## **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.
- Inbound ping (ICMP) or "Enable Ping from Internet" cannot be enabled for this device.

## Process

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1. Open an Internet browser and browse to the web address 192.168.0.1. The password is the last 8 digits/characters of the Puck's MAC ID.

	Administrator Login	Pre-Login P	uck Details
	You are connected to a Rover Puck by CLEAR router. Please enter your administrator password below to access settings and options.	To assist you in re logging in, the foll- router is available	solving a support issue prior to owing information from your
	Enter Password	Model #. Serial #:	Rover Puck by CLEAR
		WFi Status	1 Clients
Grover	Password.	WIFI SSID: Guest WIFI SSID:	((PUCK2f0 * ROVER)) Disabled
	LOGIN	WMax Connection WMax Signal	n. Connecting
	11 All rights researed		wijin

2. The modem will default to the "Status" page when the user interface opens.

		STATUS ~	SETUP ~	NETWORK ~	SYST	Base (2) Help Logert
ROUTER STATUS			MODEM ST	ATUS 🕢 WIFI ST	TATUS 🛉	BATTERY STATUS
All of your internet and network connection details are displayed on this page. Any issues that could affect or improve the functionality of the router are shown in the Alerts box below. Router Alerts The router is running property	Router Info Product: Serial: Date: Firmware:	rmation Rover Puck by CLEAR	Connectivity Connection: Signal: RSSI: CIVR:	Established 100% -75 dBm 21 dB	Local Netwo Hostname: IP Address: Netmask: DHCP Server: WPipe QoS:	rk Puck 192.168.0.1 255.255.255.0 Enabled Enabled
	Power/Batt AC Power: Charge: Time:	ery Yes 46% Full In 3:49	Wi-Fi Clients Wi-Fi Radio: Channel: Name (SSID): Clients: Security: Guest Wi-Fi:	Enabled 6 ((PUCI2f0 * ROVER))) 1 WPA1/WPA2 Disabled	Internet Connected: JP Address: Netmask: Gateway: DNS Servers:	
Licenses				Ce	pyright © <u>Clearw</u>	re Corp 2011 All rights reserved.

3. Located across the top Tab bar, it will either display "Basic" or "Advanced".

- To toggle between "Basic" and "Advanced", select the arrow located in the top right of the user interface.
  You must be in the "Advanced" portion to continue with the Port Forwarding set up.



4. Once "Advanced" has been chosen, select "System" and then "DHCP Server" from the drop-down.

				Advanced 🖸	Help Logout
	STATUS ~	SETUP ~		SYSTEM ~	
			Ad	Iministration	
			Up	date / Restore	
ROUTER STATUS		MODEM STATUS	WiFi ST/DF	ICP Server	ATUS 🛄
			S)	/stem Control	
			Po	wer Management	t
All of your Internet and network connection details are displayed on this page. Any issues that could affect or improve the functionality of the router are shown in the Alerts box below.	Router Information Product: Rover Puck by Serial: Date: Firmware:	Connectivity CLEAR Connection: Conne	Local I cting Hostnan IP Addr Netmasi DP(CP & WP(pe C	Jetwork ne: Puck ess: 192.168.0.1 k: 255.255.25 erver: Enabled QoS: Enabled	L 5.0
Cours not be established	Power/Battery	WI-Fi Clients	Interne	et	
	AC Power: Yes Charge: 15% Time: Full In 6:03	Wi-Fi Radio: Enable Channel: 8 Name (SSID): ((PUC) Clients: 1 Security: WPA1) Guest Wi-Fi: Disable	d Connect IP Addn (2f0 * ROVER)) Netmasi Gatewar WPA2 DNS Ser Ed	ed: Disconnecte ess: c y1 vers:	đ
/#					

- 5. The DHCP Server options will appear. Under "Active Leases", the current connected devices are displayed.
- 6. Locate the device that the Puck is connected to that forwarding will need to be set up for and copy the IP and Hardware Address for later use.

Enable DHCP Service	ENABLED DISA	ABLED					Help Panel	
HCP SERVER CONFIC	JURATION					_	Disabling the DHC recommended if y DHCP server on y is configured pro	P server is only rou have another rour network and it perly.
Starting IP / Ending IP / Lease time	Address: 192.168.0.100 Address: 192.168.0.200 (hours): 12	0						
CTIVE LEASES								
ACTIVE LEASES	IP Addr	Hardware Addr	Client ID	Evolution	-			
ACTIVE LEASES RESERVE Hostname WST41001576	IP Addr 192.168.0.162	Hardware Addr 00231543eed0	Client ID 01:00:23:15:43:ee:d0	Expiration 07/27/2011	٦			
ACTIVE LEASES RESERVE Hostname WST41031576 RESERVATIONS	IP Addr 192 168.0.162	Hardware Addr 00.23.15.43.ee.d0	Client ID 01:00:23:15:43.ee:d0	Expiration 07/27/2011	]			
ACTIVE LEASES	IP Addr 192.168.0.162 017 REMOVE	Hardware Addr 00/23/15/43/ee.d0	Client ID 01:00:23:15:43.ee.d0	Expiration 07/27/2011	]	 •		

