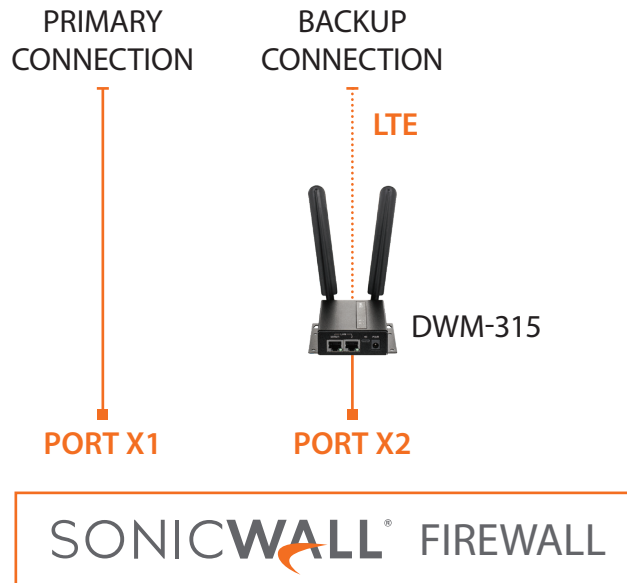


## How to Setup the DWM-315 with **SONICWALL** TZ Series Firewall for Connection Failover

### TOPOLOGY



**STEP 1.** To setup the DWM-315 4G LTE M2M Router in Bridge Mode, connect it to your computer and log into it via <http://192.168.0.1>.

After logging in, go to **WAN & Uplink > Connection Setup**. Under **WAN-1** click on the "Edit" button.

The screenshot shows the D-Link DWM-315 web interface. The left sidebar contains navigation options: Status, Basic Network, WAN & Uplink (selected), LAN & VLAN, and IPv6. The main content area shows the 'Connection Setup' page with tabs for 'Physical Interface' and 'Connection Setup'. Below the tabs is an 'Internet Connection List' table.

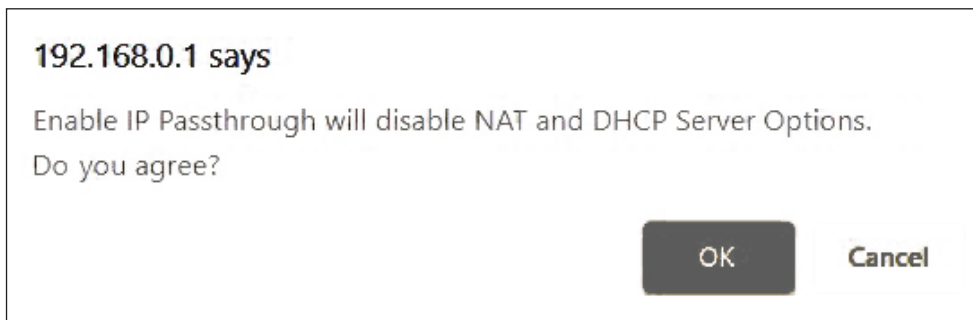
Interface Name	Physical Interface	Operation Mode	WAN Type	Action
WAN-1	3G/4G	Always on	3G/4G	<b>Edit</b>
WAN-2	-	Disable	-	Edit

Scroll down to the 3G/4G Connection Common Configuration.

Under IP Passthrough (Cellular Bridge) tick the "Enable" option.

3G/4G Connection Common Configuration	
Item	Setting
▶ Connection Control	Auto-reconnect ▾
▶ Time Schedule	(0) Always ▾
▶ MTU Setup	<input type="checkbox"/> Enable
▶ IP Passthrough (Cellular Bridge)	<input checked="" type="checkbox"/> Enable Fixed MAC: <input type="text"/>
▶ NAT	<input type="checkbox"/> Enable
▶ IGMP	Disable ▾
▶ WAN IP Alias	<input type="checkbox"/> Enable 10.0.0.1

Click on "Save" and confirm that switching to Bridge Mode will disable NAT and DHCP.

