ECS Configuration Change Request

1. Originator	2. Log Date:	3. CCR #:	4. Rev:	5. Tel:	6. Off:	7. Org.
Barry Fortlage	10/9/98	98-1088	-	925-0972	2069	SED

8. Title of Change: Network Route Additions to EDC and NSIDC Dual-Homed Platforms

9. Originator Signature	10. Date:	11. Class	12. Type:	13. Need Date:
[signature]	10/9/98	II	CCR	10/26/98

14. Office Manager Signature	15. Date:	16. Date CCB Decision Needed:	17. Category of Change:	18. Priority:
[signature]	10/9/98	10/14/98	Other	Urgent

19. Documentation/Drawings Impacted:	20. Schedule Impact:	21. CI(s) Affected:
921-TDE-005 Rev:01 921-TDN-005 Rev:00	none	NA

22. Release Affected:	23. Date due to Customer:	24. Impl. Date:	25. Effectivity of Change:	26. Est. Cost
Drop 4PY	n/a	10/26/98	n/a	None

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

28. Description of Change: (use additional Sheets if necessary)

Planned Loadrunner and xloadrunner-based testing of DAAC hosts from the VATC requires that the VATC has full connectivity to all DAACs. However, full connectivity between the four DAACs and the VATC was not a requirement at installation. Consequently, network routes over EBnet from EDC and NSIDC to the VATC were not configured into the dual-homed hosts' routing tables. (GSFC and LaRC DAACs already have the VATC routes installed on the dual-homed hosts.)

29. Proposed Solution: (use additional sheets if necessary)

Update the network static routes on all dual-homed hosts at EDC (approximately 9) and NISDC (approximately 7) to include a route to the VATC over EBnet. DAAC M&O staff are to perform the updates according to an Engineering Technical Directive (attached).

30. Alternate Solution: (use additional sheets if necessary)

DAAC M&O staff will have to perform on-demand, command line route additions on a host-by-host basis and will have repeat the additions in the event a platform is re-booted for any reason.

31. Consequences if Change(s) are not approved: (use additional sheets if necessary)

Regression testing will not be available at the DAACs or additional loadrunner/xloadrunner licenses must be purchased. However, there are no funds available for such a procurement.

32. Does Change Affect Any of the following (Please Explain on additional sheet):

☐Maintenance Training ☐Performance ☐Operation Training ☐Safety ☐Service ☐Support ☐Test
2 ☒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:

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

39. EDF/REL2 CCB Chair (Sign/Date):	40. Disposition:	41. ESDIS ERB Concurrence:
[signature] 10/13/98	☒App ☐Ap/C ☐DisApproved ☐Withdraw ☐Fwd/ECS ☐Fwd/ESDIS	

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

ORIGINAL

[redacted]

ECS Project

Engineering Technical Directive **No. 98-00x**

13 October 1998

Subject: Network Route Additions to EDC and NSIDC Dual-Homed Platforms

The following directive is issued to EDC and NSIDC DAACs

Issue: All dual-homed platforms deployed in the ECS DAACs' local area networks are to receive network static route for communications with the ECS VATC. This technical directive provides the information necessary to install this additional static route. For clarity, a dual-homed platform is one that has a network connection to the Production network and to the User network.

Fix:

1.0 General

This technical directive describes the procedure for installing the additional static route into each dual-homed host at EDC and NSIDC. The added route is specific to each of the two DAACs. The VATC network number is 198.118.232.0. For EDC the gateway is 198.118.202.1. For NSIDC, the gateway is 198.118.205.1.

The static route is added by modifying the platform's network startup script containing the current static routes. For the Sun and SGI platforms, the startup script is located in file /etc/rc2.d/S87route_add. For the HP platform, the startup script is located in file /sbin/init.d/route_add.

2.0 Procedure Details

Execute the following steps for each dual-homed host:

1. Login as root.
2. For a dual-homed Sun platform, add 198.118.232.0 to the ADD_NET_LIST variable in script file /etc/rc2.d/S87route_add.
3. For a dual-homed HP platform, add 198.118.232.0 to the ADD_NET_LIST variable in script file /sbin/init.d/route_add.
4. For a dual-homed SGI platform, add 198.118.232.0 to the ADD_NET_LIST variable in script file /etc/rc2.d/S87route_add.
5. Execute the changed script and then check that the additional static route has been added to the platform's route table by executing **netstat –rn**. For example, at EDC the static route table should now have an entry **198.118.232 198.118.202.1 ...** and for NSIDC the entry **198.118.232 198.118.205.1 ...**

Testing:

For each host, verify the execute command **ping 198.118.232.1** and verify that an echo return is received.

Implementation:

All dual-homed platforms at EDC and NSIDC

Approved By: Joe Guzek
Chief Engineer

Joe Guzek 10/13/98

Reference CCR: 98-1088

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

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