



ComOS 3.8.2 Release Note for the PortMaster 3

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Introduction

The new Lucent Technologies ComOS® 3.8.2 software is now released for the PortMaster® 3 Integrated Access Server.

This release is provided at no charge to all Lucent customers. This release note documents commands and features added between ComOS 3.8 and ComOS 3.8.2 on the PortMaster 3, including improved modem support.

This release note applies only to the PortMaster 3.

ComOS 3.8.2 is the last release supporting the old "True Digital V.34 Cards." Starting with ComOS 3.9, only the "True Digital 56K Cards" will be supported.

Before upgrading thoroughly read "Upgrade Instructions."

Bugs Fixed in ComOS 3.8.2

The following bugs have been fixed in ComOS 3.8.2.

Improved Modem Support

- A timing problem with V.32 modems is fixed.
- A rate renegotiation and retrain issue with U.S. Robotics (USR) V.90 modems is fixed.
- A disconnect problem that occurs when V.90 falls back to V.34 is fixed.
- A timing problem with LT WinModems is fixed.
- A USR V.90 **No Connect** problem is fixed.
- A latency problem is fixed, improving ping times and reducing game latency.
- A V.34 renegotiation issue is fixed (including the upstream part of V.90 and K56flex).

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- An A-law rate renegotiation problem is fixed.
 - The LAPM retransmitter in V.90 is improved.

X.75 Large Frames

X.75 on the PortMaster 3 now supports 2048 octet packets. In previous releases, the PortMaster 3 crashed upon receiving a large X.75 information frame (I-frame).

Fractional E1 Channel Numbering

Fractional E1 channel numbering is now correct. In previous releases, the channel numbering was off by one. For example, you had to specify channel 2 for channel 1 when configuring a fractional E1 line.

Net5 Dial-Out When Inactive

When using the Net5 ISDN switch type, the PortMaster 3 now attempts to activate Layer 2 if it is inactive during a dial-out attempt. In previous releases, if a Net5 ISDN switch initiated a Layer 2 inactive state, the PortMaster 3 did not activate Layer 2 again before attempting an outbound call, and the call failed.

MFR2 Tones Conform to ITU Standards

Multifrequency R2 signaling (MFR2) tone timing used in Interregister signalling phase or R2 is now in conformance with the ITU standards for MFR2 tones. In previous releases, MFR2 tones were sent for a fixed length of time.

MFR2 Receive Threshold

New receive thresholds now determine the sensitivity of the MFR2 tone detector.

Microsoft Windows 95 and 98 Analog Multilink PPP Improved

Throughput on an analog Multilink PPP (MP) connection from a Microsoft Windows 95 or Windows 98 machine has been improved. In previous releases, throughput was very poor when you are using analog MultilinkPPP from a Microsoft Windows 95 or Windows 98 machine.

PMVision Password Backup

PMVision 1.3 can back up the RADIUS and ChoiceNet® secrets, and user table passwords from ComOS 3.8.2. The administrative password is not backed up.

Static Routes

Static routes are no longer overridden by OSPF routes.

Large Syslog Messages Handled Correctly

Memory is no longer overwritten by large **syslog** messages.

System Block Leak Fixed

The PortMaster 3 now discards malformed PPP packets containing only one byte of PPP data. In previous releases, receiving a malformed PPP packet that contained only one byte after escape characters were removed caused the PortMaster 3 to lose a system block.

Reset after Lastcall

In previous releases, a modem that entered the ADMIN state as a result of the use of the last call command required a **set MO off** and **set MO on** to return it to the READY state. In this release only a **set MO on** is required.

New Features in ComOS 3.8.2

No new commands or features have been added in ComOS 3.8.2.

Upgrade Instructions

You can upgrade your PortMaster 3 using PMVision 1.2, **pmupgrade 4.0** from PMTools, or using the older programs **pminstall** 3.5.3, PMconsole 3.5.3, or PMconsole for Windows 3.5.1.4, or later releases. You can also upgrade using TFTP with the **tftp get comos** command from the PortMaster command line interface.



Caution – If the upgrade fails, do not reboot! Contact Lucent Remote Access Technical Support without rebooting.

The upgrade process on the PortMaster 3 erases the configuration area from nonvolatile memory and saves the current configuration into nonvolatile memory.

Never interrupt the upgrade process, or loss of configuration information can result. This upgrade does not otherwise affect your stored configuration in the PortMaster 3.

The installation software can be retrieved by FTP from **ftp://ftp.livingston.com/pub/le/software/** and the upgrade image can be found at **ftp://ftp.livingston.com/pub/le/upgrades:**

ComOS	Upgrade Image	Product
_____	_____	_____
3.8.2	pm3_3.8.2	PortMaster 3

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Contacting Lucent Remote Access Technical Support

Lucent Technologies Remote Access Business Unit (previously Livingston Enterprises) provides technical support via voice, fax, electronic mail, or through the World Wide Web at **<http://www.livingston.com>**. Please specify that you are running ComOS 3.8.2 when reporting problems with this release.

Internet service providers (ISPs) and other end users in Europe, the Middle East, Africa, India, and Pakistan should contact their authorized Lucent Remote Access sales channel partner for technical support; see **<http://www.livingston.com/International/EMEA/distributors.html>**.

For North and South America and Asia Pacific customers, technical support is available Monday through Friday from 7 a.m. to 5 p.m. U.S. Pacific Time (GMT -8). Dial 1-800-458-9966 within the United States (including Alaska and Hawaii), Canada, and the Caribbean, or 1-925-737-2100 from elsewhere, for voice support. Otherwise, fax to 1-925-737-2110, or send email to **support@livingston.com** (**asia-support@livingston.com** for Asia Pacific customers).

