

Quick Installation Guide for MPT-MNG Server

Table of contents:

1. Introduction
2. System Requirements
3. Topologies & Configurations
4. Pre-Installation Preparations
5. Operating System Installation
6. MPT-MNG Installation
7. Additional Commands
8. Security and Software updates
9. Contact Information

1.

Introduction:

Thank you for purchasing the MPT-MNG product by Mpthrill.com Software Industries
The MPT-MNG is a Complete management software with an advanced QoS manager
provides full control over assigned bandwidths for Cable modems.

Compatible with:

Motorola CMTS DCM-2000, BSR64000 / Cisco UBR / Nortel CMTS (DOCSIS 1.0, 1.1, 2.0)

Features:

- Subscriber Access Control for authorizing and authenticating subscriber access
- Subscriber Management lets operators easily modify subscriber database
- Subscriber registration, and service provisioning
- Cable Modem Termination System (CMTS) Configuration gives operators full control over CMTS CATV and LAN interface parameters

2.

System Requirements:

Hardware Specs

The MPT-MNG must be a dedicated machine.

CPU:

The MPT-MNG's CPU requirements are based on the actual bandwidth of your internet connection

- For managing bandwidth up to 10MB, use a Pentium-3 600MHZ or higher
- For managing bandwidth up to 100MB, use a Pentium-3 1.3GHZ or higher
- For managing bandwidth up to 200MB, use a Dual Pentium-3 1.3GHZ or higher

Memory:

The MPT-MNG's memory requirements are based on the number of public IP addresses used.

- For managing up to 256 public IP addresses, use 256MB

- For managing up to 32K public IP addresses (Half class B), use 512MB
- For managing up to 64K public IP addresses (Class B), use 1GB

Hard Drive:

- Disk Space - 20GB

Network:

- 2 Ethernet ports

3.

Topologies & Configurations:

Configuration:

Administrator could build speed packages using the software, Administrator could provision Internal IP's to the users and use NAT to get them browsing the web, or route Internet IP addresses directly to the Modems / CPE.

Most CMTS use 2 fast Ethernet 10/100 ports and Layer 3 routing capabilities, Administrator can connect a Cisco / Other router to his ports using static routes.

Example#1:

Administrator have a T1 (E1) line with IP address connected to a NAT router Simply connect the CMTS to the same switch and get the users / modems browse after the modem is up, no connection is even needed from the customer's side, Always on. The authentication on this case will be made by defining the MAC address of the Modem in the MPT-MNG system.

Example#2:

Administrator could use Windows 2000 RAS for authentication and use PPTP / L2TP connections from the users. The customer define a VPN dialer on his workstation and has a USER + PASS.

4.

Pre-Installation Preparations:

Preparing the CD:

Burn the content of the directory including the directory "Ver6" (Case sensitive) into a CD.

You should end up with a burned CD that has a "Ver6" directory with the four files

libmpt
mptmng.tar.gz.cpt
install.x
install.gui.x

5.

Operating System Installation:

Linux OS:

Installing RedHat Linux 7.3 for MPT-Management System.

You should accept all options by default and follow the further steps below.

Partition

At least 4GB in "/" and 4GB in /usr partition + 400-600 MB for swap

Type of install (Server)

From the General packages selection you should choose

Classic X Window system (default)

KDE

Web Server

Select packages individually

Select from packages menu

Application

Internet

mrtg (default)

tftp

tcpdump

Development

System

kernel source

System environment

Daemons

dhcp

tftp-server

tux (DELETE \ UNCHECK)

squid (DELETE \ UNCHECK)

ucd-snmp (default)

*Notes:

MPT-MNG's Install Binary file will auto-configure the ToD, DHCP, TFTP, Syslog and QoS services.

6.

MPT-MNG Installation:

Installing the system...

mount the CD drive using command
mount /dev/cdrom or mount /dev/cdrom /mnt/cdrom
CD into the directory called "Ver6"

cd /mnt/cdrom/Ver6
and execute the install procedure binary.

For text mode install:

./install.x

For GUI mode install:

./install.gui.x

(GUI install requires the "dialog" Package/RPM installed)

Follow from there using the interactive help menus.

7.

Additional Commands:

Open a COM / Terminal / Terminal emulation / SSH to the MPT-MNG machine.

running the script:

"/usr/sbin/mptmngs.sh" - Verify that all services are activated and working

Important linux commands:

"netstat -a" - Check what TCP/UDP ports currently open and listening to a connection.

"reboot" - Restart the MPT-MNG Machine.

"ps -auxef" - Check which services are running.

"ping, traceroute" - Network utilities.

"tcpdump" "tcpdump -vvv" - Network sniffer (Analyzer) for network problems debug.

"man \$" - Where \$ is the command Administrator wish to learn more about.

For more information regarding Linux commands please refer to:

<http://www.tldp.org/>

8.

Security and Software updates:

It is highly important to secure service that Administrator is using for the MPT-MNG At Mpthrill.com Software we try to maintain a very high level when it comes to Security and deliver the products and service fully patched and last updated on each version.

Check for software updates at:

sales@mpthrill.com

RedHat:

<http://www.redhat.com/apps/support/errata/>

DHCP:

<http://www.isc.org/>

General:

<http://www.securiteam.com/>

9.

Contact Information:

Let us know if you encounter any problem / bug

for UNIX/Linux related issues:

systemunix@mpthrill.com

Online HelpDesk System:
<http://www.mpthrill.com/helpdesk/>

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