

# SEI Fiber to the Home (FTTH) Technical Support

## Comtrend NL-3120 Router Topics

[Configuring Pinholes/Port Forwarding](#)  
[Enabling WIFI \(wireless\)](#)

### Configuring Pinholes/Port Forwarding

- 1) From a web browser, go to "http://192.168.1.1". Login with the username "admin" and the password "admin".  
**If you get an incorrect login error, please try username "admin" and the password "seiadmin".**
- 2) Click the "Basic Setup" link on the top menu bar.

**COMTREND**

Device Info    Basic Setup    Advanced Setup    Diagnostics    Management    Logout

Summary  
WAN  
Statistics  
Route  
ARP  
DHCP  
NAT Session  
IGMP Info  
IPv6  
CPU & Memory  
Network Map  
Wireless  
Topology

Device	
Model	NexusLink 3120
Board ID	63138MB-1851AC
Serial Number	2143120UAXF-AN000235
Firmware Version	PJ11-416SEI-C16_R02_1.A2pvfbH046x.d27j
Bootloader (CFE) Version	1.0.38-118.8-14
Up Time	9 mins:18 secs
Date/Time	Thu Jan 1 00:09:18 1970

LAN	
LAN IPv4 Address	192.168.1.1
LAN Subnet Mask	255.255.255.0
LAN MAC Address	1c:64:99:e1:22
DHCP Server	Enabled

Wireless	
2.4GHz Interface	
Driver Version	7.14.164.20.cpe4.16L05.0-kdb

LAN: ETH1, ETH2, ETH3

WAN: 1000FD Auto-negotiation

- 3) Click on the "NAT" link on the left.

**COMTREND**

Device Info   **Basic Setup**   Advanced Setup   Diagnostics   Management   Logout

WAN Setup  
**NAT**  
LAN  
Wireless  
Parental Control  
Home Networking

**LAN**

ETH1   ETH2   ETH3   ETH4

LAN IPv4 Address	192.168.1.1
LAN Subnet Mask	255.255.255.0
LAN MAC Address	1c:64:99:e1:22:75
DHCP Server	Enabled

**Wireless**

2.4GHz Interface	
Driver Version	7.14.164.20.cpe4.16L05.0-kdb
Primary SSID	Comtrend2275_2.4GHz

**WAN**

1000FD  
Auto-negotiation

DSL 1 Status	Down
Traffic Type	Inactive
Upstream Rate (Kbps)	0
Downstream Rate (Kbps)	0
DSL 2 Status	Down
Traffic Type	Inactive
Upstream Rate (Kbps)	0
Downstream Rate (Kbps)	0

4) Click on the "Add" button.

**COMTREND**

Device Info   **Basic Setup**   Advanced Setup   Diagnostics   Management   Logout

WAN Setup  
**NAT**  
**Virtual Servers**  
Port Triggering  
DMZ Host  
IP Address Map  
ALG/Pass-Through  
LAN  
Wireless  
Parental Control  
Home Networking

**NAT -- Virtual Servers Setup**

Virtual Server allows you to direct incoming traffic from WAN side (identified by Protocol and External port) to the Internal server with private IP address on the LAN side. The Internal port is required only if the external port needs to be converted to a different port number used by the server on the LAN side. A maximum 32 entries can be configured.

