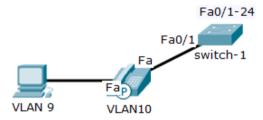
IP Phone QoS

Lab Summary

Enable switch ports with trusted state for IP phone voice traffic with Class of Service (CoS) marking.

Figure 1 Lab Topology



Lab Configuration

Start Packet Tracer File: IP Phone QoS

Click on the *switch-1* icon and select the *CLI* folder. Hit the <enter> key for user mode prompt (>).

Step 1: Enter global configuration mode

switch-1> enable

Password: cisconet

switch-1# configure terminal

Step 2: Enable QoS on switch-1.

switch-1(config)# mls qos

Step 3: Configure all interfaces as access ports and assign to data VLAN 9.

switch-1(config)# interface range fastethernet0/1 - 24

switch-1(config-if)# switchport mode access

switch-1(config-if)# switchport access vlan 9

Step 4: Configure voice VLAN on all switch interfaces and assign VLAN 10.

switch-1(config-if)# switchport voice vlan 10

Step 5: Enable trust state to trust voice traffic on all switch interfaces.

switch-1(config-if)# mls qos trust cos

switch-1(config-if)# end

switch-1# copy running-config startup-config

Verify Lab:

switch-1# show mls qos interface fastethernet0/1

FastEthernet0/1

trust state: **trust cos** trusted mode: trust cos trust enabled flag: ena COS override: dis default COS: 0

DSCP Mutation Map: Default DSCP Mutation Map

Trust device: none qos mode: port-based

switch-1# show cdp neighbor detail

Device ID: **Switch** Entry address(es):

Platform: cisco 7960, Capabilities: Host Phone

Interface: FastEthernet0/1, Port ID (outgoing port): Switch

Holdtime: 156

Version:

P00303020214

advertisement version: 2

Duplex: full

Lab Notes:

PortFast is automatically enabled when voice VLAN is configured on a switch interface.