

PMTools 4.2 Release Note

April 30, 1999

The PMTools are a group of Java programs that supplement certain PMVision™ functions. You can incorporate these utilities into your suite of scripts for PortMaster® management. PMTools 4.2 is available to Lucent customers at no charge.

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About PMTools

pmbackup Backs up a PortMaster configuration to an ASCII file.

pmcommand Sends commands to a PortMaster.pmdial Dials a location on a PortMaster.

pmdumpfilter Saves the filters from a PortMaster to an ASCII file.

pmreset Resets a port on a PortMaster.

pmupgrade Upgrades the ComOS® on a PortMaster.

The following sections describe the options associated with each utility. For backwards compatibility you can omit the **-h** and **-p** before <Hostname> and <Password> if they are given as the first two arguments and the <Username> is **!root**.

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pmbackup

-h <Hostname> PortMaster address.

-p <Password> Password for the PortMaster.

-u <Username> Username for the PortMaster. The default is **!root**.

-version Displays the version and date.

-help Displays a list of options and a description of each.

-f <Filename> Name of the file to store the backup. If you do not specify a

file, the backup information is displayed on standard output.

-bgp Saves the BGP configuration. Requires ComOS 3.9 or later.

-choicenet Saves the ChoiceNet® configuration.-ethernets Saves the Ethernet configuration.

-filters Saves the filter table.

-global Saves the global configuration.

-hosts Saves the host table.

-lines Saves the line configurations.

-locations Saves the location table.

-maps Saves the network address translator (NAT) map table.

Requires ComOS 3.9 or later.

-ospf Saves the OSPF configuration.-ports Saves the port configurations.

-radius Saves the RADIUS configuration.

-snmp Saves the SNMP configuration.

-subinterfaces Saves the subinterface table.

-users Saves the user table.

pmcommand

-h <Hostname> PortMaster address.

-p <Password> Password for the PortMaster.

-u <Username> Username for the PortMaster. The default is **!root**.

-version Displays the build version and date.

-help Displays a list of options and a description of each.

-f <Filename> Name of a file with a list of commands to send to the

PortMaster.

-v When used with -f, displays verbose output to standard

output, echoing each command.

-nostop When used with **-f**, specifies that errors caused by a

command do not stop the other commands from being

carried out.

-noreboot When used with **-f**, instructs **pmcommand** to ignore any

reboot commands. Setting this option might cause some

commands to fail.

-prompt When used with **-f**, instructs **pmcommand** to prompt you

when it encounters a **reboot** command.

<Command> A single command to be sent to the PortMaster. If you are

running from Microsoft Windows, you must enclose the

command in quotation marks.

If you do not specify a file or command, **pmcommand** enters interactive mode, allowing you to type commands at a prompt.

pmdial

-h <Hostname> PortMaster address.

-p <Password> Password for the PortMaster.

-u <Username> Username for the PortMaster. The default is **!root.**

-version Displays the build version and date.

-help Displays a list of options and a description of each.

-t <Minutes> Idle timeout for the current session.

-x Displays the dial debug messages.

-f <Filename> Specifies a file of locations.<Location> Name of the location to dial.

pmdial now returns a dial status: **0** indicates that the location was dialed successfully, and **-1** means that the dial failed.

pmreset

-h <Hostname> PortMaster address.

-p <Password> Password for the PortMaster.

-u <Username> Username for the PortMaster. The default is **!root**.

-version Displays the build version and date.

-help Displays a list of options and a description of each.

-slot Specifies a slot number in a PortMaster 4.

"<Ports>" Ports to reset. A single port can be specified ("s1"), a

comma-separated list can be specified ("s1,s2"), a range can be specified ("s1-s4"), or any combination ("s1,s4,s8-s12").

pmupgrade

-h <Hostname> PortMaster address.

-p <Password> Password for the PortMaster.

Username for the PortMaster. The default is !root. -u <Username>

-version Displays the build version and date.

Displays a list of options and a description of each. -help Reboots the PortMaster after a successful upgrade. -r -f <Filename> ComOS image file to be used for the upgrade.

-at Date and time at which you want the PortMaster to be "<Mon>/<Day> upgraded. Enclose the entire date and time in quotation

marks. Enter this option last if you include it. /<Year><Hour>:

<Min>AM|PM"

Bugs Fixed

The following bugs are fixed in PMTools 4.2:

- The saving of BGP peers has been fixed. The **add** command now correctly replaces set.
- The **-boards** option of PMBackup has been removed. To save a board-specific configuration, use a combination of other flags. For example, to save the line and global information of your line boards, you use the **-global** and **-lines** flags

Limitations

PMTools 4.2 have the following known limitations:

- pmdial does not work with ComOS 4.0 or later because the idle timeout flag and some error messages are incompatible.
- pmbackup puts the set isdn-msn off command in the backup file. The command produces an error on the PortMaster 3 and PortMaster 4 that causes **pmcommand** to stop running. Use the **-nostop** flag with **pmcommand** to prevent this problem, or delete the command from the file.
- If you use **pmbackup** on a PortMaster running ComOS 3.7.2 or earlier, it incorrectly generates the following backup commands, which cause errors when the backup file is sent to a PortMaster:

set call-check off set arp-proxy enable set reported-ip 0.0.0.0 set C0 dtr idle on

The errors do not affect the rest of the commands or the PortMaster and can be ignored.

