

This document contains the network diagram, and a list of all the platforms and software releases which were validated for the Schools Service Ready Architecture (SRA). The last section includes the configurations for each platform (CLI only, no GUI).

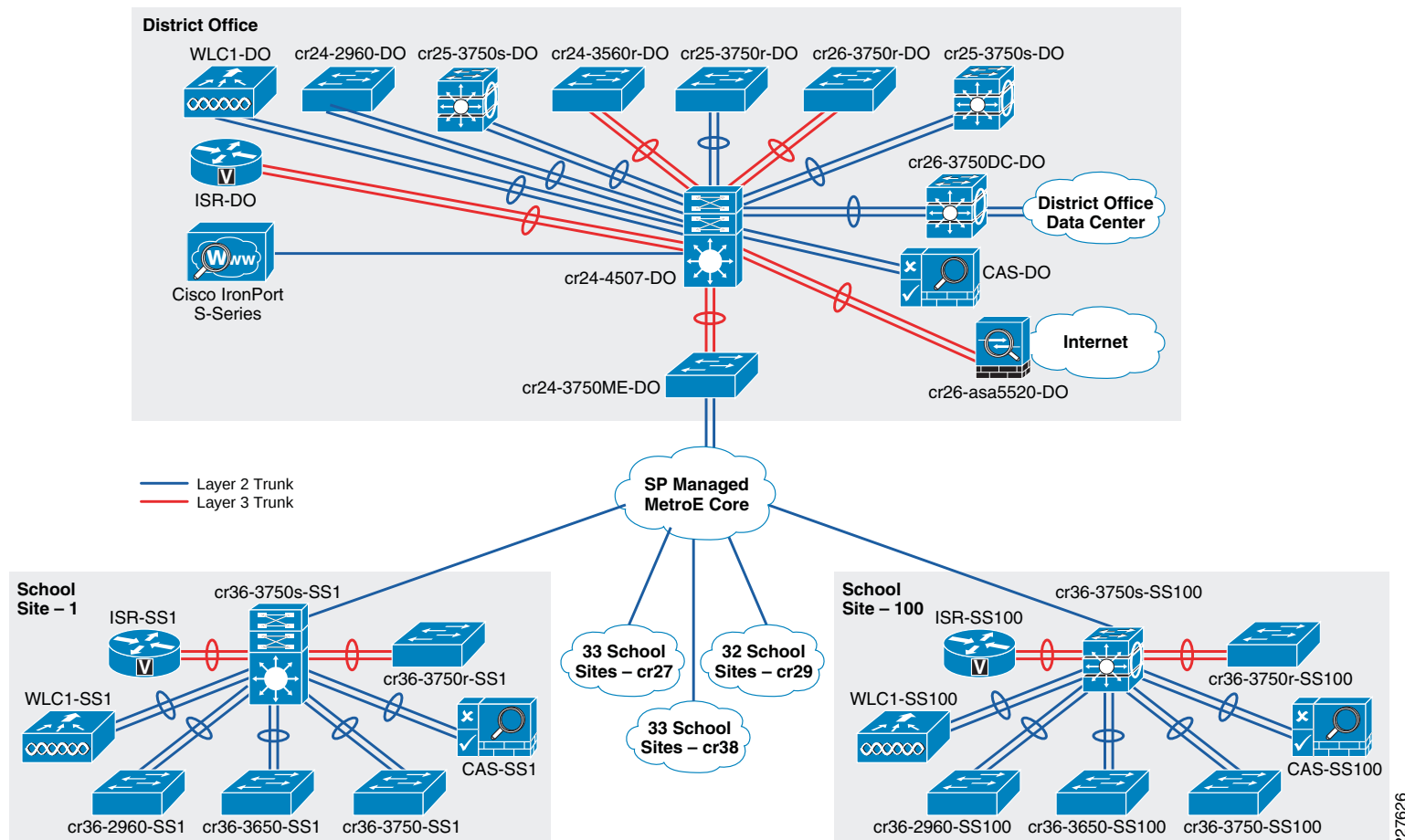
Provides an efficient and flexible network architecture for secondary schools, while enabling advanced services, such as security, unified wireless access, unified voice communications services, and presence services. The network is designed to meet the needs of the education environment:

- Academic Excellence
- Administrative Efficiency
- School safety and security

Network Diagram

Figure 1 shows the network diagram for the School SRA.

Figure 1 Physical Topology



Validated Platforms and Software Versions

Network Infrastructure

Table 1 School SRA Network Infrastructure

School Location	Platform	Role	Software
District Office	2960	Access	12.2(50)SE
	2975 - Stackwise		12.2(46)EX
	3560		12.2(50)SE
	3750		12.2(50)SE
	3750 – Stackwise		12.2(50)SE
	4507R-E – Sup6E/SupV	Core/Distribution	12.2(52)SG
	3750ME	WAN Aggregation	12.2(50)SE
	2851	PSTN Edge	12.4(15)T1
	WLC 4400 - 2100	Wireless LAN Controller	6.0
	Mobile Service Engine	Location	6.0
County school 1	2960	Access	12.2(50)SE
	3560		
	3750		
	3750 – Stackwise		
	4507R-E – SupV-10GE	Core/Distribution/WAN Edge	12.2(52)SG
	2851	PSTN Edge	12.4(15)T1
	WLC 4400 - 2100	Wireless LAN Controller	6.0
	NAC Appliance	Network Admission	4.5
County school 2-99	3750	Core/Distribution/WAN Edge	12.2(50)SE
County school 100	2960	Access	12.2(50)SE
	3560		
	3750		
	3750 - Stackwise		
	3750 - Stackwise	Core/Distribution/WAN Edge	12.2(50)SE
	2851	PSTN Edge	12.4(15)T1
	WLC 4400 - 2100	Wireless LAN Controller	6.0
	NAC Appliance	Network Admission	4.5

Emerging Technologies

Table 2 Emerging Technologies

School Location	Platform	Role	Software
• District Office	• CUCM	• Call Manager	• 7.0
	• Presence Server	• Presence	• 7.0
	• 7960G	• IP Phone	•
	• 7965G		•
	• 7975G		•
	• 7985G	• Video Phone	•
	• ASA5520	• Firewall	• 8.0
	• WSA	•	•
	• NAC Appliance (CAS, CAM)	• Network Admission	• 4.5.1
	• Cisco ACS	• Radius Server	• 4.2
• County school 1	• 7960G	• IP Phone	•
	• 7965G		•
	• 7975G		•
• County school 2-99	• Emulated IP Phones	• IP Phone	•
• County school 100	• 7960G	• IP Phone	•
	• 7965G	•	•
	• 7975G	•	•
	• NAC Appliance (CAM, CAS)	• Network Admission	• 4.5.1
	• Cisco ACS	• Radius Server	• 4.2

Configurations

This section contains a copy of the complete configuration for each platform validated in the School Service Ready Architecture validation (only for platforms with CLI configurations, does not include GUI configurations).

Note Externally accessible IP addresses and passwords have been replaced with descriptive text.

District Office

Access

```
Cr24-2960-DO
!
! Last configuration change at 22:53:38 EDT Wed Sep 2 2009 by cisco
! NVRAM config last updated at 22:53:54 EDT Wed Sep 2 2009 by cisco
!
version 12.2
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
service password-encryption
!
hostname cr24-2960-DO
!
boot-start-marker
boot-end-marker
!
enable secret 5 $1$XK8W$tZTDCYAq5eBMNKtqjisAw.
enable password 7 104D000A0618
!
aaa new-model
!
!
aaa authentication login default group radius enable line
aaa authentication dot1x default group radius
!
!
!
aaa session-id common
clock timezone EST -5
clock summer-time EDT recurring
system mtu routing 1500
vtp domain District-Office
vtp mode transparent
ip subnet-zero
!
!
```

```
ip dhcp snooping vlan 101-110
no ip dhcp snooping information option
ip dhcp snooping
no ip domain-lookup
ip arp inspection vlan 101-110
ip arp inspection validate src-mac dst-mac ip allow zeros
!
mls qos map cos-dscp 0 8 16 24 32 46 48 56
mls qos srr-queue input bandwidth 70 30
mls qos srr-queue input threshold 1 80 90
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input dscp-map queue 1 threshold 2 24
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28
30 34
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38
mls qos srr-queue output dscp-map queue 2 threshold 2 24
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56
mls qos srr-queue output dscp-map queue 3 threshold 3 0
mls qos srr-queue output dscp-map queue 4 threshold 1 8
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14
mls qos queue-set output 1 threshold 2 80 90 100 100
mls qos queue-set output 1 threshold 4 60 100 100 100
mls qos
!
crypto pki trustpoint HTTPS_SS_CERT_KEYPAIR
  enrollment selfsigned
  serial-number
  revocation-check none
  rsakeypair HTTPS_SS_CERT_KEYPAIR
!
!
crypto pki certificate chain HTTPS_SS_CERT_KEYPAIR
  certificate self-signed 01 nvram:F9154780host#2E2E.cer
!
!
dot1x system-auth-control
dot1x guest-vlan supplicant
!
!
!
errdisable recovery cause udd
errdisable recovery cause bpduguard
errdisable recovery cause dhcp-rate-limit
```

```
errdisable recovery cause storm-control
errdisable recovery cause arp-inspection
errdisable recovery interval 120
port-channel load-balance src-dst-ip
!
spanning-tree mode rapid-pvst
spanning-tree etherchannel guard misconfig
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 101
    name cr2960_Dept1_VLAN
!
vlan 102
    name cr2960_Dept2_VLAN
!
vlan 103
    name cr2960_Dept3_VLAN
!
vlan 104
    name cr2960_Dept4_VLAN
!
vlan 105
    name cr2960_Dept5_VLAN
!
vlan 106
    name cr2960_Dept6_VLAN
!
vlan 107
    name cr2960_Dept7_VLAN
!
vlan 108
    name cr2960_Dept8_VLAN
!
vlan 109
    name cr2960_Dept9_VLAN
!
vlan 110
    name cr2960_Dept10_VLAN
!
vlan 201
    name Guest_VLAN
!
vlan 802
    name Hopping_VLAN

!
vlan 900
    name Mgmt_VLAN
!
!
class-map match-all BULK-DATA
    match access-group name BULK-DATA
class-map match-all VVLAN-SIGNALING
    match ip dscp cs3
class-map match-all MULTIMEDIA-CONFERENCING
    match access-group name MULTIMEDIA-CONFERENCING
class-map match-all DEFAULT
    match access-group name DEFAULT
class-map match-all SCAVENGER
    match access-group name SCAVENGER
class-map match-all SIGNALING
    match access-group name SIGNALING
class-map match-all VVLAN-VOIP
    match ip dscp ef
class-map match-all TRANSACTIONAL-DATA
    match access-group name TRANSACTIONAL-DATA
!
!
policy-map Phone-Policy
    class VVLAN-VOIP
        police 1000000 8000 exceed-action drop
        set dscp ef
    class VVLAN-SIGNALING
        police 1000000 8000 exceed-action drop
        set dscp cs3
policy-map UnTrusted-PC-Policy
    class class-default
        police 10000000 8000 exceed-action drop
        set dscp default
policy-map Trusted-PC-Policy
    class MULTIMEDIA-CONFERENCING
        set dscp af41
        police 5000000 8000 exceed-action drop
    class SIGNALING
        set dscp cs3
        police 1000000 8000 exceed-action drop
    class TRANSACTIONAL-DATA
        set dscp af21
        police 10000000 8000 exceed-action policed-dscp-transmit
    class BULK-DATA
        set dscp af11
```

```
    police 10000000 8000 exceed-action policed-dscp-transmit
class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
policy-map Phone+PC-Policy
class VVLAN-VOIP
    police 1000000 8000 exceed-action drop
    set dscp ef
class VVLAN-SIGNALING
    police 1000000 8000 exceed-action drop
    set dscp cs3
class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
class SIGNALING
    set dscp cs3
    police 1000000 8000 exceed-action drop
class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
!
!
!
interface Loopback0
    ip address 10.125.100.2 255.255.255.255
    no ip route-cache
!
interface Port-channel1
    description Connected to cr24-4507-DO
    switchport trunk native vlan 802
    switchport trunk allowed vlan 101-110,201,900
    switchport mode trunk
    ip arp inspection trust
    load-interval 30
```

```
    carrier-delay msec 0
    hold-queue 2000 in
    hold-queue 2000 out
    ip dhcp snooping trust
!
interface FastEthernet0/1
    description CONNECTED TO UNTRUSTED PC
    switchport access vlan 101
    switchport mode access
    switchport block unicast
    switchport port-security
    switchport port-security aging time 5
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    load-interval 30
    srr-queue bandwidth share 1 30 35 5
    priority-queue out
    storm-control broadcast level pps 1k
    storm-control multicast level pps 2k
    storm-control action trap
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy input UnTrusted-PC-Policy
    ip verify source
!
interface FastEthernet0/2
    description CONNECTED TO TRUSTED-PC
    switchport access vlan 102
    switchport mode access
    switchport block unicast
    switchport port-security
    switchport port-security aging time 5
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    load-interval 30
    srr-queue bandwidth share 1 30 35 5
    priority-queue out
    mls qos trust dscp
    storm-control broadcast level pps 1k
    storm-control multicast level pps 2k
    storm-control action trap
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy input Trusted-PC-Policy
```

```
ip verify source
!
interface FastEthernet0/3
description CONNECTED TO PHONE
switchport mode access
switchport block unicast
switchport voice vlan 103
switchport port-security maximum 2
switchport port-security maximum 1 vlan access
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security violation restrict
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
service-policy input Phone-Policy
ip verify source
!
interface FastEthernet0/4
description CONNECTED TO PHONE+PC
switchport access vlan 104
switchport mode access
switchport block unicast
switchport voice vlan 105
switchport port-security maximum 3
switchport port-security maximum 2 vlan access
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
```

```
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Phone+PC-Policy
ip verify source
!
interface FastEthernet0/5
description CONNECTED TO IPVS 2500 - CAMERA
switchport access vlan 106
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/6
description CONNECTED TO IPVS 4500 - CAMERA
switchport access vlan 107
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/7
description CONNECTED TO DIGITAL MEDIA PLAYER
switchport access vlan 108
switchport mode access
switchport block unicast
switchport port-security
```

```
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
interface FastEthernet0/10
description Connected to IXIA - ALM - 2/1
switchport trunk native vlan 802
switchport trunk allowed vlan 101-110
switchport mode trunk
switchport nonegotiate
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface FastEthernet0/11
description Connected to IXIA - STX - 3/1
switchport trunk native vlan 802
switchport trunk allowed vlan 101-110
switchport mode trunk
switchport nonegotiate
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
description Connected to FlashNet
switchport mode access
load-interval 30
!
interface FastEthernet0/25
!
interface FastEthernet0/26
!
interface FastEthernet0/27
!
interface FastEthernet0/28
!
interface FastEthernet0/29
!
interface FastEthernet0/30
!
```

```
interface FastEthernet0/31
!
interface FastEthernet0/32
!
interface FastEthernet0/33
!
interface FastEthernet0/34
!
interface FastEthernet0/35
!
interface FastEthernet0/36
!
interface FastEthernet0/37
!
interface FastEthernet0/38
!
interface FastEthernet0/39
!
interface FastEthernet0/40
!
interface FastEthernet0/41
!
interface FastEthernet0/42
!
interface FastEthernet0/43
!
interface FastEthernet0/44
!
interface FastEthernet0/45
!
interface FastEthernet0/46
!
interface FastEthernet0/47
!
interface FastEthernet0/48
!
interface GigabitEthernet0/1
description Connected to cr24-4507-DO
switchport trunk native vlan 802
switchport trunk allowed vlan 101-110,201,900
switchport mode trunk
ip arp inspection trust
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
```

```
udld port
mls qos trust dscp
channel-protocol pagp
channel-group 1 mode desirable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet0/2
description Connected to cr24-4507-DO
switchport trunk native vlan 802
switchport trunk allowed vlan 101-110,201,900
switchport mode trunk
ip arp inspection trust
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol pagp
channel-group 1 mode desirable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet0/3
!
interface GigabitEthernet0/4
!
interface Vlan1
description Connected to FlashNet
ip address 172.26.160.188 255.255.254.0
no ip redirects
no ip proxy-arp
no ip route-cache
!
interface Vlan900
ip address 10.125.34.2 255.255.255.224
no ip redirects
no ip unreachable
no ip route-cache
load-interval 30
!
no ip http server
no ip http secure-server
```



```
!  
ip access-list standard Allowed_MCAST_Groups  
  permit 224.0.1.39  
  permit 224.0.1.40  
  permit 239.192.0.0 0.0.255.255  
ip access-list standard Deny_PIM_DM_Fallback  
  deny 224.0.1.39  
  deny 224.0.1.40  
  permit any  
!  
ip access-list extended BULK-DATA  
  remark FTP  
  permit tcp any any eq ftp  
  permit tcp any any eq ftp-data  
  remark SSH/SFTP  
  permit tcp any any eq 22  
  remark SMTP/SECURE SMTP  
  permit tcp any any eq smtp  
  permit tcp any any eq 465  
  remark IMAP/SECURE IMAP  
  permit tcp any any eq 143  
  permit tcp any any eq 993  
  remark POP3/SECURE POP3  
  permit tcp any any eq pop3  
  permit tcp any any eq 995  
  remark CONNECTED PC BACKUP  
  permit tcp any eq 1914 any  
ip access-list extended DEFAULT  
  remark EXPLICIT CLASS-DEFAULT  
  permit ip any any  
ip access-list extended MULTIMEDIA-CONFERENCING  
  remark RTP  
  permit udp any any range 16384 32767  
ip access-list extended PERMIT-SOURCES  
  permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255  
ip access-list extended PXE  
  permit tcp any any established  
  permit udp any any eq bootps  
  permit udp any host 10.125.31.11 eq domain  
  permit udp any host 10.125.31.12 eq tftp  
ip access-list extended SCAVENGER  
  remark KAZAA  
  permit tcp any any eq 1214  
  permit udp any any eq 1214  
  remark MICROSOFT DIRECT X GAMING  
  permit tcp any any range 2300 2400  
  permit udp any any range 2300 2400  
  remark APPLE ITUNES MUSIC SHARING  
  permit tcp any any eq 3689  
  permit udp any any eq 3689  
  remark BITTORRENT  
  permit tcp any any range 6881 6999  
  remark YAHOO GAMES  
  permit tcp any any eq 11999  
  remark MSN GAMING ZONE  
  permit tcp any any range 28800 29100  
ip access-list extended SIGNALING  
  remark SCCP  
  permit tcp any any range 2000 2002  
  remark SIP  
  permit tcp any any range 5060 5061  
  permit udp any any range 5060 5061  
ip access-list extended TRANSACTIONAL-DATA  
  remark HTTPS  
  permit tcp any any eq 443  
  remark ORACLE-SQL*NET  
  permit tcp any any eq 1521  
  permit udp any any eq 1521  
  remark ORACLE  
  permit tcp any any eq 1526  
  permit udp any any eq 1526  
  permit tcp any any eq 1575  
  permit udp any any eq 1575  
  permit tcp any any eq 1630  
snmp-server community public RO  
snmp-server community k12 RW  
snmp-server trap-source Loopback0  
snmp-server host 172.26.158.251 version 2c k12  
radius-server dead-criteria time 15 tries 3  
radius-server host 10.125.31.4 auth-port 1645 acct-port 1646 key 7  
01100F1758044A5E731F  
radius-server deadtime 1  
!  
control-plane  
!  
alias exec dsno show ip dhcp snooping bind  
alias exec ct config t  
alias exec srb sh run | begin  
alias exec sri sh run int  
alias exec cl clear logg  
alias exec rib show ip route  
alias exec ec sh etherchannel
```

```
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
!
line con 0
  exec-timeout 0 0
  password 7 121A0C041104
line vty 0 4
  exec-timeout 0 0
  password 7 121A0C041104
line vty 5 15
  exec-timeout 0 0
!
ntp clock-period 36028997
ntp server 172.26.160.10
end
```

