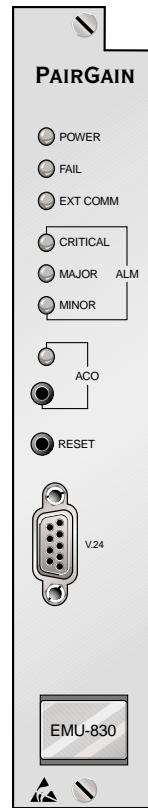


HiGAIN ETSI

EXCHANGE OFFICE MANAGEMENT UNIT

SOFTWARE RELEASE NOTES – VERSION 3.22.08

Model	List Number	Part Number
EMU-830	1	150-1440-01
EMU-830	2	150-1440-02
EMU-830	3	150-1440-03



PAIRGAIN TECHNOLOGIES, INC.
SOFTWARE RELEASE NOTES
SECTION 190-800-129-01

Revision History of This Document

Revision	Release Date	Revisions Made
01	September 15, 1999	Initial Release

DOCUMENTATION

The technical practice for this product, document number 700-030-100-xx, can be downloaded from the Customer site portion of the PairGain Web page at <http://www.pairgain.com>. A password is required for access to the Customer Site Web pages. If you do not have a password, contact your PairGain sales representative.]

If you have comments on this PairGain document, send an email to technical_publications@pairgain.com. Type the product name and the section number of the document in the subject area of the email message.

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SOFTWARE RELEASE OVERVIEW

Description

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: 3.22.08
Checksum: 0x27FA
Release Date: 03 September 1999
File Name: muv32208.img

The previous release of software was:

Version: 3.22
Checksum: 0x6A23
Release Date: 17 November 1998
File Name: muv322.img

Product Application

This software can be used with the products listed in the following table.

Exchange Office Management Units Using Version 3.22.08 Software

Model Number	List	Part Number	Description
EMU-830	1	150-1440-01	Exchange Office Management Unit with Terminal Access Option (TAO) and Simple Network Management Protocol (SNMP)
EMU-830	2	150-1440-02	Exchange Office Management Unit with TAO, SNMP, and special reset
EMU-830	3	150-1440-03	Exchange Office Management Unit with TAO, SNMP, and external shelf clock backup circuit

New Features

EMU software Version 3.22.08 includes the following new features:

- 1 Support for Rate Selectable line units with firmware Version 4.00.00 or higher.
- 2 Support for T1 line units with firmware version V03.22.00 or higher.
- 3 Added the MIB ItuPersonalityProgrammability item, which identifies UTUs and allows the local unit role to be set to LTU.
- 4 Added the Shelf Unit Info MIB table, which shows all line units in the shelf.
- 5 Support for use of timeslot 16 on line units.
- 6 Allows configuration change to all Nx64k port types (V.35, V.36, X.21 and RS-530 as applicable).

Bug Fixes

All bugs that have been corrected since the previous software release, Version 3.22, are listed below along with the corrective action that was taken to fix the problem for the current release, Version 3.22.08.

- 1 Corrected improper modem redial problem on autonomous alarms reporting. Improved communication between EMU and modem by adding 60 second delay time between redials when phone line is busy.
- 2 Corrected modem fail to disconnect problem in multishelf environment.
- 3 Corrected intermittent lock-up problem on Ethernet port during EMU power up and reset.
- 4 Corrected problem where NTU2 was not displayed correctly in MIB ntuConfigTable, ntuTimeSlotTable, ntuE115mPerformanceTable, ntuE124hPerformanceTable, and ntuE1Curr24hPerformanceTable.
- 5 Corrected intermittent illumination of ACO LED after ACO switch is pressed.
- 6 Corrected TAO lock-up problem when 10BASE-2 port is improperly terminated.
- 7 Corrected TAO failure to accept special characters (such as %, &, and \$) for shelf ID.
- 8 Corrected the sysUpTime format per MIB definition.
- 9 Corrected failure of TAO password to be saved in NVRAM.

Notice for Users

The EMU will occasionally reject the setting of a new loopback configuration from a SNMP set command. The reason for this is that the new loopback configuration is conflicting with a previous loopback configuration. The corrective action is to clear the previous loopback configuration, then set the new loopback configuration.

BACKWARD COMPATIBILITY AND UPGRADES

Compatibility with Previous HDSL Unit Firmware and GUI Software

EMU software Version 3.22.08 is backward compatible with all Version 2.xx and later HDSL unit firmware and Version 1.x GUI software. However, to use all the new features added to EMU software Version 3.22.08, the following versions (or later) of HDSL firmware, and GUI software are needed.

- Standard HDSL line units: HDSL unit firmware Version 3.20
- Rate selectable HDSL units: HDSL unit firmware Version 4.00
- T1 line units: HDSL unit firmware Version 3.22
- SNMP GUI for HP OpenView for Windows:PGTMS/HGIS software Version 1.20

Compatibility with Previous Versions of SNMP MIBs

This version of EMU software (3.22.08) requires the current release of SNMP MIB files to support Rate Selectable line units. A new MIB item has been added to support Nx64k port configuration and a new MIB table to show all line units in a shelf.

The MIB files for EMU software Version 3.22.08 are identified in the following list. The MIB files should be compiled in the order listed.

- | | | |
|----------------|-------------------------------|-----------------------------------|
| • RFC1155.mib | - Standard MIB | Resident on SNMP software package |
| • pgmibhd.mib | - PairGain Common MIB | Release 1.1 Revision 05/21/97 |
| • pgetsi.mib | - PairGain ETSI Interface MIB | Release 1.6 Revision 01/05/99 |
| • pghdsl.mib | - PairGain HDSL MIB | Release 1.2 Revision 06/24/97 |
| • pgagtmib.mib | - PairGain SNMP Agent MIB | Release 1.1 Revision 05/21/97 |
| • pgetsitr.mib | - PairGain ETSI SNMP Trap MIB | Release 1.2 Revision 01/08/98 |

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

Upgrade Methods

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 Management Unit Software Upgrade Kit (part number 150-1491-01). This kit includes the following:

- EMU-830 Firmware Upgrade PROMs
- EMU-830 Technical Practice, 700-030-100-xx
- SNMP MIB Diskette
- HDSL Unit Firmware Diskette

From Version 2.xx or Later. EMU-830 management units running software Version 2.xx or later may be upgraded either by replacing the PROM chips (described above) or by performing a firmware download using a maintenance terminal or PC with a terminal emulation program. The Version 3.22.08 image file (muv32208.img) may be downloaded from the Customer Site portion of PairGain's Web page at <http://www.pairgain.com>. A password is required. If you do not have a password, contact your PairGain sales representative.

The "World Wide Web" section of the EMU-830 Technical Practice, Section 700-030-100-xx, describes how to perform the firmware download. This document can be downloaded from the Customer Site portion of PairGain's Web page at <http://www.pairgain.com>. A password is required. If you do not have a password, contact your PairGain sales representative.

SAFETY AND EMC COMPLIANCE

The use of EMU software Version 3.22.08 will not change the safety or EMC characteristics of the EMU-830 management unit.

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