

Read Me Doc

If your network meets any of the following criteria be sure to note the special instructions for each item later in this document:

- Network Composer will be connecting directly to a device to which the Ethernet speeds and connections are **hard-set (not auto-negotiate)**
- You have a current **proxy server** that needs to communicate with the Network Composer.
- Your network uses **Remote Subnets** that you wish to monitor and shape that will also pass through the Network Composer.
- There are additional routers downline from the Network Composer that require **Static Routes**.
- You have dedicated servers or equipment that require direct access to the internet that will need to be configured in the **Filter Bypass IP's**.

SECURITY NOTE on Telnet Access:

Telnet access on public networks is routinely disabled for security reasons. If your system has a public IP Address, and can be accessed from a remote external connection, Cymphonix strongly recommends you disable telnet access on the Network Composer to ensure that no unauthorized telnet access is possible. This is configurable from the menu via **Tools & Settings | Settings | Advanced | Telnet Access**. In these scenarios we recommend the use of SSH for remote access and/or a serial connection such as HyperTerminal which requires local access to the system itself.

IP Interface – Telnet/SSH

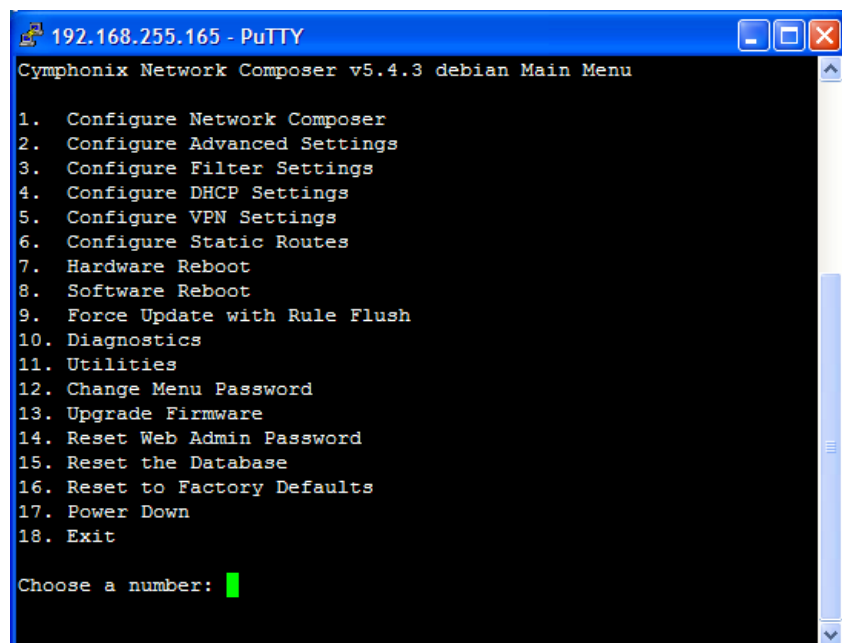
You can configure Network Composer using the command line interface through a Telnet or SSH interface.

Connect to Network Composer using the default IP Address

192.168.1.80

The menu login screen will appear.
Default login: **menu**
Default password: **cymphonix**

This will bring up the Network Composer Main Menu:



```
192.168.255.165 - PuTTY
Cymphonix Network Composer v5.4.3 debian Main Menu
1.  Configure Network Composer
2.  Configure Advanced Settings
3.  Configure Filter Settings
4.  Configure DHCP Settings
5.  Configure VPN Settings
6.  Configure Static Routes
7.  Hardware Reboot
8.  Software Reboot
9.  Force Update with Rule Flush
10. Diagnostics
11. Utilities
12. Change Menu Password
13. Upgrade Firmware
14. Reset Web Admin Password
15. Reset the Database
16. Reset to Factory Defaults
17. Power Down
18. Exit

Choose a number: █
```

Serial (direct to unit) – HyperTerminal

Using the serial management port you will not have to modify the IP Connections on a local workstation in order to configure the system, though this option does require local access to the system.

Using the null modem cable provided in the box attach the serial port on your local computer to the 9-pin management port on the Network Composer unit. You will need a serial terminal application (such as HyperTerminal if you are using a Microsoft Windows equipped PC). The serial management port connectivity parameters are:

- Bits per second: 38,400
- Data bits: 8
- Parity: None
- Stop bit: 1
- Flow Control: Hardware

If the login prompt does not appear try pressing Enter to start your session.

Default login: **menu** (all lowercase)

Default password: **cymphonix** (all lowercase)

NOTE for PIX/Catalyst switch users: If you are using a PIX router/firewall you must use a cross-over cable between the router and the Internet port of the Network Composer.

Hard Setting Ethernet Speeds - Cisco PIX firewalls & Catalyst Switches

If you are using a Cisco PIX Firewall and/or Catalyst Managed Switch and your port settings are hard set it will be necessary to hard set the Link Speed & Duplex settings on the Network Composer as well to prevent any possible communication issues that might occur if the device is left in auto-negotiate mode.

To hard-set Network Composer Ethernet Speeds, login to the command line menu (Telnet/SSH/Serial) and choose the option for "Diagnostics" and then the option for "Configure Ethernet Speed/Duplex."

Be sure to hard set both Network Composer and the connecting devices to avoid communication issues.

Proxy Server Users

If you are using a Proxy Server and did not configure it as part of the Setup Wizard users may have trouble accessing the internet if you do not configure the Network Composer to work with the Proxy. To do so, follow these steps in the web interface:

Click on **Tools & Settings**

Go to **Settings** and click on **Filter**

At the bottom of the screen are the **Parent Proxy IP** and **Parent Proxy Port** fields, add

your Proxy Server information here and confirm the changes.

Then click on **Tools & Settings**

Go to **Network** and click on **Customize Signatures**

Here you will want to add your proxy server port under the HTTP / HTTPS field.

If you are using the Command Line interface the Proxy Settings can be configured from the menu option for Filter Settings off the main menu.

The Network Composer does not pass along the encrypted authentication information for the proxy server. Any authentication information intended for the proxy server simply authenticates the Network Composer.

Additional Networking Configurations and Concerns

If your network uses a routed topology you will need to confirm that you have added any necessary static routes that need to be supported. These can be configured through the web interface using **Tools & Settings | Network | Static Routes**

The Network Composer is only designed to monitor its native subnet. However, you can add additional subnets to the configuration to allow for monitoring and shaping as long as the subnet traffic passes through your Network Composer. These can be configured through the web interface using **Tools & Settings | Network | Remote Subnets**

If you have internal servers that require direct access to the internet or internal servers (such as web servers) that you would prefer not be filtered you can configure this by adding them to the Filter Bypass IP's. These can be configured through the web interface using **Tools & Settings | Network | Filter Bypass IP's**

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