

Comtrend AR-5381U Router Topics

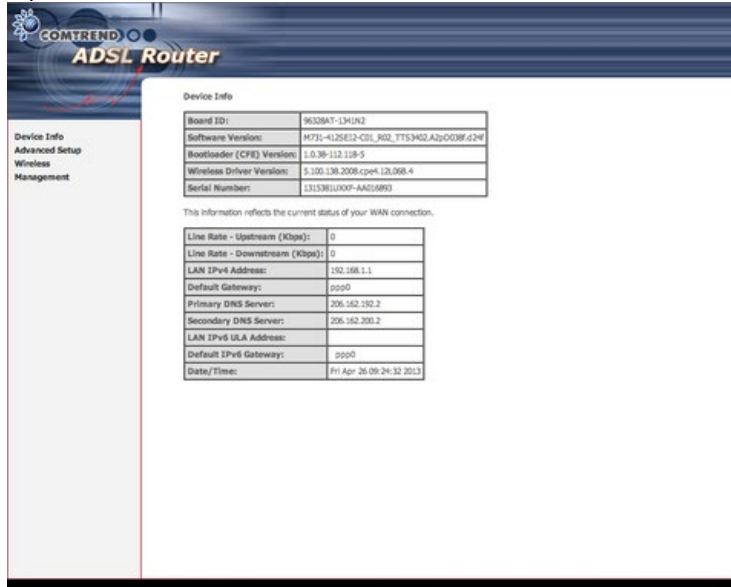
How to configure the Comtrend AR-5381U Router

Configuring Pinholes/Port Forwarding

Enabling WIFI (wireless)

Configuring the Comtrend AR-5381U Router

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



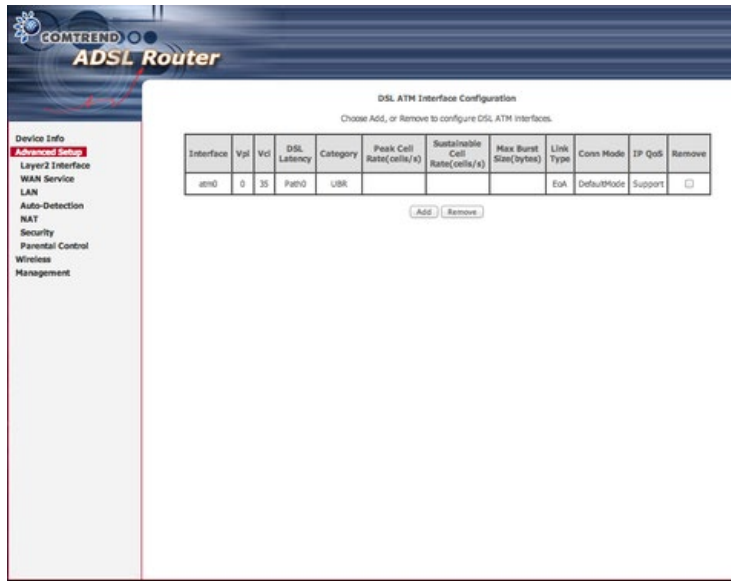
The screenshot shows the Comtrend AR-5381U Router web interface. The left sidebar contains a menu with the following items: Device Info, Advanced Setup, Wireless, and Management. The "Advanced Setup" item is highlighted. The main content area displays the "Device Info" page, which includes a table of device specifications and a table of WAN connection status.

Device Info	
Board ID:	9028AT-131UN2
Software Version:	M71-4125E12-C01_R02_TTS3M2.A2p00W.d2W
Bootloader (CFM) Version:	1.0.39-112.119-5
Wireless Driver Version:	5.100.136.2006.cpe4.12.000.4
Serial Number:	1315361100P-AA206W3

This information reflects the current status of your WAN connection.

