



Sample Configurations for QAM Switches

This appendix presents sample configurations for the following Cisco Catalyst 4507 QAM switches in [Figure 3-1 on page 3-2](#), in Dhub A, Dhub B, and Dhub C, respectively:

- [QAM_Sw_A Configuration, page C-1](#)
- [QAM_Sw_B Configuration, page C-6](#)
- [QAM_Sw_C Configuration, page C-9](#)

QAM_Sw_A Configuration

```
version 12.1
no service pad
service timestamps debug datetime localtime
service timestamps log datetime localtime
no service password-encryption
service internal
service compress-config
!
hostname QAM_Sw_A
!
boot system bootflash:cat4000-i5su3-mz.mr1.403
no logging console
!
vtp mode transparent
ip subnet-zero
no ip domain-lookup
!
video 4 route Vlan160 ip-address 192.168.160.3
video 4 emulation-mode 24-qam-number
video 7 route Vlan160 ip-address 192.168.160.4
video 7 emulation-mode 24-qam-number
spanning-tree portfast bpduguard default
spanning-tree extend system-id
!
redundancy
  notification-timer 60000
  mode rpr
  main-cpu
  auto-sync standard
!
!
vlan 160
!
!
```

```

interface Port-channel1
  description Video traffic to/from DHub_A_S7 (Gig3/6,Gig3/7)
  switchport
  switchport access vlan 160
  !
interface FastEthernet1
  no ip address
  shutdown
  !
interface GigabitEthernet1/1
  shutdown
  !
interface GigabitEthernet1/2
  shutdown
  !
interface GigabitEthernet3/1
  description BDL51: Video traffic to/from DHub_A_S7 (Gig3/6)
  switchport access vlan 160
  channel-group 1 mode on
  !
interface GigabitEthernet3/2
  shutdown
  !
interface GigabitEthernet3/3
  shutdown
  !
interface GigabitEthernet3/4
  shutdown
  !
interface GigabitEthernet3/5
  shutdown
  !
interface GigabitEthernet3/6
  shutdown
  !
interface QAM4/1
  !
interface QAM4/1.1
  video freq 717000000
  !
interface QAM4/1.2
  video freq 723000000
  !
interface QAM4/2
  !
interface QAM4/2.1
  video freq 729000000
  !
interface QAM4/2.2
  video freq 735000000
  !
interface QAM4/3
  !
interface QAM4/3.1
  video freq 741000000
  !
interface QAM4/3.2
  video freq 747000000
  !
interface QAM4/4
  !
interface QAM4/4.1
  video freq 753000000
  !

```

```
interface QAM4/4.2
  video freq 759000000
!
interface QAM4/5
!
interface QAM4/5.1
  video freq 765000000
!
interface QAM4/5.2
  video freq 771000000
!
interface QAM4/6
!
interface QAM4/6.1
  video freq 777000000
!
interface QAM4/6.2
  video freq 783000000
!
interface QAM4/7
!
interface QAM4/7.1
  video freq 789000000
!
interface QAM4/7.2
  video freq 795000000
!
interface QAM4/8
!
interface QAM4/8.1
  video freq 801000000
!
interface QAM4/8.2
  video freq 807000000
!
interface QAM4/9
!
interface QAM4/9.1
  video freq 813000000
!
interface QAM4/9.2
  video freq 819000000
!
interface QAM4/10
!
interface QAM4/10.1
  video freq 825000000
!
interface QAM4/10.2
  video freq 831000000
!
interface QAM4/11
!
interface QAM4/11.1
  video freq 837000000
!
interface QAM4/11.2
  video freq 843000000
!
interface QAM4/12
!
interface QAM4/12.1
  video freq 849000000
!
```

```
interface QAM4/12.2
  video freq 855000000
!
interface GigabitEthernet4/13
  shutdown
!
interface GigabitEthernet4/14
  description BDL52: Video traffic to/from DHub_A_S7 (Gig3/7)
  switchport access vlan 160
  channel-group 1 mode on
!
interface ASI4/15
  keepalive 5
  video route qam 4/1.1
!
interface QAM7/1
!
interface QAM7/1.1
  video freq 717000000
!
interface QAM7/1.2
  video freq 723000000
!
interface QAM7/2
!
interface QAM7/2.1
  video freq 729000000
!
interface QAM7/2.2
  video freq 735000000
!
interface QAM7/3
!
interface QAM7/3.1
  video freq 741000000
!
interface QAM7/3.2
  video freq 747000000
!
interface QAM7/4
!
interface QAM7/4.1
  video freq 753000000
!
interface QAM7/4.2
  video freq 759000000
!
interface QAM7/5
!
interface QAM7/5.1
  video freq 765000000
!
interface QAM7/5.2
  video freq 771000000
!
interface QAM7/6
!
interface QAM7/6.1
  video freq 777000000
!
interface QAM7/6.2
  video freq 783000000
!
interface QAM7/7
```

```
!  
interface QAM7/7.1  
  video freq 789000000  
!  
interface QAM7/7.2  
  video freq 795000000  
!  
interface QAM7/8  
!  
interface QAM7/8.1  
  video freq 801000000  
!  
interface QAM7/8.2  
  video freq 807000000  
!  
interface QAM7/9  
!  
interface QAM7/9.1  
  video freq 813000000  
!  
interface QAM7/9.2  
  video freq 819000000  
!  
interface QAM7/10  
!  
interface QAM7/10.1  
  video freq 825000000  
!  
interface QAM7/10.2  
  video freq 831000000  
!  
interface QAM7/11  
!  
interface QAM7/11.1  
  video freq 837000000  
!  
interface QAM7/11.2  
  video freq 843000000  
!  
interface QAM7/12  
!  
interface QAM7/12.1  
  video freq 849000000  
!  
interface QAM7/12.2  
  video freq 855000000  
!  
interface GigabitEthernet7/13  
!  
interface GigabitEthernet7/14  
!  
interface ASI7/15  
  no ip address  
  keepalive 5  
  shutdown  
!  
interface Vlan1  
  no ip address  
!  
interface Vlan160  
  description Video traffic to/from DHub_A_S7  
  ip address 192.168.160.2 255.255.255.240  
!  
!
```

```

ip classless
no ip http server
!
!
line con 0
  exec-timeout 0 0
  password cisco123
  logging synchronous
  login
  stopbits 1
line vty 0 4
  exec-timeout 0 0
  password cisco123
  logging synchronous
  login
!
scheduler runtime netinput 100
!
end

