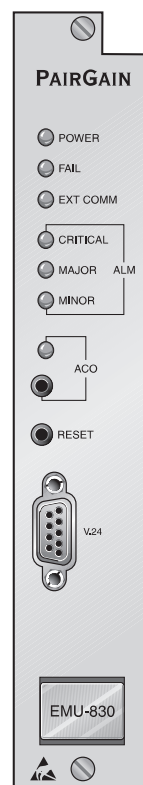

HIGAIN INTERNATIONAL SERIES EXCHANGE OFFICE MANAGEMENT UNIT SOFTWARE RELEASE NOTES – VERSION 2.02

| Model | List Number | Part Number |
|---------|-------------|-------------|
| EMU-830 | 1 | 150-1440-01 |



PAIRGAIN TECHNOLOGIES, INC.
ENGINEERING SERVICES SOFTWARE RELEASE NOTES
SECTION 190-800-106-02

Revision History of this document.
Revision 02—October 06, 1997
A) Release of EMU software version 2.02

TABLE OF CONTENTS

| | |
|---|----------|
| A. SOFTWARE RELEASE OVERVIEW | 1 |
| 1. Description | 1 |
| 2. Product Application | 1 |
| 3. New Features | 1 |
| 4. Bug Fixes | 2 |
| 5. Known Existing Bugs | 2 |
| B. BACKWARD COMPATIBILITY AND UPGRADES | 3 |
| 6. Compatibility with Previous Versions of HDSL Unit Software | 3 |
| 7. Upgrade Methods | 3 |
| 8. Compatibility with Previous Versions of SNMP MIBs..... | 3 |
| C. SAFETY AND EMC COMPLIANCE | 3 |
| 9. Safety and EMC Compliance..... | 3 |

©Copyright 1997 PairGain Technologies, Inc.

PairGain and HiGain are registered trademarks of PairGain Technologies, Inc.

Information contained in this document is Company Private to PairGain Technologies and shall not be used, copied, reproduced, or disclosed in whole or in part without the written consent of PairGain.

A. SOFTWARE RELEASE OVERVIEW

1. Description

- 1.1 This document describes the new features, bug fixes, known remaining bugs, and compatibility issues associated with release of the following software:

General Description: Exchange Office Management Unit Software
Version: 2.02
Checksum: 0x1080
Release Date: 08/07/97
File Name: muv202 .img

- 1.2 The previous release of software was:

Version: 2.0
Checksum: 0xBC09
Release Date: 05/19/97
File Name: muv200 .img

2. Product Application

- 2.1 This software is used with the products listed in the following table.

Exchange Office Management Units Using Version 2.02 Software

| Model Number | Product Number | Description |
|--------------|----------------|---|
| EMU-830 | 150-1440-01 | Exchange Office Management Unit with TAO and SNMP |

3. New Features

- 3.1 No new features were added in this software release.

4. Bug Fixes

- 4.1 All bugs that existed in the previous software release, version 2.0, are listed below along with the corrective action that was taken to fix the problem for the current release, version 2.02.

| | |
|---------------------|--|
| Bug: | Not detecting SNMP objects <code>hds1MarginAlarmLoopACust</code> and <code>hds1MarginAlarmLoopBCust</code> . |
| Description: | With the LTU and NTU loops up and operating, the HDSL Margin Alarm Threshold was configured to be higher than the actual current margin values which triggered the Margin alarm. On the Main console screen the alarms were indicated as MAR* on both the LTU and NTU, however the SNMP objects <code>hds1MarginAlarmLoopACust</code> and <code>hds1MarginAlarmLoopBCust</code> intermittently did not show that they were in the alarm state. |
| Fix: | Alarm now shows under SNMP. |

| | |
|---------------------|---|
| Bug: | EMU reverts to Factory Default when sent a RESTART command |
| Description: | After receiving an SNMP <code>pgAgentRestart</code> command, the EMU resets but instead of rebooting with the configured parameters it reverts to the EMU factory defaults. |
| Fix: | User defined parameters are now preserved after a RESTART. |

