





Switch Configuration Example for Q-SYS<sup>™</sup> Platform Hewlett Packard Enterprise Aruba 2930F-24G-PoEP-4SFP

## **Important Note**

This switch configuration example is intended to serve as a network setup guideline for systems using Q-LAN audio and video 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 this HPE switch: Aruba 2930F 24G

# 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.





# Selecting QoS presets in a Q-SYS design file

Design Properties	X
PTPv2 Domain	Default (0) 🔹
PTP Priority	100
QoS Preset	QLAN •
PTPv2 DSCP Value	46
Audio DSCP Value	34
Camera DSCP Value	26

- In Q-SYS Designer, open the design. Make sure it is disconnected from the Core processor (press F7 or select File > Disconnect).
- 2. Select File > Design Properties.
- 3. Select the appropriate QoS preset (See specification table below.)





## **Specifications**

Preset	Q-LAN	Audinate	Manual
Use for:	<ul> <li>Q-LAN-only network</li> </ul>	<ul> <li>DANTE-only network</li> </ul>	• If custom DSCP settings are necessary
	<ul> <li>Q-LAN + AES67 network</li> </ul>	<ul> <li>DANTE + Q-LAN network</li> </ul>	
		• DANTE + Q-LAN + AES67 network	
QoS class assigned:	PTPv2: 46	PTPv2: 56	PTPv2: 56
	Audio: 34	Audio: 46	Audio: 46
	Camera: 26	Camera: 26	Camera: 26

1. Leave the PTPv2 Domain and PTP Priority settings at default. Click **OK**.

2. To save the settings, press F5 or select File > Save to Core & Run.

# Configuring the network switch for Q-SYS

### NOTE: This setup procedure is valid for the Hewlett Packard Enterprise (HPE) Aruba 2930F 24G PoEP 4SFP switch. We

recommend configuring the switch via the console connection using its CLI because not all the necessary options are available in the Web GUI. To complete this procedure you must be familiar with Aruba commands.

This procedure was developed using a switch with firmware version **WC.16.07.0002** and boot ROM version **WC.16.01.0004**. *Make sure the switch has the latest firmware version before you start configuring it.* 

Configuring the switch requires these items:





- Computer with an available USB port
- DB9 to USB serial adaptor

Switch console cable (not supplied with the switch)







PuTTY terminal software (or equivalent)

Before starting, use the console cable and adaptor to connect the computer to the switch's console port.





Verify that Windows recognizes the USB-to-serial adapter. In Windows, open Device Manager (In Windows 10, you can find it by typing **device** manager into the Cortana text box). Expand Ports (COM & LPT); the USB-to-serial comm port adapter should be listed there.

If the adapter does not appear, try these remedies:

- Plug the USB-to-serial adaper directly into the computer, to bypass any USB hubs.
- Download and install the latest drivers for the USB-to-serial adapter.
- If you are using virtualization, make sure that the USB devices are configured to connect to the virtual machine. If you still have problems with the USB connections, try running the computer without any virtualization (i.e., "bare metal").
- See if any Windows updates are queued. If there are, apply them and reboot the computer.
- Check security settings and any security software for issues that might prevent functioning of the USB devices.

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File Action View Help
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> Audio inputs and outputs
> 😹 Batteries
> 🚯 Bluetooth
> 🛄 Computer
> 👝 Disk drives
> 🌆 Display adapters
> 🖉 DVD/CD-ROM drives
> 🎬 Firmware
> 🛺 Human Interface Devices
> 📹 IDE ATA/ATAPI controllers
> 🝙 Imaging devices
> 🏣 Intel(R) Dynamic Platform and Thermal Framework
> 🥅 Keyboards
> II Mice and other pointing devices
> 🧾 Monitors
> 🚍 Network adapters
🗸 🛱 Ports (COM & LPT)
Prolific USB-to-Serial Comm Port (COM4)
> 🚍 Print queues



🐣 Device Manager



1. When the computer properly recognizes the USB-to-Serial Comm Port, open PuTTY. The PuTTY Configuration window will open first.

dware Options		
Device Memory Processors Hard Disk (SCSI) CD/DVD (SATA)	Summary 4 GB 1 60 GB Using file C:\Downloads\ISO\MS_Se Bridged (Automatic)	Connections USB compatibility: USB 2.0 Automatically connect new USB devices Show all USB input devices Share Bluetooth devices with the virtual machine
USB Controller	Present	
)) Sound Card	Auto detect	
Printer	Present	
Display	Auto detect	

Session	Basic options for your F	PuTTY session
<ul> <li>Logging</li> <li>Logging</li> <li>Lerminal</li> <li>Keyboard</li> <li>Bell</li> <li>Features</li> <li>Window</li> <li>Appearance</li> <li>Behaviour</li> <li>Translation</li> <li>Selection</li> <li>Colours</li> <li>Connection</li> <li>Data</li> <li>Proxy</li> <li>Telnet</li> <li>Rlogin</li> <li>SSH</li> <li>Serial</li> </ul>	Specify the destination you want to Serial line COM4 Connection type:	connect to Speed 38400
	Load, save or delete a stored sess Saved Sessions Default Settings Com4	Load
		Delete
	Close window on exit.	Only on clean exit

- 2. At Connection type, select Serial.
- 3. At **Serial line**, select the COM port that the USB-to-serial adapter is connected to (as displayed in Device Manager).

