Before you Start!

- Port forwarding works best when using Apple Safari, Microsoft Internet Explorer 8, or Mozilla Firefox.
 - Google Chrome and Microsoft Internet Explorer 9 have been identified to have problems completing port forwarding.
- Please be aware that if any settings are changed outside of the directions outlined below and it renders the modem non-functional, you may be required to purchase another device at full retail price plus any other associated costs (exchange fees, shipping costs, taxes, etc.).
- Complete all necessary tasks that require an Internet connection. This includes any calls made using a VoIP service (phone service that requires Internet connection). This is because there are several steps in the process which may require a reboot of the modem, which will in turn either disconnect a phone call or interrupt Internet connectivity.
- Please note that by default the ability to login to the modem across the internet from a remote location is disabled.

How to set up Port Forwarding

- 1. Open an Internet browser and go to the web address http://192.168.15.1. The password is "CLEAR123" (all uppercase without the quotations).
- If "CLEAR123" does not work, there is a small chance of it being "motorola" (without the quotations) or "nsn" (without the quotations).

Nokla Siemens Networks		
	Welcome to Nokia Siemens Networks	
	WIMAX CPE Please type your login password and click the Login button. Password: Login	

- The webpage will open to the modem's "Status" page.
 Select the "Internet" tab on the top left of the user interface.

Note Servers		Noka Steffers	cetworks w	LEAR
Perso	nalize •		Port Forw Local Add	arding
	Status O	- O Telephony	Control Pan	el
WIMAX S	Some Internet Service Provider for with service provider for	ovider may require user name and passwo these settings. If not sure, leave them with	rd for authentication purposes. Please c default value.	onsult
Internet	Protocol	User Name:		
		Password:		
Firewall	Pa	ssword Confirmation:		
Dynamic	DNS	Realm: clearwire-with	inet	
<u>宗</u> ()	Wizard		Undo	Apply

4. Select the "Firewall" tab on the left side of the user interface.

Note Stemens		CLEAR
Personalize Internet O		Port Forwarding Local Address
Status	- • Telephony	Control Panel
WiMAX Security	Some Internet Service Provider may require user name and password for authe with service provider for these settings. If not sure, leave them with default valu Authentication Method: EAP-TLS	ntication purposes. Please consult e.
Internet Protocol	User Name:	
Firewall	Password: Password: Password Confirmation:	
Dynamic DNS	Realm: clearwire-wmcnet	
Wizard		Undo Apply

- 5. Uncheck the "Enable Firewall" checkbox and check the "Enable ping from Internet" checkbox.
- 6. IMPORTANT: If you only need port forwarding for a gaming console or you do not need to be able to connect to devices behind the CLEAR modem remotely, the "Enable ping from internet" checkbox does not need to be selected.

Networks		CLEAR
Personalize Internet		Port Forwarding Local Address
Status	- • Telephony	Control Panel
WiMAX Security	Firewall helps protect your home network. It prevents unauthorized acce authorized access from the Internet to your device. Enable Firewall	ess to your home network. It also manages
Internet Protocol	Enable Web Login from Internet	
Firewall	Enable ping from Internet	
Dynamic DNS		
🔆 Wizard		Undo Apply

7. Select the "Local Address" tab at the top right of the user interface.

Hard Server	CLEA	AR
Personalize ●	Port Forwardi Local Address	ng s
Status •	- • Telephony • Control Panel	
VriMAX Security	Firewall helps protect your home network. It prevents unauthorized access to your home network. It also manage authorized access from the Internet to your device.	es
Internet Protocol	Enable Web Login from Internet	
Firewall	Enable ping from Internet 🛛	
Dynamic DNS		
🔛 Wizard	Undo A	kp p ly

8. Confirm the MAC and IP Address of the device to receive the forwarded ports, and copy them down for later use.

2				1	CLEAR	
	Personalize Internet		- • Telephony		Port Forwarding Local Address Control Panel	
	DHCP Server	Shows the active DHCP address, and remaining Client Host Name WST41032141	leases since the last reboot. lease duration are shown. MAC Address f0:de:f1:04:a0:cc	For each active lease, th IP Address 192.168.15.4	ne client host name, MAC address, IP Remaining Lease Duration 0 days 0:37:7	
	Lease Status					
	Wizard		Refresh Auto Ref	iresh		

9. Select the "Lease Reservation" tab on the left of the user interface.

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	Natio Server Reference			6	CLEAR	
	Personalize • Internet • Status	a	- • Telephony		Port Forwarding Local Address Control Panel	
	DHCP Server	Shows the active DHCP address, and remaining Client Host Name	leases since the last reboot. lease duration are shown. MAC Address	For each active lease, th	ne client host name, MAC address, IP Remaining Lease Duration	
	Lease Status Lease Reservation	WST41032141	f0.de:f1:04;a0:cc	192.168.15.4	0 days 0:37:7	
	Wizard		Refresh Auto Ref	resh		

10. Select "Add" at the bottom of the Lease Reservation page.

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Homes			CLEAR	
	Personalize • Internet • Status •	- • Telephony	 Port Forwarding Local Address Control Panel 	
	Manages lease reserva	tions allowing the same client to get the same IP addre Name MAC Address	ss at all times. IP Address Enabl	
	Lease Status Lease Reservation			
		"		
	Wizard	Add Delete	Undo Apply	

11. Enter the device information:

- Client Host Name
 MAC Address of the device from Step 8
 IP Address of the device from Step 8
 There is no need to check the "Select" checkbox
- Ensure the "Enabled" checkbox is selected
- Select "Apply"

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			CLEAR
	Personalize ● Internet ● Status	Contraction of Telephony	 Port Forwarding Local Address Control Panel
		Manages lease reservations allowing the same client to get the same IP address	s at all times.
	DHCP Server	Select Client Host Name MAC Address Router f0 : de : f1 : 04 : a0 : cc [P Address Enabled 192 168 15 4 Image: Contract of the second
	Lease Status		
	Lease Reservation		
		۰ m	
	Wizard	Add Delete	Undo

12. Select the "Port Forwarding" tab on the top right of the user interface.



- 13. Ensure the "Enable UPnP IGD" checkbox is selected
- 14. Ensure the "DMZ IP Address" field is blank.
- 15. If there is anything listed in this field, remove it (or zero it out) and select "Apply" before continuing.
- 16. Select the "Forwarding" tab on the left of the user interface.

