IPv6 Web GUI

Ethernet Switch

ZyNOS 4.10

Support Notes

Version 4.10 Sep 2013

ZyXEL
Unleash Networking Power

Purpose

In the old trunk version, we only supported IPv6 configuration of addressing and link-local address using CLI. Now, in the new trunk, we can configure IPv6 addressing, link-local address and DHCPv6 settings via Web GUI. This support note is going to introduce how to configure IPv6 settings through Web GUI.

Features

IPv6 Addressing: IPv6 Addressing provides the following features on the ZyNOS platform.
1. Enable / Disable IPv6
2. Configuration of an IPv6 Address.
3. Configuration of an IPv6 address with EUI-64.
4. Configuration of an IPv6 link-local address.

DHCPv6 Relay: Relay agents shall forward messages between client and server. To allow a DHCP client to send a message to a DHCP server that is not attached to the same link, a DHCP relay agent on the client's link will relay messages between the client and server.

DHCPv6 Relay description:

Interface-ID	Option Code : 18	
	Length : 4	
	Data : slotID(1byte) + PortID(1byte) + vlanID(2bytes) (same as zyxel switch dhcpv4 option82, 4 bytes)	
Relay Agent Remote-ID	Option Code : 37	
	Length : n+4	
	Data :	enterprise-number : 890 (= ZyXEL. 4 bytes, by IANA)
		remote-ID : user defined string (n bytes, n <= 64)

Scenario
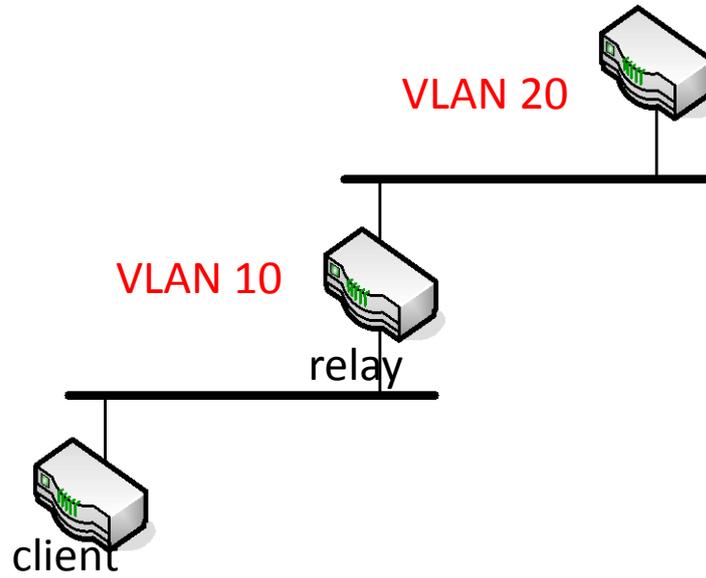
The client in VLAN10 would like to get its IP address from the server in VLAN20.

