FIELD CHANGE ORDER
Number CXA16-F001

Applicability: Replace "as needed" CXA16’s (M3118-YA’s) in the Field below Revision "E2" which are exhibiting the problem/symptoms as noted in the Problem/Symptom Section of this FCO document.
(Applicability Section continued on page 3 of this FCO document.)

Problem/Symptoms: 1) Artificial login attempts on the DECSERVER 500/550’s with the CXA16 module installed. 2) Excessive framing errors on DECSERVER 500/550’s with the CXA16 module installed. 3) Locked Ports on the DECSERVER 500/550’s with the CXA16 module installed. 4) Excessive Port overrun errors on the DECSERVER 500/550 with the CXA16 module installed. 5) Server slowdown due to false logins on the DECSERVER 500/550 with the CXA16 module installed.
NOTE** The above listed problems will most likely occur when a terminal is powered off during normal operations.

Quick Check 1) Verify CXA16 (M3118-YA) at Revision "E2" or greater.

Compatibility/Prerequisite FCO | Estimated Time to Install
NONE | EUR/ 1.0 Hr., GIA & US/ 0.5Hr.

Special Tools or Test Equipment
NONE

FCO Parts Information

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Approvals

CSSE Engineer | F.S. Product Safety | F.S. Logistics
David Benson  | Robert Brister      | Ed Duggan
Responsible CSSE Mgr. | F.S. Microfiche Libraries | Affected Population
Jonathan Lewis |                      | 6,571
REWORK INSTRUCTIONS

**NOTE** DECSERVER 500/550 Technical Manual possession and pre-familiarization is suggested.

1) Locate the DECSEVER 500/550’s exhibiting the problems/symptoms as noted in the Problem/Symptom Section of this FCO document.

2) Obtain the Customers permission and perform all necessary procedures to remove the DECSEVER 500/550 from the Customers network.

3) Power down the DECSEVER 500/550 Server.

*****************************************************************************************************************************************
* *** CAUTION ***
* To assure that the AC power is removed from the unit, the AC power cord must be disconnected. Do not remove any FRU’s with power applied to the* unit.
*****************************************************************************************************************************************

4) If the DECSEVER 500/550 has a front cover, remove the cover by inserting the antistatic key into the keyhole and turning clockwise to the stop position.

5) Lift the cover up and then outward.

6) Locate the CXA16 (M3118-YA) Line Card Modules below Revision "E2" for the affected lines. Remove the module from the DECSEVER 500/550 by loosening the 2 1/4 turn fasteners securing the handle to the card cage by pressing in and turning in a counterclockwise direction.

7) Simultaneously pull the upper and lower release levers outward to disengage the module from the backplane and gently slide the
8) Observe the address and vector switchpack settings of the CXA16 (M3118-YA) module/modules just removed from the DECSERVER 500/550. Set the switches of the new CXA16 (M3118-YA), (supplied with this EQ Kit), to the same switchpack settings. Install the new CXA16 (M3118-YA) module into the slots the CXA16 (M3118-YA) module/modules was/were removed from.

** NOTE ** Set the new CXA16 (M3118-YA) switches to the SAME switchpack settings as the removed CXA16 (M3118-YA). If unsure of settings please refer to the CXA16 and/or DECSERVER 500/550 Technical Manuals.

9) Restore power to the DECSERVER 500/550 Server.

10) Testing of the CXA16 (M3118-YA) Line Cards is performed by an internal diagnostic self-test performed at power-up. Verify that the CXA16 (M3118-YA) module OK LED’s (Green LEDs) turn off and on as each CXA16 is tested. The DECSERVER 500/550 is ready for normal operation when the Servers’ display LED’s begins alternating between 0 and 8.

**NOTE** If the power-up self test diagnostic is not successful verify switchpack settings of the CXA16 and/or consult the DECSERVER 500/550 Technical Manual for additional information.

11) Re-install the front cover of the Server.

12) Complete LARS data as per example on Page 5 of 5 of this FCO Document.

13) Update the Site Management Guide to reflect installation of this FCO.

Applicability (Continued from Page 1)

On Digital Equipment communications systems using DEC423, problems have been known to occur when a user terminal is powered down, or a terminal line is left unterminated. This creates a condition where signal cross-talk from adjacent active lines or noise from other electrical sources is received at the local system or DECserver and the system attempts to act upon the signal received. The usual
scenario is one where the system attempts to have the "noise" log-in and fails. The 5180 receiver chip is used in the CXA16 (M3118-YA) which is used in the following Digital products:

1) DSRVS-AA, DSRVS-AB, DSRVS-BA, and the DSRVS-BB DECSERVER 500 Ethernet Terminal Servers using the CXA16 (M3118-YA) receiver cards for RS423 applications.

2) DSRVS-CA, DSRVS-CB, DSRVS-DA, and the DSRVS-DB DECSERVER 550 Ethernet Terminal Servers using the CXA16 (M3118-YA) receiver cards for RS423 applications.

Problem Symptoms: (Continued from Page 1)

1) Artificial login attempts on the DECSERVER 500/550’s with the CXA16 module installed.

2) Excessive framing errors on DECSERVER 500/550’s with the CXA16 module installed.

3) Locked Ports on the DECSERVER 500/550’s with the CXA16 module installed.

4) Excessive Port overrun errors on the DECSERVER 500/550 with the CXA16 module installed.

5) Server slowdown due to false logins on the DECSERVER 500/550 with the CXA16 module installed.

**NOTE** The above listed problems will most likely occur when a terminal is powered off during normal operations.

EQ Kit Variation/System-Option Applicability (Cont. from Page 1)

DSRVB-AA, DSRVB-AB, DSRVB-BA, DSRVB-BB, DSRVS-CA, DSRVS-CB, DSRVS-DA and DSRVS-DB.
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(a) Warranty Optimum, Warranty Standard and Warranty Basic (on-site) Agreements.

(b) RTD=Return to Digital or Off-site Agreements; If Field Engineer On-site, use Activity Code "F".

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