

IPv6 Global Configuration on Sx500 Series Stackable Switches

Objective

This document explains how to configure the ICMPv6 rate limit interval and ICMPv6 rate limit bucket size on the Sx500 Series Stackable Switches. The ICMPv6 rate limit determines the rate at which the IPv6 ICMP error messages are sent out on the network. ICMPv6 information messages help form neighbor relationship in an IPv6 network. The ICMPv6 error message mechanism is implemented with a token bucket scheme. This means that it has the ability to send the error message in a group or one at a time. Each error message on a switch is stored in a virtual bucket and the maximum number of tokens allowed in a bucket can be specified for each and every error message sent. This rate limit and bucket limit can prevent the network from having too many ICMP messages come through at one time, which can burden the network and could cause packet loss.

Applicable Devices

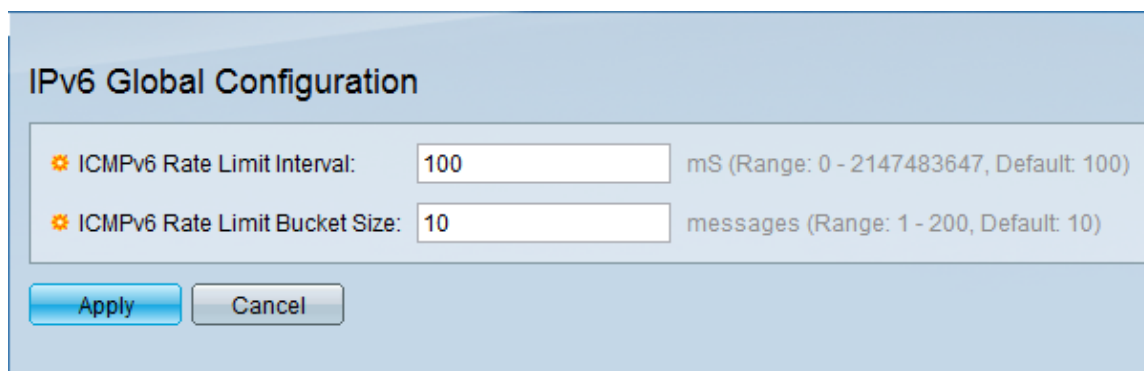
- Sx500 Series Stackable Switches

Software Version

- v1.2.7.76

IPv6 Global Configuration

Step 1. Log in to the web based configuration utility. If the switch is in Layer 2 system mode choose **Administration > Management Interface > IPv6 Global Configuration**, and if the system is in Layer 3 mode choose **IP Configuration > Management and IP Interface > IPv6 Global Configuration**. The *IPv6 Global Configuration* page opens:



IPv6 Global Configuration

✱ ICMPv6 Rate Limit Interval: mS (Range: 0 - 2147483647, Default: 100)

✱ ICMPv6 Rate Limit Bucket Size: messages (Range: 1 - 200, Default: 10)

Step 2. In the ICMPv6 Rate Limit Interval field, enter the time interval, in milliseconds, at which the ICMP error messages are produced. It should be between 0 and 2147483647. It is set as 100 by default.

Step 3. In the ICMPv6 Rate Limit Bucket Size field, enter the maximum number of ICMP error messages that can be sent per interval by the switch. It should be between 1 and 200. It is set as 10 by default.

Step 4. Click **Apply** to save the configuration.