Cr26-2975-DO

```
!
! Last configuration change at 22:53:38 EDT Wed Sep 2 2009 by cisco
! NVRAM config last updated at 22:53:54 EDT Wed Sep 2 2009 by cisco
!
version 12.2
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
service password-encryption
!
hostname cr26-2975-DO
!
boot-start-marker
boot-end-marker
!
enable password 7 094F471A1A0A
!
aaa new-model
!
!
aaa authentication login default group radius enable line
aaa authentication dot1x default group radius
!
!
!
aaa session-id common
```

```
clock timezone EST -5
clock summer-time EDT recurring
switch 1 provision ws-c2975gs-48ps-1
switch 2 provision ws-c2975gs-48ps-1
switch 3 provision ws-c2975gs-48ps-1
stack-mac persistent timer 0
system mtu routing 1500
vtp domain District-Office
vtp mode transparent
ip subnet-zero
!
!
ip dhcp snooping vlan 111-120
no ip dhcp snooping information option
ip dhcp snooping
no ip domain-lookup
!
mls qos map cos-dscp 0 8 16 24 32 46 48 56
mls qos srr-queue input bandwidth 70 30
mls qos srr-queue input threshold 1 80 90
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input dscp-map queue 1 threshold 2 24
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28
30 34
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38
mls qos srr-queue output dscp-map queue 2 threshold 2 24
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56
mls qos srr-queue output dscp-map queue 3 threshold 3 0
mls qos srr-queue output dscp-map queue 4 threshold 1 8
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14
mls qos queue-set output 1 threshold 2 80 90 100 100
mls qos queue-set output 1 threshold 4 60 100 100 100
mls qos
!
!
!
!
dot1x system-auth-control
dot1x guest-vlan supplicant
!
!
!
errdisable recovery cause udld
```

```
errdisable recovery cause bpduguard
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause storm-control
errdisable recovery interval 120
port-channel load-balance src-dst-ip
!
spanning-tree mode rapid-pvst
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 2
    name FlashNet_VLAN
!
vlan 111-120
!
vlan 202
    name Guest_VLAN
!
vlan 803
    name Hopping_VLAN
!
vlan 900
    name Mgmt_VLAN
!
!
class-map match-all BULK-DATA
    match access-group name BULK-DATA
class-map match-all VVLAN-SIGNALING
    match ip dscp cs3
class-map match-all MULTIMEDIA-CONFERENCING
    match access-group name MULTIMEDIA-CONFERENCING
class-map match-all DEFAULT
    match access-group name DEFAULT
class-map match-all SCAVENGER
    match access-group name SCAVENGER
class-map match-all SIGNALING
    match access-group name SIGNALING
class-map match-all VVLAN-VOIP
    match ip dscp ef
class-map match-all TRANSACTIONAL-DATA
    match access-group name TRANSACTIONAL-DATA
!
!
policy-map Phone-Policy
    class VVLAN-VOIP
```

```
        police 128000 8000 exceed-action drop
        set dscp ef
    class VVLAN-SIGNALING
        police 32000 8000 exceed-action drop
        set dscp cs3
policy-map UnTrusted-PC-Policy
    class class-default
        police 10000000 8000 exceed-action drop
        set dscp default
policy-map Trusted-PC-Policy
    class MULTIMEDIA-CONFERENCING
        set dscp af41
        police 5000000 8000 exceed-action drop
    class SIGNALING
        set dscp cs3
        police 32000 8000 exceed-action drop
    class TRANSACTIONAL-DATA
        set dscp af21
        police 10000000 8000 exceed-action policed-dscp-transmit
    class BULK-DATA
        set dscp af11
        police 10000000 8000 exceed-action policed-dscp-transmit
    class SCAVENGER
        set dscp cs1
        police 10000000 8000 exceed-action drop
    class DEFAULT
        set dscp default
        police 10000000 8000 exceed-action policed-dscp-transmit
policy-map Phone+PC-Policy
    class VVLAN-VOIP
        police 128000 8000 exceed-action drop
        set dscp ef
    class VVLAN-SIGNALING
        police 32000 8000 exceed-action drop
        set dscp cs3
    class MULTIMEDIA-CONFERENCING
        set dscp af41
        police 5000000 8000 exceed-action drop
    class SIGNALING
        set dscp cs3
        police 1000000 8000 exceed-action drop
    class TRANSACTIONAL-DATA
        set dscp af21
        police 10000000 8000 exceed-action policed-dscp-transmit
    class BULK-DATA
        set dscp af11
```

```
    police 10000000 8000 exceed-action policed-dscp-transmit
class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
!
!
!
interface Loopback0
    ip address 10.125.100.3 255.255.255.255
!
interface Port-channel1
    description Connected to cr24-4507-DO
    switchport trunk native vlan 803
    switchport trunk allowed vlan 111-120,900
    switchport mode trunk
    load-interval 30
    carrier-delay msec 0
    hold-queue 2000 in
    hold-queue 2000 out
    ip dhcp snooping trust
!
interface GigabitEthernet1/0/1
    description CONNECTED TO UNTRUSTED-PC
    switchport access vlan 111
    switchport mode access
    switchport block unicast
    switchport port-security
    switchport port-security aging time 5
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    load-interval 30
    srr-queue bandwidth share 1 30 35 5
    priority-queue out
    storm-control broadcast level pps 1k
    storm-control multicast level pps 2k
    storm-control action trap
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy input UnTrusted-PC-Policy
!
interface GigabitEthernet1/0/2
    description CONNECTED TO TRUSTED-PC
    switchport access vlan 112
```

```
switchport mode access
switchport block unicast
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Trusted-PC-Policy
!
interface GigabitEthernet1/0/3
    description CONNECTED TO PHONE
    switchport mode access
    switchport block unicast
    switchport voice vlan 113
    switchport port-security maximum 2
    switchport port-security maximum 1 vlan access
    switchport port-security maximum 1 vlan voice
    switchport port-security
    switchport port-security violation restrict
    load-interval 30
    srr-queue bandwidth share 1 30 35 5
    priority-queue out
    mls qos trust device cisco-phone
    mls qos trust dscp
    no mdix auto
    storm-control broadcast level pps 1k
    storm-control multicast level pps 2k
    storm-control action trap
    spanning-tree portfast
    service-policy input Phone-Policy
!
interface GigabitEthernet1/0/4
!
interface GigabitEthernet1/0/5
!
interface GigabitEthernet1/0/6
!
interface GigabitEthernet1/0/7
```

```
!  
interface GigabitEthernet1/0/8  
!  
interface GigabitEthernet1/0/9  
!  
interface GigabitEthernet1/0/10  
!  
interface GigabitEthernet1/0/11  
!  
interface GigabitEthernet1/0/12  
!  
interface GigabitEthernet1/0/13  
!  
interface GigabitEthernet1/0/14  
!  
interface GigabitEthernet1/0/15  
!  
interface GigabitEthernet1/0/16  
!  
interface GigabitEthernet1/0/17  
!  
interface GigabitEthernet1/0/18  
!  
interface GigabitEthernet1/0/19  
!  
interface GigabitEthernet1/0/20  
!  
interface GigabitEthernet1/0/21  
!  
interface GigabitEthernet1/0/22  
!  
interface GigabitEthernet1/0/23  
!  
interface GigabitEthernet1/0/24  
!  
interface GigabitEthernet1/0/25  
!  
interface GigabitEthernet1/0/26  
!  
interface GigabitEthernet1/0/27  
!  
interface GigabitEthernet1/0/28  
!  
interface GigabitEthernet1/0/29  
!  
interface GigabitEthernet1/0/30
```

```
!  
interface GigabitEthernet1/0/31  
!  
interface GigabitEthernet1/0/32  
!  
interface GigabitEthernet1/0/33  
!  
interface GigabitEthernet1/0/34  
!  
interface GigabitEthernet1/0/35  
!  
interface GigabitEthernet1/0/36  
!  
interface GigabitEthernet1/0/37  
!  
interface GigabitEthernet1/0/38  
!  
interface GigabitEthernet1/0/39  
!  
interface GigabitEthernet1/0/40  
!  
interface GigabitEthernet1/0/41  
!  
interface GigabitEthernet1/0/42  
!  
interface GigabitEthernet1/0/43  
!  
interface GigabitEthernet1/0/44  
!  
interface GigabitEthernet1/0/45  
!  
interface GigabitEthernet1/0/46  
!  
interface GigabitEthernet1/0/47  
!  
interface GigabitEthernet1/0/48  
description Connected to FlashNet  
switchport access vlan 2  
switchport mode access  
load-interval 30  
!  
interface GigabitEthernet1/0/49  
description Connected to cr24-4507-DO  
switchport trunk native vlan 803  
switchport trunk allowed vlan 111-120,900  
switchport mode trunk
```

```
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol lacp
channel-group 1 mode active
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet1/0/50
!
interface GigabitEthernet1/0/51
!
interface GigabitEthernet1/0/52
!
interface GigabitEthernet2/0/1
!
interface GigabitEthernet2/0/2
!
interface GigabitEthernet2/0/3
!
interface GigabitEthernet2/0/4
!
interface GigabitEthernet2/0/5
!
interface GigabitEthernet2/0/6
!
interface GigabitEthernet2/0/7
!
interface GigabitEthernet2/0/8
!
interface GigabitEthernet2/0/9
!
interface GigabitEthernet2/0/10
!
interface GigabitEthernet2/0/11
!
interface GigabitEthernet2/0/12
!
interface GigabitEthernet2/0/13
!
interface GigabitEthernet2/0/14
!
```

```
interface GigabitEthernet2/0/15
!
interface GigabitEthernet2/0/16
!
interface GigabitEthernet2/0/17
!
interface GigabitEthernet2/0/18
!
interface GigabitEthernet2/0/19
!
interface GigabitEthernet2/0/20
!
interface GigabitEthernet2/0/21
!
interface GigabitEthernet2/0/22
!
interface GigabitEthernet2/0/23
!
interface GigabitEthernet2/0/24
!
interface GigabitEthernet2/0/25
!
interface GigabitEthernet2/0/26
!
interface GigabitEthernet2/0/27
!
interface GigabitEthernet2/0/28
!
interface GigabitEthernet2/0/29
!
interface GigabitEthernet2/0/30
!
interface GigabitEthernet2/0/31
!
interface GigabitEthernet2/0/32
!
interface GigabitEthernet2/0/33
!
interface GigabitEthernet2/0/34
!
interface GigabitEthernet2/0/35
!
interface GigabitEthernet2/0/36
!
interface GigabitEthernet2/0/37
!
```

```
interface GigabitEthernet2/0/38
!
interface GigabitEthernet2/0/39
!
interface GigabitEthernet2/0/40
!
interface GigabitEthernet2/0/41
!
interface GigabitEthernet2/0/42
!
interface GigabitEthernet2/0/43
!
interface GigabitEthernet2/0/44
!
interface GigabitEthernet2/0/45
!
interface GigabitEthernet2/0/46
!
interface GigabitEthernet2/0/47
!
interface GigabitEthernet2/0/48
description Connected to FlashNet
switchport access vlan 2
switchport mode access
load-interval 30
!
interface GigabitEthernet2/0/49
!
interface GigabitEthernet2/0/50
!
interface GigabitEthernet2/0/51
!
interface GigabitEthernet2/0/52
!
interface GigabitEthernet3/0/1
description CONNECTED TO PHONE+PC
switchport access vlan 114
switchport mode access
switchport block unicast
switchport voice vlan 115
switchport port-security maximum 3
switchport port-security maximum 2 vlan access
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
```

```
switchport port-security aging type inactivity
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Phone+PC-Policy
!
interface GigabitEthernet3/0/2
description CONNECTED TO IPVS 2500 - CAMERA
switchport access vlan 116
switchport mode access
switchport block unicast
switchport port-security
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet3/0/3
description CONNECTED TO IPVS 4500 - CAMERA
switchport access vlan 117
switchport mode access
switchport block unicast
switchport port-security
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet3/0/4
```

```
description CONNECTED TO DIGITAL MEDIA PLAYER
switchport access vlan 118
switchport mode access
switchport block unicast
switchport port-security
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
dot1x mac-auth-bypass
dot1x pae authenticator
dot1x violation-mode protect
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet3/0/5
!
interface GigabitEthernet3/0/6
!
interface GigabitEthernet3/0/7
!
interface GigabitEthernet3/0/8
!
interface GigabitEthernet3/0/9
!
interface GigabitEthernet3/0/10
description Connected to IXIA - ALM - 2/2
switchport trunk native vlan 202
switchport trunk allowed vlan 111-120
switchport mode trunk
switchport nonegotiate
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
spanning-tree bpduguard enable
spanning-tree guard root
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
```

```
!
interface GigabitEthernet3/0/11
description Connected to IXIA - STX - 3/2
switchport trunk native vlan 202
switchport trunk allowed vlan 111-120
switchport mode trunk
switchport nonegotiate
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
spanning-tree bpduguard enable
spanning-tree guard root
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet3/0/12
!
interface GigabitEthernet3/0/13
!
interface GigabitEthernet3/0/14
!
interface GigabitEthernet3/0/15
!
interface GigabitEthernet3/0/16
!
interface GigabitEthernet3/0/17
!
interface GigabitEthernet3/0/18
!
interface GigabitEthernet3/0/19
!
interface GigabitEthernet3/0/20
!
interface GigabitEthernet3/0/21
!
interface GigabitEthernet3/0/22
!
interface GigabitEthernet3/0/23
!
interface GigabitEthernet3/0/24
!
```



```
interface GigabitEthernet3/0/25
!
interface GigabitEthernet3/0/26
!
interface GigabitEthernet3/0/27
!
interface GigabitEthernet3/0/28
!
interface GigabitEthernet3/0/29
!
interface GigabitEthernet3/0/30
!
interface GigabitEthernet3/0/31
!
interface GigabitEthernet3/0/32
!
interface GigabitEthernet3/0/33
!
interface GigabitEthernet3/0/34
!
interface GigabitEthernet3/0/35
!
interface GigabitEthernet3/0/36
!
interface GigabitEthernet3/0/37
!
interface GigabitEthernet3/0/38
!
interface GigabitEthernet3/0/39
!
interface GigabitEthernet3/0/40
!
interface GigabitEthernet3/0/41
!
interface GigabitEthernet3/0/42
!
interface GigabitEthernet3/0/43
!
interface GigabitEthernet3/0/44
!
interface GigabitEthernet3/0/45
!
interface GigabitEthernet3/0/46
!
interface GigabitEthernet3/0/47
!
```

```
interface GigabitEthernet3/0/48
description Connected to FlashNet
switchport access vlan 2
switchport mode access
load-interval 30
!
interface GigabitEthernet3/0/49
description Connected to cr24-4507-DO
switchport trunk native vlan 803
switchport trunk allowed vlan 111-120,900
switchport mode trunk
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol lacp
channel-group 1 mode active
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet3/0/50
!
interface GigabitEthernet3/0/51
!
interface GigabitEthernet3/0/52
!
interface Vlan1
ip address dhcp
shutdown
!
interface Vlan2
description Connected to FlashNet - DO NOT ROUTE
ip address 172.26.160.190 255.255.254.0
no ip redirects
no ip proxy-arp
load-interval 30
!
interface Vlan900
description Mgmt_VLAN
ip address 10.125.34.3 255.255.255.224
no ip redirects
no ip unreachable
load-interval 30
```

```
!  
no ip http server  
no ip http secure-server  
!  
ip access-list standard Allowed_MCAST_Groups  
  permit 224.0.1.39  
  permit 224.0.1.40  
  permit 239.192.0.0 0.0.255.255  
ip access-list standard Deny_PIM_DM_Fallback  
  deny 224.0.1.39  
  deny 224.0.1.40  
  permit any  
!  
ip access-list extended BULK-DATA  
  remark FTP  
  permit tcp any any eq ftp  
  permit tcp any any eq ftp-data  
  remark SSH/SFTP  
  permit tcp any any eq 22  
  remark SMTP/SECURE SMTP  
  permit tcp any any eq smtp  
  permit tcp any any eq 465  
  remark IMAP/SECURE IMAP  
  permit tcp any any eq 143  
  permit tcp any any eq 993  
  remark POP3/SECURE POP3  
  permit tcp any any eq pop3  
  permit tcp any any eq 995  
  remark CONNECTED PC BACKUP  
  permit tcp any eq 1914 any  
ip access-list extended DEFAULT  
  remark EXPLICIT CLASS-DEFAULT  
  permit ip any any  
ip access-list extended MULTIMEDIA-CONFERENCING  
  remark RTP  
  permit udp any any range 16384 32767  
ip access-list extended PERMIT-SOURCES  
  permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255  
ip access-list extended PXE  
