DHCPv6 with prefix delegation on the WAN and DHCPv6 on the LAN

This example shows how to configure your ATP/USG Flex's WAN as DHCPv6 with prefix delegation and LAN interface as DHCPv6.

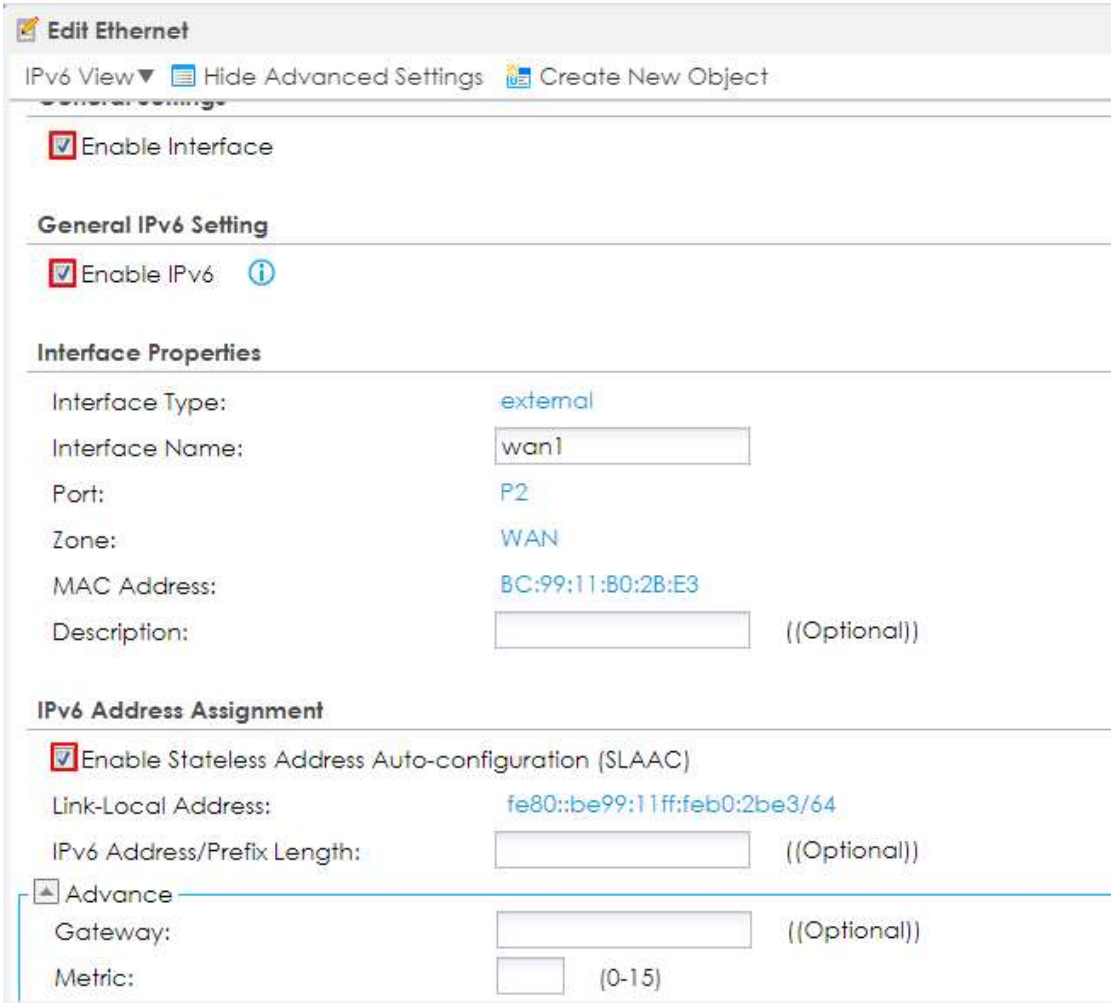
In this scenario :
Device's wan request IPv6 Address from ISP.
Request result:
DHCP -- 2001:b030:7036:1::2/128
LAN Subnet Set as **2001:b030:7036:99::1/64**