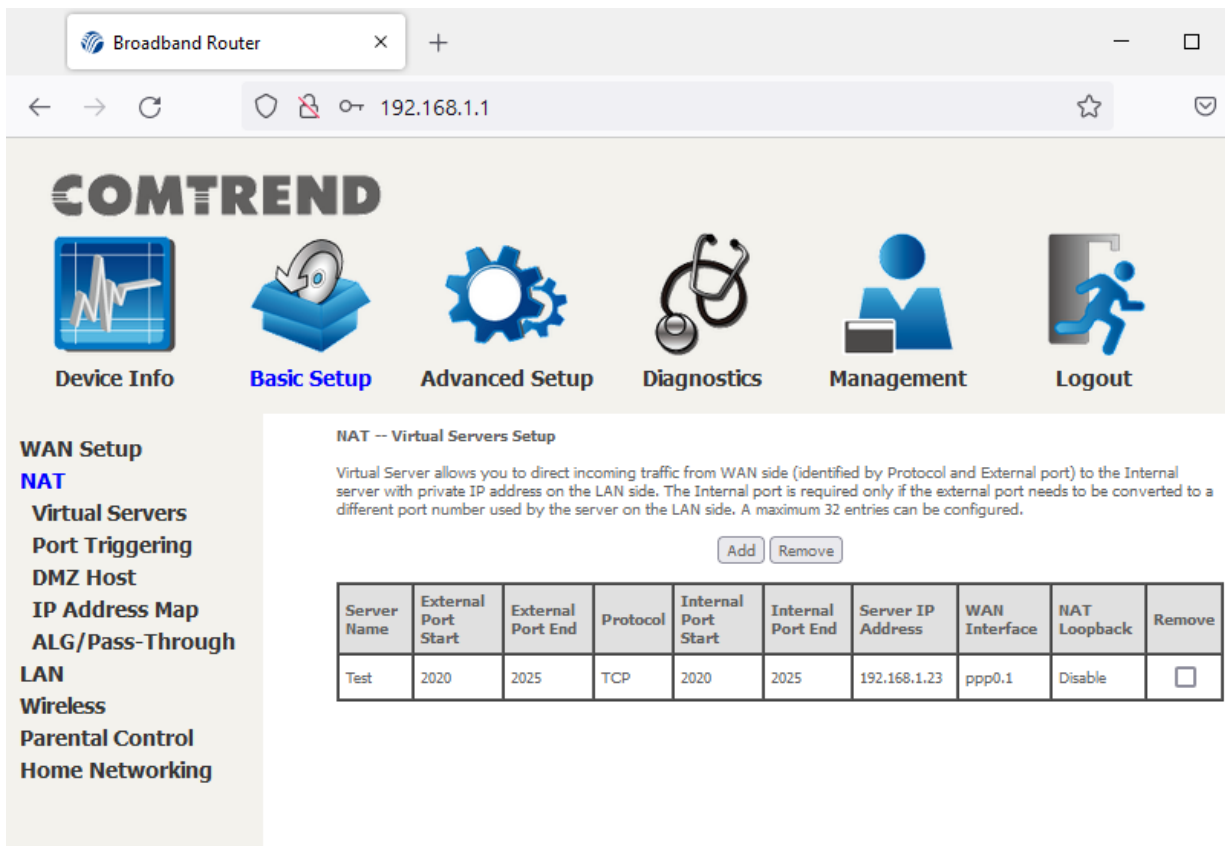
[Add](#)   [Remove](#)

Server Name	External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End	Server IP Address	WAN Interface	NAT Loopback	Remove

5) Check if the setup you need is in the pre-configured list under "Select a Service".

6) If not, create your own. As an example, here we are adding a Test service that will forward traffic going from the internet to the router on ports 2020-2025 to a device on the network with the IP address of 192.168.1.23 on port 22. Once you have added your desired port forwards, click "Apply/Save" at the bottom of the page.

7) You are now done.



[Back to the Top](#)

## Configuring WIFI/Wireless

You have your choice of one of two ways to enable the wireless access point in your SEI provided Comtrend NL-3120:

- A) Easy way by pressing a button and using preset defaults.
- B) Personalized approach (you can set your own SSID & security).

### **Easy setup:**

1) On the front of your router, there are two small round buttons labeled 2.4GHz WIFI ON/OFF & WPS and 5GHz WIFI ON/OFF & WPS. Press and hold the 2.4GHz button for approximately 20 seconds and release. Within a few seconds, the 2.4GHz WIFI LED will turn on. Repeat the same process for the 5GHz WIFI if needed.