  permit tcp any any established  
  permit udp any any eq bootps  
  permit udp any host 10.125.31.11 eq domain  
  permit udp any host 10.125.31.12 eq tftp  
ip access-list extended SCAVENGER  
  remark KAZAA  
  permit tcp any any eq 1214
```

```
  permit udp any any eq 1214  
  remark MICROSOFT DIRECT X GAMING  
  permit tcp any any range 2300 2400  
  permit udp any any range 2300 2400  
  remark APPLE ITUNES MUSIC SHARING  
  permit tcp any any eq 3689  
  permit udp any any eq 3689  
  remark BITTORRENT  
  permit tcp any any range 6881 6999  
  remark YAHOO GAMES  
  permit tcp any any eq 11999  
  remark MSN GAMING ZONE  
  permit tcp any any range 28800 29100  
ip access-list extended SIGNALING  
  remark SCCP  
  permit tcp any any range 2000 2002  
  remark SIP  
  permit tcp any any range 5060 5061  
  permit udp any any range 5060 5061  
ip access-list extended TRANSACTIONAL-DATA  
  remark HTTPS  
  permit tcp any any eq 443  
  remark ORACLE-SQL*NET  
  permit tcp any any eq 1521  
  permit udp any any eq 1521  
  remark ORACLE  
  permit tcp any any eq 1526  
  permit udp any any eq 1526  
  permit tcp any any eq 1575  
  permit udp any any eq 1575  
  permit tcp any any eq 1630  
snmp-server community public RO  
snmp-server community k12 RW  
snmp-server trap-source Loopback0  
snmp-server host 172.26.158.251 version 2c k12  
radius-server dead-criteria time 15 tries 3  
radius-server host 10.125.31.4 auth-port 1645 acct-port 1646 key 7  
094F471A1A0A5B43595F  
radius-server deadtime 1  
!  
control-plane  
!  
alias exec dsno show ip dhcp snooping bind  
alias exec ct config t  
alias exec srb sh run | begin  
alias exec sri sh run int
```

```
alias exec cl clear logg
alias exec rib show ip route
alias exec ec sh etherchannel
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
!
line con 0
  exec-timeout 0 0
  password 7 121A0C041104
  logging synchronous
  speed 115200
line vty 0 4
  exec-timeout 0 0
  password 7 121A0C041104
  logging synchronous
line vty 5 15
  exec-timeout 0 0
!
ntp clock-period 36028631
ntp server 172.26.160.10
end
```

```
Cr24-3560r-DO
!
! Last configuration change at 22:53:38 EDT Wed Sep 2 2009 by cisco
! NVRAM config last updated at 22:53:54 EDT Wed Sep 2 2009 by cisco
!
version 12.2
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
service password-encryption
!
hostname cr24-3560r-DO
!
boot-start-marker
boot-end-marker
!
enable secret 5 $1$nwph$/o52o3VuKVOHNwYCaEu/w.
enable password 7 13061E010803
!
aaa new-model
!
```

```
!
aaa authentication login default group radius enable line
aaa authentication dot1x default group radius
!
!
!
aaa session-id common
clock timezone EST -5
clock summer-time EDT recurring
system mtu routing 1500
vtp domain District-Office
vtp mode transparent
ip subnet-zero
ip routing
no ip domain-lookup
!
!
ip dhcp snooping vlan 11-20
no ip dhcp snooping information option
ip dhcp snooping
ip multicast-routing distributed
ip arp inspection vlan 11-20
ip arp inspection validate src-mac dst-mac ip allow zeros
!
mls qos map cos-dscp 0 8 16 24 32 46 48 56
mls qos srr-queue input bandwidth 70 30
mls qos srr-queue input threshold 1 80 90
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input dscp-map queue 1 threshold 2 24
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28
30 34
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38
mls qos srr-queue output dscp-map queue 2 threshold 2 24
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56
mls qos srr-queue output dscp-map queue 3 threshold 3 0
mls qos srr-queue output dscp-map queue 4 threshold 1 8
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14
mls qos queue-set output 1 threshold 2 80 90 100 100
mls qos queue-set output 1 threshold 4 60 100 100 100
mls qos
!
key chain eigrp-key
  key 1
```

```
key-string 7 045802150C2E
!
crypto pki trustpoint TP-self-signed-3151740416
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-3151740416
  revocation-check none
  rsakeypair TP-self-signed-3151740416
!
!
crypto pki certificate chain TP-self-signed-3151740416
  certificate self-signed 01 nvram:IOS-Self-Sig#3636.cer
dot1x system-auth-control
dot1x guest-vlan supplicant
!
!
!
errdisable recovery cause udd
errdisable recovery cause bpduguard
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause storm-control
errdisable recovery cause arp-inspection
errdisable recovery interval 120
port-channel load-balance src-dst-ip
!
!
!
spanning-tree mode rapid-pvst
no spanning-tree optimize bpdu transmission
spanning-tree etherchannel guard misconfig
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 11-20
!
vlan 203
  name Guest_VLAN
!
ip ftp username nimishguest
ip ftp password 7 030A5F0C130A3258
!
class-map match-all BULK-DATA
  match access-group name BULK-DATA
class-map match-all VVLAN-SIGNALING
  match ip dscp cs3
class-map match-all MULTIMEDIA-CONFERENCING
```

```
  match access-group name MULTIMEDIA-CONFERENCING
class-map match-all DEFAULT
  match access-group name DEFAULT
class-map match-all SCAVENGER
  match access-group name SCAVENGER
class-map match-all SIGNALING
  match access-group name SIGNALING
class-map match-all VVLAN-VOIP
  match ip dscp ef
class-map match-all TRANSACTIONAL-DATA
  match access-group name TRANSACTIONAL-DATA
!
!
policy-map Phone-Policy
  class VVLAN-VOIP
    police 128000 8000 exceed-action drop
    set dscp ef
  class VVLAN-SIGNALING
    police 32000 8000 exceed-action drop
    set dscp cs3
policy-map UnTrusted-PC-Policy
  class class-default
    police 10000000 8000 exceed-action drop
    set dscp default
policy-map Trusted-PC-Policy
  class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
  class SIGNALING
    set dscp cs3
    police 32000 8000 exceed-action drop
  class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
  class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
  class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
  class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
policy-map Phone+PC-Policy
  class VVLAN-VOIP
    police 128000 8000 exceed-action drop
```

```
    set dscp ef
class VVLAN-SIGNALING
    police 32000 8000 exceed-action drop
    set dscp cs3
class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
class SIGNALING
    set dscp cs3
    police 32000 8000 exceed-action drop
class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
!
!
!
!
interface Loopback0
    ip address 10.125.100.4 255.255.255.255
!
interface Port-channel1
    description Connected to cr24-4507-DO
    no switchport
    dampening
    ip address 10.125.32.1 255.255.255.254
    ip pim sparse-mode
    ip authentication mode eigrp 100 md5
    ip authentication key-chain eigrp 100 eigrp-key
    load-interval 30
    carrier-delay msec 0
    hold-queue 2000 in
    hold-queue 2000 out
!
interface FastEthernet0/1
    description CONNECTED TO UNTRUSTED-PC
    switchport access vlan 11
    switchport mode access
```

```
    switchport block unicast
    switchport port-security
    switchport port-security aging time 5
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    load-interval 30
    srr-queue bandwidth share 1 30 35 5
    priority-queue out
    no mdix auto
    storm-control broadcast level pps 1k
    storm-control multicast level pps 2k
    storm-control action trap
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy input UnTrusted-PC-Policy
    ip verify source
!
interface FastEthernet0/2
    description CONNECTED TO TRUSTED-PC
    switchport access vlan 12
    switchport mode access
    switchport block unicast
    switchport port-security
    switchport port-security aging time 5
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    load-interval 30
    srr-queue bandwidth share 1 30 35 5
    priority-queue out
    mls qos trust dscp
    storm-control broadcast level pps 1k
    storm-control multicast level pps 2k
    storm-control action trap
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy input Trusted-PC-Policy
    ip verify source
!
interface FastEthernet0/3
    description CONNECTED TO PHONE
    switchport mode access
    switchport block unicast
    switchport voice vlan 13
    switchport port-security maximum 2
```

```
switchport port-security maximum 1 vlan access
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security violation restrict
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
no mdix auto
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
service-policy input Phone-Policy
ip verify source
!
interface FastEthernet0/4
description CONNECTED TO PHONE+PC
switchport access vlan 14
switchport mode access
switchport block unicast
switchport voice vlan 15
switchport port-security maximum 3
switchport port-security maximum 2 vlan access
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
no mdix auto
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Phone+PC-Policy
ip verify source
!
```

```
interface FastEthernet0/5
description CONNECTED TO IPVS 2500 - CAMERA
switchport access vlan 16
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no mdix auto
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/6
description CONNECTED TO IPVS 4500 - CAMERA
switchport access vlan 17
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no mdix auto
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/7
description CONNECTED TO DIGITAL MEDIA PLAYER
switchport access vlan 18
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
```

```
mls qos trust dscp
no mdix auto
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/8
no mdix auto
!
interface FastEthernet0/9
switchport access vlan 11
switchport mode access
no mdix auto
spanning-tree portfast
!
interface FastEthernet0/10
description Connected to IXIA - ALM - 2/3
switchport trunk encapsulation dot1q
switchport trunk native vlan 203
switchport trunk allowed vlan 11-20
switchport mode trunk
switchport nonegotiate
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no mdix auto
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface FastEthernet0/11
description Connected to IXIA - STX - 3/3
switchport trunk encapsulation dot1q
switchport trunk native vlan 203
switchport trunk allowed vlan 11-20
switchport mode trunk
switchport nonegotiate
ip arp inspection trust
load-interval 30
```

```
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no mdix auto
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface FastEthernet0/12
no mdix auto
!
interface FastEthernet0/13
no mdix auto
!
interface FastEthernet0/14
no mdix auto
!
interface FastEthernet0/15
no mdix auto
!
interface FastEthernet0/16
no mdix auto
!
interface FastEthernet0/17
no mdix auto
!
interface FastEthernet0/18
no mdix auto
!
interface FastEthernet0/19
no mdix auto
!
interface FastEthernet0/20
no mdix auto
!
interface FastEthernet0/21
no mdix auto
!
interface FastEthernet0/22
no mdix auto
!
interface FastEthernet0/23
no mdix auto
```

```
!  
interface FastEthernet0/24  
  no mdix auto  
!  
interface FastEthernet0/25  
  no mdix auto  
!  
interface FastEthernet0/26  
  no mdix auto  
!  
interface FastEthernet0/27  
  no mdix auto  
!  
interface FastEthernet0/28  
  no mdix auto  
!  
interface FastEthernet0/29  
  no mdix auto  
!  
interface FastEthernet0/30  
  no mdix auto  
!  
interface FastEthernet0/31  
  no mdix auto  
!  
interface FastEthernet0/32  
  no mdix auto  
!  
interface FastEthernet0/33  
  no mdix auto  
!  
interface FastEthernet0/34  
  no mdix auto  
!  
interface FastEthernet0/35  
  no mdix auto  
!  
interface FastEthernet0/36  
  no mdix auto  
!  
interface FastEthernet0/37  
  no mdix auto  
!  
interface FastEthernet0/38  
  no mdix auto  
!
```

```
interface FastEthernet0/39  
  no mdix auto  
!  
interface FastEthernet0/40  
  no mdix auto  
!  
interface FastEthernet0/41  
  no mdix auto  
!  
interface FastEthernet0/42  
  no mdix auto  
!  
interface FastEthernet0/43  
  no mdix auto  
!  
interface FastEthernet0/44  
  no mdix auto  
!  
interface FastEthernet0/45  
  no mdix auto  
!  
interface FastEthernet0/46  
  no mdix auto  
!  
interface FastEthernet0/47  
  no mdix auto  
!  
interface FastEthernet0/48  
  no switchport  
  ip address 172.26.160.187 255.255.254.0  
  no ip redirects  
  no ip proxy-arp  
  no mdix auto  
!  
interface GigabitEthernet0/1  
  description Connected to cr24-4507-DO  
  no switchport  
  no ip address  
  load-interval 30  
  carrier-delay msec 0  
  srr-queue bandwidth share 1 30 35 5  
  priority-queue out  
  uddl port  
  mls qos trust dscp  
  channel-protocol pagp  
  channel-group 1 mode desirable
```



```
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet0/2
description Connected to cr24-4507-DO
no switchport
no ip address
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol pagp
channel-group 1 mode desirable
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet0/3
!
interface GigabitEthernet0/4
!
interface Vlan1
no ip address
shutdown
!
interface Vlan11
dampening
ip address 10.125.11.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan12
dampening
ip address 10.125.11.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan13
dampening
```

```
ip address 10.125.12.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan14
dampening
ip address 10.125.12.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan15
dampening
ip address 10.125.13.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan16
dampening
ip address 10.125.13.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan17
dampening
ip address 10.125.14.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan18
dampening
ip address 10.125.14.129 255.255.255.128
```

```
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan19
  dampening
  ip address 10.125.15.1 255.255.255.128
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachable
  ip pim sparse-mode
  load-interval 30
!
interface Vlan20
  dampening
  ip address 10.125.15.129 255.255.255.128
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachable
  ip pim sparse-mode
  load-interval 30
!
!
router eigrp 100
  passive-interface default
  no passive-interface Port-channel1
  no auto-summary
  eigrp router-id 10.125.100.4
  eigrp stub connected
  network 10.125.0.0 0.0.255.255
!
ip classless
no ip http server
no ip http secure-server
ip pim rp-address 10.125.100.100 Allowed_MCAST_Groups override
ip pim spt-threshold infinity
ip pim accept-register list PERMIT-SOURCES
!
!
ip access-list standard Allowed_MCAST_Groups
  permit 224.0.1.39
  permit 224.0.1.40
  permit 239.192.0.0 0.0.255.255
ip access-list standard Deny_PIM_DM_Fallback
  deny 224.0.1.39
  deny 224.0.1.40
  permit any
!
ip access-list extended BULK-DATA
  remark FTP
  permit tcp any any eq ftp
  permit tcp any any eq ftp-data
  remark SSH/SFTP
  permit tcp any any eq 22
  remark SMTP/SECURE SMTP
  permit tcp any any eq smtp
  permit tcp any any eq 465
  remark IMAP/SECURE IMAP
  permit tcp any any eq 143
  permit tcp any any eq 993
  remark POP3/SECURE POP3
  permit tcp any any eq pop3
  permit tcp any any eq 995
  remark CONNECTED PC BACKUP
  permit tcp any eq 1914 any
ip access-list extended DEFAULT
  remark EXPLICIT CLASS-DEFAULT
  permit ip any any
ip access-list extended MULTIMEDIA-CONFERENCING
  remark RTP
  permit udp any any range 16384 32767
ip access-list extended PERMIT-SOURCES
  permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255
ip access-list extended PXE
  permit tcp any any established
  permit udp any any eq bootps
  permit udp any host 10.125.31.11 eq domain
  permit udp any host 10.125.31.12 eq tftp
ip access-list extended SCAVENGER
  remark KAZAA
  permit tcp any any eq 1214