Note:
All network IP addresses and subnet masks are used as examples in this article. Please replace them with your actual network IP addresses and subnet masks. This example was tested using ATP/USG Flex (Firmware Version: 5.00)

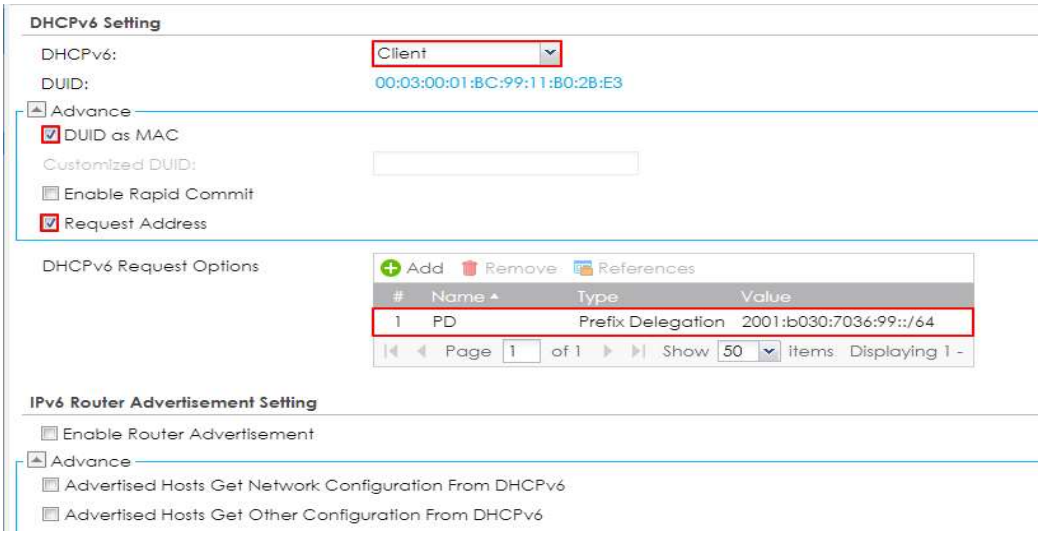
Configure on the Wan IPv6 interface

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

Choose IPv6 View, Enable Interface and Enable IPv6. In IPv6Address Assignment text box, enable Stateless Address Auto-configuration (SLAAC)