```

QAM_Sw_B Configuration

```

version 12.1
no service pad
service timestamps debug datetime localtime
service timestamps log datetime localtime
no service password-encryption
service internal
service compress-config
!
hostname QAM_Sw_B
!
boot system bootflash:cat4000-i5su3-mz.mr1.403
no logging console
!
vtp mode transparent
ip subnet-zero
no ip domain-lookup
!
video 5 route Vlan161 ip-address 192.168.161.3
video 5 emulation-mode 24-qam-number
spanning-tree portfast bpduguard default
spanning-tree extend system-id
!
redundancy
  notification-timer 60000
  mode rpr
  main-cpu
  auto-sync standard
!
!
vlan 161
!
!
interface Port-channel2
  description Video traffic to/from DHub_B_S7 (Gig3/6,Gig3/7)
  switchport
  switchport access vlan 161
!
interface FastEthernet1
  no ip address

```

```
shutdown
!
interface GigabitEthernet1/1
shutdown
!
interface GigabitEthernet1/2
shutdown
!
interface GigabitEthernet3/1
shutdown
!
interface GigabitEthernet3/2
description BDL54: Video traffic to/from DHub_B_S7 (Gig3/6)
switchport access vlan 161
channel-group 2 mode on
!
interface GigabitEthernet3/3
shutdown
!
interface GigabitEthernet3/4
shutdown
!
interface GigabitEthernet3/5
shutdown
!
interface GigabitEthernet3/6
shutdown
!
!
interface QAM5/1
!
interface QAM5/1.1
video freq 717000000
!
interface QAM5/1.2
video freq 723000000
!
interface QAM5/2
!
interface QAM5/2.1
video freq 729000000
!
interface QAM5/2.2
video freq 735000000
!
interface QAM5/3
!
interface QAM5/3.1
video freq 741000000
!
interface QAM5/3.2
video freq 747000000
!
interface QAM5/4
!
interface QAM5/4.1
video freq 753000000
!
interface QAM5/4.2
video freq 759000000
!
interface QAM5/5
!
interface QAM5/5.1
```

```
    video freq 765000000
    !
interface QAM5/5.2
    video freq 771000000
    !
interface QAM5/6
    !
interface QAM5/6.1
    video freq 777000000
    !
interface QAM5/6.2
    video freq 783000000
    !
interface QAM5/7
    !
interface QAM5/7.1
    video freq 789000000
    !
interface QAM5/7.2
    video freq 795000000
    !
interface QAM5/8
    !
interface QAM5/8.1
    video freq 801000000
    !
interface QAM5/8.2
    video freq 807000000
    !
interface QAM5/9
    !
interface QAM5/9.1
    video freq 813000000
    !
interface QAM5/9.2
    video freq 819000000
    !
interface QAM5/10
    !
interface QAM5/10.1
    video freq 825000000
    !
interface QAM5/10.2
    video freq 831000000
    !
interface QAM5/11
    !
interface QAM5/11.1
    video freq 837000000
    !
interface QAM5/11.2
    video freq 843000000
    !
interface QAM5/12
    !
interface QAM5/12.1
    video freq 849000000
    !
interface QAM5/12.2
    video freq 855000000
    !
interface GigabitEthernet5/13
    shutdown
    !
```



```

interface GigabitEthernet5/14
  description BDL55: Video traffic to/from DHub_B_S7 (Gig3/7)
  switchport access vlan 161
  channel-group 2 mode on
  !
interface ASI5/15
  keepalive 5
  video route qam 5/1.1
  !
  !
interface Vlan1
  no ip address
  !
interface Vlan161
  description Video traffic to/from DHub_B_S7
  ip address 192.168.161.2 255.255.255.240
  !
  !
ip classless
no ip http server
  !
  !
line con 0
  exec-timeout 0 0
  password cisco123
  logging synchronous
  login
  stopbits 1
line vty 0 4
  exec-timeout 0 0
  password cisco123
  logging synchronous
  login
  !
scheduler runtime netinput 100
  !
end