2) On your WIFI capable devices, you will then connect to the SSID "ComtrendXXXX\_2.4GHz" or "ComtrendXXXX\_5GHz" where XXXX are the last 4 characters (in capital letters) of your modem's MAC address. There is a sticker on the bottom of your modem with this MAC address.

3) Security is enabled by default using WPA2. The WPA2 encryption key/passphrase is located on the bottom of the router under WIFI Key. Please note that the WIFI Key is case sensitive.

### **Personalized setup:**

- 1) From a web browser, go to "http://192.168.1.1". Login with the username "admin" and the password "admin".
- 2) Click the Basic Setup link on the top menu bar.

**COMTREND**

Device Info   **Basic Setup**   Advanced Setup   Diagnostics   Management   Logout

WAN Setup  
NAT  
LAN  
**Wireless**  
Parental Control  
Home Networking

**LAN**

ETH1	ETH2	ETH3	ETH4
LAN IPv4 Address	192.168.1.1		
LAN Subnet Mask	255.255.255.0		
LAN MAC Address	1c:64:99:e1:22:75		
DHCP Server	Enabled		

**Wireless**

2.4GHz Interface	
Driver Version	7.14.164.20.cpe4.16L05.0-kdb
Primary SSID	Comtrend2275_2.4GHz

Auto-negotiation	
DSL 1 Status	Down
Traffic Type	Inactive
Upstream Rate (Kbps)	0
Downstream Rate (Kbps)	0
DSL 2 Status	Down
Traffic Type	Inactive
Upstream Rate (Kbps)	0
Downstream Rate (Kbps)	0

3) Click on "Wireless" on the left side. Check mark "Enable Wireless", and change the "SSID" if you wish, then click "Apply/Save". (By default, wireless is disabled but the SSID is ComtrendXXXX\_2.4GHz, where XXXX are replaced with the last 4 characters of your routers MAC address).

**COMTREND**

Device Info   Basic Setup   Advanced Setup   Diagnostics   Management   Logout

WAN Setup  
NAT  
LAN  
**Wireless**  
2.4GHz  
5GHz  
Parental Control  
Home Networking

Wireless -- Basic

This page allows you to configure basic features of the wireless LAN interface. You can enable or disable the wireless LAN interface, hide the network from active scans, set the wireless network name (also known as SSID) and restrict the channel set based on country requirements. Click "Apply/Save" to configure the basic wireless options.

- Enable Wireless
- Hide Access Point
- Clients Isolation
- L2 Isolation
- Disable WMM Advertise
- Enable Wireless Multicast Forwarding (WMP)
- Enable WiFi Button
- Enable Room AP Function

RSSI range from:  dB to  dB

SSID:

BSSID:

Country:

Max Clients:

Wireless - Guest/Virtual Access Points:

Enabled	SSID	Hidden	Isolate Clients	L2 Isolation	Disable WMM Advertise	Enable HSPOT	Max Clients	BSSID
<input type="checkbox"/>	wld_Guest1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32	N/A

4) Click on 2.4GHz and then the "Security" links on the left. You can change your encryption passphrase/key here, or you can view the current one as well. If you change it, be sure to click the "Apply/Save" button. The default

passphrase/key is on the sticker located on the bottom of the router labeled WIFI Key. Please note that this key is case sensitive.

The screenshot shows the 'Wireless Security' configuration page of a router. The page is organized into several sections:

