

Ethernet Switch Setup for Q-Sys

Extreme Summit

Issue date: 16 December, 2014

Firmware:

These setup procedures were developed on the Summit X450e-24t model running version 12.1.1.4 system software. The procedures should work for the following Extreme Networks switches:

Summit X440-8t	Summit X440-48p	Summit X460-24t
Summit X440-8p	Summit X440-24t-10G	Summit X460-24p
Summit X440-24t	Summit X440-24p-10G	Summit X460-48t
Summit X440-24p	Summit X440-48t-10G	Summit X460-48p
Summit X440-48t	Summit X440-48p-10G	

Setup

1. You must use the console serial connection to set up the switch. Use PuTTY, HyperTerminal or other terminal emulation software. Use a null-modem cable and 9600, n, 8, 1 line settings with XON/XOFF flow control.
2. The switch will ask for login and password. The default login is admin. The default password is blank, so just press **Enter**.
3. If the switch had been previously configured for a different use, it can be restored to factory defaults. To do so, type `unconfigure switch all` and then press **Enter**. The switch will ask you for confirmation before it reboots.
4. After reboot and login, an unconfigured switch will ask several questions. The default answer for each question—**No**—is an acceptable configuration starting point.
5. Type `disable igmp snooping` and then press **Enter**.
6. Assigning an IP address for management is optional. To do so, type `configure vlan default ipaddress <ip address> <subnet mask>` and press **Enter**.
7. Enabling the web interface is also optional (and it requires assigning an IP in Step 6). To do so, type `enable web http` and then press **Enter**.

8. Connect to the switch through any of the front-panel Ethernet jacks and establish a telnet connection to continue configuration.
9. Q-Sys requires DSCP, so enable DSCP examination of incoming frames; at the command line, type `enable diffserv examination port all`, and then press **Enter**.
The switch may respond with a message warning that doing so will cause dot1p replacement of 802.1q tagged packets. You may disregard the warning and carry on.
10. By default, the switch enables 802.1p-based Quality of Service (QoS), which must be disabled. Type `disable dot1p examination ports all` and then press **Enter**. The switch may respond again with a warning message, which you may disregard and carry on.
11. Assign highest priority QP8 to clock traffic by typing `configure diffserv examination code-point 46 qosprofile qp8` and then press **Enter**.
12. Assign QP5 to Q-Sys audio; type `create qosprofile qp5` and press **Enter**. Next, type `configure diffserv examination code-point 34 qosprofile qp5` and press **Enter**.
13. Type `save` and press **Enter**. Once these settings are saved, the switch will confirm that the old ones have been overwritten.