

How to Configure an xDSL WAN Connection with an Internal DSL Modem in Bridge Mode

<https://campus.barracuda.com/doc/96026004/>

In Bridge Mode, your firewall is connected to your ISP through the WAN1 interface of the DSL modem. The firewall initiates the xDSL connection. The public IP address is set via DHCP on the ppp1 interface.

Step 1. (optional) Change IP of Built-In DSL Modem

If the IP address 192.168.1.1 is already used in your internal network, change the IP to another unused address.

1. Change the IP address in **Barracuda DSL Modem** table to avoid multiple usage of the same IP address.
2. In the **DSL Modem Internal IP Address** list, enter a different IP address, e.g., 10.0.0.1



Barracuda DSL Modem	
DSL Modem Internal IP Address	192.168.1.1

3. Click **Send Changes** and **Activate**.
4. Go to **CONTROL > Box**.
5. In the left menu, expand the **Network** section and click **Activate new network configuration**.
6. Click **Failsafe**.

Step 2. Configure xDSL Connection

Set the xDSL connection according to the connection settings of your ISP provider.

1. Go to **CONFIGURATION > Configuration Tree > Box > Network**.
2. In the left menu, select **xDSL/DHCP**.
3. Click **Lock**.
4. Change settings for the **Barracuda DSL Modem** section:
 - o **DSL Mode** – Select **Bridge Mode**.
 - o **DSL DSL/WAN1 Interface** – Select enable.
5. Next to the **DSL DSL/WAN1 Settings**, click **Set**.

Barracuda DSL Modem

DSL Modem Internal IP Address	192.168.1.1	  
DSL Mode	Bridge Mode	 
DSL DSL/WAN1 Interface	enable	 
DSL DSL/WAN1 Settings	<input type="button" value="Set..."/> <input type="button" value="Clear"/> NOTSET: No section present	 

6. Configure the **General Properties**.
7. From the **Connection Type** list, select **ADSL** or **VDSL**.
8. **(optional) Configure VLAN.**
 - o **VLAN** - Select **Enable**.
 - o **VLAN ID** - Enter the VLAN ID according to the connection settings of your DSL provider.
 - o **Priority** - Enter the priority according to the connection settings of your DSL provider.
 - o **MTU** - Enter the MTU value according to the connection settings of your DSL provider.

General Properties

Connection Type	ADSL	 
VLAN	Enable	 
VLAN ID	0	 
Priority	0	 
MTU	1450	 

9. **(ADSL only) Change settings in xDSL Properties** table.
 - o **Protocol** - From the list, select **PPPoE** or **PPPoA** according to the connection settings of your DSL provider.
 - o **VCI** - Enter the value for VCI according to the connection settings of your DSL provider.
 - o **VPI** - Enter the value for VPI according to the connection settings of your DSL provider.
 - o **Encapsulation** - Enter the value for Encapsulation according to the connection settings of your DSL provider.
 - o **Modulation** - Enter the value for Modulation according to the connection settings of your DSL provider.

xDSL Properties

Protocol	PPPoE	 
VCI	0	 
VPI	0	 
Encapsulation	VC-Mux	 
Modulation	ADSL2+(G.992.5)	 

10. Click **OK**.
11. Click **Send Changes** and **Activate**.

Step 3. Network Activation

1. Go to **CONTROL > Box**.
2. In the left menu, expand the **Network** section and click **Activate new network configuration**.
3. Click **Failsafe**.

You are now connected to your xDSL ISP. Go to **CONTROL > Network**. The public IP is now on the ppp1 interface.

Interfaces/IPs	IPs	Interfaces	Proxy ARPs	ARPs	Statistics	OSPF	RIP	BGP	Switch Info	IPv6 ND Cache
Interface/IP		Label		Ping	MAC of duplicate IP					Info
dhcp										
dsl1, Speed=1000Mb/s, Duplex=Full										
192.168.10.100/24		net1		NO	-					
lo										
p1, Speed=1000Mb/s, Duplex=Full										
10.17.74.247/24		mip0		ok	-					
p2										
p3										
xDSL[ppp1]										
212.183.105.49/32				ok	-					

Figures

1. scrn_shot 01.png
2. scrn_shot 02.png
3. scrn_shot 03.png
4. scrn_shot 04.png
5. scrn_shot 05.png

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