- Navigation:** Device Info, Basic Setup, Advanced Setup, Diagnostics, Management, Logout.
- Left Sidebar:** WAN Setup, NAT, LAN, Wireless (2.4GHz, Basic, Security, 5GHz), Parental Control, Home Networking.
- Wireless - Security:**
  - Introduction: This page allows you to configure security features of the wireless LAN interface. You may setup configuration manually OR through WiFi Protected Setup(WPS). Note: When both STA PIN and Authorized MAC are empty, PBC is used. If Hide Access Point enabled or Mac filter list is empty with "allow" chosen, WPS will be disabled.
  - WPS Setup:**
    - Enable WPS: Enabled
    - Add Client: (This feature is only available for WPA2-PSK mode or OPEN mode with WEP disabled). Options: Use STA PIN (selected), Use AP PIN. Includes an 'Add Enroll' button.
    - Set Authorized Station MAC: [Empty field] with a 'Help' link.
    - Set WPS AP Mode: Configured
    - Setup AP: (Configure all security settings with an external registrar)
    - Lock Device PIN: Enable
    - Device PIN: 10970119 with a 'Help' link.
  - Manual Setup AP:**
    - Introduction: You can set the network authentication method, selecting data encryption, specify whether a network key is required to authenticate to this wireless network and specify the encryption strength. Click "Apply/Save" when done.
    - Select SSID: Comtrend2275\_2.4GHz
    - Network Authentication: WPA2 -PSK
    - Protected Management Frames: Disabled
    - WPA/WAPI Passphrase: [Redacted] with a 'Click here to display' link.
    - WPA Group Rekey Interval: 3600
    - WPA/WAPI Encryption: AES
    - WEP Encryption: Disabled
- Buttons:** 'Apply/Save' at the bottom.

5) Click on the "Apply/Save" button. 2.4GHz wireless access is now enabled.

6) To enable 5GHz WIFI, click the 5GHz link on the left and select "Enable Wireless" and then "Apply/Save" at the bottom of the page. The default SSID is ComtrendXXXX\_5GHz (where XXXX is the last 4 digits of the router's MAC, located on the bottom of the router).



Device Info **Basic Setup** Advanced Setup Diagnostics Management Logout

WAN Setup  
NAT  
LAN  
Wireless  
2.4GHz  
5GHz  
Basic  
Security  
Parental Control  
Home Networking

Wireless – Basic

This page allows you to configure basic features of the wireless LAN interface. You can enable or disable the wireless LAN interface, hide the network from active scans, set the wireless network name (also known as SSID). Click "Apply/Save" to configure the basic wireless options.

Version: A.3746247.CTU.C17

Enable Wireless  
 Hide Access Point  
 Clients Isolation  
 L2 Isolation  
 Enable Wireless Multicast Forwarding (WMF)  
 Enable WiFi Button  
 Enable Room AP Function

RSSI Range from  dB to  dB

SSID:   
 BSSID: 1C:64:99:E1:22:74  
 Country: UNITED STATES  
 Priority:

Wireless - Guest/Virtual Access Points:

Enabled	SSID	Hidden	Isolate Clients	L2 Isolation	BSSID	Priority
<input type="checkbox"/>	<input type="text" value="Guest1"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="text" value="0"/>
<input type="checkbox"/>	<input type="text" value="Guest2"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="text" value="0"/>
<input type="checkbox"/>	<input type="text" value="Guest3"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="text" value="0"/>

7) Click on 5GHz and then the "Security" links on the left. You can change your encryption passphrase/key here, or you can view the current one as well. If you change it, be sure to click the "Apply/Save" button. The default passphrase/key is on the sticker located on the bottom of the router labeled WIFI Key. Please note that this key is case sensitive.

Device Info **Basic Setup** Advanced Setup Diagnostics Management Logout

WAN Setup  
NAT  
LAN  
Wireless  
2.4GHz  
5GHz  
Basic  
Security  
Parental Control  
Home Networking

Wireless – WPS Setup

This page allows you to configure WPS features of the wireless LAN interface.

Enable WPS:   
 Set WPS AP Mode:   
 Add Client: Push-Button   
 Enter STA PIN:

Setup AP (Configure all security settings with an external registrar)

Device PIN:  [Help](#)

Manual Setup AP

You can set the network authentication method, selecting data encryption, specify whether a network key is required to authenticate to this wireless network and specify the encryption strength. Click "Apply/Save" when done.

Select SSID:   
 Encryption:   
 Passphrase:  [Click here to display](#)

[Back to the Top](#)

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