

How to configure the CM510Q-W in Fail-over Mode between NBN /ADSL and 4G

The following guide shows how to set up the CM510Q-W in failover mode between ADSL and 4G LTE, with ADSL as a Priority WAN and 4G as a Secondary WAN connection.

1. Access the GUI page by typing <u>http://192.168.1.1</u> in your browser.

Default username/password are admin/admin. By default, the WAN connection is a 4G connection generated by your Cellular ISP.

Go to Status -> Overview -> WAN Status DHCP br0 (LAN) - 192.168.1.2 - 192.168.1.51 Overview Traffic Stats. WAN **Device List** Basic Network Connection Type 868186040075473 Modem IMEI S WLAN . Modem Status Ready Cellular ISP "Telstra Mobile Telstra" Advanced Network Cellular Network LTE Band 7 S Firewall **USIM** Selected USIM Card 1 Running... USIM Status Ready VPN Tunnel . CSQ 21 -R Administration IP Address 120.157.74.83 Subnet Mask 255.255.255.248 Gateway 120.157.74.84 10.4.130.164:53, 10.4.149.70:53 DNS **Connection Status** Connected 00:00:12 **Connection Uptime**

2. Change VLAN settings of the router:

By default, the WAN port is bridged to the LAN interface of the router. You need to change the VLAN settings to un-bridge the WAN port from the LAN interface.

Go to Basic Network -> VLAN

Basic Network	*													_
WAN		VLAN												1
Gelitilar		VID ^	LAN 1	Tagged	LAN 2	Tagged	LAN 3	Tagged	LAN 4	Tagged	WAN	Tagged	Bridge	
LAN	-	-	~	×	4	×	~	×	~	×	~	×	br0	
VLAN		*	~		×.		~		~				bro	
Schedule		2	×	×	×	*	×	×	×	*	×	*	WAN	
DDNS Routing		0 7											none	٠
WLAN	\$ 1	Add+												
Advanced Network	>													
Firewall	*	Save√ Canc	1.4											

Click on VID (1) to Edit settings, Uncheck the WAN box and click OK:

VID ^	LAN 1	Tagged	LAN 2	Tagged	LAN 3	Tagged	LAN 4	Tagged	WAN	Tagged	Bridge	
1 *	~		~		~						br0	,



Click on VID (2) to Edit settings, Check the WAN box and click OK

2	•					WAN *
Delete o	CancelØ	оки				

The VLAN settings should look like this below. Click Save and apply.

Note: The router will reboot to apply new VLAN settings.

/LAN											2
VID 🔿	LAN 1	Tagged	LAN 2	Tagged	LAN 3	Tagged	LAN 4	Tagged	WAN	Tagged	Bridge
1	4	×	~	ж.	~	*	~	×		×	br0
2	*	×		*	×	*		×	1	Χ.	WAN
0 *						11				11	none

3. Change WAN connection to DHCP.

Go to Basic Network -> WAN -> DHCP and Save.

Note: The router will reboot to apply WAN settings.

Status	•		You haven't changed the default
Basic Network WAN Cellular	-	WAN / Internet	
LAN VLAN Schedule		Туре	DHCP Default 1500
DDNS Routing			
🗣 WLAN	•	Save ✓ Cancel ×	
Advanced Network	•		

4. Configure Schedule settings to set up Failover redundancy between NBN/ADSL and 4G.

Go to Basic Network -> Schedule

Note: The link names are modem for the 4G LTE interface and wan for the wired wan interface.

Status			1
😒 Basic Network 👻	Enabled Links		
WAN	Link Name	Link Type	Description
Cellular	modem	ECM/QMI	
LAN VLAN	wan	WAN(DHCP)	
Schedule			
DONS	ICMP Check		
Routing	and a second		

Set ICMP check settings to track and monitor data connection:

Link	-	WAN
Destination	-	8.8.8.8
Interval	-	20
Retries	-	3

Note: Click on the Add button to create ICMP check.

On Link	Destination	Interval	Retrie
✓ wan	8.8.8.8	20	3
4			

Set Schedule settings as below.

Link1 - wan Link2 - modem

Policy - Fail-over

Note: Click the Add button to create schedule settings.

Click on the Save button to apply changes.

	wan		modem		FAILOVER	
~	modem	۲	modem	۲	FAILOVER	
Add +						

Check the WAN connection on the Status page.
 The WAN IP address has changed from a cellular WAN IP 120.157.74.83 to an ADSL Private LAN IP 10.0.030.

Connection Status	Connected				
DNS	10.0.0.138:53				
Gateway	10.0.138				
Subnet Mask	255.255.255.0				
IP Address	10.0.30				
CSQ	22				
USIM Status	Ready				
USIM Selected	USIM Card 1 Running.				
Cellular Network	"Telstra Mobile Telstra" Band 7				
Cellular ISP					
Modem Status	Ready				
Modem IMEI	868186040086249				
Connection Type	WAN				
WAN					



6. Use tracert to check and monitor connection of the router.

As you can see on the screenshot, route goes to ADSL(Gateway IP 10.0.0.138) which is the First Priority.

Tracing route to google.com over a maximum of 30 hops:	172.217.25.46]
3 26 ms 29 ms 29 m	ns 192.168.1.1 ns dsldevice.gateway [10.0.0.138] ns gw1.vic.asp.telstra.net [203.45.255.1] ns TenGigE0-0-0-11.lon-dlr20.melbourne.telstra.net -
[203.50.233.18] 5 33 ms 28 ms 29 m [203.50.11.246]	ns bundle-ether30.exi-core10.melbourne.telstra.net
6 38 ms 36 ms 38 m 3.50.11.124] 7 35 ms 36 ms 32 m 3.50.11.177]	ns bundle-ether1.chw-edge903.sydney.telstra.net [20
8 35 ms 35 ms 33 m 9 * * * 10 34 ms 44 ms 39 m	Request timed out.