Interconnection between Multiple PoE Switches

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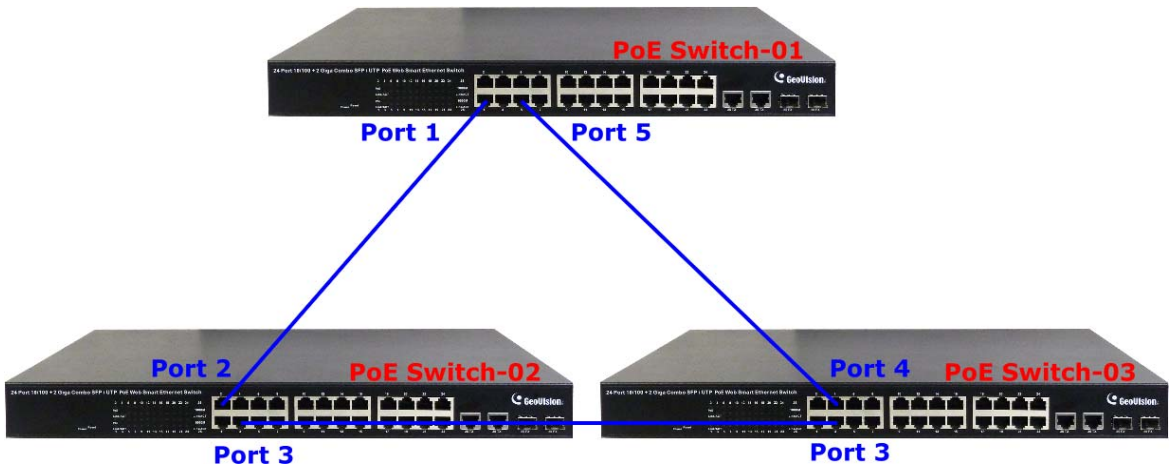
Applied to

GV-POE0801 / 1601 / 2401
GV-POE0811 / 1611 / 2411

Issue

When multiple PoE Switches are interconnected, the network connection fails and all of the switches are unable to function due to the multicast of network traffic.

For example, under the looping of 3 units of GV-POE2401 as illustrated below, when any one of the PoE Switches tries to connect to the network, all the switches encounter system failure.



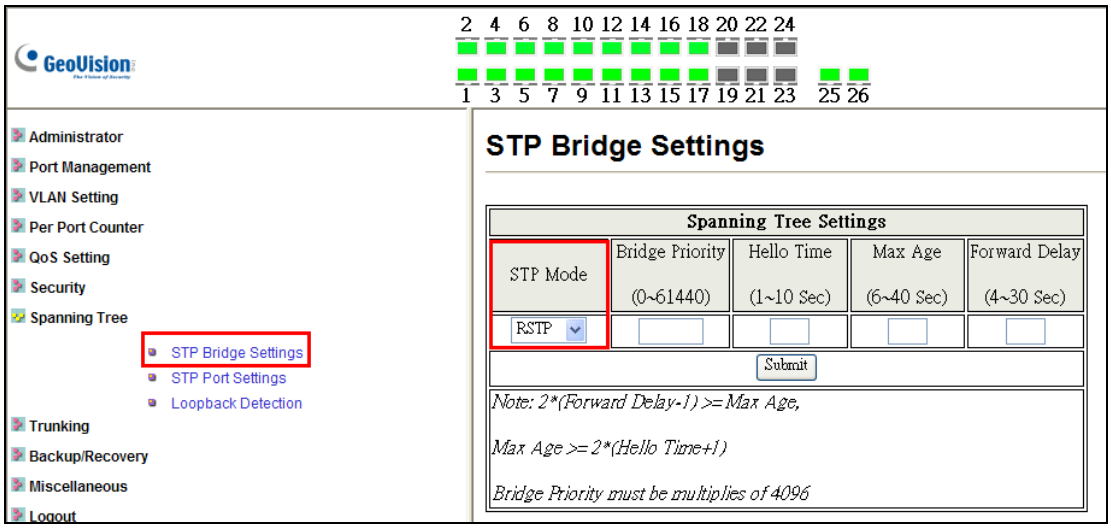
Solution

To ensure the network connection with the looping of PoE Switches, you need to configure each switch to enable the RSTP (Rapid Spanning Tree Protocol) for the ports connected to other switches. For instance, in the case illustrated in the earlier section, you need to enable the RSTP for Port 1 and 5 of PoE Switch 1, Port 2 and 3 of PoE Switch 2 and Port 3 and 4 of PoE Switch 3.