Line Rate - Upstream (Kbps):	0
Line Rate - Downstream (Kbps):	0
LAN IPv4 Address:	192.168.1.1
Default Gateway:	ppp0
Primary DNS Server:	206.162.192.2
Secondary DNS Server:	206.162.200.2
LAN IPv6 ULA Address:	
Default IPv6 Gateway:	ppp0
Date/Time:	Fri Apr 26 09:24:32 2013

- 3) Click on the "WAN Service" link on the left.



The screenshot shows the Comtrend AR-5381U Router web interface. The left sidebar contains a menu with the following items: Device Info, Advanced Setup, Layer2 Interface, WAN Service, LAN, Auto-Detection, NAT, Security, Parental Control, Wireless, and Management. The "WAN Service" item is highlighted. The main content area displays the "DSL ATM Interface Configuration" page, which includes a table of DSL ATM interfaces and a set of "Add" and "Remove" buttons.

DSL ATM Interface Configuration
Choose Add, or Remove to configure DSL ATM Interfaces.

Interface	Vpi	Vci	DSL Latency	Category	Peak Cell Rate(cells/s)	Sustainable Cell Rate(cells/s)	Max Burst Size(bytes)	Link Type	Conn Mode	IP QoS	Remove
atm0	0	35	Path0	USB				EoA	DefaultMode	Support	<input type="checkbox"/>

4) Click on the "Edit" button on the row beginning with "ppp0".

 Disable Enable'. There is a table with columns: Interface, Description, Type, VlanID2ip, VlanMaxId, Igmp, NAT, Firewall, IPv6, Mld, Remove, and Edit. The table contains two rows: 'ppp1' with description 'pppoe_0_0_35' and 'ppp0' with description 'pppoe_004'. Both rows have 'Type' as 'PPPoE', 'VlanID2ip' as 'N/A', 'VlanMaxId' as 'N/A', 'Igmp' as 'Disabled', 'NAT' as 'Enabled', 'Firewall' as 'Enabled', 'IPv6' as 'Disabled', and 'Mld' as 'Disabled'. The 'Remove' column has a checkbox and the 'Edit' column has a button labeled 'Edit...'. Below the table are 'Add' and 'Remove' buttons."/>

Interface	Description	Type	VlanID2ip	VlanMaxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
ppp1	pppoe_0_0_35	PPPoE	N/A	N/A	Disabled	Enabled	Enabled	Disabled	Disabled	<input type="checkbox"/>	Edit...
ppp0	pppoe_004	PPPoE	N/A	N/A	Disabled	Enabled	Enabled	Enabled	Disabled	<input type="checkbox"/>	Edit...

5) Now just change the "PPP Username" field to your SEI Data provided username, change the "PPP Password" to the username's corresponding password, then click "Next".

PPP Username: ppp-default
PPP Password: *****
PPPoE Service Name:
Authentication Method: AUTO

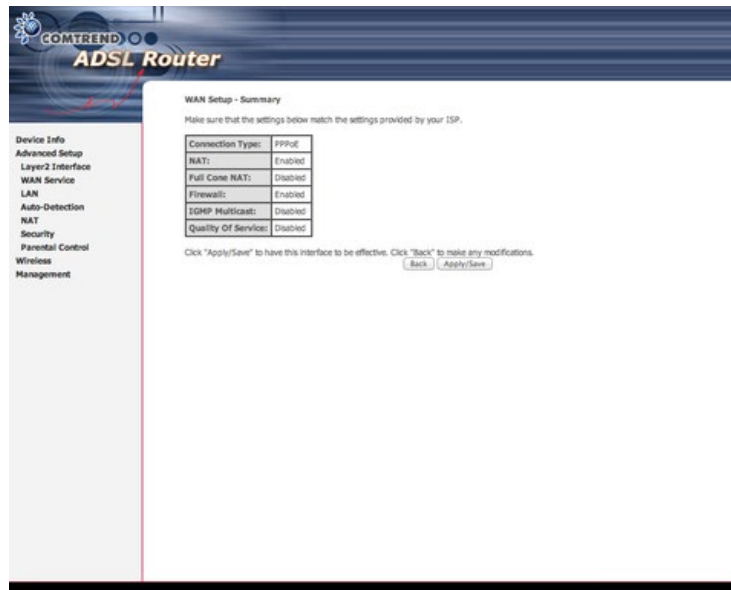
Enable Fullcone NAT
 Dial on demand (with idle timeout timer)
 PPP IP extension
 Enable NAT
 Enable Firewall
 Use Static IPv4 Address

