IPv6 Transition on RV016, RV042, RV042G and RV082 VPN Routers

Objective

Internet Protocol version 6 (IPv6) Transition helps hosts that belong to IPv6 networks communicate across another Internet Protocol version 4 (IPv4) network. IPv6 transition is commonly achieved by means of encapsulation of the IPv6 packets inside the IPv4 header. VPN routers use a 6to4 mechanism for IPv6 transition. This mechanism connects the internal IPv6 network with the destination IPv6 network through an IPv4 Internet or network. This mechanism involves the converting IPv6 address prefix by appending 2002, with hexadecimal format of IPv4 addresses. Then the IPv6 packets are encapsulated in IPv4 headers and sent through an IPv4 Internet or network. This document explains how to configure IPv6 transition on the RV016, RV042, RV042G and RV082 VPN Routers.

Applicable Devices

- RV016
- RV042
- RV042G
- RV082

Software Version

- v4.2.1.02

Configuration of IPv6 Transition

Note: Before the configuration of IPv6 Transition you have to change the IP mode to Dual-Stack IP, otherwise error message window appears and shows the path to change the Dual-Stack. To know how to configure Dual-Stack for IPv6, refer to the article *Configuration of Advanced IPv6 Routing on RV016, RV042, RV042G and RV082 VPN Routers*.

Step 1.Log in to the web configuration utility and choose **Setup > IPv6 Transition**. The *IPv6 Transition* page opens:

Step 2. Check the **Enable 6to4 Tunnel** check box to enable 6to4 IPv6 Transition. It establishes a tunnel for exchange of IPv6 packets addresses like IPv4 packet addresses.

Note: IPv6 Transition is enabled by default.

Step 3. Click **Save** to save the settings or click **Cancel** to undo any changes in the settings.