



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

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, e.g., 10.0.0.1

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

The screenshot shows the 'Barracuda DSL Modem' configuration table. The 'DSL Modem Internal IP Address' field is highlighted with an orange border and contains the value '10.0.0.1'. There are icons for copy, paste, and refresh next to the input field.

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/ISDN**.
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**.

The screenshot shows the 'Barracuda DSL Modem' configuration table. The 'DSL Modem Internal IP Address' field contains '192.168.1.1'. The 'DSL Mode' dropdown menu is set to 'Bridge Mode' and is highlighted with an orange border. The 'DSL DSL/WAN1 Interface' dropdown menu is set to 'enable' and is also highlighted with an orange border. The 'DSL DSL/WAN1 Settings' field has a 'Set...' button highlighted with an orange border, and a 'Clear' button next to it. The text 'NOTSET: No section present' is visible next to the 'Set...' button.

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. Change **Set Timeout** to 120 seconds.
4. Click **Failsafe**.

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

Interface/IP	Label	Ping	MAC of duplicate IP	Info
dhcpc				
dsl 1. Speed=1000Mb/s, Duplex=Full				
192.168.10.100/24	net1	NO	-	
lo				
p 1. Speed=1000Mb/s, Duplex=Full				
10.17.74.247/24	mip0	ok	-	
p2				
p3				
xDSL[ppp 1]				
212.183.105.49/32		ok	-	