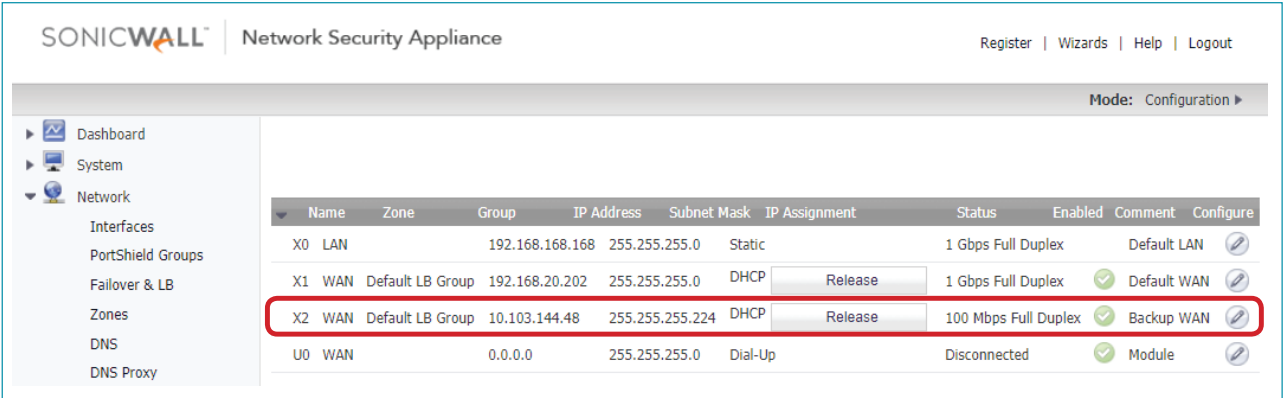


The Setup is complete for DWM-315 in Bridge Mode.

See next page to setup SonicWALL TZ Series Firewall for failover.

## STEP 2. Setting up SonicWALL Firewall for failover from Primary Connection to Backup Connection.

a. Go to Network > Interfaces. Configure the X2 interface:



