



Switch Configuration Example for Q-SYS™ Platform

Alaxala 2500 Series

Important Note

This switch configuration example is intended to serve as a network setup guideline for systems using only Q-LAN audio streaming within your Q-SYS system and should be used alongside the [Q-SYS Q-LAN Networking Overview](#) tech note for deeper setup insight. Keep in mind that QSC is unable to provide live network configuration support for third-party switch configuration. To learn more about network switch qualification services and the plug-and-play Q-SYS NS Series preconfigured network switches, visit <http://www.qsc.com/switches>.

This document applies to these Alaxala switches:
2500 Series

Introduction

As of release 5.3.x, Q-SYS Designer software now supports AES67-standard interoperability. The AES67 standard does not prescribe a method of discovery for devices so manufacturers are free to implement one or more discovery services for their devices. In this configuration document, the process uses Bonjour as the discovery method for AES67 devices.

Q-SYS Designer now also offers a selection of Differential Services Code Point (DSCP) setting presets to optimize Quality of Service (QoS) for different types of deployment. DSCP codes are a six-bit value placed in the IP header of data packet, and they instruct a network switch to handle various types of data with defined levels of priority that ensure proper QoS.

Configuration

Initial configuration requires a serial terminal connection to the console port through a null modem cable. Use communication settings of 9600,n,8,1. All required Q-SYS configuration can be done through this initial session. Enter the following commands to configure the switch.

1. Press **Enter**. The login prompt will appear.
2. Type the default user name **operator** and press **Enter**.
3. At the **A >** prompt type **enable** and press **Enter**. This will log you into the switch's privileged EXEC mode.

4. Restoring the switch to its factory default settings is optional but recommended if the switch is not brand new. If you don't need to restore the switch to factory default settings, skip ahead to Step 5.
 - A. Type **erase startup-config** and press **Enter**. Press **Y** to accept erasing the startup configuration.
 - B. Type **reload** and press **Enter**. Press **Y** to accept rebooting the switch with factory default settings.
 - C. Restart the configuration at Step 1.
5. Type **config** and press **Enter**. This enters the switch's configuration mode.
6. This step is optional but it might make future switch configuration easier over the network: Assign an IP address and enable telnet access for configuration and management. Type these commands and press **Enter** at the end of each line.

```
interface vlan 1
ip address <ip address> <netmask>
exit
line vty 0 1
exit
```

Configure QoS

1. This step defines the Q-SYS QoS specifications. Type these commands and press **Enter** at the end of each line.

```
ip qos-flow-list Q-SYS
10 qos ip any any dscp ef action cos 6
20 qos ip any any dscp af41 action cos 5
30 qos ip any any dscp default action cos 0
exit
```

2. Assign QoS classifications to all ports. As many as 42 ports may be configured for use with Q-SYS. Remaining ports may be used for other network applications. To conserve classification resources do not configure the unused ports.¹ Type these commands and press **Enter** at the end of each line.

```
interface range gigabitethernet 0/1-50
flowcontrol send off
ip qos-flow-group Q-SYS in
exit
interface range tengigabitethernet 0/51-52
flowcontrol send off
ip qos-flow-group Q-SYS in
exit
```

Save and Exit

1. Type **save** and press **Enter**.
2. Type **exit** and press **Enter**.

The switch is now ready for use with Q-SYS.

Notes

1. The 2500 series QoS classification resources are limited. As many as 42 ports may be configured for use with Q-SYS. Remaining ports may be used for other network applications, but to conserve classification resources they should not be assigned QoS.