Fixed MTU
MTU: 1482
 Enable PPP Debug Mode
 Bridge PPPoE Frames Between WAN and Local Ports

Multicast Proxy
 Enable IGMP Multicast Proxy
 No Multicast VLAN Filter

WAN interface with base MAC.
Notice: Only one WAN interface can be cloned to base MAC address.
 Enable WAN interface with base MAC

6) Click "Apply/Save".

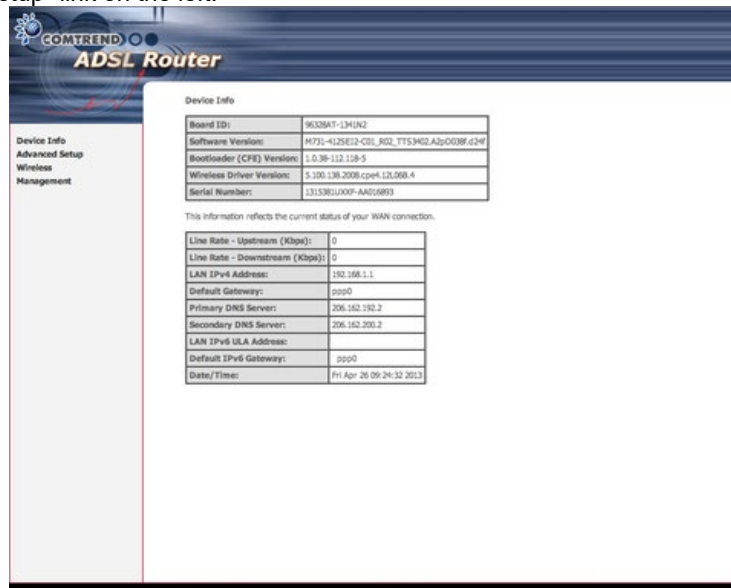


Modem is now configured for SEI Internet service.

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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".
- 2) Click the "Advanced Setup" link on the left.



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

COMTREND ADSL Router

DSL ATM Interface Configuration
Choose Add, or Remove to configure DSL ATM Interfaces.

Interface	Vpl	Vci	DSL Latency	Category	Peak Cell Rate(cells/s)	Sustainable Cell Rate(cells/s)	Max Burst Size(Bytes)	Link Type	Conn Mode	IP QoS	Remove
atm0	0	35	Path0	UBR				EoA	DefaultMode	Support	<input type="checkbox"/>

4) Click on the "Add" button.

COMTREND ADSL Router

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.

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".

COMTREND ADSL Router

NAT - Virtual Servers

Select the service name, and enter the server IP address and click "Apply/Save" to forward IP packets for this service to the specified server.
NOTE: The "Internal Port End" cannot be modified directly. Normally, it is set to the same value as "External Port End". However, if you modify "Internal Port Start", then "Internal Port End" will be set to the same value as "Internal Port Start". Remaining number of entries that can be configured:32.