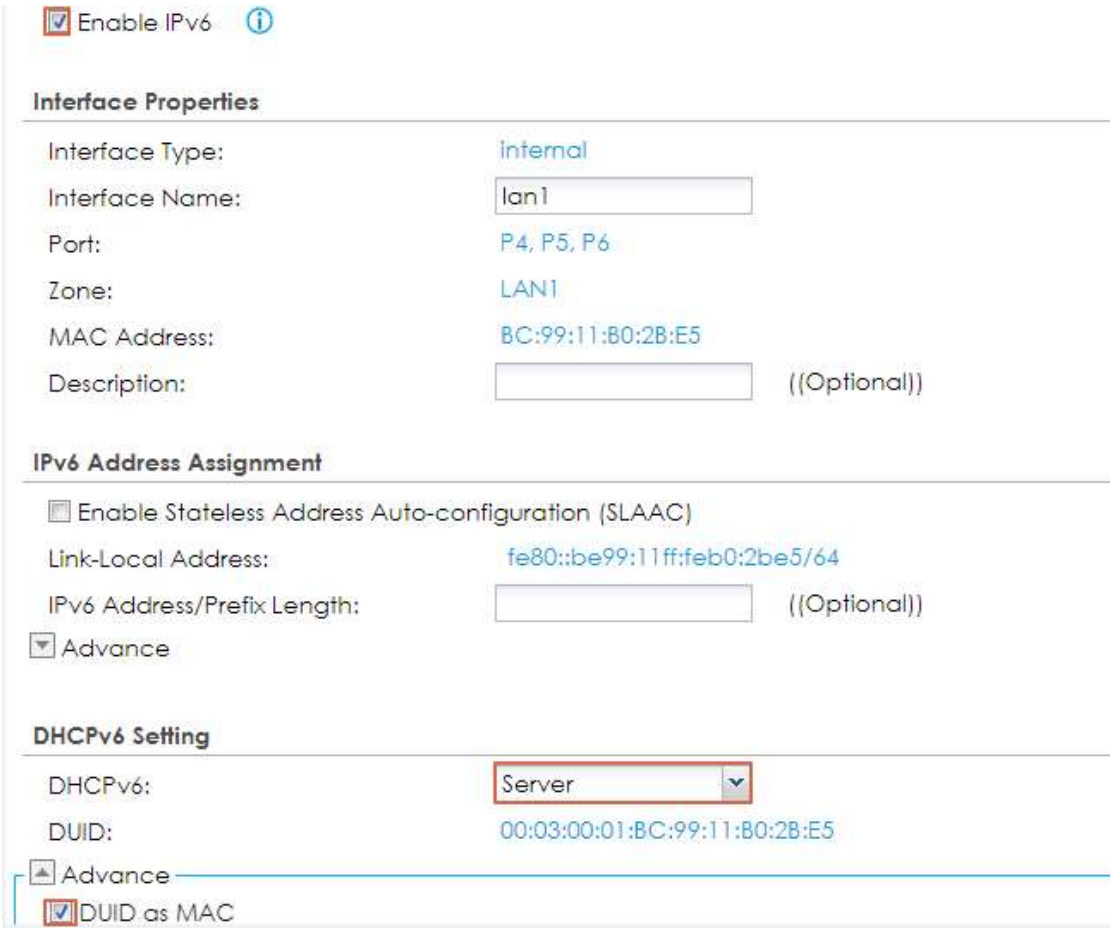


On DHCPv6, select **Client**, then Enable **DUID as MAC**, and tick **Request Address**
Next, create PD on DHCPv6 Request Options, and PD's Value:
2001:b030:7036:99::/64

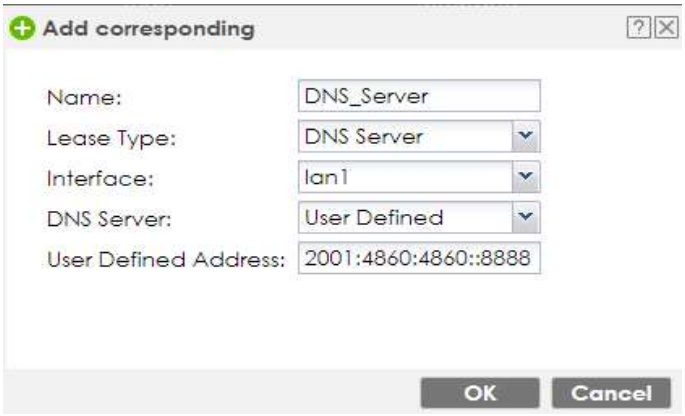


Configure on the Lan IPv6 interface

Tick Enable IPv6, then fill IPv6 address which provide from ISP:
Select **Server** as DHCPv6. Enable **DUID as MAC**.