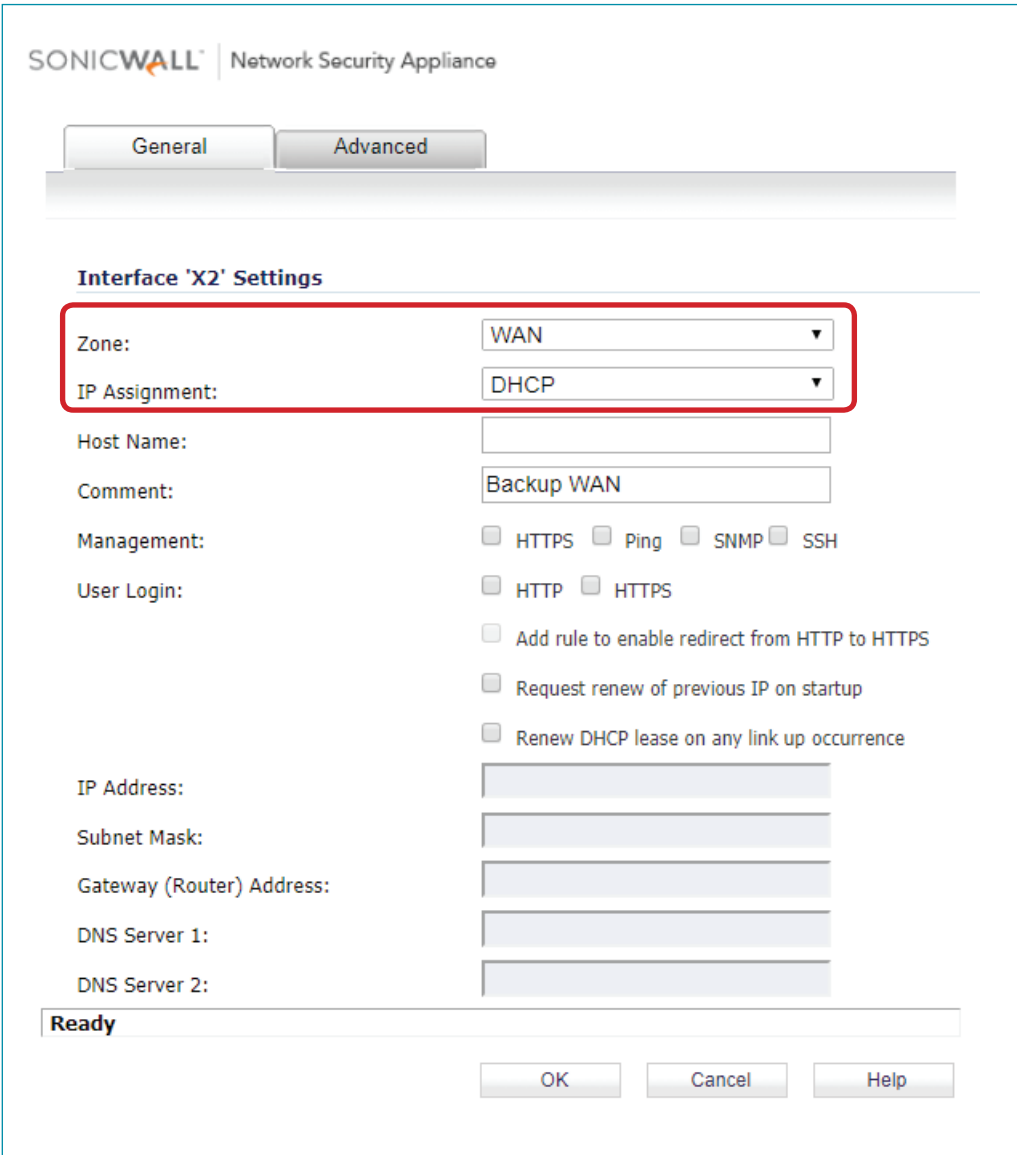
SONICWALL Network Security Appliance

Register | Wizards | Help | Logout

Mode: Configuration ▶

Name	Zone	Group	IP Address	Subnet Mask	IP Assignment	Status	Enabled	Comment	Configure
X0	LAN		192.168.168.168	255.255.255.0	Static	1 Gbps Full Duplex		Default LAN	
X1	WAN	Default LB Group	192.168.20.202	255.255.255.0	DHCP	1 Gbps Full Duplex	<input checked="" type="checkbox"/>	Default WAN	
X2	WAN	Default LB Group	10.103.144.48	255.255.255.224	DHCP	100 Mbps Full Duplex	<input checked="" type="checkbox"/>	Backup WAN	
U0	WAN		0.0.0.0	255.255.255.0	Dial-Up	Disconnected	<input checked="" type="checkbox"/>	Module	

b. Set Zone as "WAN". Set IP Assignment as "DHCP".



SONICWALL Network Security Appliance

General Advanced

### Interface 'X2' Settings

Zone:

IP Assignment:

Host Name:

Comment:

Management:  HTTPS  Ping  SNMP  SSH

User Login:  HTTP  HTTPS

Add rule to enable redirect from HTTP to HTTPS

Request renew of previous IP on startup

Renew DHCP lease on any link up occurrence

IP Address:

Subnet Mask:

Gateway (Router) Address:

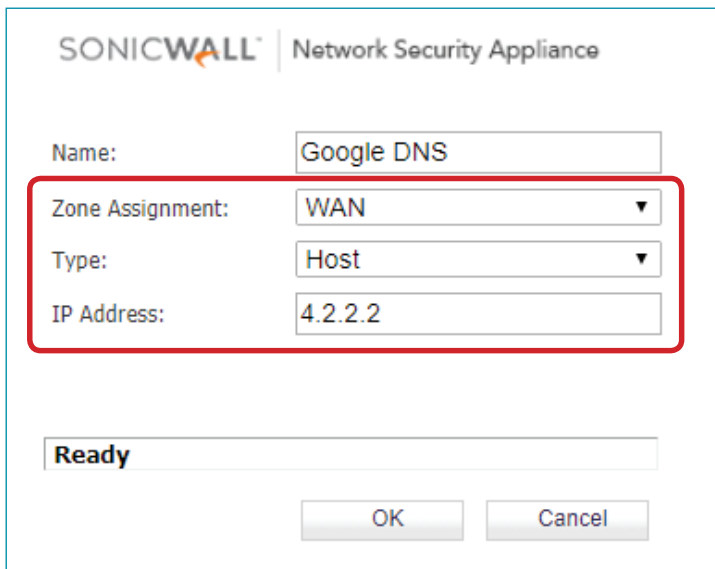
DNS Server 1:

DNS Server 2:

Ready

OK Cancel Help

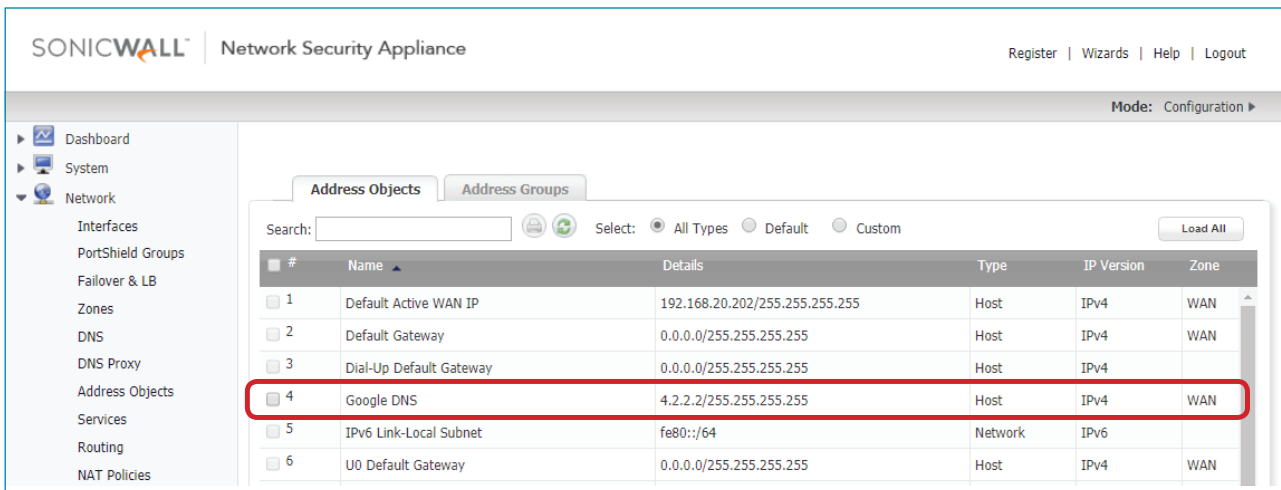
**STEP 2.** c. Go to **Network > Address Objects**. Add a new object. Set **Zone Assignment** as "WAN". Set **Type** as "Host". Set **IP Address** as "4.2.2.2".



The screenshot shows the configuration dialog for a new Address Object in the SonicWall Network Security Appliance. The fields are as follows:

- Name: Google DNS
- Zone Assignment: WAN
- Type: Host
- IP Address: 4.2.2.2

The "Zone Assignment", "Type", and "IP Address" fields are highlighted with a red box. Below the fields is a "Ready" status indicator and "OK" and "Cancel" buttons.



The screenshot shows the SonicWall Network Security Appliance web interface. The "Address Objects" tab is selected, and the "Address Objects" list is displayed. The "Google DNS" object is highlighted with a red box.