Use Interface:

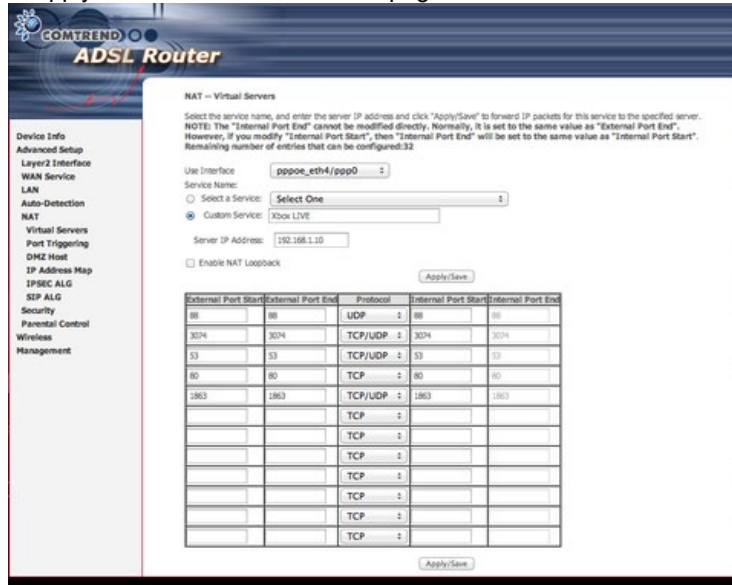
Service Name:
 Select a Service:
 Custom Service:

Server IP Address:

Enable NAT Loopback

External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		

6) If not, create your own. As an example, here we are adding ports needed for Xbox LIVE (per <https://support.xbox.com/en-US/xbox-one/networking/network-ports-used-xbox-live>). Once you have added your desired port forwards, click "Apply/Save" at the bottom of the page.



NAT - Virtual Servers

Select the service name, and enter the server IP address and click "Apply/Save" to forward IP packets for this service to the specified server. NOTE: The "Internal Port End" cannot be modified directly. Normally, it is set to the same value as "External Port End". However, if you modify "Internal Port Start", then "Internal Port End" will be set to the same value as "Internal Port Start". Remaining number of entries that can be configured:32

Use Interface: pppoe_eth4/ppp0

Service Name:
 Select a Service: Select One
 Custom Service: Xbox LIVE

Server IP Address: 192.168.1.10

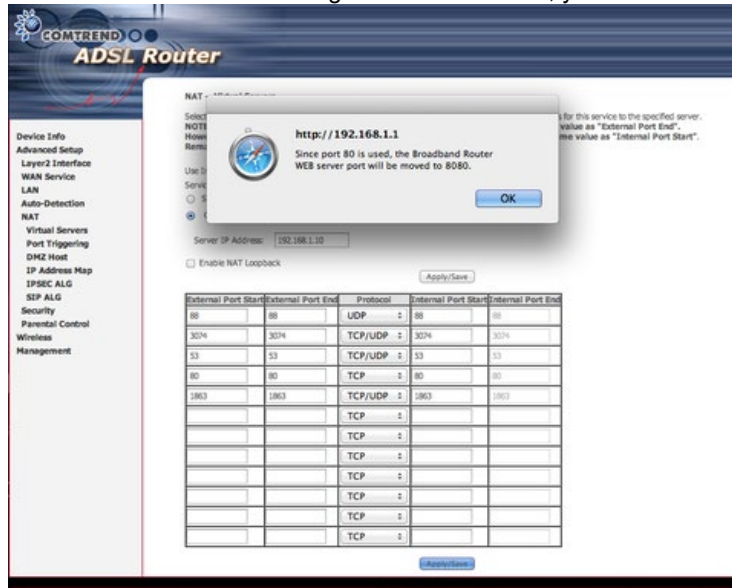
Enable NAT Loopback

[Apply/Save]

External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End
88	88	UDP	88	88
3074	3074	TCP/UDP	3074	3074
53	53	TCP/UDP	53	53
80	80	TCP	80	80
1983	1983	TCP/UDP	1983	1983
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		

[Apply/Save]

7) If you specify a port that the router uses for the management of the router, you will see this.