At **Speed**, enter any number from **1200** to **115200**. The switch will sense the connection speed automatically.

- 4. Optional: If you wish to save these session settings, enter a name for them in **Saved Sessions** and then click **Save**.
- 5. Click Open.

6. A terminal window will open as the session begins. If there is no prompt, press Enter.

#### 7. At the prompt, type **enable** and press **Enter**.

#### 8. Type config t and press Enter.

The first steps will be to configure DSCP mapping for Quality of Service (QoS). The mapping for Q-SYS-only traffic is slightly different than for Q-SYS plus Audinate (AES67).



### **Q-SYS DSCP Mapping**

PTPv2 DSCP 46 (EF) = Highest Priority Queue Q-LAN Audio DSCP 34 (AF41) = 2nd Highest Priority Queue Q-LAN Video DSCP 26 (AF31) = 3rd Highest Priority Queue

### **Audinate DSCP Mapping**

PTPv2 DSCP 56 (CS7) = Highest Priority Queue Q-LAN Audio DSCP 46 (EF) = 2nd Highest Priority Queue Q-LAN Video DSCP 26 (AF31) = 3rd Highest Priority Queue Dante reserved DSCP 8 (CS1) = 3rd (or lower 4th) Highest Priority Queue

9. At the prompt, type each of these commands and press Enter at the end of each line:

# For Q-SYS only

Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 0 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 1 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 2 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 3 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 4 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 5 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 6 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 7 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 8 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 9 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 10 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 11 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 12 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 13 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 14 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 15 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 16 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 17 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 18 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 19 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 20 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 21 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 22 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 23 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 24 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 25 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 26 priority 5 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 27 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 28 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 29 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 30 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 31 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 32 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 33 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 34 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 34 priority 6 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 35 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 36 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 37 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 38 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 39 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 40 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 41 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 42 priority 0

# For Audinate + Q-SYS

Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 0 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 1 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 2 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 3 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 4 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 5 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 6 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 7 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 8 priority 5 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 9 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# **gos dscp-map 10** priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 11 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 12 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 13 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 14 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 15 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 16 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 17 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 18 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 19 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 20 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 21 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 22 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 23 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 24 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 25 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 26 priority 5 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 27 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 28 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 29 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 30 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 31 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 32 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 33 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 34 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 34 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 35 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 36 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 37 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 38 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 39 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 40 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 41 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 42 priority 0



### For Q-SYS only (continued)

Aruba-2930F-24G-PoEP-4SFP(config)# <b>qos</b>	dscp-map	43	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# <b>qos</b>	dscp-map	44	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# <b>qos</b>	dscp-map	45	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# <b>qos</b>	dscp-map	46	priority	7
Aruba-2930F-24G-PoEP-4SFP(config)# qos	dscp-map	47	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# qos	dscp-map	48	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# <b>qos</b>	dscp-map	49	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# qos	dscp-map	50	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# <b>qos</b>	dscp-map	51	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# qos	dscp-map	52	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# qos	dscp-map	53	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# qos	dscp-map	54	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# qos	dscp-map	55	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# <b>qos</b>	dscp-map	56	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# qos	dscp-map	57	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# <b>qos</b>	dscp-map	58	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# qos	dscp-map	59	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# qos	dscp-map	60	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# qos	dscp-map	61	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# <b>qos</b>	dscp-map	62	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# <b>qos</b>	dscp-map	63	priority	0
Aruba-2930F-24G-PoEP-4SFP(config)# exit	E .			
Aruba-2930F-24G-PoEP-4SFP# wr mem				

## For Audinate + Q-SYS (continued)

Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 43 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 44 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 45 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 46 priority 6 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 47 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 48 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 49 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 50 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 51 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 52 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 53 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 54 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 55 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 56 priority 7 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 57 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 58 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 59 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 60 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 61 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# qos dscp-map 62 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# gos dscp-map 63 priority 0 Aruba-2930F-24G-PoEP-4SFP(config)# exit Aruba-2930F-24G-PoEP-4SFP# wr mem

10. Aruba switches allow you to configure multiple interfaces (ports) simultaneously on the command line interface. Enable these parameters on all ports on the switch. Then save the configuration to memory with a **write mem** command.