  permit udp any any eq 1214
  remark MICROSOFT DIRECT X GAMING
  permit tcp any any range 2300 2400
  permit udp any any range 2300 2400
  remark APPLE ITUNES MUSIC SHARING
  permit tcp any any eq 3689
  permit udp any any eq 3689
  remark BITTORRENT
  permit tcp any any range 6881 6999
```

```
remark YAHOO GAMES
permit tcp any any eq 11999
remark MSN GAMING ZONE
permit tcp any any range 28800 29100
ip access-list extended SIGNALING
remark SCCP
permit tcp any any range 2000 2002
remark SIP
permit tcp any any range 5060 5061
permit udp any any range 5060 5061
ip access-list extended TRANSACTIONAL-DATA
remark HTTPS
permit tcp any any eq 443
remark ORACLE-SQL*NET
permit tcp any any eq 1521
permit udp any any eq 1521
remark ORACLE
permit tcp any any eq 1526
permit udp any any eq 1526
permit tcp any any eq 1575
permit udp any any eq 1575
permit tcp any any eq 1630
!
!
snmp-server community public RO
snmp-server community k12 RW
snmp-server trap-source Loopback0
snmp-server host 172.26.158.251 version 2c k12
radius-server dead-criteria time 15 tries 3
radius-server host 10.125.31.4 auth-port 1645 acct-port 1646 key 7
00071A15075447575D72
radius-server deadtime 1
!
control-plane
!
alias exec dsno show ip dhcp snooping bind
alias exec ct config t
alias exec srb sh run | begin
alias exec sri sh run int
alias exec cl clear logg
alias exec rib show ip route
alias exec ec sh etherchannel
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
```

```
!
line con 0
exec-timeout 0 0
password 7 121A0C041104
logging synchronous
line vty 0 4
exec-timeout 0 0
password 7 121A0C041104
line vty 5 15
exec-timeout 0 0
!
ntp clock-period 36028444
ntp server 172.26.160.10
end
```

```
Cr25-3750-DO
!
! Last configuration change at 22:53:38 EDT Wed Sep 2 2009 by cisco
! NVRAM config last updated at 22:53:54 EDT Wed Sep 2 2009 by cisco
!
version 12.2
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
service password-encryption
!
hostname cr25-3750-DO
!
boot-start-marker
boot-end-marker
!
enable secret 5 $1$rZnh$VH5sfvkInDxIlKe6Hv1HO.
enable password 7 094F471A1A0A
!
aaa new-model
!
!
aaa authentication login default group radius enable line
aaa authentication dot1x default group radius
!
!
!
aaa session-id common
clock timezone EST -5
clock summer-time EDT recurring
```

```
switch 1 provision ws-c3750g-24ts-1u
system mtu routing 1500
vtp domain District-Office
vtp mode transparent
ip subnet-zero
no ip domain-lookup
!
!
ip dhcp snooping vlan 121-130
no ip dhcp snooping information option
ip dhcp snooping
ip multicast-routing distributed
ip arp inspection vlan 121-130
ip arp inspection validate src-mac dst-mac ip allow zeros
!
mls qos map cos-dscp 0 8 16 24 32 46 48 56
mls qos srr-queue input bandwidth 70 30
mls qos srr-queue input threshold 1 80 90
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input dscp-map queue 1 threshold 2 24
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28
30 34
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38
mls qos srr-queue output dscp-map queue 2 threshold 2 24
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56
mls qos srr-queue output dscp-map queue 3 threshold 3 0
mls qos srr-queue output dscp-map queue 4 threshold 1 8
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14
mls qos queue-set output 1 threshold 2 80 90 100 100
mls qos queue-set output 1 threshold 4 60 100 100 100
mls qos
!
crypto pki trustpoint TP-self-signed-250233728
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-250233728
  revocation-check none
  rsakeypair TP-self-signed-250233728
!
!
crypto pki certificate chain TP-self-signed-250233728
  certificate self-signed 01 nvram:IOS-Self-Sig#3838.cer
dot1x system-auth-control
dot1x guest-vlan supplicant
```

```
!
!
!
errdisable recovery cause udd
errdisable recovery cause bpduguard
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause storm-control
errdisable recovery cause arp-inspection
errdisable recovery interval 120
port-channel load-balance src-dst-ip
!
!
!
spanning-tree mode rapid-pvst
spanning-tree etherchannel guard misconfig
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 121
  name cr25_3750_Dept21
!
vlan 122
  name cr25_3750_Dept22
!
vlan 123
  name cr25_3750_Dept23
!
vlan 124
  name cr25_3750_Dept24
!
vlan 125
  name cr25_3750_Dept25
!
vlan 126
  name cr25_3750_Dept26
!
vlan 127
  name cr25_3750_Dept27
!
vlan 128
  name cr25_3750_Dept28
!
vlan 129
  name cr25_3750_Dept29
!
```

```
vlan 130
  name cr25_3750_Dept30
!
vlan 204
  name Guest_VLAN
!
vlan 804
  name Hopping_VLAN
!
vlan 900
  name Mgmt_VLAN
!
ip ftp username nimishguest
ip ftp password 7 0701254B5B0C0A11
!
class-map match-all BULK-DATA
  match access-group name BULK-DATA
class-map match-all VVLAN-SIGNALING
  match ip dscp cs3
class-map match-all MULTIMEDIA-CONFERENCING
  match access-group name MULTIMEDIA-CONFERENCING
class-map match-all DEFAULT
  match access-group name DEFAULT
class-map match-all SCAVENGER
  match access-group name SCAVENGER
class-map match-all SIGNALING
  match access-group name SIGNALING
class-map match-all VVLAN-VOIP
  match ip dscp ef
class-map match-all TRANSACTIONAL-DATA
  match access-group name TRANSACTIONAL-DATA
!
!
policy-map Phone-Policy
  class VVLAN-VOIP
    police 128000 8000 exceed-action drop
    set dscp ef
  class VVLAN-SIGNALING
    police 32000 8000 exceed-action drop
    set dscp cs3
policy-map UnTrusted-PC-Policy
  class class-default
    police 10000000 8000 exceed-action drop
    set dscp default
policy-map Trusted-PC-Policy
  class MULTIMEDIA-CONFERENCING
```

```
  set dscp af41
  police 5000000 8000 exceed-action drop
class SIGNALING
  set dscp cs3
  police 32000 8000 exceed-action drop
class TRANSACTIONAL-DATA
  set dscp af21
  police 10000000 8000 exceed-action policed-dscp-transmit
class BULK-DATA
  set dscp af11
  police 10000000 8000 exceed-action policed-dscp-transmit
class SCAVENGER
  set dscp cs1
  police 10000000 8000 exceed-action drop
class DEFAULT
  set dscp default
  police 10000000 8000 exceed-action policed-dscp-transmit
policy-map Phone+PC-Policy
  class VVLAN-VOIP
    police 128000 8000 exceed-action drop
    set dscp ef
  class VVLAN-SIGNALING
    police 32000 8000 exceed-action drop
    set dscp cs3
  class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
  class SIGNALING
    set dscp cs3
    police 1000000 8000 exceed-action drop
  class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
  class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
  class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
  class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
!
!
!
!
```

```
interface Loopback0
 ip address 10.125.100.5 255.255.255.255
!
interface Port-channel1
 description Connected to cr24-4507-DO
 switchport trunk encapsulation dot1q
 switchport trunk native vlan 804
 switchport trunk allowed vlan 121-130,204,900
 switchport mode trunk
 ip arp inspection trust
 load-interval 30
 carrier-delay msec 0
 hold-queue 2000 in
 hold-queue 2000 out
 ip dhcp snooping trust
!
interface GigabitEthernet1/0/1
 description CONNECTED TO UNTRUSTED PC
 switchport access vlan 121
 switchport mode access
 switchport block unicast
 switchport port-security
 switchport port-security aging time 5
 switchport port-security violation restrict
 switchport port-security aging type inactivity
 ip arp inspection limit rate 100
 load-interval 30
 srr-queue bandwidth share 1 30 35 5
 priority-queue out
 storm-control broadcast level pps 1k
 storm-control multicast level pps 2k
 storm-control action trap
 spanning-tree portfast
 spanning-tree bpduguard enable
 service-policy input UnTrusted-PC-Policy
 ip verify source
!
interface GigabitEthernet1/0/2
 description CONNECTED TO TRUSTED-PC
 switchport access vlan 122
 switchport mode access
 switchport block unicast
 switchport port-security
 switchport port-security aging time 5
 switchport port-security violation restrict
 switchport port-security aging type inactivity
```

```
 ip arp inspection limit rate 100
 load-interval 30
 srr-queue bandwidth share 1 30 35 5
 priority-queue out
 mls qos trust dscp
 storm-control broadcast level pps 1k
 storm-control multicast level pps 2k
 storm-control action trap
 spanning-tree portfast
 spanning-tree bpduguard enable
 service-policy input Trusted-PC-Policy
 ip verify source
!
interface GigabitEthernet1/0/3
 description CONNECTED TO PHONE
 switchport mode access
 switchport block unicast
 switchport voice vlan 123
 switchport port-security maximum 2
 switchport port-security maximum 1 vlan access
 switchport port-security maximum 1 vlan voice
 switchport port-security
 switchport port-security violation restrict
 ip arp inspection limit rate 100
 load-interval 30
 srr-queue bandwidth share 1 30 35 5
 priority-queue out
 mls qos trust device cisco-phone
 mls qos trust dscp
 storm-control broadcast level pps 1k
 storm-control multicast level pps 2k
 storm-control action trap
 spanning-tree portfast
 service-policy input Phone-Policy
 ip verify source
!
interface GigabitEthernet1/0/4
 description CONNECTED TO PHONE+PC
 switchport access vlan 124
 switchport mode access
 switchport block unicast
 switchport voice vlan 125
 switchport port-security maximum 3
 switchport port-security maximum 2 vlan access
 switchport port-security maximum 1 vlan voice
 switchport port-security
```

```
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Phone+PC-Policy
ip verify source
!
interface GigabitEthernet1/0/5
description CONNECTED TO IPVS 2500 - CAMERA
switchport access vlan 126
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet1/0/6
description CONNECTED TO IPVS 4500 - CAMERA
switchport access vlan 127
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
```

```
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet1/0/7
description CONNECTED TO DIGITAL MEDIA PLAYER
switchport access vlan 128
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet1/0/8
srr-queue bandwidth share 1 30 35 5
priority-queue out
!
interface GigabitEthernet1/0/9
!
interface GigabitEthernet1/0/10
description Connected to IXIA - ALM - 2/4
switchport trunk encapsulation dot1q
switchport trunk native vlan 804
switchport trunk allowed vlan 121-130
switchport mode trunk
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
```

```
interface GigabitEthernet1/0/11
description Connected to IXIA - STX - 3/4
switchport trunk encapsulation dot1q
switchport trunk native vlan 804
switchport trunk allowed vlan 121-130
switchport mode trunk
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet1/0/12
!
interface GigabitEthernet1/0/13
!
interface GigabitEthernet1/0/14
!
interface GigabitEthernet1/0/15
!
interface GigabitEthernet1/0/16
!
interface GigabitEthernet1/0/17
!
interface GigabitEthernet1/0/18
!
interface GigabitEthernet1/0/19
!
interface GigabitEthernet1/0/20
!
interface GigabitEthernet1/0/21
!
interface GigabitEthernet1/0/22
!
interface GigabitEthernet1/0/23
!
interface GigabitEthernet1/0/24
description Flashnet DO NOT ROUTE
no switchport
ip address 172.26.160.200 255.255.254.0
```

```
no ip proxy-arp
duplex full
!
interface GigabitEthernet1/0/25
!
interface GigabitEthernet1/0/26
!
interface GigabitEthernet1/0/27
description Connected to cr24-4507-DO
switchport trunk encapsulation dot1q
switchport trunk native vlan 804
switchport trunk allowed vlan 121-130,204,900
switchport mode trunk
ip arp inspection trust
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol pagp
channel-group 1 mode desirable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet1/0/28
description Connected to cr24-4507-DO
switchport trunk encapsulation dot1q
switchport trunk native vlan 804
switchport trunk allowed vlan 121-130,204,900
switchport mode trunk
ip arp inspection trust
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol pagp
channel-group 1 mode desirable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface Vlan1
```



```
no ip address
shutdown
!
interface Vlan900
  description Mgmt_VLAN
  ip address 10.125.34.4 255.255.255.224
  no ip redirects
  no ip unreachable
  ip pim sparse-mode
  load-interval 30
!
ip classless
ip route 172.26.158.0 255.255.255.0 172.26.160.1
no ip http server
no ip http secure-server
ip pim rp-address 10.125.100.100 Allowed_MCAST_Groups override
ip pim spt-threshold infinity
ip pim accept-register list PERMIT-SOURCES
!
!
ip access-list standard Allowed_MCAST_Groups
  permit 224.0.1.39
  permit 224.0.1.40
  permit 239.192.0.0 0.0.255.255
ip access-list standard Deny_PIM_DM_Fallback
  deny 224.0.1.39
  deny 224.0.1.40
  permit any
!
ip access-list extended BULK-DATA
  remark FTP
  permit tcp any any eq ftp
  permit tcp any any eq ftp-data
  remark SSH/SFTP
  permit tcp any any eq 22
  remark SMTP/SECURE SMTP
  permit tcp any any eq smtp
  permit tcp any any eq 465
  remark IMAP/SECURE IMAP
  permit tcp any any eq 143
  permit tcp any any eq 993
  remark POP3/SECURE POP3
  permit tcp any any eq pop3
  permit tcp any any eq 995
  remark CONNECTED PC BACKUP
  permit tcp any eq 1914 any
```

```
ip access-list extended DEFAULT
  remark EXPLICIT CLASS-DEFAULT
  permit ip any any
ip access-list extended MULTIMEDIA-CONFERENCING
  remark RTP
  permit udp any any range 16384 32767
ip access-list extended PERMIT-SOURCES
  permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255
ip access-list extended PXE
  permit tcp any any established
  permit udp any any eq bootps
  permit udp any host 10.125.31.11 eq domain
  permit udp any host 10.125.31.12 eq tftp
ip access-list extended SCAVENGER
  remark KAZAA
  permit tcp any any eq 1214
  permit udp any any eq 1214
  remark MICROSOFT DIRECT X GAMING
  permit tcp any any range 2300 2400
  permit udp any any range 2300 2400
  remark APPLE ITUNES MUSIC SHARING
  permit tcp any any eq 3689
  permit udp any any eq 3689
  remark BITTORRENT
  permit tcp any any range 6881 6999
  remark YAHOO GAMES
  permit tcp any any eq 11999
  remark MSN GAMING ZONE
  permit tcp any any range 28800 29100
ip access-list extended SIGNALING
  remark SCCP
  permit tcp any any range 2000 2002
  remark SIP
  permit tcp any any range 5060 5061
  permit udp any any range 5060 5061
ip access-list extended TRANSACTIONAL-DATA
  remark HTTPS
  permit tcp any any eq 443
  remark ORACLE-SQL*NET
  permit tcp any any eq 1521
  permit udp any any eq 1521
  remark ORACLE
  permit tcp any any eq 1526
  permit udp any any eq 1526
  permit tcp any any eq 1575
  permit udp any any eq 1575
```

```
permit tcp any any eq 1630
!
!
snmp-server community public RO
snmp-server community k12 RW
snmp-server trap-source Loopback0
snmp-server host 172.26.158.251 version 2c k12
radius-server dead-criteria time 15 tries 3
radius-server host 10.125.31.4 auth-port 1645 acct-port 1646 key 7
13061E010803487B7977
radius-server deadtime 1
!
control-plane
!
alias exec dsno show ip dhcp snooping bind
alias exec ct config t
alias exec srb sh run | begin
alias exec sri sh run int
alias exec cl clear logg
alias exec rib show ip route
alias exec ec sh etherchannel
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
!
line con 0
  exec-timeout 0 0
  password 7 121A0C041104
line vty 0 4
  exec-timeout 0 0
  password 7 121A0C041104
line vty 5 15
  exec-timeout 0 0
!
ntp clock-period 36029250
ntp server 172.26.160.10
end

Cr26-3750r-DO
!
! Last configuration change at 22:53:38 EDT Wed Sep 2 2009 by cisco
! NVRAM config last updated at 22:53:54 EDT Wed Sep 2 2009 by cisco
!
version 12.2
```

```
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
service password-encryption
!
hostname cr26-3750r-DO
!
boot-start-marker
boot-end-marker
!
enable secret 5 $1$d/Sc$Ha0.t0aRa.T2i2rSdNk7e1