NAT - Virtual Servers

Select the service name, and enter the server IP address and click "Apply/Save" to forward IP packets for this service to the specified server. NOTE: The "Internal Port End" cannot be modified directly. Normally, it is set to the same value as "External Port End". However, if you modify "Internal Port Start", then "Internal Port End" will be set to the same value as "Internal Port Start". Remaining number of entries that can be configured:32

Use Interface: pppoe_eth4/ppp0

Service Name:
 Select a Service: Select One
 Custom Service: Xbox LIVE

Server IP Address: 192.168.1.10

Enable NAT Loopback

[Apply/Save]

http://192.168.1.1

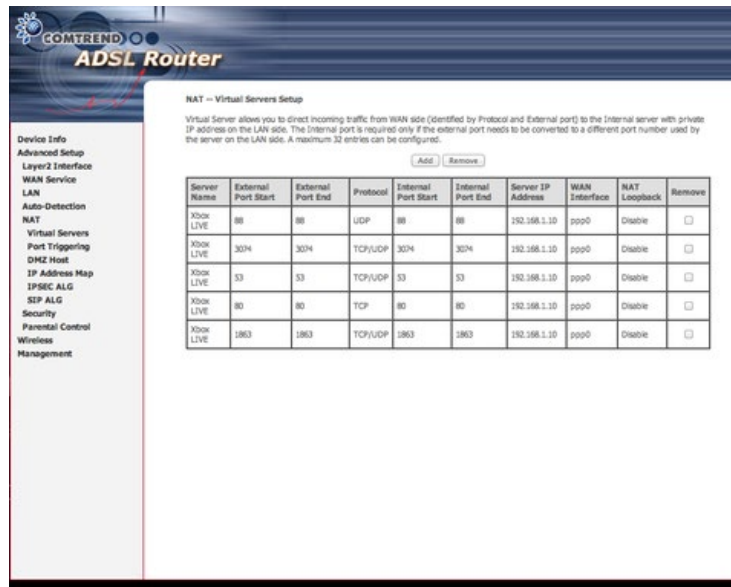
Since port 80 is used, the Broadband Router WEB server port will be moved to 8080.

[OK]

External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End
88	88	UDP	88	88
3074	3074	TCP/UDP	3074	3074
53	53	TCP/UDP	53	53
80	80	TCP	80	80
1983	1983	TCP/UDP	1983	1983
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		

[Apply/Save]

8) You are now done.



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Configuring WIFI/Wireless

You have your choice of one of two ways to enable the wireless access point in your SEI provided Comtrend AR-5381u:

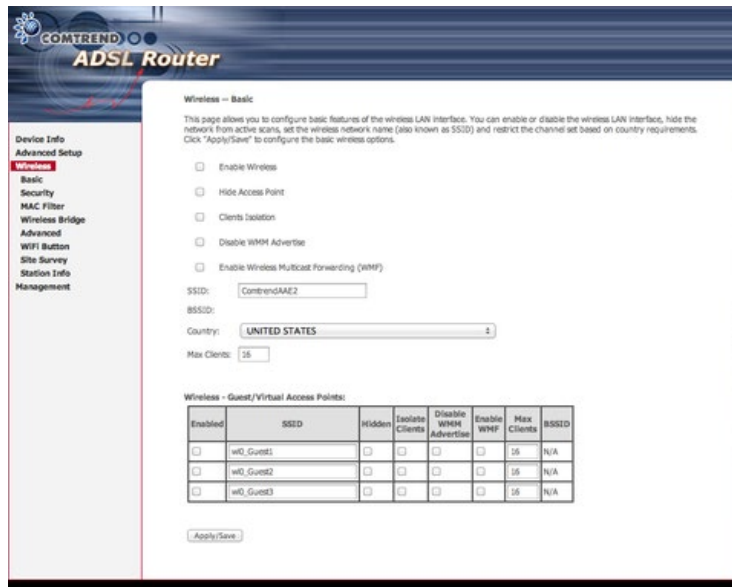
- A) Easy way by pressing a button and using preset defaults.
- B) Personalized approach (you can set your own SSID & security).