• If you are running **pmcommand**, you cannot use the version option when sending commands to a PortMaster.

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- If you are running pmcommand on a Microsoft Windows system, you must enclose any multiword command in double quotation marks—for example, show table locations.
- If you are running pmupgrade on a Windows system, the -at flag must have the time enclosed in double quotation marks—for example, -at "4/30/98 10:00 AM".

System Requirements

The PMTools are Java-based products that run on any system with Java Development Kit (JDK) or Java Runtime Environment (JRE) 1.1.6 or later installed. Nondevelopers can use the JRE rather than the JDK. Currently, JDK 1.1 and JRE 1.1 are available on the following platforms:

Windows NT 4.0	http://www.javasoft.com/products/jdk/1.1/
Windows 95	http://www.javasoft.com/products/jdk/1.1/
Solaris 2.5.1	http://www.javasoft.com/products/jdk/1.1/
Solaris x86 2.5.1	http://www.javasoft.com/products/jdk/1.1/
Linux 2.x	ftp://lagrange.la.asu.edu/pub/Linux_jdk/
FreeBSD	http://www.freebsd.org/java/
SGI IRIX 6.3	http://www.sgi.com/developers/devtools
HP-UX 10.02	http://www.hp.com/esy/go/java.html
Digital Alpha UNIX 4.0	http://www.digital.com/java/download/
IBM AIX 4.1	http://www.ibm.com/java/tools/jdk.html
Other Platforms	http://java.sun.com/cgi-bin/java-ports.cgi

Installation

1. Download files from **ftp.livingston.com** as follows:

ftp ftp.livingston.com (Enter anonymous.) (Enter your email address; it will not echo.) binary cd pub/le/software/java

- For Solaris (other than x86), enter get pmtools42_solaris.tar
- For other UNIX systems, enter get pmtools42_unix.tar
- For Windows, enter get pmtools42.zip

quit

2. For UNIX systems only, define the path for **jre/bin in** your **.cshrc** file. For example, if you install the JRE in the **/usr/local/lib** directory, your **.cshrc** file must have the following entry:

set path=(/usr/local/lib/jre/bin \$path)

If the JDK is installed, change the **pmtools** scripts to use the **java** command instead of **jre**.

3. Run the installation.

For Solaris, enter the following command:

tar xvf pmtools43_solaris.tar ./pmtools_install.bin

For other UNIX systems, enter the following commands. You can replace /usr/local/lucent with any directory, which you should then add to your path.

mkdir </usr/local/lucent> mkdir </usr/local/lucent>/pmtools mv pmtools41_unix.tar </usr/local/lucent>/pmtools cd </usr/local/lucent>/pmtools tar xvf pmtools41_unix.tar rm pmtools41_unix.tar ./setbits # This command sets the executable bits on the shell scripts.

For Windows, unzip the **pmtools41.zip** file, run the **pmtools_install.exe** program, and follow its instructions.

Deinstallation

On a Solaris or Windows system, an application called **Uninstall_PMTools** is placed in the Lucent/PMTools directory. Run this application to remove PMTools from your system.

On other UNIX systems, remove the shell scripts and **jar** files to remove PMTools from your system.

Running the PMTools

For all platforms, to refer to the tools from outside their installation directory, edit the scripts and insert the full path to the **jar** file. For example:

jre -cp /usr/local/lucent/pmtools/pmtools.jar \ -cp /usr/local/lucent/pmtools/oromatcher.jar PMCommand \$*

For UNIX systems (including Solaris), the installation creates a set of shell script files to run the PMTools. Use these shell scripts to run the different applications of PMTools.

For Windows users, the installation creates a set of batch files to run the PMTools. If you reference these batch files in any other scripts, make sure that you use the **CALL** command. For example, the following command calls the file **version.bat**:

CALL pmcommand -h Hostname -p Password "version"

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Note – If you are using a ChoiceNet server, make sure to increase the maximum number of **pmconsole** ports to at least **2** and preferably **10** with the **set maximum pmconsole** command. PMVision uses this port for communication, and if only one port is available then ChoiceNet cannot send filters to the PortMaster. To increase the number of **pmconsole** ports, log in to your PortMaster through the console or a Telnet session and type the following command:

set maximum pmconsole 10

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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/. Mention that you are running PMTools 4.2, and include the version of JDK or JRE that you are running, the operating system version (username -a output), and the version of ComOS on the PortMaster.

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).