

How to set up Static IPv6 on WAN and auto-configuration on the LAN

This example shows how to configure your USG's WAN as Static IPv6 and LAN interface as auto-configuration.

In this scenario :

ISP's IPv6 Address is 2001:b030:7036:1::1

ISP Provided 2001:b030:7036:1::15/64 IPv6 IP Address.

DNS Server Set as 2001:4860:4860::8888

LAN Subnet Set as 2001:b030:7036:11::/64



Setting Up the IPv6 Interfaces

Wan

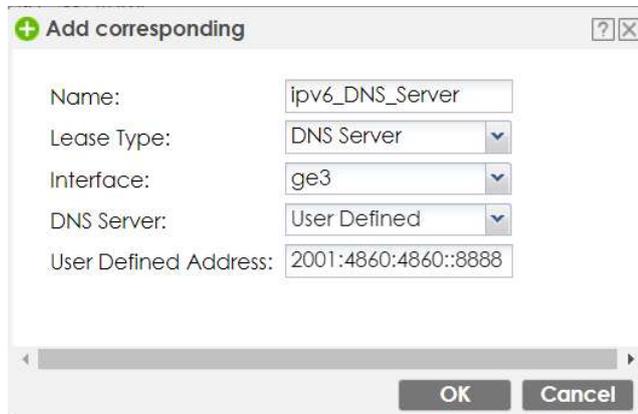
1. In the Configuration > Ethernet > IPv6 Configuration section, double-click the WAN interface you want to modify.
2. Choose IPv6 View, Enable Interface and Enable IPv6. In IPv6Address/Prefix Length text box, key in the Static IPv6 address.

The screenshot shows the 'Edit Ethernet' configuration window for a WAN interface. The window is titled 'Edit Ethernet' and has a toolbar with 'IPv6 View', 'Show Advanced Settings', and 'Create New Object'. The 'General Settings' section has 'Enable Interface' checked. The 'General IPv6 Setting' section has 'Enable IPv6' checked. The 'Interface Properties' section shows 'Interface Type' as 'external', 'Interface Name' as 'ge1', 'Port' as 'P1', 'Zone' as 'WAN', 'MAC Address' as 'BC:99:11:BA:D6:3A', and 'Description' as '(Optional)'. The 'IPv6 Address Assignment' section has 'Enable Stateless Address Auto-configuration (SLAAC)' checked, 'Link-Local Address' as 'fe80::be99:11ff:feba:d63a/64', 'IPv6 Address/Prefix Length' as '2001:b030:7036:1::15/ (Optional)', and an 'Advance' section with 'Gateway' as '2001:b030:7036:1::1 (Optional)' and 'Metric' as '0 (0-15)'. The 'OK' and 'Cancel' buttons are at the bottom right.

Section	Property	Value	Notes
General Settings	Enable Interface	<input checked="" type="checkbox"/>	
	Enable IPv6	<input checked="" type="checkbox"/>	
Interface Properties	Interface Type	external	
	Interface Name	ge1	
	Port	P1	
	Zone	WAN	
	MAC Address	BC:99:11:BA:D6:3A	
	Description		(Optional)
IPv6 Address Assignment	Enable Stateless Address Auto-configuration (SLAAC)	<input checked="" type="checkbox"/>	
	Link-Local Address	fe80::be99:11ff:feba:d63a/64	
	IPv6 Address/Prefix Length	2001:b030:7036:1::15/	(Optional)
	Gateway	2001:b030:7036:1::1	(Optional)
	Metric	0	(0-15)

Lan

1. Create IPv6 DHCP DNS Server object. (Configuration > Object > DHCPv6 > Lease > Add)



The screenshot shows a dialog box titled "Add corresponding" with a green plus icon on the left and a help icon and close button on the right. The dialog contains the following fields:

- Name: ipv6_DNS_Server
- Lease Type: DNS Server (dropdown menu)
- Interface: ge3 (dropdown menu)
- DNS Server: User Defined (dropdown menu)
- User Defined Address: 2001:4860:4860::8888

At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

In the Configuration > Ethernet > IPv6 Configuration section, double-click the LAN interface you want to modify.

2. Enable Interface and Enable IPv6.

Key in IPv6 Address/Prefix Length.

Edit Ethernet [?] [X]

IPv6 View [Show Advanced Settings] [Create New Object]

General Settings

Enable Interface

General IPv6 Setting

Enable IPv6 ⓘ

Interface Properties

Interface Type: internal ⓘ

Interface Name: ge3

Port: P3

Zone: LAN ⓘ

MAC Address: BC:99:11:BA:D6:3C

Description: (Optional)

IPv6 Address Assignment

Enable Stateless Address Auto-configuration (SLAAC)

Link-Local Address: fe80::be99:11ff:feba:d63c/64

IPv6 Address/Prefix Length: 2001:b030:7036:11::/6 (Optional)

Advanced []

Gateway: (Optional)

OK Cancel

3. Assign IPv6 DNS Server into DHCPv6 Lease Options.

Enable Router Advertisement and enable Advertised Host Get Other Configuration From DHCPv6 checkboxes.

Key in Advertised Prefix Table.