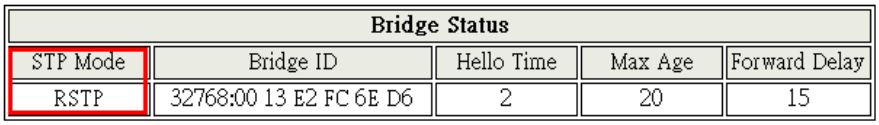
For GV-POE0801 / 1601 / 2401

To enable the RSTP and configure the STP port settings, follow the steps below. Here we use GV-POE2401 as an example.

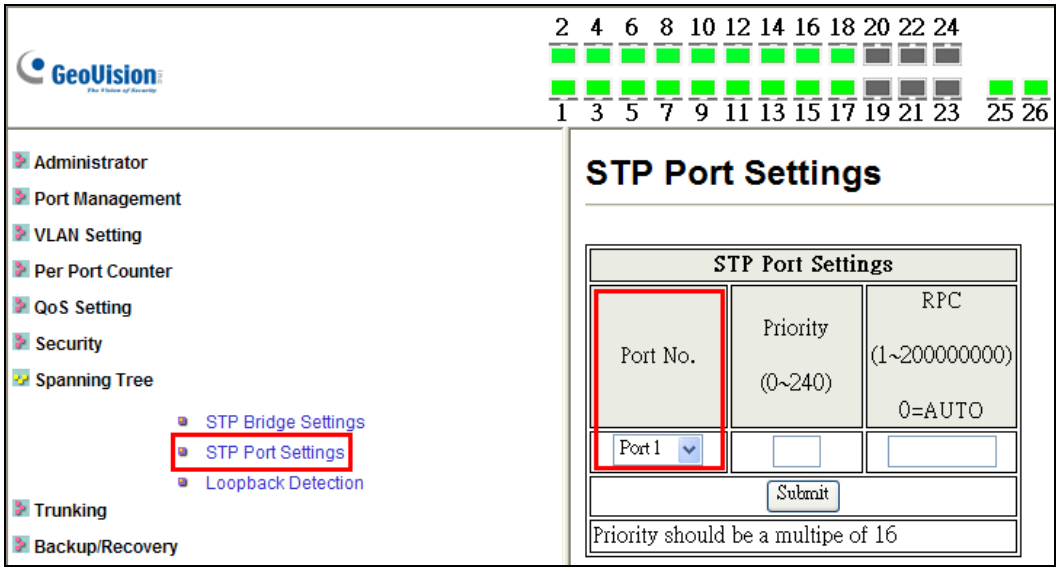
1. Open the Web browser and log into the Web interface of your GV-POE Switch.
2. On the main page, click **Spanning Tree** and select **STP Bridge Settings**.



3. In the STP Mode column, select **RSTP** and click **Submit** to apply. Under the Bridge Status, the STP Mode displays **RSTP** upon successful settings.



4. Under Spanning Tree, select **STP Port Settings**.



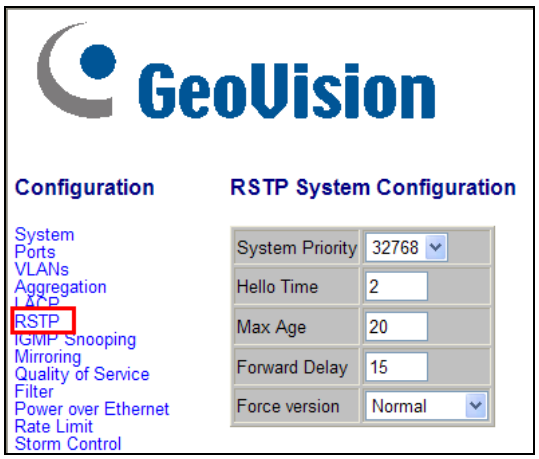
5. In the **Port No.** column, select the port number in use and click **Submit** to apply. Repeat this step until you have configured the STP port settings for all the connected ports.

Note: After submitting the settings each time, you will be prompted to reboot the device to apply the configuration.

For GV-POE0811 / 1611 / 2411

To enable the RSTP for specific ports, follow the steps below. Here we use GV-POE2411 as an example.

1. Open the Web browser and log into the Web interface of your GV-POE Switch.
2. On the main page, select **RSTP** under Configuration.



3. In the **Protocol Enabled** columns, tick the boxes for the ports in use and click **Apply**.