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				CLEAR	
	Internet • Status •	- • Telephony		Local Address Control Panel	
Ba	sic Connections Zone).	rersal Plug and Play (UPnP) Internet Gateway port forwarding rules dynamically on this der which do not match with any forwarding rul	r Device (IGD) profile to allow ca vice. Enable a specific LAN clier les. This client sometimes is refe	ertain Windows applications It to accept inbound rrred as DMZ (Demilitarized	
Fo	rwarding	Enable UPnP IGD 🔽 DMZ IP Address :]		
	Wizard			Undo Apply	

17. Select the "Add" button at the bottom of the user interface.

Personalize Internet Status Telephony Porter Proversi biound connections destined to ports on the WMAX interface, to a specific cleft on your local network or your local network or your local network. Status Proversi biound connections destined to ports on the WMAX interface, to a specific cleft on your local network or your local network. Status Proversi biound connections destined to ports on the WMAX interface, to a specific cleft on your local network or your can peorly a corresponding destination. LAN pert LAN Pert LAN Port Elect Proverding Wizard Add Dete Undoo Apply Dete Vizard Add	192.168.15.1/		D = C	🗙 🧉 Nokia Sieme	ens Networks W $ imes$			material and
Personalize Internet Status Telephony Control Panel Basic Select Protocol Statu Endelided Forwarding Wizard Mathematical Mathmathematical Mathematical Mathmathma	Note Seman						CLEAR	
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Status • Telephony • Control Panel Basic Forwards inbound connections destined to ports on the WMAX interface, to a specific client on your local network. You can specify a corresponding destination LAN port range as well. Port forwards can be used to support a web server, or other special service, offered on your local network. Select Protocol WAN Port LAN P LAN Port Enabled Forwarding Wizard Add Delete Undo Apply		nternet o 🗐				O Local A	ddress	
Basic Forwards inbound connections destined to ports on the WiMAX interface, to a specific client on your local network. You can specify a corresponding destination LAN port range as well. Port forwards can be used to support a web server, or other special service, offered on your local network. Select Protocol WAN Port WAN Port LAN P LAN Port Enabled Forwarding Wizard Mad Delete Undo Aply		Status O	- 01	elephony		• Control P	anel	
Basic Forwards inbound connections destined to ports on the WiMAX interface, to a specific client on your local network. You can specify a corresponding destination LAN port range as well. Port forwards can be used to support a web server, or other special service, offered on your local network. Select Protocol WAN Port LAN P LAN Port LAN Port Forwarding Wizard Add Delete Undo Apply								
Select Protocol WAN Port LAN P LAN Port Enabled Forwarding Wizard Add Delete Undo Apply	Ratio	Forwards You can s	inbound connections destine pecify a corresponding dest	d to ports on the WiMA) nation LAN port range a	Cinterface, to a specifi s well. Port forwards (c client on your loc can be used to sup	cal network. oport a web	
Select Protocol Visit End LAN IP Control Len Pol Enabled Forwarding Wizard Mizard	DANIC	server, or	other special service, offere	d on your local network	LAN	Port I AN Port		
Forwarding Wizard Add Delete Undo Apply		Select	Protocol Start	End	AN IP Sta	art End	Enabled	
Wizard Add Delete Undo Apply	Forward	ing		A:	771			
Wizard Add Delete Undo Apply								
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Wizard Add Delete Undo Apply								
Wizard Add Delete Undo Apply			_	-				
		Wizard	bbA	Delete		Undo	Apply	

18. Enter the following information:

- Protocol
 - Select "TCP"
- WAN Port Start
- Enter "1" WAN Port End
 - Enter "65535"
- LAN IP Address
 - Enter the IP Address from Step 8



Select "Apply".



Protocol

• Select "UDP"

- WAN Port Start
 - Enter "1"
- WAN Port End
 - Enter "65535"
- LAN IP Address
- Enter the IP Address from Step 8
 LAN Port Start

 Enter "1"
- LAN Port End
 - Enter "65535"

Select "Apply".

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	Personalize • Internet •) Port Fo	nwarding ddress		
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	Basic	Forwards inbo You can spec server, or othe	ound connections destine ify a corresponding dest er special service, offere	ed to ports on the ination LAN port ra ed on your local ne	WiMAX interface, to a inge as well. Port for twork.	a specific clien rwards can be	t on your loo used to sup	cal network. oport a web		
		Select P	Protocol WAN Port Start	WAN Port End	LAN IP	LAN Port Start	LAN Port End	Enabled		
	Forwarding		UDP 🔻 🚺	65535 19	2 168 15 , 4	1	65535			
	💥 Wizard		Add	Delete			Undo	Apply		

20. Restart the modem. This can be done one fo two ways:a. Close the browser and physically unplug the modem for at least 30 seconds.b. Press the "sun" icon at the very bottom left of the user interface on the modem (to the left of the "Wizard" button).

The modem is now "wide open" and all ports are forwarded to the first NAT capable device hooked up after the modem.

Any further issues with port forwarding will need to be addressed with your 3rd party network equipment vendor, or 3rd party software vendor.