enable password 7 05080F1C2243
!
aaa new-model
!
!
aaa authentication login default group radius enable line
aaa authentication dot1x default group radius
!
!
!
aaa session-id common
clock timezone EST -5
clock summer-time EDT recurring
switch 1 provision ws-c3750e-24pd
switch 2 provision ws-c3750e-24pd
switch 3 provision ws-c3750e-24pd
stack-mac persistent timer 0
system mtu routing 1500
vtp domain District-Office
vtp mode transparent
ip subnet-zero
ip routing
no ip domain-lookup
!
!
ip dhcp snooping vlan 11-20
no ip dhcp snooping information option
ip dhcp snooping
ip multicast-routing distributed
ip arp inspection vlan 11-20
ip arp inspection validate src-mac dst-mac ip allow zeros
!
mls qos map cos-dscp 0 8 16 24 32 46 48 56
mls qos srr-queue input bandwidth 70 30
mls qos srr-queue input threshold 1 80 90
```

```
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input dscp-map queue 1 threshold 2 24
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28
30 34
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38
mls qos srr-queue output dscp-map queue 2 threshold 2 24
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56
mls qos srr-queue output dscp-map queue 3 threshold 3 0
mls qos srr-queue output dscp-map queue 4 threshold 1 8
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14
mls qos queue-set output 1 threshold 2 80 90 100 100
mls qos queue-set output 1 threshold 4 60 100 100 100
mls qos
!
key chain eigrp-key
  key 1
    key-string 7 104D000A0618
!
crypto pki trustpoint TP-self-signed-1384443008
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-1384443008
  revocation-check none
  rsakeypair TP-self-signed-1384443008
!
crypto pki trustpoint TP-self-signed-721582080
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-721582080
  revocation-check none
  rsakeypair TP-self-signed-721582080
!
!
crypto pki certificate chain TP-self-signed-1384443008
  certificate self-signed
  quit
crypto pki certificate chain TP-self-signed-721582080
license boot level ipservices switch 1
license boot level ipservices switch 3
license boot level ipservices
dot1x system-auth-control
dot1x guest-vlan supplicant
!
!
!
```

```
errdisable recovery cause uddld
errdisable recovery cause bpduguard
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause storm-control
errdisable recovery cause arp-inspection
errdisable recovery interval 120
!
!
!
spanning-tree mode rapid-pvst
spanning-tree etherchannel guard misconfig
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 11-20
!
vlan 205
  name Guest_VLAN
!
vlan 900
!
!
class-map match-all BULK-DATA
  match access-group name BULK-DATA
class-map match-all VVLAN-SIGNALING
  match ip dscp cs3
class-map match-all MULTIMEDIA-CONFERENCING
  match access-group name MULTIMEDIA-CONFERENCING
class-map match-all DEFAULT
  match access-group name DEFAULT
class-map match-all SCAVENGER
  match access-group name SCAVENGER
class-map match-all SIGNALING
  match access-group name SIGNALING
class-map match-all VVLAN-VOIP
  match ip dscp ef
class-map match-all TRANSACTIONAL-DATA
  match access-group name TRANSACTIONAL-DATA
!
!
policy-map Phone-Policy
  class VVLAN-VOIP
    police 128000 8000 exceed-action drop
  set dscp ef
  class VVLAN-SIGNALING
```

```
    police 32000 8000 exceed-action drop
    set dscp cs3
policy-map UnTrusted-PC-Policy
class class-default
    police 10000000 8000 exceed-action drop
    set dscp default
policy-map Trusted-PC-Policy
class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
class SIGNALING
    set dscp cs3
    police 32000 8000 exceed-action drop
class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
policy-map Phone+PC-Policy
class VVLAN-VOIP
    police 128000 8000 exceed-action drop
    set dscp ef
class VVLAN-SIGNALING
    police 32000 8000 exceed-action drop
    set dscp cs3
class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
class SIGNALING
    set dscp cs3
    police 1000000 8000 exceed-action drop
class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
class SCAVENGER
    set dscp cs1
```

```
    police 10000000 8000 exceed-action drop
class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
!
!
!
!
interface Loopback0
    ip address 10.125.100.6 255.255.255.255
!
interface Port-channel1
    description Connected to cr24-4507-D0
    no switchport
    dampening
    ip address 10.125.32.3 255.255.255.254
    ip pim sparse-mode
    ip authentication mode eigrp 100 md5
    ip authentication key-chain eigrp 100 eigrp-key
    load-interval 30
    carrier-delay msec 0
    hold-queue 2000 in
    hold-queue 2000 out
!
interface FastEthernet0
    no ip address
    no ip route-cache cef
    no ip route-cache
    no ip mroute-cache
    shutdown
!
interface GigabitEthernet1/0/1
    description CONNECTED TO UNTRUSTED PC
    switchport access vlan 11
    switchport mode access
    switchport block unicast
    switchport port-security
    switchport port-security aging time 5
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    load-interval 30
    srr-queue bandwidth share 1 30 35 5
    priority-queue out
    storm-control broadcast level pps 1k
    storm-control multicast level pps 2k
```

```
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input UnTrusted-PC-Policy
ip verify source
!
interface GigabitEthernet1/0/2
description CONNECTED TO TRUSTED-PC
switchport access vlan 12
switchport mode access
switchport block unicast
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Trusted-PC-Policy
ip verify source
!
interface GigabitEthernet1/0/3
description CONNECTED TO PHONE
switchport mode access
switchport block unicast
switchport voice vlan 13
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security violation restrict
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
```

```
service-policy input Phone-Policy
ip verify source
!
interface GigabitEthernet1/0/4
description CONNECTED TO PHONE+PC
switchport access vlan 14
switchport mode access
switchport block unicast
switchport voice vlan 15
switchport port-security maximum 3
switchport port-security maximum 2 vlan access
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Phone+PC-Policy
ip verify source
!
interface GigabitEthernet1/0/5
description CONNECTED TO IPVS 2500 - CAMERA
switchport access vlan 16
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
```

```
!  
interface GigabitEthernet1/0/6  
  description CONNECTED TO IPVS 4500 - CAMERA  
  switchport access vlan 17  
  switchport mode access  
  switchport block unicast  
  switchport port-security  
  ip arp inspection limit rate 100  
  load-interval 30  
  srr-queue bandwidth share 1 30 35 5  
  priority-queue out  
  mls qos trust dscp  
  storm-control broadcast level pps 1k  
  storm-control multicast level pps 2k  
  storm-control action trap  
  spanning-tree portfast  
  spanning-tree bpduguard enable  
!  
interface GigabitEthernet1/0/7  
  description CONNECTED TO DIGITAL MEDIA PLAYER  
  switchport access vlan 18  
  switchport mode access  
  switchport block unicast  
  switchport port-security  
  ip arp inspection limit rate 100  
  load-interval 30  
  srr-queue bandwidth share 1 30 35 5  
  priority-queue out  
  mls qos trust dscp  
  storm-control broadcast level pps 1k  
  storm-control multicast level pps 2k  
  storm-control action trap  
  spanning-tree portfast  
  spanning-tree bpduguard enable  
!  
interface GigabitEthernet1/0/8  
  description Connected to cr24-4507-DO  
  no switchport  
  no ip address  
  load-interval 30  
  carrier-delay msec 0  
  srr-queue bandwidth share 1 30 35 5  
  priority-queue out  
  uddld port  
  mls qos trust dscp  
  hold-queue 2000 in
```

```
  hold-queue 2000 out  
!  
interface GigabitEthernet1/0/9  
  description Connected to cr24-4507-DO  
  no switchport  
  no ip address  
  load-interval 30  
  carrier-delay msec 0  
  srr-queue bandwidth share 1 30 35 5  
  priority-queue out  
  uddld port  
  mls qos trust dscp  
  hold-queue 2000 in  
  hold-queue 2000 out  
!  
interface GigabitEthernet1/0/10  
  description Connected to IXIA - ALM - 2/5  
  switchport trunk encapsulation dot1q  
  switchport trunk native vlan 806  
  switchport trunk allowed vlan 11-20  
  switchport mode trunk  
  ip arp inspection trust  
  load-interval 30  
  srr-queue bandwidth share 1 30 35 5  
  priority-queue out  
  mls qos trust dscp  
  no cdp enable  
  spanning-tree portfast trunk  
  spanning-tree bpdufilter enable  
  hold-queue 2000 in  
  hold-queue 2000 out  
  ip dhcp snooping trust  
!  
interface GigabitEthernet1/0/11  
  description Connected to IXIA - STX - 4/1  
  switchport trunk encapsulation dot1q  
  switchport trunk native vlan 806  
  switchport trunk allowed vlan 11-20  
  switchport mode trunk  
  ip arp inspection trust  
  load-interval 30  
  srr-queue bandwidth share 1 30 35 5  
  priority-queue out  
  mls qos trust dscp  
  no cdp enable  
  spanning-tree portfast trunk
```

```
spanning-tree bpdupfilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet1/0/12
description Connected to FlashNet
switchport access vlan 900
switchport mode access
load-interval 30
spanning-tree portfast
!
interface GigabitEthernet1/0/13
!
interface GigabitEthernet1/0/14
!
interface GigabitEthernet1/0/15
!
interface GigabitEthernet1/0/16
!
interface GigabitEthernet1/0/17
!
interface GigabitEthernet1/0/18
!
interface GigabitEthernet1/0/19
!
interface GigabitEthernet1/0/20
!
interface GigabitEthernet1/0/21
!
interface GigabitEthernet1/0/22
!
interface GigabitEthernet1/0/23
!
interface GigabitEthernet1/0/24
!
interface GigabitEthernet1/0/25
description Connected to cr24-4507-DO
no switchport
no ip address
ip pim sparse-mode
ip hold-time eigrp 100 20
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
load-interval 30
carrier-delay msec 0
```

```
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol lacp
channel-group 1 mode active
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet1/0/26
!
interface GigabitEthernet1/0/27
!
interface GigabitEthernet1/0/28
!
interface TenGigabitEthernet1/0/1
!
interface TenGigabitEthernet1/0/2
!
interface GigabitEthernet2/0/1
!
interface GigabitEthernet2/0/2
!
interface GigabitEthernet2/0/3
!
interface GigabitEthernet2/0/4
!
interface GigabitEthernet2/0/5
!
interface GigabitEthernet2/0/6
!
interface GigabitEthernet2/0/7
!
interface GigabitEthernet2/0/8
!
interface GigabitEthernet2/0/9
!
interface GigabitEthernet2/0/10
!
interface GigabitEthernet2/0/11
!
interface GigabitEthernet2/0/12
description FlashNet - DO NOT ROUTE
switchport access vlan 900
switchport mode access
load-interval 30
```

```
spanning-tree portfast
!
interface GigabitEthernet2/0/13
!
interface GigabitEthernet2/0/14
!
interface GigabitEthernet2/0/15
!
interface GigabitEthernet2/0/16
!
interface GigabitEthernet2/0/17
!
interface GigabitEthernet2/0/18
!
interface GigabitEthernet2/0/19
!
interface GigabitEthernet2/0/20
!
interface GigabitEthernet2/0/21
!
interface GigabitEthernet2/0/22
!
interface GigabitEthernet2/0/23
!
interface GigabitEthernet2/0/24
!
interface GigabitEthernet2/0/25
channel-protocol lacp
!
interface GigabitEthernet2/0/26
!
interface GigabitEthernet2/0/27
!
interface GigabitEthernet2/0/28
!
interface TenGigabitEthernet2/0/1
!
interface TenGigabitEthernet2/0/2
!
interface GigabitEthernet3/0/1
!
interface GigabitEthernet3/0/2
!
interface GigabitEthernet3/0/3
!
interface GigabitEthernet3/0/4
```

```
!
interface GigabitEthernet3/0/5
!
interface GigabitEthernet3/0/6
!
interface GigabitEthernet3/0/7
!
interface GigabitEthernet3/0/8
!
interface GigabitEthernet3/0/9
!
interface GigabitEthernet3/0/10
!
interface GigabitEthernet3/0/11
!
interface GigabitEthernet3/0/12
description FlashNet - DO NOT ROUTE
switchport access vlan 900
switchport mode access
load-interval 30
spanning-tree portfast
!
interface GigabitEthernet3/0/13
!
interface GigabitEthernet3/0/14
!
interface GigabitEthernet3/0/15
!
interface GigabitEthernet3/0/16
!
interface GigabitEthernet3/0/17
!
interface GigabitEthernet3/0/18
!
interface GigabitEthernet3/0/19
!
interface GigabitEthernet3/0/20
!
interface GigabitEthernet3/0/21
!
interface GigabitEthernet3/0/22
!
interface GigabitEthernet3/0/23
!
interface GigabitEthernet3/0/24
!
```



```
interface GigabitEthernet3/0/25
  description Connected to cr24-4507-DO
  no switchport
  no ip address
  load-interval 30
  carrier-delay msec 0
  srr-queue bandwidth share 1 30 35 5
  priority-queue out
  uddld port
  mls qos trust dscp
  channel-group 1 mode active
  hold-queue 2000 in
  hold-queue 2000 out
!
interface GigabitEthernet3/0/26
!
interface GigabitEthernet3/0/27
!
interface GigabitEthernet3/0/28
!
interface TenGigabitEthernet3/0/1
!
interface TenGigabitEthernet3/0/2
!
interface Vlan1
  no ip address
  shutdown
!
interface Vlan11
  dampening
  ip address 10.125.21.1 255.255.255.128
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan12
  dampening
  ip address 10.125.21.129 255.255.255.128
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
```

```
interface Vlan13
  dampening
  ip address 10.125.22.1 255.255.255.128
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan14
  dampening
  ip address 10.125.22.129 255.255.255.128
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan15
  dampening
  ip address 10.125.23.1 255.255.255.128
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan16
  dampening
  ip address 10.125.23.129 255.255.255.128
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan17
  dampening
  ip address 10.125.24.1 255.255.255.128
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan18
```

```
dampening
ip address 10.125.24.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan19
dampening
ip address 10.125.25.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan20
dampening
ip address 10.125.25.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan900
ip address 172.26.158.238 255.255.254.0
no ip redirects
no ip proxy-arp
load-interval 30
!
!
router eigrp 100
passive-interface default
no passive-interface Port-channel1
no auto-summary
eigrp router-id 10.125.100.6
eigrp stub connected
network 10.125.0.0 0.0.255.255
nsf
!
ip classless
no ip http server
no ip http secure-server
ip pim rp-address 10.125.100.100 Allowed_MCAST_Groups override

ip pim spt-threshold infinity
ip pim accept-register list PERMIT-SOURCES
!
!
ip access-list standard Allowed_MCAST_Groups
permit 224.0.1.39
permit 224.0.1.40
permit 239.192.0.0 0.0.255.255
ip access-list standard Deny_PIM_DM_Fallback
deny 224.0.1.39
deny 224.0.1.40
permit any
!
ip access-list extended BULK-DATA
remark FTP
permit tcp any any eq ftp
permit tcp any any eq ftp-data
remark SSH/SFTP
permit tcp any any eq 22
remark SMTP/SECURE SMTP
permit tcp any any eq smtp
permit tcp any any eq 465
remark IMAP/SECURE IMAP
permit tcp any any eq 143
permit tcp any any eq 993
remark POP3/SECURE POP3
permit tcp any any eq pop3
permit tcp any any eq 995
remark CONNECTED PC BACKUP
permit tcp any eq 1914 any
ip access-list extended DEFAULT
remark EXPLICIT CLASS-DEFAULT
permit ip any any
ip access-list extended MULTIMEDIA-CONFERENCING
remark RTP
permit udp any any range 16384 32767
ip access-list extended PERMIT-SOURCES
permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255
ip access-list extended PXE
permit tcp any any established
permit udp any any eq bootps
permit udp any host 10.125.31.11 eq domain
permit udp any host 10.125.31.12 eq tftp
ip access-list extended SCAVENGER
remark KAZAA
permit tcp any any eq 1214
```

```
permit udp any any eq 1214
remark MICROSOFT DIRECT X GAMING
permit tcp any any range 2300 2400
