

Technical Support

D-Link



STEP 1. To set the DWM-312 4G LTE Modem in Bridge Mode, connect it to your computer and log into it via http://192.168.0.1.

Select "Internet" from the top menu. Then select SIMA > APN Settings. Set "Dial-Up Profile" to Manual. Choose your Country and your Telco. Click on "Apply".



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Select "Router Mode" > Disable the "Keep Alive for WAN Access" option > Click on "Apply".

D-Link [®] DWM-312	Home Internet LAN VPN Advanced System	m
 WAN Service SIMA SIMB Device Mode Router Mode 	NAT	
	 Enable DNS Query ICMP Checking Check Incoming / Outgoing Packet Check Interval 60 seconds * Fail Threshold 5 times * Target1 DNS1 * Target2 None * 	

Select "Device Mode" > Select "Bridge Mode" > Click on "Apply".



The Setup is complete for DWM-312 in Bridge Mode. See next page to setup Fortinet Firewall for failover.

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

a. Go to Network > Interfaces and **Configure WAN1** with your Primary Internet Connection settings.

	T Status	T Name	T Members	T IP/Netmask	🝸 Туре	T Access
P	nysical (3)					
	0	dmz		10.10.10.1 255.255.255.0	Physical Interface	PING HTTPS HTTP FMG-Access CAPWAP
	ø	wan1 (Primary)		192.168.20.233 255.255.255.0	Physical Interface	PING FMG-Access
	0	wan2 (Backup LTE)		10.100.108.130 255.255.255.252	Physical Interface	PING FMG-Access

b. Configure WAN2 as your backup LTE connection, set it as DHCP.

Edit Interface				
Interface Name	wan2			
Alias	Backup LTE]	
Link Status	Up 🕢			
Туре	Physical Interface			
Role 📵	WAN	•]	
Estimated Bandwidth 📵	0	Kbps Upstream	0	Kbps Downstream
Address				
Addressing mode	Ma	nual DHCP PPPoE		
Status	conn	ected		
Obtained IP/Netmask	10.1 255.	00.108.130 255.255.252	Renew	
Expiry Date	Janu	ary 11, 1970 10:09 AN	4	
Acquired DNS	10.4	58.204 10.5.136.242		
Default Gateway	10.1	00.108.129		
Retrieve default gateway fr	rom server 🔘			
Distance	5			
Override internal DNS				

C. Go to **Policy & Objects** > **IPv4** Policy and, if not already present, create a firewall policy to allow traffic from your LAN to your primary connection (WAN1). Add similar policy for your backup connection (WAN2).

🗖 lan	- Backup LTE	(wan2) (1 - 1)					
1	Backup	😐 all	😐 all	🚺 always	🖳 ALL	ACCEPT	Senabled 🛇
Ian - Primary (wan1) (2 - 2)							
2	Primary	😐 all	😐 all	🚺 always	🖳 ALL	✓ ACCEPT	오 Enabled
Edit Policy							
Name		Backup					
Incoming Interface Outgoing Interface Source		🔀 lan 🗸 👻		•			
		🖳 Backup LTE (wan2) 🔹		•			
		🖻 all		×			
Destina	tion Address	🕒 all		×			
Schedul	le	🚺 always		•			
Service		👤 ALL		×			
Action		✓ ACCEPT	O DENY FLEARN				
Firewal	I / Network Op	otions					
NIAT							

How to Setup the DWM-312 and Fortinet Firewall for Connection Failover

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STEP 2. d. Go to Network > Static Routes and create a static route for each of the Internet Connections*. The primary connection should have a higher route priority (lower "Priority Number") than the secondary connection.