7. Select "ADD" underneath the "Reservations" section.

ICP SERVER CONFIC	GURATION				recommended if you have another DHCP server on your network and it is configured property.
Starting IP Ending IP Lease time	Address: 192.168.0.100 Address: 192.168.0.200 (hours): 12	2			
CTIVE LEASES					—
RESERVE Hostname	IP Addr	Hardware Addr	Client ID	Expiration	-
RESERVE Hostname WST41031578	IP Addr 192.168.0.162	Hardware Addr 00.23.15.43.ee.d0	Client ID 01:00:23:15:43:ee:d0	Expiration 07/27/2011	
CTIVE LEASES RESERVE Hostname WST41031576 ESERVATIONS	IP Addr 192.168.0.162	Hardware Addr 00.23.15.43.sec.d0	Client ID 01 00.23 15.43 ee d0	Expiration 07/27/2011	

- 8. Enter a Rule Name within the "Hostname" section.
- The name cannot include any spaces and can be named anything (Router,Rule1,etc.)
- 9. Enter the MAC and IP Address from Step 6.
   10. Make sure the box for "Enabled" is checked and select "Save Reservation".

Brable DHCP Service	C ENABLED - DOM	Maller -				stellt subtrat
	URATION					
	Address: 192.166.0.	HCP Reservation Entr Hostname: Hardware Addr: IP Addr:	y RuleName 00:23:15:43:ee:d0 192.168.0.162	]	×	
	_	Enabled:	SAVE RESERVA	TION		
Bostname	IP Addr 192 102.0 162	Hardware Addr 90.21.15.45 et 30	Cilent ID 01:00:22:15:43 ex :01	Expiration 972772011		
			NE LAT			

- An "Update was Successful" drop-down will appear at the top of the screen.
   Note that the device is now listed unser the "Reservations" section.

ICP SERVER CONFIGUR	ATION				is configured property.
Starting IP Add	ress: 192.168.0.100				
Ending IP Add	ress: 192.168.0.200				
Lease time (ho	urs): 12				
CTIVE LEASES					<u></u>
RESERVE					
Hostname	IP Addr Hardw	are Addr C	lient ID	Expiration	
WST41031576	192.168.0.162 00.23.1	43.ee.d0 0	1.00.23:15:43.ee.d0	07/27/2011	
ESERVATIONS					
ADO EDIT	PENOVE	10.44		E-shield	
Distriante	And the second s	IP A0	GF 462	Enabled	
j Halevane	00.23.13.43.86.00	132.10	0.0.102	u ve	

13. Select "Network" and from the drop-down choose "Firewall".

~					-	dvanced D Help Lopout
CLEAR 🕑		STATUS ~	SETUP ~	NETWORK	<ul><li>✓ SYSTI</li></ul>	EM - CONNECTION
ROUTER STATUS			MODEM ST/	Content Filt MAC Filter Wi-Fi / Loca Firewall DNS	ering al Network	BATTERY STATUS
All of your Internet and network connection details are displayed on this page. Any issues that could affect or improve the functionality of the router are shown in the Alerts box below Router Alerts • The Internet connection could not be established	Router Infor Product: Serial: Date: Firmware: Power/Batte	mation Rover Puck by CLEAR	Connectivity Connection: Wi-Fi Clients	Connecting	Ing Local Netwo Hostname: D Address: Netnasic DHCP Server: WPipe QoS: Internet	rk Puck 192.168.0.1 255.255.255.0 Enabled Enabled
	AC Power: Charge: Time:	Yes 35% Full In 5:05	Wi-Fi Radio: Channel: Name (SSID): Clents: Security: Guest Wi-Fi:	Enabled 5 ((PUCK2f0 * ROVER)) 1 WPA1/WPA2 Disabled	Connected: IP Address: Netmask: Gateway: DNS Servers:	Disconnected
Licenses					Copyright © <u>Clearwi</u>	re Corp 2011 All rights reserved.

- 14. The "Firewall Configuration" screen will appear.15. Select "ADD" under "Port Forwarding Rules".

CLEAR 🧕		STATUS ~	SETUP ~	NETWORK ~	SYSTEM ~ CONNECTION ~
FIREWALL CONF	FIGURATION		MODEM STATUS	i 🔹 WFI STATUS	P BATTERY STATUS
PORT FORWARDING RULES				(9)	Help Panel A port forwarding rule allows traffic from the internet to reach a
ADO REMOVE	Internet Port(s)	Forwarding to	Protocol		computer on the inside of your network. Exercise caution when adding new rules as they impact the security of your network.
ADO ÉDIT	REMOVE Action	Dest Ports	Source		
DMZ (DEMILITARIZED ZONE)					
Enabled: 🗖 IP Address:	APRY	RESET			
Licenses				Copyright	© <u>Clearwire Corp 2011</u> All rights reserved.