permit udp any any range 2300 2400
remark APPLE ITUNES MUSIC SHARING
permit tcp any any eq 3689
permit udp any any eq 3689
remark BITTORRENT
permit tcp any any range 6881 6999
remark YAHOO GAMES
permit tcp any any eq 11999
remark MSN GAMING ZONE
permit tcp any any range 28800 29100
ip access-list extended SIGNALING
remark SCCP
permit tcp any any range 2000 2002
remark SIP
permit tcp any any range 5060 5061
permit udp any any range 5060 5061
ip access-list extended TRANSACTIONAL-DATA
remark HTTPS
permit tcp any any eq 443
remark ORACLE-SQL*NET
permit tcp any any eq 1521
permit udp any any eq 1521
remark ORACLE
permit tcp any any eq 1526
permit udp any any eq 1526
permit tcp any any eq 1575
permit udp any any eq 1575
permit tcp any any eq 1630
!
!
snmp-server community public RO
snmp-server community k12 RW
snmp-server trap-source Loopback0
snmp-server host 172.26.158.251 version 2c k12
radius-server dead-criteria time 15 tries 3
radius-server host 10.125.31.4 auth-port 1645 acct-port 1646 key 7
02050D48080943701E1D
radius-server deadtime 1
!
control-plane
!
alias exec dsno show ip dhcp snooping bind
alias exec ct config t
```

```
alias exec srb sh run | begin
alias exec sri sh run int
alias exec cl clear logg
alias exec rib show ip route
alias exec ec sh etherchannel
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
!
line con 0
exec-timeout 0 0
password 7 121A0C041104
line vty 0 4
exec-timeout 0 0
password 7 121A0C041104
line vty 5 15
exec-timeout 0 0
!
ntp clock-period 36026851
ntp server 172.26.158.10
end
```

```
Cr25-3750s-DO
!
! Last configuration change at 22:53:38 EDT Wed Sep 2 2009 by cisco
! NVRAM config last updated at 22:53:54 EDT Wed Sep 2 2009 by cisco
!
version 12.2
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
service password-encryption
!
hostname cr25-3750s-DO
!
boot-start-marker
boot-end-marker
!
enable secret 5 $1$wQrW$jkV1e46Qfbs8PzbR/vO7O/
enable password 7 02050D480809
!
aaa new-model
!
!
```

```
aaa authentication login default group radius enable line
aaa authentication dot1x default group radius
!
!
!
aaa session-id common
clock timezone EST -5
clock summer-time EDT recurring
switch 1 provision ws-c3750g-24ts
switch 2 provision ws-c3750g-24ts
stack-mac persistent timer 0
system mtu routing 1500
vtp domain District-Office
vtp mode transparent
ip subnet-zero
no ip domain-lookup
!
!
ip dhcp snooping vlan 131-140
no ip dhcp snooping information option
ip dhcp snooping
ip multicast-routing distributed
ip arp inspection vlan 131-140
ip arp inspection validate src-mac dst-mac ip allow zeros
!
mls qos map cos-dscp 0 8 16 24 32 46 48 56
mls qos srr-queue input bandwidth 70 30
mls qos srr-queue input threshold 1 80 90
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input dscp-map queue 1 threshold 2 24
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28
30 34
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38
mls qos srr-queue output dscp-map queue 2 threshold 2 24
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56
mls qos srr-queue output dscp-map queue 3 threshold 3 0
mls qos srr-queue output dscp-map queue 4 threshold 1 8
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14
mls qos queue-set output 1 threshold 2 80 90 100 100
mls qos queue-set output 1 threshold 4 60 100 100 100
mls qos
!
crypto pki trustpoint TP-self-signed-1942438528
```

```
enrollment selfsigned
subject-name cn=IOS-Self-Signed-Certificate-1942438528
revocation-check none
rsakeypair TP-self-signed-1942438528
!
!
crypto pki certificate chain TP-self-signed-1942438528
certificate self-signed 01 nvram:IOS-Self-Sig#3838.cer
dot1x system-auth-control
dot1x guest-vlan supplicant
!
!
!
errdisable recovery cause udd
errdisable recovery cause bpduguard
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause storm-control
errdisable recovery cause arp-inspection
errdisable recovery interval 120
port-channel load-balance src-dst-ip
!
!
!
spanning-tree mode rapid-pvst
spanning-tree etherchannel guard misconfig
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 2
name FlashNet_VLAN
!
vlan 131
name cr26_3750s_Dept31
!
vlan 132
name cr26_3750s_Dept32
!
vlan 133
name cr26_3750s_Dept33
!
vlan 134
name cr26_3750s_Dept34
!
vlan 135
name cr26_3750s_Dept35
```

```
!  
vlan 136  
    name cr26_3750s_Dept36  
!  
vlan 137  
    name cr26_3750s_Dept37  
!  
vlan 138  
    name cr26_3750s_Dept38  
!  
vlan 139  
    name cr26_3750s_Dept39  
!  
vlan 140  
    name cr26_3750s_Dept40  
!  
vlan 206  
    name Guest_VLAN  
!  
vlan 805  
    name Hopping_VLAN  
!  
vlan 900  
    name Mgmt_VLAN  
!  
ip ftp username nimishguest  
ip ftp password 7 09424A0E0C000406  
!  
class-map match-all BULK-DATA  
    match access-group name BULK-DATA  
class-map match-all VVLAN-SIGNALING  
    match ip dscp cs3  
class-map match-all MULTIMEDIA-CONFERENCING  
    match access-group name MULTIMEDIA-CONFERENCING  
class-map match-all DEFAULT  
    match access-group name DEFAULT  
class-map match-all SCAVENGER  
    match access-group name SCAVENGER  
class-map match-all SIGNALING  
    match access-group name SIGNALING  
class-map match-all VVLAN-VOIP  
    match ip dscp ef  
class-map match-all TRANSACTIONAL-DATA  
    match access-group name TRANSACTIONAL-DATA  
!  
!
```

```
policy-map Phone-Policy  
    class VVLAN-VOIP  
        police 128000 8000 exceed-action drop  
        set dscp ef  
    class VVLAN-SIGNALING  
        police 32000 8000 exceed-action drop  
        set dscp cs3  
policy-map UnTrusted-PC-Policy  
    class class-default  
        police 10000000 8000 exceed-action drop  
        set dscp default  
policy-map Trusted-PC-Policy  
    class MULTIMEDIA-CONFERENCING  
        set dscp af41  
        police 5000000 8000 exceed-action drop  
    class SIGNALING  
        set dscp cs3  
        police 32000 8000 exceed-action drop  
    class TRANSACTIONAL-DATA  
        set dscp af21  
        police 10000000 8000 exceed-action policed-dscp-transmit  
    class BULK-DATA  
        set dscp af11  
        police 10000000 8000 exceed-action policed-dscp-transmit  
    class SCAVENGER  
        set dscp cs1  
        police 10000000 8000 exceed-action drop  
    class DEFAULT  
        set dscp default  
        police 10000000 8000 exceed-action policed-dscp-transmit  
policy-map Phone+PC-Policy  
    class VVLAN-VOIP  
        police 128000 8000 exceed-action drop  
        set dscp ef  
    class VVLAN-SIGNALING  
        police 32000 8000 exceed-action drop  
        set dscp cs3  
    class MULTIMEDIA-CONFERENCING  
        set dscp af41  
        police 5000000 8000 exceed-action drop  
    class SIGNALING  
        set dscp cs3  
        police 1000000 8000 exceed-action drop  
    class TRANSACTIONAL-DATA  
        set dscp af21  
        police 10000000 8000 exceed-action policed-dscp-transmit
```

```
class BULK-DATA
  set dscp af11
  police 10000000 8000 exceed-action policed-dscp-transmit
class SCAVENGER
  set dscp cs1
  police 10000000 8000 exceed-action drop
class DEFAULT
  set dscp default
  police 10000000 8000 exceed-action policed-dscp-transmit
!
!
!
!
interface Loopback0
  ip address 10.125.100.7 255.255.255.255
!
interface Port-channel1
  description Connected to cr24-4507-DO
  switchport trunk encapsulation dot1q
  switchport trunk native vlan 805
  switchport trunk allowed vlan 131-140,900
  switchport mode trunk
  ip arp inspection trust
  logging event bundle-status
  load-interval 30
  carrier-delay msec 0
  hold-queue 2000 in
  hold-queue 2000 out
  ip dhcp snooping trust
!
interface GigabitEthernet1/0/1
  description CONNECTED TO UNTRUSTED PC
  switchport access vlan 131
  switchport mode access
  switchport block unicast
  switchport port-security
  switchport port-security aging time 5
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  storm-control broadcast level pps 1k
  storm-control multicast level pps 2k
  storm-control action trap
  spanning-tree portfast
  spanning-tree bpduguard enable
  service-policy input UnTrusted-PC-Policy
```

```
ip verify source
!
interface GigabitEthernet1/0/2
!
interface GigabitEthernet1/0/3
  description CONNECTED TO PHONE
  switchport mode access
  switchport block unicast
  switchport voice vlan 133
  switchport port-security maximum 2
  switchport port-security maximum 1 vlan access
  switchport port-security maximum 1 vlan voice
  switchport port-security
  switchport port-security aging time 5
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  srr-queue bandwidth share 1 30 35 5
  priority-queue out
  mls qos trust device cisco-phone
  mls qos trust dscp
  storm-control broadcast level pps 1k
  storm-control multicast level pps 2k
  storm-control action trap
  spanning-tree portfast
  spanning-tree bpduguard enable
  service-policy input Phone-Policy
  ip verify source
!
interface GigabitEthernet1/0/4
  ip arp inspection limit rate 100
!
interface GigabitEthernet1/0/5
  description CONNECTED TO IPVS 2500 - CAMERA
  switchport access vlan 136
  switchport mode access
  switchport block unicast
  switchport port-security
  ip arp inspection limit rate 100
  srr-queue bandwidth share 1 30 35 5
  priority-queue out
  authentication open
  mls qos trust dscp
  storm-control broadcast level pps 1k
  storm-control multicast level pps 2k
  storm-control action trap
```

```
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet1/0/6
description CONNECTED TO IPVS 4500 - CAMERA
switchport access vlan 137
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
authentication open
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet1/0/7
description CONNECTED TO DIGITAL MEDIA PLAYER
switchport access vlan 138
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
authentication open
mab
mls qos trust dscp
dot1x pae authenticator
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet1/0/8
!
interface GigabitEthernet1/0/9
!
interface GigabitEthernet1/0/10
description Connected to IXIA - ALM - 2/6
switchport trunk encapsulation dot1q
```

```
switchport trunk native vlan 805
switchport trunk allowed vlan 131-140
switchport mode trunk
switchport nonegotiate
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet1/0/11
description Connected to IXIA - STX - 4/2
switchport trunk encapsulation dot1q
switchport trunk native vlan 805
switchport trunk allowed vlan 131-140
switchport mode trunk
switchport nonegotiate
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet1/0/12
!
interface GigabitEthernet1/0/13
!
interface GigabitEthernet1/0/14
!
interface GigabitEthernet1/0/15
!
interface GigabitEthernet1/0/16
!
interface GigabitEthernet1/0/17
```

```
!  
interface GigabitEthernet1/0/18  
!  
interface GigabitEthernet1/0/19  
!  
interface GigabitEthernet1/0/20  
!  
interface GigabitEthernet1/0/21  
!  
interface GigabitEthernet1/0/22  
!  
interface GigabitEthernet1/0/23  
!  
interface GigabitEthernet1/0/24  
  description Flashnet DO NOT ROUTE  
  switchport access vlan 2  
  switchport mode access  
!  
interface GigabitEthernet1/0/25  
  description Connected to cr24-4507-DO  
  switchport trunk encapsulation dot1q  
  switchport trunk native vlan 805  
  switchport trunk allowed vlan 131-140,900  
  switchport mode trunk  
  ip arp inspection trust  
  load-interval 30  
  carrier-delay msec 0  
  srr-queue bandwidth share 1 30 35 5  
  priority-queue out  
  uddl port  
  mls qos trust dscp  
  channel-protocol lacp  
  channel-group 1 mode active  
  hold-queue 2000 in  
  hold-queue 2000 out  
  ip dhcp snooping trust  
!  
interface GigabitEthernet1/0/26  
!  
interface GigabitEthernet1/0/27  
!  
interface GigabitEthernet1/0/28  
!  
interface GigabitEthernet2/0/1  
  description CONNECTED TO TRUSTED-PC  
  switchport access vlan 132
```

```
  switchport mode access  
  switchport block unicast  
  switchport port-security  
  switchport port-security aging time 5  
  switchport port-security violation restrict  
  switchport port-security aging type inactivity  
  ip arp inspection limit rate 100  
  srr-queue bandwidth share 1 30 35 5  
  priority-queue out  
  mls qos trust dscp  
  storm-control broadcast level pps 1k  
  storm-control multicast level pps 2k  
  storm-control action trap  
  spanning-tree portfast  
  spanning-tree bpduguard enable  
  service-policy input Trusted-PC-Policy  
  ip verify source  
!  
interface GigabitEthernet2/0/2  
  ip arp inspection limit rate 100  
!  
interface GigabitEthernet2/0/3  
  description CONNECTED TO PHONE+PC  
  switchport access vlan 134  
  switchport mode access  
  switchport block unicast  
  switchport voice vlan 135  
  ip arp inspection limit rate 100  
  srr-queue bandwidth share 1 30 35 5  
  priority-queue out  
  mls qos trust device cisco-phone  
  mls qos trust dscp  
  storm-control broadcast level pps 1k  
  storm-control multicast level pps 2k  
  storm-control action trap  
  spanning-tree portfast  
  spanning-tree bpduguard enable  
  service-policy input Phone+PC-Policy  
  ip verify source  
!  
interface GigabitEthernet2/0/4  
  ip arp inspection limit rate 100  
!  
interface GigabitEthernet2/0/5  
  ip arp inspection limit rate 100  
!
```



```
interface GigabitEthernet2/0/6
  ip arp inspection limit rate 100
!
interface GigabitEthernet2/0/7
  ip arp inspection limit rate 100
!
interface GigabitEthernet2/0/8
!
interface GigabitEthernet2/0/9
!
interface GigabitEthernet2/0/10
!
interface GigabitEthernet2/0/11
!
interface GigabitEthernet2/0/12
!
interface GigabitEthernet2/0/13
!
interface GigabitEthernet2/0/14
!
interface GigabitEthernet2/0/15
!
interface GigabitEthernet2/0/16
!
interface GigabitEthernet2/0/17
!
interface GigabitEthernet2/0/18
!
interface GigabitEthernet2/0/19
!
interface GigabitEthernet2/0/20
!
interface GigabitEthernet2/0/21
!
interface GigabitEthernet2/0/22
!
interface GigabitEthernet2/0/23
!
interface GigabitEthernet2/0/24
  description Flashnet DO NOT ROUTE
  switchport access vlan 2
  switchport mode access
!
interface GigabitEthernet2/0/25
  description Connected to cr24-4507-DO
  switchport trunk encapsulation dot1q
```

```
switchport trunk native vlan 805
switchport trunk allowed vlan 131-140,900
switchport mode trunk
ip arp inspection trust
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol lacp
channel-group 1 mode active
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet2/0/26
!
interface GigabitEthernet2/0/27
!
interface GigabitEthernet2/0/28
!
interface Vlan1
  no ip address
  shutdown
!
interface Vlan2
  description Flashnet DO NOT ROUTE
  ip address 172.26.160.201 255.255.254.0
  no ip redirects
  no ip proxy-arp
!
interface Vlan900
  description Mgmt_VLAN
  ip address 10.125.34.5 255.255.255.224
  no ip redirects
  no ip unreachable
  ip pim sparse-mode
  load-interval 30
!
ip classless
ip route 172.26.158.0 255.255.255.0 172.26.160.1
no ip http server
no ip http secure-server
ip pim rp-address 10.125.100.100 Allowed_MCAST_Groups override
ip pim spt-threshold infinity
```

```
ip pim accept-register list PERMIT-SOURCES
!
!
ip access-list standard Allowed_MCAST_Groups
 permit 224.0.1.39
 permit 224.0.1.40
 permit 239.192.0.0 0.0.255.255
ip access-list standard Deny_PIM_DM_Fallback
 deny 224.0.1.39
 deny 224.0.1.40
 permit any
!
ip access-list extended BULK-DATA
 remark FTP
 permit tcp any any eq ftp
 permit tcp any any eq ftp-data
 remark SSH/SFTP
 permit tcp any any eq 22
 remark SMTP/SECURE SMTP
 permit tcp any any eq smtp
 permit tcp any any eq 465
 remark IMAP/SECURE IMAP
 permit tcp any any eq 143
 permit tcp any any eq 993
 remark POP3/SECURE POP3
 permit tcp any any eq pop3
 permit tcp any any eq 995