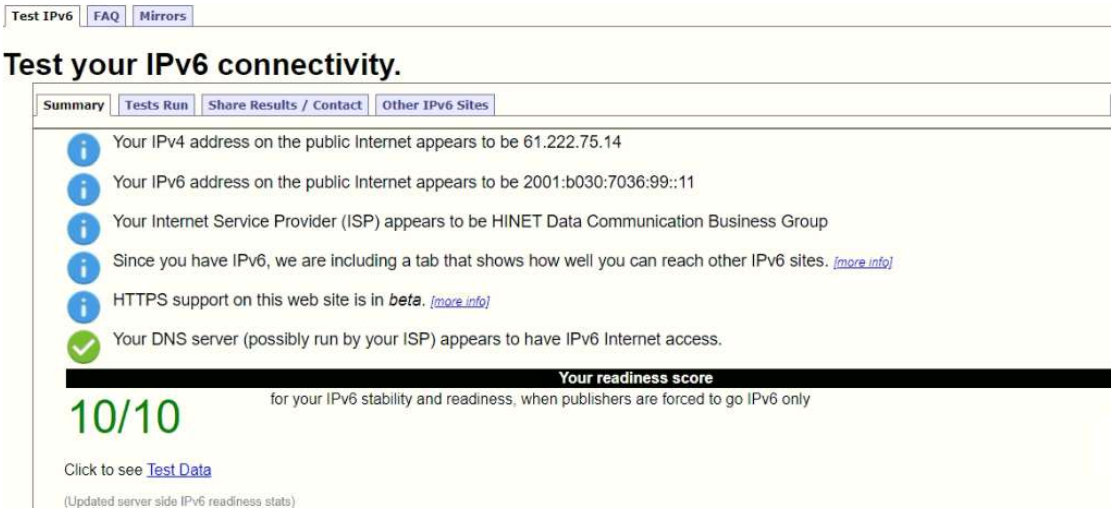


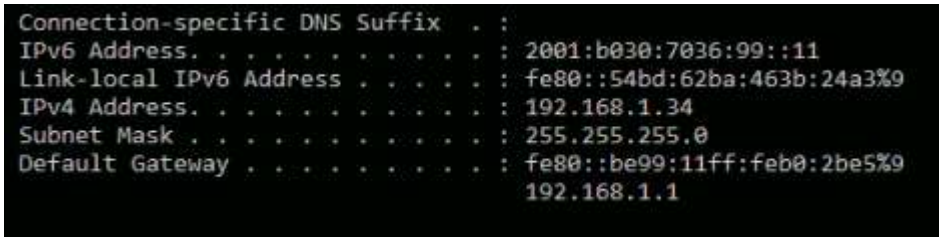
Next, On the DHCPv6 Lease Options, add **2001:4860:4860::8888** as DNS server
Add the **2001:b030:7036:99::10-2001:b030:7036:99::100** as Address Pool



On Address from DHCPv6 Prefix Delegation, fill **::1/64 as PD.**
Enable **Router Advertisement** then enable **Advertised Hosts Get Network Configuration From DHCPv6** and enable **Advertised Hosts Get Other Configuration From DHCPv6**
Note: After Save the below configuration on Lan, the **Address** on On Address from DHCPv6 Prefix Delegation will be generated automatically.

Test Result


Test IPv6
FAQ
Mirrors
Test your IPv6 connectivity.
Summary
Tests Run
Share Results / Contact
Other IPv6 Sites
Your IPv4 address on the public Internet appears to be 61.222.75.14
Your IPv6 address on the public Internet appears to be 2001:b030:7036:99::11
Your Internet Service Provider (ISP) appears to be HINET Data Communication Business Group
Since you have IPv6, we are including a tab that shows how well you can reach other IPv6 sites. [more info]
HTTPS support on this web site is in beta. [more info]
Your DNS server (possibly run by your ISP) appears to have IPv6 Internet access.
Your readiness score
for your IPv6 stability and readiness, when publishers are forced to go IPv6 only
10/10
Click to see Test Data
(Updated server side IPv6 readiness stats)


Connection-specific DNS Suffix . :
IPv6 Address. . . . . : 2001:b030:7036:99::11
Link-local IPv6 Address . . . . . : fe80::54bd:62ba:463b:24a3%9
IPv4 Address. . . . . : 192.168.1.34
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : fe80::be99:11ff:feb0:2be5%9
192.168.1.1