Web GUI configuration

VLAN

1. Enter the Web GUI (the default IP address: 192.168.1.1)
2. Basic setting=> VLAN
3. Setup VLAN=> Static VLAN

4. Add VLAN10 and fixed ports 1-9, 11-28 as members of VLAN10.

5. Select port 10 as a normal port.

6. Add VLAN20 and fixed port 10.

7. Set up PVID for VLAN10 and VLAN20.

IPv6 Interface

1. Add VLAN10 interface.

2. Add VLAN20 interface.
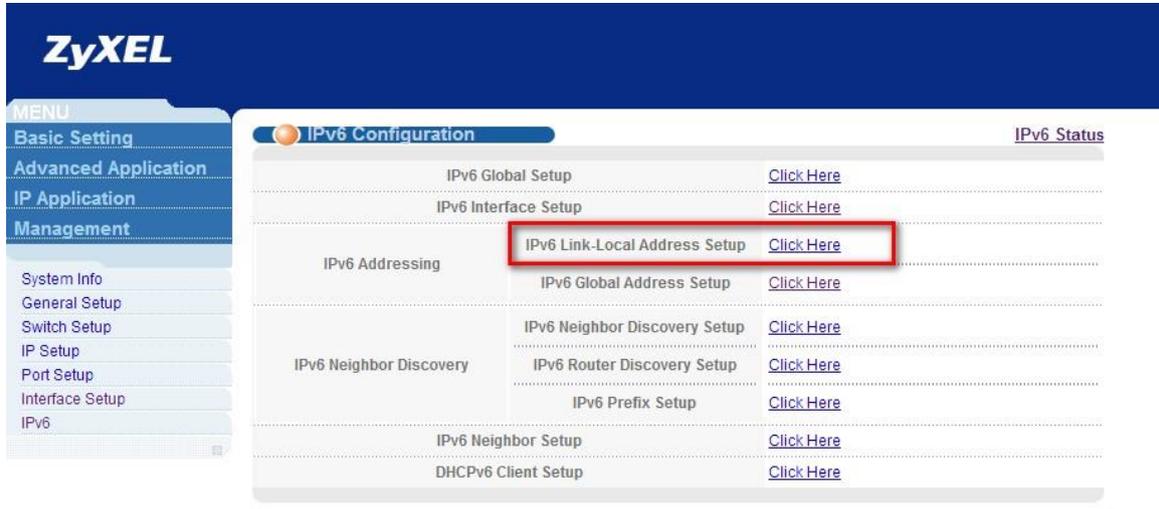

3. Enable IPv6 Interface.

4. Add IPv6 global address

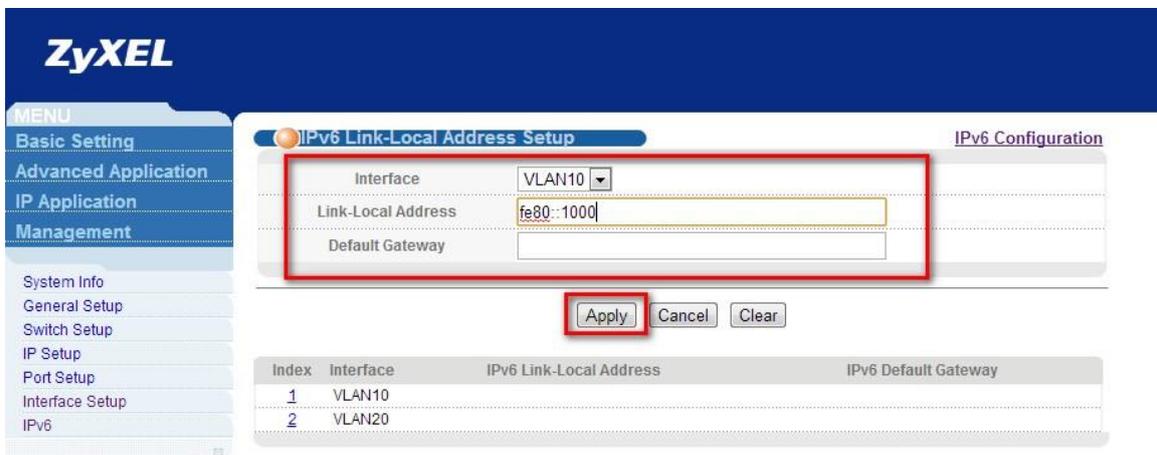5. Add IPv6 global address for VLAN10.
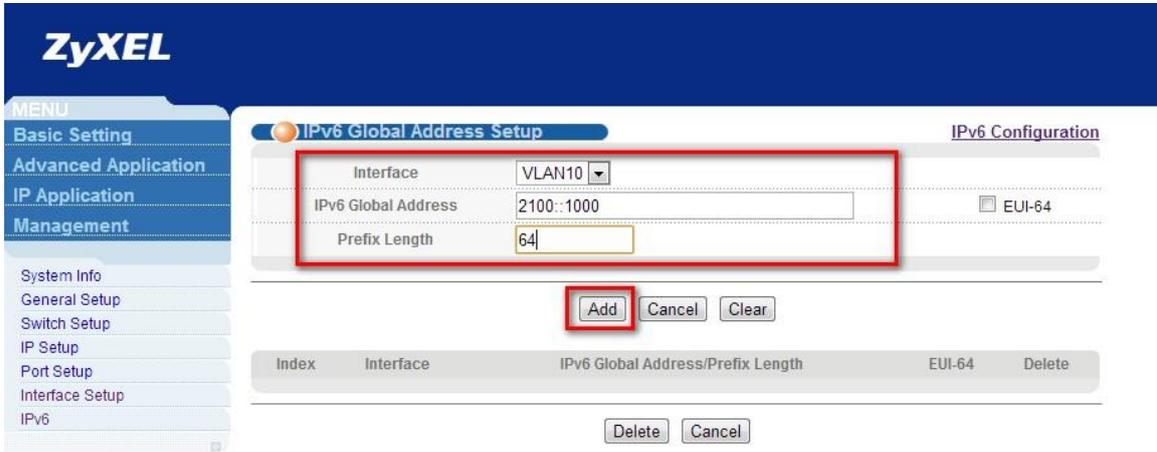
6. Add IPv6 global address for VLAN20.
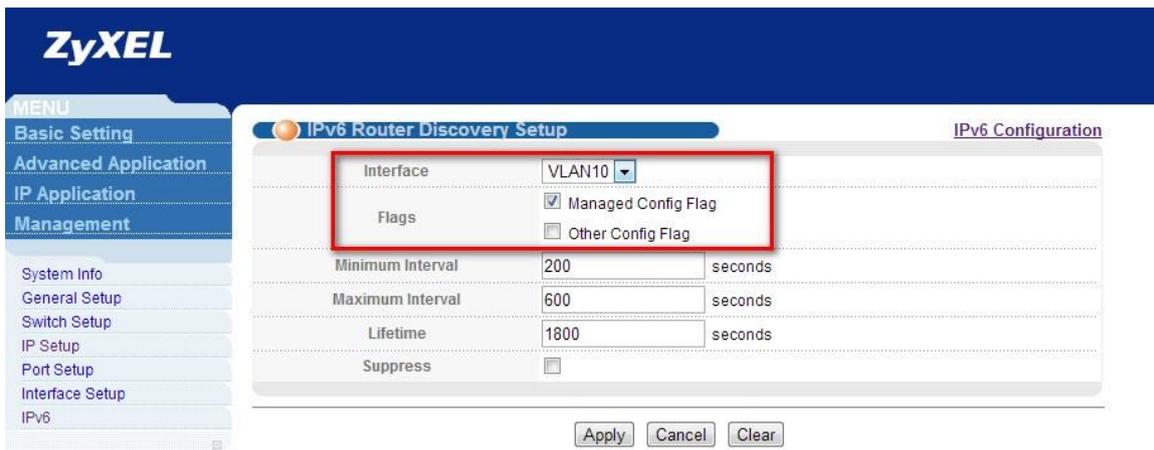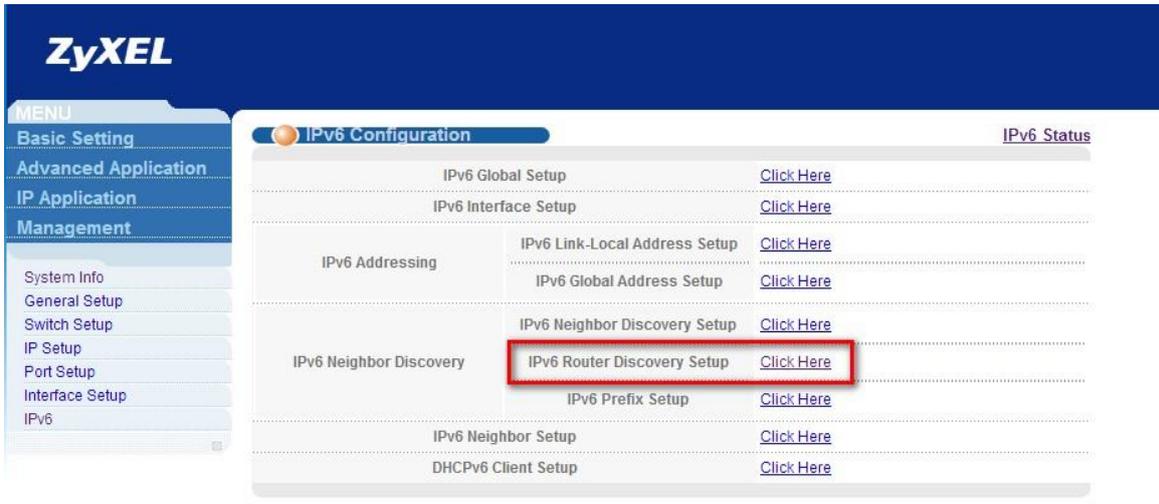
ZyXEL

