```
 _ _ _ _ _ _ _
| | | | | | | | |                            Level of          Page _1__
|d|i|g|i|t|a|l|                             Urgency           Of ___5__
|_|_|_|_|_|_|_|              FCO              [ I ]
```

| 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 runnning 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

Order by FCO Kit #	Contents		
	Quantity	Part Number	Description
EQ-01479-01	1	23-293E5	Microcode ROM
	1	23-294E5	Microcode ROM
	1	36-19209-05	Brady Marker "E"
	1	36-19208-07	Brady Marker "7"
FA-04768-01	1		FCO Document

EQ Kit Variation/System-Option Applic: DEBET family of Ethernet Bridges.

Approvals

CSSE Engineer Richard Woodard	F.S. Product Safety Jerry Gannelli	F.S. Logistics Ed Duggan
Responsible CSSE Mgr. Tony Payne	F.S. Microfiche Libraries EP-FSNVX-LB VAX	Affected Population 400
MicroMedia Publishing		Initial Kitting

Ray LeBlanc	VAXnotes	400
	STARS	
Revision:		Hardcopy Publication
A		500
FCO Release Date		Parts Availability
4-NOV-87		October 1987

EN-01095-12-REVB(548)

```
 _ _ _ _ _ _ _
| | | | | | | |
|d|i|g|i|t|a|l|
|_|_|_|_|_|_|_|
```

FCO DEBET-I001

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.

11. Bridge configured not to forward broadcast messages, will lose this
    information on a power fail.


```
 _ _ _ _ _ _ _                 |    FCO   DEBET-I001
| | | | | | | |                |
| | | | | | | |                |
|d|i|g|i|t|a|l|                |    PAGE 3 OF 5
|_|_|_|_|_|_|_|                |
                               |
                               |
_____|_____
```

                      REWORK PROCEDURE

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.

```
_ _ _ _ _ _ _                    |          FCO   DEBET-I001
| | | | | | | | |                |
|d|i|g|i|t|a|l|                  |          PAGE 4 OF 5
|_|_|_|_|_|_|_|                  |
                                 |
_____|_____
```

Figures 1 and 2

```
_ _ _ _ _ _ _                    |          FCO   DEBET-I001
| | | | | | | | |                |
|d|i|g|i|t|a|l|                  |          PAGE 5 OF 5
|_|_|_|_|_|_|_|                  |
                                 |
_____|_____
```

LARS

	USA & GIA	EUROPE
Activity		
Contract and warranty	W	Y
Non Contract/Non Warranty	F	F
DEC Option	DEBET	DEBET

Type of Call	M	M
Action Taken	D	I
Fail Area-Module-FCO-Comments	FCO DEBET-I001	FCO DEBET-IO01
Material Used	EQ-01479-01	EQ-01479-01

```
\^ DEBET
\\DEBET
\\WOODARD
\\1987
\\NOV
\\FCO_DOCS
```