



Switch Configuration Example for Q-SYS™ Platform

Brocade ICX6430 and ICX6450

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 Brocade switches:
ICX6430 | ICX6450

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.

Configure the switch through a serial terminal connection to the console port, which requires a Cisco-style RJ45 to DB9 cable. Use 9600,n,8,1 line settings. All configuration parameters required for Q-Sys are accessible this way.

Restore Factory Defaults (optional)

If the switch had been configured previously for a different use, you may restore it to factory defaults.

1. Type **enable** and press **Enter** to go into privileged mode.
2. Type **erase startup-config** and press **Enter** to restore factory default configuration.
3. Type **reload** and press **Enter**. Press **Y** to reboot the switch.

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Enter Configuration Mode

1. Type **enable** and press **Enter** to go into privileged mode.
2. Type **configure terminal** and press **Enter** to go into configuration mode.

Management Setup (optional)

Type **address <IP address> <subnet mask>** and press **Enter** to set IP address

Enable Web Interface (optional)

1. Type **crypto-ssl certificate generate** and press **Enter** to generate the security certificate.
2. Type **username <login> password <password>** and press **Enter** to specify the login and password for remote web access.
3. Type **aaa authentication login default local** and press **Enter** to enable remote login.
4. Type **aaa authentication web-server default local** and press **Enter** to enable the web interface.

QoS Setup

1. Type **qos mechanism strict** and press **Enter** to use strict priority queueing for all ports.
2. Type **interface ethernet 1/1/1 to 1/1/<last access port>** and press **Enter** to go into configuration mode for the access ports. The last access port is 24 for the models ICX6540-24 and ICX6430-24, and 48 for the ICX6540-48 and ICX6430-48.
3. Type **trust dscp** and press **Enter** to enable DiffServ QoS.
4. Type **exit** and press **Enter** to exit configuration mode for the access ports.
5. Type **interface ethernet 1/2/1 to 1/2/4** and press **Enter** to go into configuration mode for the uplink ports.
6. Type **trust dscp** and press **Enter** to enable DiffServ QoS.
7. Type **exit** and press **Enter** to exit configuration mode for the uplink ports.

Save Configuration

1. Type **write memory** and press **Enter** to store the settings in non-volatile memory.
2. Type **exit** and press **Enter** to exit configuration mode.



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