 remark CONNECTED PC BACKUP
 permit tcp any eq 1914 any
ip access-list extended DEFAULT
 remark EXPLICIT CLASS-DEFAULT
 permit ip any any
ip access-list extended MULTIMEDIA-CONFERENCING
 remark RTP
 permit udp any any range 16384 32767
ip access-list extended PERMIT-SOURCES
 permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255
ip access-list extended PXE
 permit tcp any any established
 permit udp any any eq bootps
 permit udp any host 10.125.31.11 eq domain
 permit udp any host 10.125.31.12 eq tftp
ip access-list extended SCAVENGER
 remark KAZAA
 permit tcp any any eq 1214
 permit udp any any eq 1214
```

```
remark MICROSOFT DIRECT X GAMING
 permit tcp any any range 2300 2400
 permit udp any any range 2300 2400
 remark APPLE ITUNES MUSIC SHARING
 permit tcp any any eq 3689
 permit udp any any eq 3689
 remark BITTORRENT
 permit tcp any any range 6881 6999
 remark YAHOO GAMES
 permit tcp any any eq 11999
 remark MSN GAMING ZONE
 permit tcp any any range 28800 29100
ip access-list extended SIGNALING
 remark SCCP
 permit tcp any any range 2000 2002
 remark SIP
 permit tcp any any range 5060 5061
 permit udp any any range 5060 5061
ip access-list extended TRANSACTIONAL-DATA
 remark HTTPS
 permit tcp any any eq 443
 remark ORACLE-SQL*NET
 permit tcp any any eq 1521
 permit udp any any eq 1521
 remark ORACLE
 permit tcp any any eq 1526
 permit udp any any eq 1526
 permit tcp any any eq 1575
 permit udp any any eq 1575
 permit tcp any any eq 1630
!
!
snmp-server community public RO
snmp-server community k12 RW
snmp-server trap-source Loopback0
snmp-server host 172.26.158.251 version 2c k12
radius-server dead-criteria time 15 tries 3
radius-server host 10.125.31.4 auth-port 1645 acct-port 1646 key 7
094F471A1A0A5B43595F
radius-server deadtime 1
!
control-plane
!
alias exec dsno show ip dhcp snooping bind
alias exec ct config t
alias exec srb sh run | begin
```

```
alias exec sri sh run int
alias exec cl clear logg
alias exec rib show ip route
alias exec ec sh etherchannel
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
!
line con 0
  exec-timeout 0 0
  password 7 121A0C041104
line vty 0 4
  exec-timeout 0 0
  password 7 121A0C041104
line vty 5 15
  exec-timeout 0 0
!
ntp clock-period 36028937
ntp server 172.26.160.10
end
```

```
Cr26-3750DC-DO
!
! Last configuration change at 22:53:38 EDT Wed Sep 2 2009 by cisco
! NVRAM config last updated at 22:53:54 EDT Wed Sep 2 2009 by cisco
!
version 12.2
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
service password-encryption
!
hostname cr26-3750DC-DO
!
boot-start-marker
boot-end-marker
!
enable password 7 070C285F4D06
!
aaa new-model
!
!
aaa authentication login default group radius enable line
```

```
aaa authentication dot1x default group radius
!
!
!
aaa session-id common
clock timezone EST -5
clock summer-time EDT recurring
switch 1 provision ws-c3750g-12s
switch 2 provision ws-c3750g-12s
switch 3 provision ws-c3750g-12s
stack-mac persistent timer 0
system mtu routing 1500
vtp domain District-Office
vtp mode transparent
ip subnet-zero
no ip domain-lookup
!
!
ip multicast-routing distributed
!
mls qos map cos-dscp 0 8 16 24 32 46 48 56
mls qos srr-queue input bandwidth 70 30
mls qos srr-queue input threshold 1 80 90
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input dscp-map queue 1 threshold 2 24
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28
30 34
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38
mls qos srr-queue output dscp-map queue 2 threshold 2 24
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56
mls qos srr-queue output dscp-map queue 3 threshold 3 0
mls qos srr-queue output dscp-map queue 4 threshold 1 8
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14
mls qos queue-set output 1 threshold 2 80 90 100 100
mls qos queue-set output 1 threshold 4 60 100 100 100
mls qos
!
crypto pki trustpoint TP-self-signed-721633024
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-721633024
  revocation-check none
  rsakeypair TP-self-signed-721633024
!
```

```
!  
crypto pki certificate chain TP-self-signed-721633024  
  certificate self-signed 01 nvram:IOS-Self-Sig#3434.cer  
dot1x system-auth-control  
dot1x guest-vlan supplicant  
!  
!  
!  
errdisable recovery cause udd  
errdisable recovery cause bpduguard  
errdisable recovery cause dhcp-rate-limit  
errdisable recovery cause storm-control  
errdisable recovery cause arp-inspection  
errdisable recovery interval 120  
port-channel load-balance src-dst-ip  
!  
!  
!  
spanning-tree mode rapid-pvst  
spanning-tree etherchannel guard misconfig  
spanning-tree extend system-id  
!  
vlan internal allocation policy ascending  
!  
vlan 2  
  name FlashNet_Vlan  
!  
vlan 141  
  name cr26_3750s_DC_Group1  
!  
vlan 142  
  name cr26_3750s_DC_Group2  
!  
vlan 143  
  name cr26_3750s_DC_Group3  
!  
vlan 144  
  name cr26_3750s_DC_Group4  
!  
vlan 145  
  name cr26_3750s_DC_Group5  
!  
vlan 146  
  name cr26_3750s_DC_Group6  
!  
vlan 147
```

```
  name cr26_3750s_DC_Group7  
!  
vlan 148  
  name cr26_3750s_DC_Group8  
!  
vlan 149  
  name cr26_3750s_DC_Group9  
!  
vlan 150  
  name cr26_3750s_DC_Group10  
!  
vlan 806  
  name Hopping_Vlan  
!  
vlan 900  
  name Mgmt_VLAN  
!  
!  
class-map match-all BULK-DATA  
  match access-group name BULK-DATA  
class-map match-all VVLAN-SIGNALING  
  match ip dscp cs3  
class-map match-all MULTIMEDIA-CONFERENCING  
  match access-group name MULTIMEDIA-CONFERENCING  
class-map match-all DEFAULT  
  match access-group name DEFAULT  
class-map match-all SCAVENGER  
  match access-group name SCAVENGER  
class-map match-all SIGNALING  
  match access-group name SIGNALING  
class-map match-all VVLAN-VOIP  
  match ip dscp ef  
class-map match-all TRANSACTIONAL-DATA  
  match access-group name TRANSACTIONAL-DATA  
!  
!  
policy-map Phone-Policy  
  class VVLAN-VOIP  
    police 128000 8000 exceed-action drop  
  set dscp ef  
  class VVLAN-SIGNALING  
    police 32000 8000 exceed-action drop  
  set dscp cs3  
policy-map UnTrusted-PC-Policy  
  class class-default  
    police 10000000 8000 exceed-action drop
```

```
    set dscp default
policy-map Trusted-PC-Policy
class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
class SIGNALING
    set dscp cs3
    police 32000 8000 exceed-action drop
class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
policy-map Phone+PC-Policy
class VVLAN-VOIP
    police 128000 8000 exceed-action drop
    set dscp ef
class VVLAN-SIGNALING
    police 32000 8000 exceed-action drop
    set dscp cs3
class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
class SIGNALING
    set dscp cs3
    police 1000000 8000 exceed-action drop
class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
!
```

```
!
!
!
interface Loopback0
ip address 10.125.100.8 255.255.255.255
!
interface Port-channel1
description Connected to cr24-4507-DO
switchport trunk encapsulation dot1q
switchport trunk native vlan 806
switchport trunk allowed vlan 141-150,900
switchport mode trunk
logging event bundle-status
load-interval 30
carrier-delay msec 0
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet1/0/1
!
interface GigabitEthernet1/0/2
description CONNECTED TO TRUSTED-PC
switchport access vlan 141
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Trusted-PC-Policy
!
interface GigabitEthernet1/0/3
description Connected to IXIA - LSM - 1/3
switchport trunk encapsulation dot1q
switchport trunk native vlan 806
switchport trunk allowed vlan 142
switchport mode trunk
switchport nonegotiate
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control action trap
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
```

```
spanning-tree bpduguard enable
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet1/0/4
description Connected to IXIA - LSM - 1/4
switchport trunk encapsulation dot1q
switchport trunk native vlan 806
switchport trunk allowed vlan 143
switchport mode trunk
switchport nonegotiate
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control action trap
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
spanning-tree bpduguard enable
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet1/0/5
description Connected to IXIA - LSM - 1/5
switchport trunk encapsulation dot1q
switchport trunk native vlan 806
switchport trunk allowed vlan 144
switchport mode trunk
switchport nonegotiate
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control action trap
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
spanning-tree bpduguard enable
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet1/0/6
description Connected to IXIA - LSM - 1/6
switchport trunk encapsulation dot1q
switchport trunk native vlan 806
```

```
switchport trunk allowed vlan 145
switchport mode trunk
switchport nonegotiate
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control action trap
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
spanning-tree bpduguard enable
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet1/0/7
description Connected to IXIA - LSM - 1/7
switchport access vlan 141
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control action trap
spanning-tree portfast trunk
spanning-tree bpdufilter enable
spanning-tree bpduguard enable
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet1/0/8
description Connected to cr24-4507-DO
switchport trunk encapsulation dot1q
switchport trunk native vlan 806
switchport trunk allowed vlan 141-150,900
switchport mode trunk
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol lacp
channel-group 1 mode active
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet1/0/9
description Connected to cr25-w2k-2
```

```
switchport access vlan 141
!
interface GigabitEthernet1/0/10
switchport access vlan 141
!
interface GigabitEthernet1/0/11
switchport access vlan 141
!
interface GigabitEthernet1/0/12
switchport access vlan 2
switchport mode access
!
interface GigabitEthernet2/0/1
switchport access vlan 141
!
interface GigabitEthernet2/0/2
switchport access vlan 141
!
interface GigabitEthernet2/0/3
!
interface GigabitEthernet2/0/4
!
interface GigabitEthernet2/0/5
!
interface GigabitEthernet2/0/6
!
interface GigabitEthernet2/0/7
!
interface GigabitEthernet2/0/8
!
interface GigabitEthernet2/0/9
!
interface GigabitEthernet2/0/10
!
interface GigabitEthernet2/0/11
!
interface GigabitEthernet2/0/12
switchport access vlan 2
switchport mode access
!
interface GigabitEthernet3/0/1
description Connected to IXIA - LSM - 1/7
switchport access vlan 141
switchport trunk encapsulation dot1q
switchport trunk native vlan 806
switchport trunk allowed vlan 146
```

```
switchport mode trunk
switchport nonegotiate
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control action trap
no cdp enable
spanning-tree portfast trunk
spanning-tree bpduguard enable
spanning-tree bpduguard enable
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet3/0/2
description CONNECTED TO PHONE
switchport access vlan 141
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Phone-Policy
!
interface GigabitEthernet3/0/3
description CONNECTED TO IPVS 4500 - CAMERA
switchport access vlan 141
mls qos trust dscp
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet3/0/4
description CONNECTED TO DIGITAL MEDIA PLAYER
switchport access vlan 141
priority-queue out
mls qos trust dscp
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet3/0/5
switchport access vlan 141
!
```

```
interface GigabitEthernet3/0/6
  switchport access vlan 141
!
interface GigabitEthernet3/0/7
  switchport access vlan 141
!
interface GigabitEthernet3/0/8
  description Connected to cr24-4507-DO
  switchport trunk encapsulation dot1q
  switchport trunk native vlan 806
  switchport trunk allowed vlan 141-150,900
  switchport mode trunk
  load-interval 30
  srr-queue bandwidth share 1 30 35 5
  priority-queue out
  uddld port
  mls qos trust dscp
  channel-protocol lacp
  channel-group 1 mode active
  hold-queue 2000 in
  hold-queue 2000 out
!
interface GigabitEthernet3/0/9
  switchport access vlan 141
  speed 100
  duplex half
!
interface GigabitEthernet3/0/10
!
interface GigabitEthernet3/0/11
  switchport access vlan 141
!
interface GigabitEthernet3/0/12
  switchport access vlan 2
  switchport mode access
!
interface Vlan1
  no ip address
  shutdown
!
interface Vlan2
  description FlashNet VLAN
  ip address 172.26.160.189 255.255.254.0
  no ip redirects
  no ip proxy-arp
!
```

```
interface Vlan900
  description Mgmt_VLAN
  ip address 10.125.34.6 255.255.255.224
  no ip redirects
  no ip unreachable
  ip pim sparse-mode
  load-interval 30
!
!
ip classless
no ip http server
no ip http secure-server
ip pim rp-address 10.125.100.100 Allowed_MCAST_Groups override
ip pim spt-threshold infinity
ip pim accept-register list PERMIT-SOURCES
!
!
ip access-list standard Allowed_MCAST_Groups
  permit 224.0.1.39
  permit 224.0.1.40
  permit 239.192.0.0 0.0.255.255
ip access-list standard Deny_PIM_DM_Fallback
  deny 224.0.1.39
  deny 224.0.1.40
  permit any
!
ip access-list extended BULK-DATA
  remark FTP
  permit tcp any any eq ftp
  permit tcp any any eq ftp-data
  remark SSH/SFTP
  permit tcp any any eq 22
  remark SMTP/SECURE SMTP
  permit tcp any any eq smtp
  permit tcp any any eq 465
  remark IMAP/SECURE IMAP
  permit tcp any any eq 143
  permit tcp any any eq 993
  remark POP3/SECURE POP3
  permit tcp any any eq pop3
  permit tcp any any eq 995
  remark CONNECTED PC BACKUP
  permit tcp any eq 1914 any
ip access-list extended DEFAULT
  remark EXPLICIT CLASS-DEFAULT
  permit ip any any
ip access-list extended MULTIMEDIA-CONFERENCING
```



```
remark RTP
permit udp any any range 16384 32767
ip access-list extended PERMIT-SOURCES
permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255
ip access-list extended PXE
permit tcp any any established
permit udp any any eq bootps
permit udp any host 10.125.31.11 eq domain
permit udp any host 10.125.31.12 eq tftp
ip access-list extended SCAVENGER
remark KAZAA
permit tcp any any eq 1214
permit udp any any eq 1214
remark MICROSOFT DIRECT X GAMING
permit tcp any any range 2300 2400
permit udp any any range 2300 2400
remark APPLE ITUNES MUSIC SHARING
permit tcp any any eq 3689
permit udp any any eq 3689
remark BITTORRENT
permit tcp any any range 6881 6999
remark YAHOO GAMES
permit tcp any any eq 11999
remark MSN GAMING ZONE
permit tcp any any range 28800 29100
ip access-list extended SIGNALING
remark SCCP
permit tcp any any range 2000 2002
remark SIP
permit tcp any any range 5060 5061
permit udp any any range 5060 5061
ip access-list extended TRANSACTIONAL-DATA
remark HTTPS
permit tcp any any eq 443
remark ORACLE-SQL*NET
permit tcp any any eq 1521
permit udp any any eq 1521
remark ORACLE
permit tcp any any eq 1526
permit udp any any eq 1526
permit tcp any any eq 1575
permit udp any any eq 1575
permit tcp any any eq 1630
!
!
snmp-server community public RO
```

```
snmp-server community k12 RW
snmp-server trap-source Loopback0
snmp-server host 172.26.158.251 version 2c k12
radius-server dead-criteria time 15 tries 3
radius-server host 10.125.31.4 auth-port 1645 acct-port 1646 key 7
02050D48080943701E1D
radius-server deadtime 1
!
control-plane
!
alias exec dsno show ip dhcp snooping bind
alias exec ct config t
alias exec srb sh run | begin
alias exec sri sh run int
alias exec cl clear logg
alias exec rib show ip route
alias exec ec sh etherchannel
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
!
line con 0
exec-timeout 0 0
password 7 121A0C041104
line vty 0 4
exec-timeout 0 0
password 7 121A0C041104
line vty 5 15
exec-timeout 0 0
!
ntp clock-period 36028995
ntp server 172.26.160.10
end
```