| | |
|---------------------|---|
| Bug: | SLIP not completely functional. |
| Description: | Unable to access the EMU through the SLIP port. |
| Fix: | The SLIP port is now fully functional. |

| | |
|---------------------|---|
| Bug: | EMU fails to send command to setup NTU time slots. |
| Description: | When a time slot change is requested via SNMP, the EMU fails to send the correct index on the backplane to indicate that the change is for the NTU. |
| Fix: | NTU time slots can now be set via SNMP. |

| | |
|---------------------|---|
| Bug: | TFTP problems |
| Description: | There are two problems related with doing TFTP transfers: <ul style="list-style-type: none"> • If the RS-232 Craft port cable is removed about the same time that the EMU resets, it will cause the EMU to lockup. • During a TFTP transfer, if the user inadvertently hits a key on the keyboard the EMU will stop requesting any more packets and lock up the system. |
| Fix: | TFTP transfers can now be performed without keyboard or Craft port interruption. |

| | |
|---------------------|--|
| Bug: | BOOTP requests lock up the EMU. |
| Description: | When making a BOOTP request, the EMU locks up and cannot be recovered. |
| Fix: | BOOTP now functions properly without locking up the EMU. |

5. Known Existing Bugs

- 5.1 At the time of its release there were no known bugs in version 2.02 of the EMU software.

B. BACKWARD COMPATIBILITY AND UPGRADES

6. Compatibility with Previous Versions of HDSL Unit Firmware

- 6.1 This version of EMU software (2.02) requires HDSL Unit firmware version 2.00 or later to ensure proper communication between the EMU and HDSL Units.

7. Upgrade Methods

- 7.1 **From version 1.1.** EMU-830 management units running software version 1.1 must be upgraded by replacing the two PROM chips on the board. These chips may be ordered from PairGain as part of the EMU-830 List 1 Upgrade Kit (part number 150-1491-01). This kit includes the following:

- EMU-830 Firmware Upgrade PROMs, Version 2.02
- EMU-830 Technical Practice
- SNMP MIB Diskette
- HDSL Unit Firmware Diskette, Version 2.02

- 7.2 **From version 2.0.** EMU-830 management units running software version 2.0 may be upgraded by either replacing the PROM chips identified above, or by performing a firmware download from a VT100 terminal or PC running a terminal emulation program. The EMU-830 Technical Practice describes how to perform the firmware download. The version 2.02 image file (`muv202.img`) may be downloaded from PairGain's FTP site in the `ETSI/Management_Unit` directory.

8. Compatibility with Previous Versions of SNMP MIBs

- 8.1 This version of EMU software (2.02) requires the current release of SNMP MIB files to function properly. The current release of MIB files is not backward compatible with EMU 2.0 software.

The MIB files for EMU version 2.02 are identified in the following list. The MIB files should be compiled in the order listed.

- | | | |
|-----------------------------|-------------------------------|-----------------------------------|
| • <code>RFC1155.mib</code> | - Standard MIB | Resident on SNMP software package |
| • <code>pgmibhd.mib</code> | - PairGain Common MIB | Release 1.1 Revision 05/21/97 |
| • <code>pgetsi.mib</code> | - PairGain ETSI Interface MIB | Release 1.1 Revision 07/10/97 |
| • <code>pghds1.mib</code> | - PairGain HDSL MIB | Release 1.2 Revision 06/24/97 |
| • <code>pgagtmib.mib</code> | - PairGain SNMP Agent MIB | Release 1.1 Revision 05/21/97 |
| • <code>pgetsitr.mib</code> | - PairGain ETSI SNMP Trap MIB | Release 1.1 Revision 05/21/97 |

The Release version number and Revision date can be seen by viewing the MIB files with a standard text editor.

C. SAFETY AND EMC COMPLIANCE

9. Safety and EMC Compliance

- 9.1 Use of EMU Version 2.02 software will not change the safety or EMC characteristics of the EMU-830 board.

Corporate Office
14402 Franklin Avenue
Tustin, CA 92780

Tel: (714) 832-9922
Fax: (714) 832-9924

For Technical Assistance:
(800) 638-0031

