



Switch Configuration Example for Q-SYS™ Platform

Allied Telesis x510 and x610 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 Allied Telesis switches:
AT-x510-28GTX | AT-x510-28GPX | AT-x510-52GTX | AT-x510-52GPX

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.

Initial Configuration

Configure the switch via serial terminal connection to the console port. A null modem cable and 9600,n,8,1 line settings are required. A null modem cable is included with each switch.

1. Press **Enter** to get the prompt **awplus login:**
2. Type **manager** and then press **Enter**.
3. At the **password:** prompt, type **friend**

- Optional: clear configuration to factory defaults (press **Enter** at the end of each line)

```
enable
erase startup-config
reboot
```

Press **y** to restart the switch.

- Enter configuration mode (press **Enter** at the end of each line)

```
enable
configure terminal
```

- Optional: Assign a management IP address to the switch (press **Enter** at the end of each line)

```
interface vlan1
ip address <IP address>/<prefix length>
exit
```

- Type **mls qos enable** and press **Enter** to enable QoS.

- Create traffic class for Q-LAN synchronization messaging (press **Enter** at the end of each line)

```
class-map Q-LAN-clock
match dscp 46
exit
```

- Create traffic class for Q-LAN audio data (press **Enter** at the end of each line)

```
class-map Q-LAN-audio
match dscp 34
exit
```

- Map Q-LAN traffic to QoS classes (press **Enter** at the end of each line)

```
mls qos map premark-dscp 34 to new-cos 5
mls qos map premark-dscp 46 to new-cos 7
```

- Create QoS policy for Q-LAN (press **Enter** at the end of each line)

```
policy-map Q-LAN
trust dscp
class Q-LAN-audio
exit
class Q-LAN-clock
exit
exit
```

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12. Assign Q-LAN QoS policy to all switch ports (press **Enter** at the end of each line)

```
interface port1.0.1-1.0.26
service-policy input Q-LAN
exit
```

13. Exit configuration mode and save changes (press **Enter** at the end of each line)

```
exit
copy running-config startup-config
```



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