Easy setup:

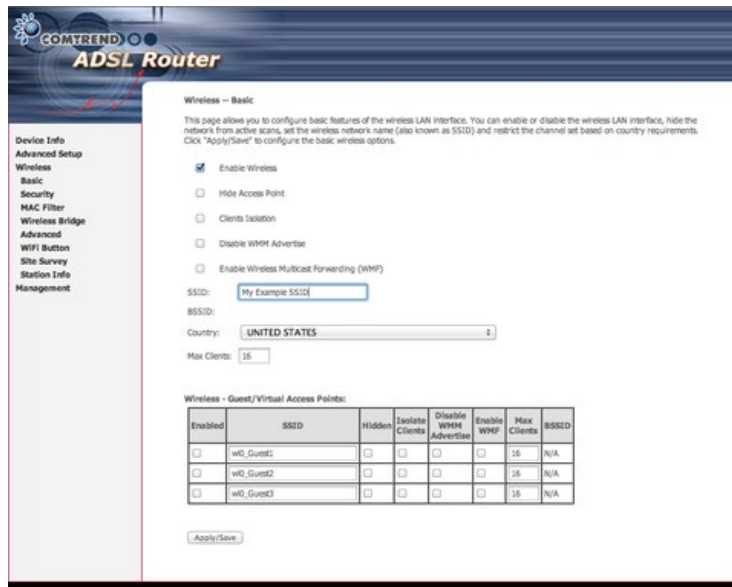
- 1) On the front of your modem, there are 2 physical buttons. Press and hold the one labeled "WIFI On/Off" for approximately 5 seconds until the "WLAN" LED turns on.
 - 2) On your WIFI capable devices, you will then connect to the SSID "ComtrendXXXX" where XXXX are the last 4 characters (in capital letters) of your modems 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 the last 10 digits of your modems MAC address also all in capital letters. (The last 10 would be all but the first 2 characters of the MAC address).
- * For example, if your MAC address is "3872C0A1B2C3", then your SSID would be "ComtrendB2C3" and your WPA2 encryption key/passphrase would be "72C0A1B2C3". Also note, there are no letter o's in the MAC address, they are zero's.

Personalized setup:

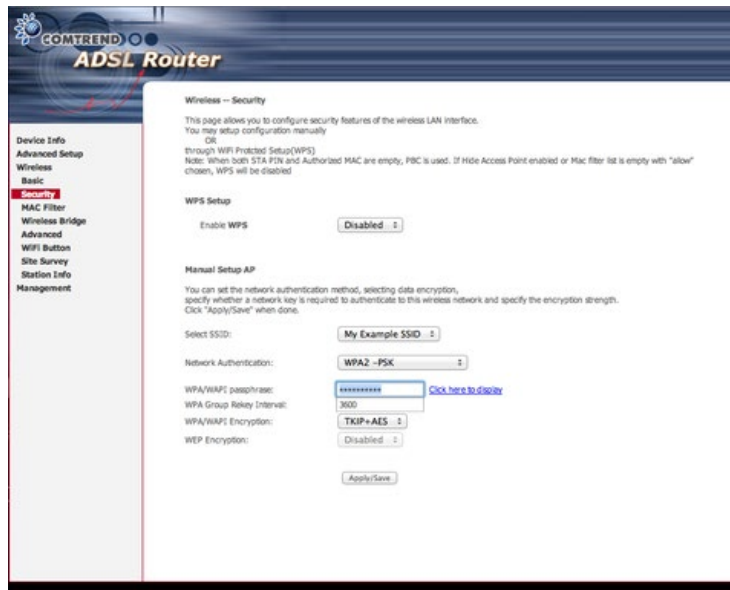
- 1) From a web browser, go to "http://192.168.1.1". Login with the username "admin" and the password "admin".
- 2) Click the "Wireless" link on the left.



3) 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, where XXXX are replaced with the last 4 characters of your routers MAC address).



4) Click the "Security" link 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. (By default the passphrase/key is the last 10 characters of your routers MAC address which can also be see on the bottom of the router).



5) Click on the "Apply/Save" button. Wireless access is now enabled.

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