#	Name	Details	Type	IP Version	Zone
1	Default Active WAN IP	192.168.20.202/255.255.255.255	Host	IPv4	WAN
2	Default Gateway	0.0.0.0/255.255.255.255	Host	IPv4	WAN
3	Dial-Up Default Gateway	0.0.0.0/255.255.255.255	Host	IPv4	
4	Google DNS	4.2.2.2/255.255.255.255	Host	IPv4	WAN
5	IPv6 Link-Local Subnet	fe80::/64	Network	IPv6	
6	U0 Default Gateway	0.0.0.0/255.255.255.255	Host	IPv4	WAN

**STEP 2.** d. Go to **Network > Failover & LB**. Configure the "Default LB Group". Add X2 to the "Selected" field. Make sure the interfaces are in correct order.

SONICWALL Network Security Appliance

General Probing

Name: Default LB Group

Type: Basic Failover

Preempt and failback to preferred interfaces when possible

Group Members: Select here: U0

Add >>

<< Remove

Selected: Interface Ordering: X1 X2

Final Back-Up:

Ready

OK Cancel

Groups

Name	Type	IP Address	Link Status	LB Status	Main Target	Alternate Target	Configure	Notes
Default LB ...	Basic Failover							
X1		192.168.20.202 (WAN)	Link Up	Available	Disabled	Disabled		
X2		10.103.144.48 (WAN)	Link Up	Available	Disabled	Disabled		

- STEP 2.** e. Go to **Network > Network Monitor**. Add a new Network Monitor Policy. Set **Probe Target** as "Google DNS". Set **Next Hop Gateway** as "X1 Default Gateway". Set **Outbound Interface** as "X1". Set **Probe Type** as "Ping (ICMP) - Explicit Route".

**SONICWALL** | Network Security Appliance

**Network Monitor Policy Settings**

Name: WAN1 Monitor

Probe Target: Google DNS

Next Hop Gateway: X1 Default Gateway

Local IP Address: --Select an address object--

Outbound Interface: X1

Probe type: Ping (ICMP) - Explicit Route

Port: [ ]

Probe hosts every: 5 seconds

Reply time out: 3 seconds

Probe state is set to DOWN after: 3 missed intervals

Probe state is set to UP after: 3 successful intervals

All Hosts Must Respond

RST Response Counts As Miss

Comment: [ ]

**Ready**

OK Cancel Help

**Network Monitor Policies** Items 1 to 1 (of 1)

View Style:  All Policies  Custom Policies **View IP Version:**  IPv4 Only  IPv6 Only  IPv4 and IPv6

Add... Delete Clear Statistics Delete All

#	Name	Probe Target	Gateway	Local IP	Interface	Probe Type	Interval	Port	Response Timeout	Failure Threshold	Success Threshold	All Must Respond	RST is Failure	Status	Comment	Configure
1	WAN1 Monitor	Google DNS	X1 Default Gateway		X1	Ping-Explicit Route	5	3	3	3	No	N/A	<span style="color: green;">●</span>			

Add... Delete Clear Statistics Delete All

Your setup is now complete.

## D-LINK CONTACT INFORMATION

### NATIONAL SALES MANAGER

**Phil Tarbox**  
0417 234 761  
phil.tarbox@dlink.com.au

PARTNER PRIORITY SUPPORT  
**1300 558 053**

GENERAL ENQUIRIES  
**1300 700 100**

PARTNER REWARDS PROGRAM  
**dlink.com.au/Rewards**  
TRAINING AND CERTIFICATION  
**training.dlink.com.au**

### REGIONAL CHANNEL MANAGERS

QLD/NT  
**Bernie Rasenberger**  
0403 980 294  
bernie.rasenberger@dlink.com.au

NSW/ACT  
**Michael Crocombe**  
0421 951 465  
michael.crocombe@dlink.com.au

VIC/TAS/SA/WA  
**Colin Chamberlain**  
0418 345 286  
colin.chamberlain@dlink.com.au

### PRE-SALES ENGINEERS

QLD/NT/NSW/ACT  
**David Urbano**  
0422 589 091  
david.urbano@dlink.com.au

VIC/TAS/SA/WA  
**Aaron Bilton**  
0403 857 007  
aaron.bilton@dlink.com.au