How to set up 6to4 on the WAN and DHCPv6 on the LAN

This example shows how to configure your ATP/USG Flex's WAN as IPv4 address and LAN interface as auto-configuration.

In this scenario:

WAN IPv4 Address is 61.222.75.17

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

LAN Subnet Set as 2002:3dde:4b11:1::/64

As Note: IPv4 must be convert to HEX, this means IP61.222.75.17 => HEX: **3d.de.4b.11**. This must be used Prefix+Hex:1/64 is IPv6 IP.



Setting Up the IPv4 Interfaces Wan

- In the Configuration > Ethernet > IPv4 Configuration section, double-click the WAN interface you want to modify.
- 2. Set a IPv4 IP address for example the below IP address is 61.222.75.17.

```
IPv4 View 🔻 🏢 Show Advanced Settings 🛛 🔠 Create New Object
```

IP Address Assignment		
© Get Automatically		
Advance		
Use Fixed IP Address		
IP Address:	61.222.75.17	
Subnet Mas <mark>k</mark> :	255.255.255.0	
Gateway:	61.222.75.254	((Optional))
Metric:	0 (0-1.5)	
Enable IGMP Support		
IGMP Upstream		
© IGMP Downstream		

3. Navigate to CONFIGURATION > Network > Interface > Tunnel > Add, Select Enable. Enter tunnel() as the Interface Name and select 6to4 as the Tunnel Mode. In the 6to4 Tunnel Parameter section, this example just simply uses the default 6to4 Prefix, 2002:://16. Enter your Relay Router's IP address (192.88.99.1 in this example). Select wan1 as the Gateway. Click OK

Add corresponding		20
Show Advanced Settings		
General Settings		
🗹 Enable		
Interface Properties		
Interface Name:	tunnel0	
Zone:	TUNNEL	
Tunnel Mode:	6to4	
IPv6 Address Assignment		
IPv6 Address/Prefix Length:	(Optional)	
Metric:	0 (0-15)	
6to4 Tunnel Parameter		
6to4 Prefix:	2002::/16	
Relay Router:	192.88.99.1 ((Optional))
DOTE: traffic destined to the	non-6to4 prefix domain tunnels to the relay router	
🐨 Advance		
Gateway settings		
My Address	C. 10	
Interface	wan Static 61.222.75.17/255.255.255.0	
© IP Address	0.0.0	
Remote Gateway Address:	Automatic	
	OK	Cancel

Lan

1. Create IPv6 DHCP Pool (Configuration > Object > DHCPv6 > Lease > Add)

Name:	DHCP_Address_	Pool	
ease Type:	Address Pool	~	
nterface:	lan1	Y	
Starting IP Address:	2002:3dde:4b11	:1::2	
End IP Address:	2002:3dde:4b11	:1::12	

2. Create IPv6 DHCP DNS Server object. (Configuration > Object > DHCPv6 > Lease

Nama			
Nome.	DNS Server	~	
Advance	Dire derver		
DNS Server:	User Defined	~	
User Defined Address:	2001:4860:4860::	8888	

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

3. Enable Interface and Enable IPv6. Key in IPv6 Address/Prefix Length: 2002:3dde:4b11:1::1/64

Edit Ethernet		
IPv6 View 🔻 📃 Hide Advanced Se	ttings 🛛 🛃 Create New Obje	ect
General Settings		
Enable Interface		
General IPv6 Setting		
Enable IPv6 ()		
Interface Properties		
Interface Type:	internal	
Interface Name:	lanl	
Port:	P3, P4, P5	
Zone:	LANT	
MAC Address:	BC:CF:4F:B7:47:F2	
Description:		((Optional))
IPv6 Address Assignment		
🔲 Enable Stateless Address Auto	-configuration (SLAAC)	
Link-Local Address:	fe80::becf:4fff:feb7:4	47f2/64
IPv6 Address/Prefix Length:	2002:3dde:4b11:1::1/	((Optional))

4. Scroll down and choose Server for DHCPv6 dropdown menu. Navigate to IPv6 Router Advertisement Setting.

5. Enable Router Advertisement, Host Get Network Configuration From DHCPv6 and Hosts Get Other Configuration From DHCPv6 checkboxes.

DHCPv6 Setting					
DHCPv6:	Serv	er 💌			
DUID:	00:03	3:00:01:BC:CF:4F:B7:47:F2	2		
Advance					
DHCPv6 Lease Options	() A	🔂 Add 🍵 Remove : 🖼 References			
	#	Name	Tvoe	Value 🔺	
	1	IPv6_DNS_server	DNS Server	2001:4860:4860::8888	
	2	DHCP_Address_Pool	Address Pool	2002:3dde:4b11:1::2	
	14	Page 1 of 1 ●	▶ Show 50	▼ items Displaying 1 -	
Dud Dautar Advadiageage Sattin	-				
Enable Router Advertisemen	nt .				
Advance					
🛛 Advertised Hosts Get Netwo	rk Configurat	ion From DHCPv6			
	C	From DUOD /			

Test Result

C:______Ping 2002:3dde:4b11:1::1 Ping 2002:3dde:4b11:1::1 (使用 32 位元組的資料): 回覆自 2002:3dde:4b11:1::1: 時間<1ms 回覆自 2002:3dde:4b11:1::1: 時間<1ms 回覆自 2002:3dde:4b11:1::1: 時間<1ms 2002:3dde:4b11:1::1: 時間<1ms