flow-control qos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port

11. This completes configuration of the switch. To check the current running configuration, at the prompt type **show run structured** and press **Enter**. The displayed configuration should be this:

spanning-tree 13 admin-edge-port

#### Running configuration:

	spanning-tree 14 admin-edge-port
; JL261A Configuration Editor; Created on release #WC.16.07.0002	spanning-tree 15 admin-edge-port
; Ver #14:01.4f.f8.1d.9b.3f.bf.bb.ef.7c.59.fc.6b.fb.9f.fc.ff.ff.37.ef:02	spanning-tree 16 admin-edge-port
hostname "Aruba-2930F-24G-PoEP-4SFP"	spanning-tree 17 admin-edge-port
module 1 type jl261a	spanning-tree 18 admin-edge-port
spanning-tree 1 admin-edge-port	spanning-tree 19 admin-edge-port
spanning-tree 2 admin-edge-port	spanning-tree 20 admin-edge-port
spanning-tree 3 admin-edge-port	spanning-tree 21 admin-edge-port
spanning-tree 4 admin-edge-port	spanning-tree 22 admin-edge-port
spanning-tree 5 admin-edge-port	spanning-tree 23 admin-edge-port
spanning-tree 6 admin-edge-port	spanning-tree 24 admin-edge-port
spanning-tree 7 admin-edge-port	spanning-tree 25 admin-edge-port
spanning-tree 8 admin-edge-port	spanning-tree 26 admin-edge-port
spanning-tree 9 admin-edge-port	spanning-tree 27 admin-edge-port
spanning-tree 10 admin-edge-port	spanning-tree 28 admin-edge-port
spanning-tree 11 admin-edge-port	snmp-server community "public" unrestricted
spanning-tree 12 admin-edge-port	gos dscp-map 8 priority 0



### Switch Configuration Example for Q-SYS<sup>™</sup> Platform Hewlett Packard Enterprise Aruba 2930F-24G-PoEP-4SFP



gos dscp-map 9 priority 0 qos dscp-map 10 priority 0 qos dscp-map 11 priority 0 qos dscp-map 12 priority 0 gos dscp-map 13 priority 0 qos dscp-map 14 priority 0 gos dscp-map 15 priority 0 gos dscp-map 16 priority 0 gos dscp-map 17 priority 0 qos dscp-map 18 priority 0 qos dscp-map 19 priority 0 qos dscp-map 20 priority 0 qos dscp-map 21 priority 0 qos dscp-map 22 priority 0 gos dscp-map 23 priority 0 gos dscp-map 24 priority 0 gos dscp-map 25 priority 0 qos dscp-map 26 priority 5 qos dscp-map 27 priority 0 qos dscp-map 28 priority 0 qos dscp-map 29 priority 0 qos dscp-map 30 priority 0 qos dscp-map 31 priority 0 qos dscp-map 32 priority 0 qos dscp-map 33 priority 0 gos dscp-map 34 priority 6 qos dscp-map 35 priority 0 gos dscp-map 36 priority 0 qos dscp-map 37 priority 0 qos dscp-map 38 priority 0 gos dscp-map 39 priority 0 qos dscp-map 40 priority 0 qos dscp-map 41 priority 0 qos dscp-map 42 priority 0 qos dscp-map 43 priority 0 qos dscp-map 44 priority 0 gos dscp-map 45 priority 0 gos dscp-map 47 priority 0 gos dscp-map 48 priority 0 qos dscp-map 49 priority 0 qos dscp-map 50 priority 0 qos dscp-map 51 priority 0 qos dscp-map 52 priority 0 qos dscp-map 53 priority 0 qos dscp-map 54 priority 0 gos dscp-map 55 priority 0 gos dscp-map 56 priority 0 gos dscp-map 57 priority 0 gos dscp-map 58 priority 0 qos dscp-map 59 priority 0 qos dscp-map 60 priority 0 qos dscp-map 61 priority 0 qos dscp-map 62 priority 0 qos dscp-map 63 priority 0 qos type-of-service diff-services interface 1 flow-control qos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 2 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 3 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 4 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 5 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 6 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 7 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 8 flow-control qos trust dscp no bandwidth-min output untagged vlan 1

spanning-tree admin-edge-port exit

exit

interface 9 flow-control qos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 10 flow-control qos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 11 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 12 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 13 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 14 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 15 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 16 flow-control qos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port interface 17 flow-control qos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 18 flow-control qos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 19 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 20 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 21 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 22 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 23 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 24 flow-control qos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port

exit



interface 25 flow-control qos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 26 flow-control qos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 27 flow-control gos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit interface 28 flow-control qos trust dscp no bandwidth-min output untagged vlan 1 spanning-tree admin-edge-port exit vlan 1 name "DEFAULT\_VLAN" untagged 1-28 ip address 192.168.1.188 255.255.255.0 ip igmp exit

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