7. Add IPv6 link-local address.
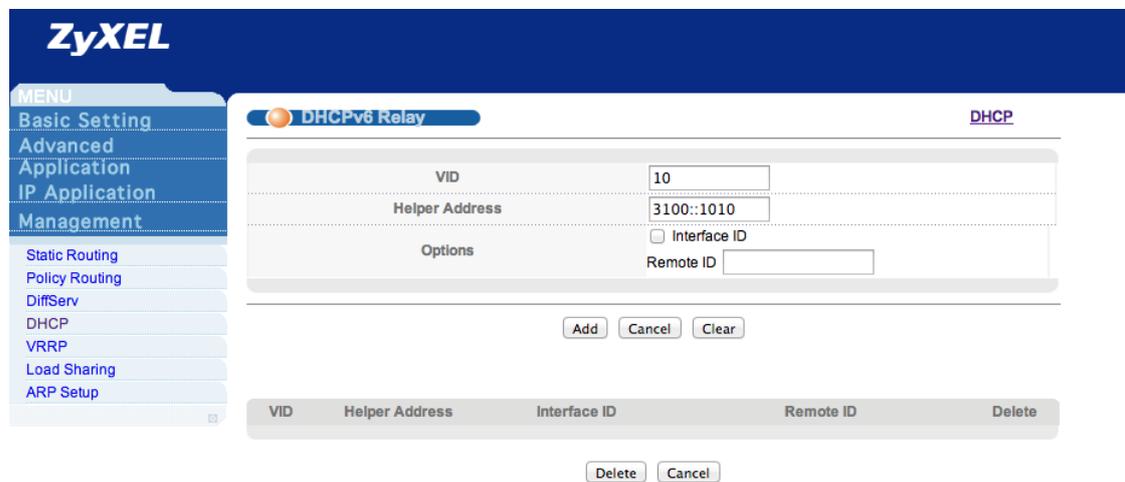

8. Add IPv6 link-local address for VLAN10.

9. Enable management config flag for VLAN10.

10. Enable DHCPv6 Relay.

11. Add the IPv6 help address for VLAN10.

Verification

Capture the DHCPv6 Relay packets out from the switch to DHCP Server to verify the configuration has been successful, as in the following figure.