FIELD CHANGE ORDER

Number: DEBET-I001

Applicability: Rework "as needed" DEBET-AA, AB, RC, RD, at Revision Level D7 or below for customers experiencing problems running RBMS. This FCO implements ECO number 54-17521-MK007 and DEBET-MK011.

Problem/Symptoms: This FCO corrects problems seen on nodes running RBMS as well as rectifying several other minor Microcode problems (see problem description for more details). It also enables a down line loading feature required to support LAN traffic monitoring.

Quick Check: 1) The unit tag located on the rear of the unit will have Revision level at "E7".
   2) opening up the unit will reveal that;
      E131 has a ROM marked 23-293E5 &
      E132 has a ROM marked 23-294E5

Compatibility/Prerequisite FCO: N/A

Est. Time to Install: 1.0 hr.

Special Tools or Test Equipment: N/A

FCO Parts Information

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<th>Contents</th>
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<tr>
<td>EQ-01479-01</td>
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<tr>
<td>1</td>
<td>23-293E5</td>
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<tr>
<td>1</td>
<td>23-294E5</td>
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<tr>
<td>1</td>
<td>36-19209-05</td>
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<td>36-19208-07</td>
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<tr>
<td>FA-04768-01</td>
<td>FCO Document</td>
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</tbody>
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EQ Kit Variation/System-Option Applic: DEBET family of Ethernet Bridges.

Approvals

<table>
<thead>
<tr>
<th>CSSE Engineer</th>
<th>F.S. Product Safety</th>
<th>F.S. Logistics</th>
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<tbody>
<tr>
<td>Richard Woodard</td>
<td>Jerry Gannelli</td>
<td>Ed Duggan</td>
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<td>Responsible CSSE Mgr.</td>
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<tr>
<td>Tony Payne</td>
<td>F.S. Microfiche Libraries</td>
<td>Affected Population</td>
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<td></td>
<td>EP-FSNVX-LB VAX</td>
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<tr>
<td>MicroMedia Publishing</td>
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<td>Initial Kitting</td>
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PROBLEM and ENHANCEMENT DESCRIPTION

1. Down line load feature required to support LAN Traffic Monitor.

2. BRIDGE in position to take over as ROOT, if present ROOT fails, will not notify the other BRIDGES on the network that it is the new ROOT.

3. Flooding of the network will occur if the Ethernet address table is filled (8000 entries).

4. Bridge receiving a loopback message with an illegal "next destination" address, will forward it.

The following problems will only be seen from a node on the network that is running remote bridge management software.

5. Bridge Frame Sent counters for Link 1 and Link 2 are swapped.

6. Bridge Packet Transmit counter may not contain correct count.

7. Bridge Forwarding Entries Lost counter does not work.

8. Bridge Filter Frame counter for Link 1 contains Link 0 count.

9. Bridge may broadcast an RBMS reply message.

10. Broadcast address will be found in Address Table when Bridge is initialized.
1. Perform all necessary procedures to remove the DEBET from the Network.

2. Remove power from the DEBET by disconnecting the AC power cord from the outlet.

*** CAUTION ***
To assure that the AC power is removed from the unit, the AC power cord must be disconnected.

3. Remove the DEBET chassis assembly by removing four rubber feet and four screws at the bottom of the unit.

4. To gain access to the module and power assemblies, remove the 24 machined screws holding on the FCC enclosure.

5. Remove three wire harnesses at J1, J4 and P1 of the Power Supply module, and the flat ribbon cable that goes thru the rear access hole of the plenum, located at the front center of the unit. (SEE FIGURE 2)

6. Remove the Fan Assembly Harness (70-22908-01) from the cable retainers located on the inner rear enclosure wall. (SEE FIGURE 2)

7. Loosen two captive screws on the plenum that the Power Supply board is attached to, and two Phillips head screws also located on the plenum at the front of the unit. (SEE FIGURE 2)

8. Remove the Power Supply assembly from the FCC enclosure.

*** CAUTION ***
The ROMS in this FCO, as with other modules and ROMS, contain electrostatic discharge sensitive devices (ESDS). The use of the VELOSTAT kit is essential to prevent damage which may not be noticed immediately.
9. Locate and remove the microcode ROM 245E5 at location E131 using an IC remover or small screwdriver, and replace with microcode ROM 293E5. (SEE FIGURE 1)

10. Locate and remove the microcode ROM 246E5 at location E132 using an IC remover or small screwdriver, and replace with microcode ROM 294E5. (SEE FIGURE 1)

11. Install Brady Markers "E" and "7" on the rear label of the DEBET, over the existing Revision of D6.

12. Reverse sequence steps 1 thru 8 to restore the DEBET back to operation.

13. Complete LARS data as per example on page 5.

14. Update Site Management Guide to reflect this FCO.
<table>
<thead>
<tr>
<th>Field</th>
<th>Value 1</th>
<th>Value 2</th>
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</thead>
<tbody>
<tr>
<td>Type of Call</td>
<td>M</td>
<td>M</td>
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<td>I</td>
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\^ DEBET
\DEBET
\WOODARD
\1987
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\FCO_DOCS