

How to Configure Dynamic IPv6 WAN Connections

https://campus.barracuda.com/doc/96026014/

For IPv6 WAN connections, the CloudGen Firewall supports both prefix delegation, and stateless and stateful autoconfiguration. Unlike dynamic interfaces for IPv4 configurations, the network interface is not renamed. The name assigned to the interface during the IPv4 configuration is used. The following operation modes are supported:

- Stateful The firewall is assigned the IPv6 address via DHCPv6.
- **Stateful and Prefix delegation** The firewall is assigned the IPv6 address and a network address prefix via DHCPv6.
- Prefix delegation The firewall is assigned a network address prefix by the ISP.
- **Stateless** The interface is assigned a 64-bit prefix. The last 64 bits of the address are determined with the EUI-64 process.

Limitations

- Using the provided DNS servers may overwrite DNS servers received from the provider via DHCPv4.
- All routes for dynamic IPv6 interfaces are added to the main routing table.
- Fully transparent fail overs for high availability clusters are not possible.

Before You Begin

• Enable IPv6. For more information, see <u>How to Enable IPv6</u>.

Step 1. Configure a Dynamic IPv6 WAN Connection

- 1. Go to CONFIGURATION > Configuration Tree > Box > Network.
- 2. Click **Lock**.
- 3. In the left menu, click **xDSL/DHCP/ISDN**.
- 4. In the **DHCP Client Setup** section, click + to add an entry to the **DHCPv6 Links** table. The **DHCPv6 Links** window opens.
- 5. Enter the Name.
- 6. Click **OK**.
- 7. From the **DHCP Interface** list, select the interface the ISP is connected to.
- 8. From the **Mode of Operation** list, select the operation mode, according to the settings received by your ISP:
 - Stateful



	 Stateful and Prefi 	x delegation
	• Prefix delegation	
	 Stateless 	
	Connection Details	
	DHCP Interface	eth1
	Mode of Operation	Stateful+Prefix-delegation
0		
	•	Provider DNS list, select yes to use the DNS servers assigned by your
ISP.		
10. (optional) From the Use Provider Domain Name list, select yes to use the domain name		rovider Domain Name list, select yes to use the domain name
	assigned by your ISP.	
	Use Provider DNS	yes 💌 🗐 🗸
	Use Provider Domain Name	yes 💌 🗐
		the Prefix Delegation section, click + to add interfaces to the
	Interfaces table.	
12. (Prefix delegation only) Enter the interface name. E.g., eth0 or port1		
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±2.	• •	

13. Click Send Changes and Activate.

Step 2. Activate the Network Configuration

eth3

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

Go to **CONTROL** > **Network** to verify that the dhcp interface has been assigned an IPv6 address by your ISP.

Barracuda CloudGen Firewall



Figures

- 1. dynamic_wan_ipv6_01.png
- 2. dynamic wan ipv6 02.png
- 3. dynamic_wan_ipv6_03.png

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