- 16. The "Add New Port Forwarding Rule" box will appear.17. Enter in a title for the "Name Field" and a description into the "Description" field.
- The name cannot include any spaces
- A description is not required
- 18. Select the "Next" option.

TADD RANGE	Internet Port(s) Forwardin			from the entrone to reach a computer on the stable of your remote.
				new rules as they impact the security of your network.
	Add New Port Forwarding Rule		×	
	Answer the questions I rule.	below to add a new port forwar	ding	
	Name:	RuleName		
	Description:	Enter a short description of this rule for future reference	*	
			*	
		BACK NDAT	•	
	Contraction of Contractions	P.		

- 19. In the "Add New Port Forwarding Rule" box, check "Use Port Range".20. Enter the following information:
  - - Internet Ports:
      - Enter the numbers "1" and "65535"
    - Local Computer:
      - Enter the IP address from Step 6
    - · Local Ports:
      - Enter "1

A40	Internet Port(s) Forwarding to Protocol		A port torivanting rule steams that is toom the element is reach a computer on the reade of your helivery. Exercises caution when adding more rules as they impact the accurity of your retevork.
	and the second se		
	Action Add New Port Forwarding Kuee Use Port Range:  Internet Port(s): 1 - 65535 Local Computer: 192.168.0.162	•	
	Local Port(s): 1 - 65535		
	BACK	NEXT	

- Select the Protocol "TCP" from the drop-down then select the "Add Rule" button.
   Select "Next".

				a weistana	T BATTERYATANA
AND CONTRACTOR		Forwarding to			composer on the sould of your network Exercises caution when adding networks as Tery impact the ancarity of your network.
	Add New Port	Forwarding Rule Protocol: TCP		×	
Anne Carl	Action	ADO	RULE BACK	HEAT	
				6	

23. The "Firewall Configuration" screen will appear. Select "Add" under "Port Forwarding Rules".

ORT FORWARDING RULES				A port forwarding rule allows traffic
ADD REMOVE	Internet Port(s)	Forwarding to	Protocol	computer on the inside of your network.
RuleName	1-85535	192.168.0.162.1-65535	tcp	new rules as they impact the security of your network.
INBOUND FILTER RULES				
ADO EDIT	REWOVE			
Name	Action	Dest Ports	Source	
MZ (DEMILITARIZED ZONE)				
Enabled: 🔝				
IP Address:				

- 24. The "Add New Port Forwarding Rule" box will appear.25. Input a name for the new rule and desciption of the rule.
  - The name cannot contain any spaces A descipriton is not required
- 26. Select "Next"

PORTFORWARDING RULES				
ACC ACCALL	Internet Port(s) Forwarding			
Acc at an	Actio Add New Port Forwarding Rule Answer the questions to	below to add a new port forward	ng	
DALY IDEMAILTANIZED ZONE) Enabled: [1] IP Address: [	Name: Description:	RuleName2 Enter a short description of this rule for future reference BACK NEXT		
Leanada			Garry	

- 27. In the "Add New Port Forwarding Rule" box, check "Use Port Range".28. Enter the following information:
- - Internet Ports
    - Enter the numbers "1" and "65535"
  - Local Computer
    - Enter the IP address from Step 6
  - Local Ports
    - Enter "1"

					A post torvienting rule allows had from the internet to reach a computer on the inside of your relovant.
		Forwarding to			
					netwrates as they impact the network.
A00	Add New Por	rt Forwarding Rule		×	
Name	Action				
		Use Port Range: 🗹			
		Internet Port(s):	65535		
		Local Computer: 192.168.0	.162		
		Local Port(s): 1	65535	- A	
			BACK	NEXT	
				_	
	and the second se			_	

- 29. Select "Next".
- 30. Select the Protocol "UDP" from the drop-down then select "Add Rule".
- 31. Click "Next"

ADD HEAVIN					
					seciarity of your network.
	Add New Por	t Forwarding Rule		×	
	Action	Protocol: UDP			
				- 8	
		ADD ADLE	BACK		
				- 8	

32. The "Port Forwarding Rules" screen will appear. Select "Apply".

RT FORWARDING RULE	s			A port forwarding rule allows traffi from the internet to reach a
ADD REMO	Internet Port(s)	Forwarding to	Protocol	computer on the inside of your network.
RuleName	1-65535	192.168.0.162:1-65535	tcp	new rules as they impact the security of your network.
RuleName2	1-65535	192.168.0.162:1-65535	udp	
ADD	Action	Dest Ports	Source	
(DEMILITARIZED ZON	E)			_
Enabled: 📃				

33. The Rover Puck by CLEAR <u>does not</u> require a reboot for the rules to be enabled. However, if issues with ports being closed are ongoing, power the deivce off for at least 30 seconds.

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.