IPv6
6330-MX and 6350-SR

IPv6

Difficulty level: *Intermediate*

Goal

To setup IPv6 connectivity on the Ethernet WAN of the 6350-SR, and setup a IPv6 DHCP server for client connectivity on the 6350-SR's LAN Ethernet ports and WiFi SSIDs.

Setup

You will need to establish the following details before configuring the 6350-SR.

- The IPv6 address range for the LAN network.

Sample

The following diagram shows a sample setup of a 6350-SR with an IPv6 DHCP server running on its LAN ports and WiFi, and the 6350-SR has a DHCP IPv6 connection on its WAN Ethernet port. The 6350-SR runs an IPv6 DHCP server to hand out IP addresses in the fd00:2704::/48 range, with a gateway IP of fd00:2704::1
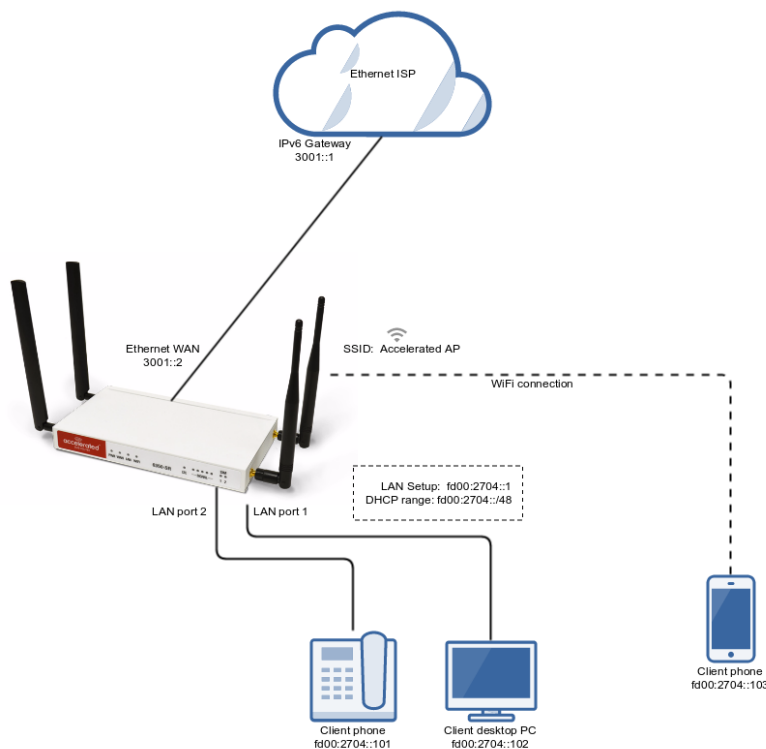
Sample Configuration

Open the configuration profile for the 6350-SR and make the following changes:

To enable the IPv6 DHCP server on the LAN and WiFi SSIDs.

1. Under *Network -> IPv6,* set the *ULA prefix* to *fd00:2704::/48*
2. Under *Network -> Interfaces -> LAN -> IPv6,* set the *Interface type* to *IPv6 prefix delegation.*
3. Under *Network -> Interfaces -> LAN -> IPv6,* set the *Prefix length* to *48.*
4. Under *Network -> Interfaces -> LAN -> IPv6,* enable the *DHCPv6 server.*
5. *Optional:* for complete LAN IPv6 connectivity without IPv4, uncheck *Network -> Interfaces -> LAN -> IPv4 -> Enable.*

To enable WAN IPv6 via DHCP.

1. Under *Network -> Interfaces -> WAN -> IPv6,* set the *Interface type* to *DHCPv6 address.*
2. *Optional:* for complete WAN IPv6 connectivity without IPv4, uncheck *Network -> Interfaces -> WAN -> IPv4 -> Enable.*