```

QAM_Sw_C Configuration

```

version 12.1
no service pad
service timestamps debug datetime localtime
service timestamps log datetime localtime
no service password-encryption
service internal
service compress-config
  !
hostname QAM_Sw_C
  !
boot system bootflash:cat4000-i5su3-mz.mr1.403
no logging console
  !
vtp mode transparent
ip subnet-zero
no ip domain-lookup
  !
video 6 route Vlan162 ip-address 192.168.162.3
video 6 emulation-mode 24-qam-number
spanning-tree portfast bpduguard default
spanning-tree extend system-id

```

```

!
redundancy
  notification-timer 60000
  mode rpr
  main-cpu
    auto-sync standard
!
!
vlan 162
!
!
interface FastEthernet1
  no ip address
  shutdown
!
interface GigabitEthernet1/1
  shutdown
!
interface GigabitEthernet1/2
  shutdown
!
!
interface QAM6/1
!
interface QAM6/1.1
  video freq 717000000
!
interface QAM6/1.2
  video freq 723000000
!
interface QAM6/2
!
interface QAM6/2.1
  video freq 729000000
!
interface QAM6/2.2
  video freq 735000000
!
interface QAM6/3
!
interface QAM6/3.1
  video freq 741000000
!
interface QAM6/3.2
  video freq 747000000
!
interface QAM6/4
!
interface QAM6/4.1
  video freq 753000000
!
interface QAM6/4.2
  video freq 759000000
!
interface QAM6/5
!
interface QAM6/5.1
  video freq 765000000
!
interface QAM6/5.2
  video freq 771000000
!
interface QAM6/6
!

```

```
interface QAM6/6.1
  video freq 777000000
!
interface QAM6/6.2
  video freq 783000000
!
interface QAM6/7
!
interface QAM6/7.1
  video freq 789000000
!
interface QAM6/7.2
  video freq 795000000
!
interface QAM6/8
!
interface QAM6/8.1
  video freq 801000000
!
interface QAM6/8.2
  video freq 807000000
!
interface QAM6/9
!
interface QAM6/9.1
  video freq 813000000
!
interface QAM6/9.2
  video freq 819000000
!
interface QAM6/10
!
interface QAM6/10.1
  video freq 825000000
!
interface QAM6/10.2
  video freq 831000000
!
interface QAM6/11
!
interface QAM6/11.1
  video freq 837000000
!
interface QAM6/11.2
  video freq 843000000
!
interface QAM6/12
!
interface QAM6/12.1
  video freq 849000000
!
interface QAM6/12.2
  video freq 855000000
!
interface GigabitEthernet6/13
  description BDL57: Video traffic to/from DHub_C_S8 (Gig4/1)
  switchport access vlan 162
!
interface GigabitEthernet6/14
  shutdown
!
interface ASI6/15
  keepalive 5
  video route qam 6/1.1
```

```
!  
!  
interface Vlan1  
  no ip address  
!  
!  
interface Vlan162  
  description Video traffic to/from DHub_C_S8  
  ip address 192.168.162.2 255.255.255.248  
!  
!  
ip classless  
no ip http server  
!  
!  
line con 0  
  exec-timeout 0 0  
  password cisco123  
  logging synchronous  
  login  
  stopbits 1  
line vty 0 4  
  exec-timeout 0 0  
  password cisco123  
  logging synchronous  
  login  
!  
scheduler runtime netinput 100  
!  
end
```