New Static Route						
Destination	Subnet Named Address Ir	ternet Service				
Destination 😈						
Device	Primary (wan1)	•	ו			
Catavara		-				
Gateway	192.168.20.254					
Administrative Distance 🚺	10		J			
Comments		// 0/255				
Status	📀 Enabled 🔮 Disabled					
Advanced Options						
Priority 1 5						
		C	ОК	Cancel		
New Static Route						
Destination A	Cubert, Neved Address In	tannat Can daa				
Destination U	Subnet Named Address In	iternet Service				
	0.0.0/0.0.0.0		•			
Device	🛄 Backup LTE (wan2)	•				
Gateway	10.100.108.129					
Administrative Distance 🜖	10					
Comments		// 0/255				
Status	📀 Enabled 🔮 Disabled					
Advanced Options			ן			
Priority 1 0						
		(ОК	Cancel		
Static Routes						
+ Create New Clore	e 🛅 Delete					
			🝸 Interface 🌲			
T Destination 🖨	▼ Gateway 🖨	1				
Destination	Gateway	wan1				
Destination Destination	Gateway ♥ 192.168.20.254 10.100.108.129	wan1 wan2	J			
C.0.0.0/0 C.0.0.0/0 Routing Monitor C. Refresh Q. Route Lookup	Gateway Cateway	wan1 wan2	J			
C.0.0.0/0 C.0.0/0 Routing Monitor C Refresh Q Route Lookup Cubture	Cateway	wan1 wan2		V 104		
C.0.0.0/0 D.0.0.0/0 Routing Monitor C Refresh Q Route Lookup Type Subtype Static	Cateway € 192.168.20.254 10.100.108.129	wan1 wan2	/ay	T Interf		
Content C	Cateway € 192.168.20.254 10.100.108.129	wan1 wan2	ray W wa	▼ Interf n1 (Primary) n2 (Backup LTE)		
▼ Destination ◆ 0.0.0.0/0 0.0.0.0/0 Routing Monitor ♥ Refresh ♥ Route Lookup ▼ Type Subtype Static Static Static Connected	Cateway 192.168.20.254 10.100.108.129 ✓ O.0.0.0/0 O.0.0.0/0 10.100.108.128/30	wan1 wan2	ray W wa W wa W wa	T Interf n1 (Primary) n2 (Backup LTE) n2 (Backup LTE)		
▼ Destination ◆ 0.0.0.0/0 0.0.0.0/0 Routing Monitor ♥ Refresh ♥ Route Lookup ▼ Type Subtype Static Static Connected Connected Connected Connected	Cateway 192.168.20.254 10.100.108.129 Network 0.0.0.0/0 0.0.0.0/0 10.100.108.128/30 192.168.0.0/24	wan1 wan2	ay W wa W wa W wa W wa	T Interf n1 (Primary) n2 (Backup LTE) n2 (Backup LTE) n2 (Backup LTE) n2 (Backup LTE)		
▼ Destination ◆ 0.0.0.0/0 0.0.0.0/0 Routing Monitor ♥ Refresh ♥ Route Lookup ♥ Type Subtype Static Static Static Connected Connected Connected Connected Connected	Cateway 192.168.20.254 10.100.108.129 Intervention 0.0.0.0/0 0.0.0.0/0 10.100.108.128/30 192.168.0.0/24 192.168.1.0/24	wan1 wan2	ray W wa W wa W wa W wa X lan	T Interf n1 (Primary) n2 (Backup LTE) n2 (Backup LTE) n2 (Backup LTE)		

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STEP 2. e. Go to Dashboard > CLI and use command line to configure link monitors for both connections:

```
config system link-monitor
edit wan1
    (wan1) #get
        set name wan1
        set server 8.8.8.8
        set protocol ping
        set gateway-ip 192.168.20.254
        set interval 5
        set timeout 1
        set failtime 5
        set recoverytime 5
        set recoverytime 5
        set update-cascade-interface enable
        set update-static-route enable
        set status enable
        end
```

```
config system link-monitor
edit wan2
    (wan1) #get
        set name wan1
        set server 4.2.2.2
        set protocol ping
        set gateway-ip 10.100.108.129
        set interval 5
        set timeout 1
        set failtime 5
        set recoverytime 5
        set recoverytime 5
        set update-cascade-interface enable
        set update-static-route enable
        set status enable
        end
```

Your setup is now complete.

* If your connection is using Dynamic IP addresses please refer to FortiOS documentation on how to set static routes for dynamic gateways.

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