

## S E R V I C E N O T E

SUPERSEDES: None

**E4219A, Network Impairment Emulator Module****Serial Numbers:** CA35430000 / CA36040200

Module/E4219-69000/none

**Revised Assembly corrects design defects.****To Be Performed By:** Agilent-Qualified Personnel**Parts Required:** E4219-69000**Situation:**

Design deficiencies may result in any of the following symptoms:

1. NEM doesn't support asynchronous LIFs, e.g. E1619A, E1698A.
2. Fourth bit of byte stuck at zero in the CDV module non-delay path.
3. A few cells get "stuck" in the CDV FIFOs when switching modes with traffic running.
4. Read/Write lines of CDV FIFOs not pulled high during reset. This is in contention with manufacturer's spec.

*Continued*

DATE: August 1996

## ADMINISTRATIVE INFORMATION

|                                 |                                                                                                                                             |                                                                                                                                      |                                                                                                                               |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| SERVICE NOTE CLASSIFICATION:    |                                                                                                                                             |                                                                                                                                      |                                                                                                                               |
| <b>MODIFICATION RECOMMENDED</b> |                                                                                                                                             |                                                                                                                                      |                                                                                                                               |
| ACTION CATEGORY:                | <input checked="" type="checkbox"/> IMMEDIATELY<br><input type="checkbox"/> ON SPECIFIED FAILURE<br><input type="checkbox"/> AGREEABLE TIME | STANDARDS:<br>Labor 1.0 Hour                                                                                                         |                                                                                                                               |
| LOCATION CATEGORY:              | <input type="checkbox"/> CUSTOMER INSTALLABLE<br><input type="checkbox"/> ON-SITE<br><input checked="" type="checkbox"/> SERVICE CENTER     | SERVICE INVENTORY: <input checked="" type="checkbox"/> RETURN<br><input type="checkbox"/> SCRAP<br><input type="checkbox"/> SEE TEXT | USED PARTS: <input checked="" type="checkbox"/> RETURN<br><input type="checkbox"/> SCRAP<br><input type="checkbox"/> SEE TEXT |
| AVAILABILITY:                   | PRODUCT'S SUPPORT LIFE                                                                                                                      |                                                                                                                                      | AGILENT RESPONSIBLE UNTIL: August 1997                                                                                        |
| AUTHOR: HS                      | ENTITY: 2600                                                                                                                                | ADDITIONAL INFORMATION:                                                                                                              |                                                                                                                               |

5. A small glitch at threshold caused by reflection on the VME 16 Mhz clock made the NEM malfunction in certain slots. Worst behaviour was noted in slot 4 in conjunction with a V382 controller.
6. Intermittent failure to launch application.

Some fifty (50) modules were shipped in the affected serial number range.

**Solution/Action:**

Replace the affected module.

**Test Procedures:**

If the complete customer BSTS is accessible, the following basic procedures can be followed to verify module installation and operation. If the customer has sent only the E4219A module for exchange, a copy of these procedures should be shipped with the module to the customer.

These procedures assume the correct application software has been installed, i.e. Base System, NEM, LIF; version 3.0.1 or later is required. CPP software must be installed if CPP module is present.

Follow accepted practices for antistatic precautions when servicing the BSTS.

Ensure that the replacement module VXI address is set correctly; suggested setting is 8 X Slot Number. For more information, refer to the "System Installation & Startup Guide", part number E4200-92003. The NEW (Network Impairment Emulator Module) is installed to the right of a CPP (if present) and to the left of a LIF.

After installation, power up the system and check that the NEM "Failed" LED is not lit.

Log in to the BSTS as "bisdn", start the TSM (Test Session Manager), and verify the NEM is available in the "Module Selection" area and is in the correct slot compared to its physical location.

Select "Information" from the TSM "System" pull down menu, and verify that the NEM VXI address does not conflict with any module in the system. Select the NEM, then press the "Self-Test" button, confirm the test by selecting "Yes" in the "Confirm Action" dialog box. Verify the NEM passes its self-test. Close the "System Information" window.

Select the NEM and the LIF to its right, select "ATM" at the cell layer in the Protocol

Selection viewer, select an appropriate “Physical” and “Convergence” protocols. Select the “Start Appl.” button, and verify the application will launch.

If no errors are reported, quit the application and perform a system shutdown before turning off the mains power switch.

Ensure that the replacement module VXI address is set correctly; suggested setting is 8 X Slot Number. For more information, refer to the “System Installation & Startup Guide”, part number E4200-92003. The NEM (Network Impairment Emulator Module) is installed to the right of a CPP (if present) and to the left of a LIF.

After installation, power up the system and check that the NEM “Failed” LED is not lit.

Log it to the BSTS as “bisdn”, start the TSM (Test Session Manager), and verify the NEM is available in the “Module Selection” area and is in the correct slot compared to its physical location.

Select “Information” from the TSM “System” pull down menu, and verify that the NEM VXI address does not conflict with any other module in the system. Select the NEM, then press the “Self-Test” button, confirm the test by selecting “Yes” in the “Confirm Action” dialog box. Verify the NEM passes its self-test. Close the “System Information” window.

Select the NEM and the LIF to its right, select “ATM” at the cell layer in the Protocol Selection viewer, select an appropriate “Physical” and “Convergence” protocols. Select the “Start Appl.” button, and verify the application will launch.

If no errors are reported, quite the application and perform a system shutdown before turning off the mains power switch.

#### **NOTE**

Prompt return of the defective module is critical to restocking the pipeline. Code as 02G on the CSO.