkbox"/> RTSC <input type="checkbox"/> Sci. Data Eng <input type="checkbox"/> Security <input checked="" type="checkbox"/> Sys. Dev. <input checked="" type="checkbox"/> Sys. Eng. <input type="checkbox"/> Sys Verf Acpt <input type="checkbox"/> Other						
34. 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"/> 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>Mark M. Donald 2/22/99</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: App <input type="checkbox"/> A/C <input type="checkbox"/> DisApproved <input type="checkbox"/> Withdraw <input type="checkbox"/>		44. CCR Closed Date:		

ORIGINAL

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Engineering Technical Directive

Subject: Replacing kftp daemon with the TCP wrappers ftp daemon
The following directive is issued to all DAACS and labs.

21 February 99

Issue: Development has determined that some of the functionality of the Kerbnet 1.0 (Kerberos Version 5) ftp daemon is broken. Specifically, use of the mget command results in a core dump of the ftp daemon process. Mget is required function for the ECS ftp server and will break ECS Drop 4PI and later if the Kerbnet version is installed. Therefore, *before Drop 4PI is installed*, a change in the /etc/inetd.conf file must be made to allow the use of the TCP wrappers ftp daemon.

Fix: Modify the /etc/inetd.conf to disable the use of the Kerbnet ftp daemon by using the # to comment out the line and enable the TCP wrappers version of ftp by uncommenting the native OS version or adding it to the file and then restart the inetd process. A reboot is NOT required.

1. **SGI hosts:**

Comment out the line:

```
#ftp stream tcp nowait root /usr/cygnus/kerbnet-1.0/sbin/ftpd ftpd
```

Uncomment (remove the #) or add the line:

```
ftp stream tcp nowait root /etc/wrappers/tcpd ftpd -ll
```

Restart the inetd process using the command:

```
/etc/killall -HUP inetd
```

Note on SGI implementation: The -ll flag is required for the correct operation of the ECS PullMonitor server. PullMonitor only exists on SGI hardware so this change is not required for other hardware types.

2. **Sun hosts:**

Comment out the line:

```
# ftp stream tcp nowait root /usr/cygnus/kerbnet-1.0/sbin/ftpd ftpd -l
```

Uncomment (remove the #) or add the line:

```
ftp stream tcp nowait root /etc/wrappers/tcpd in.ftpd -l
```

Determine the pid of the inetd process using the command:

```
/usr/bin/ps -ef | grep inetd
```

Restart the inetd process using the command:

```
/usr/bin/kill -SIGHUP pid
```

pid is the process id found in previous step.

3. **HP hosts:**

Comment out the line:

```
# ftp stream tcp nowait root /usr/cygnus/kerbnet-1.0/sbin/ftpd ftpd
```

Uncomment (remove the #) or add the line:

```
ftp stream tcp nowait root /etc/wrappers/tcpd ftpd -l
```

Determine the pid of the inetd process using the command:

```
/usr/bin/ps -ef | grep inetd
```

Restart the inetd process using the command:

```
/usr/bin/kill -SIGHUP pid
```

pid is the process id found in previous step.

4. **All Hosts with multiple network interfaces**

If the host has more than one network interface, make sure to update the /etc/hosts.allow and /etc/hosts.deny to enable/disable the appropriate protocols on each interface. If this is not done, the secondary interfaces will be useless.

Testing:

From another host on the same LAN, ftp to the modified host and get or put a file to each interface (if more than one).

Implementation:

These changes must be made prior to installation of 4P1. PLEASE NOTE this change also standardizes the use of ftp. DAACS should review all of their host configurations to ensure that the proper parameter settings have been used (e.g. ftpd -lll). At this time ONLY Kerberos ftp should be removed. A future change is planned which will remove remaining Kerberos products. Until such time as that change is approved, the remaining Kerberos products shall remain on the system.

Additional Information:

The following information is being provided for use by the DAACS in working this issue. While it is believed to be accurate, the DAACS should verify all of their hosts:

Where Kerberos ftp is being used.

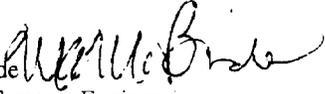
Location queried: /etc/inetd.conf

EDC	GSFC	LaRC	NSIDC
Sgi Hosts			
e0acg01	g0acg01	l0acg02	N
e0acg02	g0acg05	l0acg05	O
e0drg01	g0drg01	l0drg01	T
e0drg02	g0drg02	l0icg02	
e0icg01	g0drg07	l0spg06	A
e0icg02	g0spg01		V
e0icg03	g0spg07		A
e0spg05	g0wkg01		I
e0wkg01			L
Sun Hosts			
e0css02	g0css02	l0css02	B
e0dis01	g0dis01	l0ins01	L
e0dis02	g0dis02	l0ins02	E
e0ins02			

- Changes:
1. Updated the ftpd entry to include the "ftpd -lll" option required for ECS code
 2. Note to revise the /etc/hosts.allow /etc/hosts.deny for multi-interface hosts

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Reference CCR: 99-0034

Approved By: M. McBride 
 Director, Systems Engineering

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