Autoconf on the WAN and DHCPv6 on the LAN

This example shows how to configure your ATP/USG Flex's WAN as Autoconf on the WAN and DHCPv6 on the LAN

In this scenario :

ISP assign the IPv6 address for wan subnet: 2001:b030:7036:1::2/64

Gateway: 2001:b030:7036:1::1

ISP assign IPv6 address for LAN Subnet: 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) Fill IPv6 address: 2001:b030:7036:1::2/64 on IPv6 Address/Prefix Length Fill IPv6 Gateway IP: 2001:b030:7036:1::1

Enable Interface	
General IPv6 Setting	
📝 Enable IPvó 🕧	
Interface Properties	
Interface Type:	external
Interface Name:	wan1
Port:	P2
Zone:	WAN
MAC Address:	BC:99:11:80:28:E3
Description:	((Optional))
Irve Address Assignment	
Enable Stateless Address Auto-	configuration (SLAAC)
Link-Local Address:	fe80::be99:11ff:feb0:2be3/64
IPv6 Address/Prefix Length:	2001:b030:7036:1::2/é ((Optional))
Advance	0001+000-700/.1-1 //Optionelli
Gateway:	2001:b030:7036:1::1 ((Optional))
Metric:	0 (0-15)
Address from DHCPv6 Prefix	🚱 Add 📲 Edit 🍵 Remove 🔚 References
Delegation	# Delegated Prefix Suffix Address Address

On DHCPv6, select Client, then Enable DUID as MAC

DHCPv6 Setting				
DHCPv6:	Client	*		
DUID:	00:03:00:01:BC:99:11	1:80:28:E3		
Advance				
Customized DUID:				
🗌 Enable Rapid Commit				
Request Address				
DHCPv6 Request Options	🔂 Add 🍵 Remov	ve 📲 Referenc	es	
	# Name -	Туре	Value	
	I A Page 0	of 0 🕨 🔰 S	now 50 💌 items No data to di	
Enable Router Advertisement				
Advertised Hosts Get Network	Configuration From DHCF	'v6		
🔲 Advertised Hosts Get Other C	onfiguration From DHCPv6			
Router Preference:	Medium	*		
Advance				
MTU:	1480 (1280-1500), 0 is disabled)		
Hop Limit:	64 (0-255, 0 is	disabled)		
Advertised Prefix Table	🔂 Add 📑 Edit 👔	Remove		
	# IPv6 Address/	Prefix Length		
	I A Page 0	of 0 🕨 🔰 Si	now 50 💌 items No data to di	

Configure on the Lan IPv6 interface

Tick Enable IPv6, then fill IPv6 address: **2001:b030:7036:99::1/64** which provide from ISP.

Select **Server** as DHCPv6. Enable **DUID as MAC**.

General Settings		
Enable Interface		
Enable IPv6 (1)		
Interface Properties		
Interface Type:	internal	
Interface Name:	lan1	
Port:	P4, P5, P6	
Zone:	LANT	
MAC Address:	BC:99:11:80:28:E5	
Description:		((Optional))
IPv6 Address Assignment		
🔲 Enable Stateless Address Auto	-configuration (SLAAC)	
Link-Local Address:	fe80::be99:11ff:feb0:	2be5/64
IPv6 Address/Prefix Length:	2001:6030:7036:99::1	((Optional))
Advance		
DHCPv6 Setting		
	Server	
DHCFV6:		
DHCPV8: DUID:	00:03:00:01:BC:99:11:	B0:28:E5

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

ame:	DNS_Server	
ease Type:	DNS Server	~
Interface:	lan1	*
DNS Server:	User Defined	~
User Defined Address:	2001:4860:4860:	8888

Next, Enable Router Advertisement, Advertised Hosts Get Network Configuration From DHCPv6 and Advertised Hosts Get Other Configuration From DHCPv6

DHCPv6 Lease Options	🖸 Add 🍵 Remove na References				
	# Name -	Туре	Value		
	1 DNS_1	DNS Server	2001:4860:4860::88		
	2 Pool	Address Pool	2001:6030:7036:99		
	I Page 1	of 1 🕨 🕨 Show 50	▼ items Displaying 1 -		
IPv6 Router Advertisement Setting					
Advertised Hosts Get Network (Configuration From DHCP	16			
Advertised Horts Cot Other Col	stiguration from DHCBut				
Adventised Hosts Get Other Cor	ninguration from Driceve				
Router Preference:	Medium				
Advance					
Advance MTU:	1480 (1280-1500	, 0 is disabled)			
Advance MTU: Hop Limit:	1480 (1280-1500 64 (0-255, 0 is d	, 0 is disabled) isabled)			
Advance MTU: Hop Limit: Advertised Prefix Table	1480 (1280-1500 64 (0-255, 0 is d	, 0 is disabled) isabled)			
Advance MTU: Hop Limit: Advertised Prefix Table	1480 (1280-1500) 64 (0-255, 0 is d Add Edit # EV6 Address//	, 0 is disabled) lisabled) 1 Remove Yrefix Length			
Advance MTU: Hop Limit: Advertised Prefix Table	1480 (1280-1500 64 (0-255, 0 is d Add Edit # IPv6 Address/7	0 is disabled) isobled) Remove Yrefix Length of 0	💌 items No data to di		
Advance MTU: Hop Limit: Advertised Prefix Table	1480 (1280-1500 64 (0-255, 0 is d Add Edit # IPV6 Address/i (< Page 0	0 is disabled) lisobled) Remove Prefix Length of 0 I I Show 50	💌 items No data to di		
Advance MTU: Hop Limit: Advertised Prefix Table Advance Advance	1480 (1280-1500 64 (0-255, 0 is d Add Edit # IPV6 Address/I 4 Page 0	0 is disabled) isobled) Remove Prefix Length of 0 B B Show 50	💌 items No data to di		
Advance MTU: Hop Limit: Advertised Prefix Table Advance Advertised Prefix from DHCPv6 Prefix Delegation	1480 (1280-1500 64 (0-255, 0 is d Add Edit # # IPV6 Address/I 4 Page 0	0 is disabled) isobled) Remove refix Length of 0 File Show 50 Remove Reference	▶ items No data to di		
Advance MTU: Hop Limit: Advertised Prefix Table Advance Advance Advertised Prefix from DHCPv6 Prefix Delegation	1480 (1280-1500 64 (0-255, 0 is d • Add Edit # IPV6 Address/I • Page 0	0 is disabled) isobled) Remove Prefix Length of 0 File Show 50 Remove Reference fix Suffix Address	items No data to di S Address		

Test Result

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