Core/Distribution

```
Cr24-4507-D
!
! Last configuration change at 22:53:38 EDT Wed Sep 2 2009
! NVRAM config last updated at 22:53:55 EDT Wed Sep 2 2009
!
version 12.2
no service pad
service timestamps debug datetime msec localtime
```

```
service timestamps log datetime msec localtime
service password-encryption
service compress-config
!
hostname cr24-4507-DO
!
boot-start-marker
boot system flash slot0:cat4500e-entservicesk9-mz.122-53.SG
boot-end-marker
!
enable secret 5 $1$UMTH$xnQm5GcPPGxmEWdUoGWj7.
enable password 7 094F471A1A0A
!
no aaa new-model
clock timezone EST -5
clock summer-time EDT recurring
hw-module uplink mode shared-backplane
hw-module module 3 port-group 1 select gigabitethernet
hw-module module 4 port-group 1 select gigabitethernet
ip subnet-zero
no ip domain-lookup
!
!
ip vrf mgmtVrf
!
ip multicast-routing
vtp domain District-Office
vtp mode transparent
!
!
table-map WLC-DSCP-COS
    default copy
!
!
key chain eigrp-key
    key 1
        key-string 7 045802150C2E
!
!
errdisable recovery cause udd
errdisable recovery cause bpduguard
errdisable recovery interval 120
power redundancy-mode redundant
!
!
!
```

```
!
!
!
spanning-tree mode rapid-pvst
spanning-tree extend system-id
spanning-tree vlan 1-4094 priority 24576
!
redundancy
    mode sso
    main-cpu
        auto-sync standard
!
process-max-time 20
vlan internal allocation policy ascending
!
vlan 11-20
!
vlan 101
    name cr24_2960_Dept1
!
vlan 102
    name cr24_2960_Dept2
!
vlan 103
    name cr24_2960_Dept3
!
vlan 104
    name cr24_2960_Dept4
!
vlan 105
    name cr24_2960_Dept5
!
vlan 106
    name cr24_2960_Dept6
!
vlan 107
    name cr24_2960_Dept7
!
vlan 108
    name cr24_2960_Dept8
!
vlan 109
    name cr24_2960_Dept9
!
vlan 110
    name cr24_2960_Dept10
```

```
!  
vlan 111  
    name cr24_3550_Dept11  
!  
vlan 112  
    name cr24_3550_Dept12  
!  
vlan 113  
    name cr24_3550_Dept13  
!  
vlan 114  
    name cr24_3550_Dept14  
!  
vlan 115  
    name cr24_3550_Dept15  
!  
vlan 116  
    name cr24_3550_Dept16  
!  
vlan 117  
    name cr24_3550_Dept17  
!  
vlan 118  
    name cr24_3550_Dept18  
!  
vlan 119  
    name cr24_3550_Dept19  
!  
vlan 120  
    name cr24_3550_Dept20  
!  
vlan 121  
    name cr25_3750_Dept21  
!  
vlan 122  
    name cr25_3750_Dept22  
!  
vlan 123  
    name cr25_3750_Dept23  
!  
vlan 124  
    name cr25_3750_Dept24  
!  
vlan 125  
    name cr25_3750_Dept25  
!
```

```
vlan 126  
    name cr25_3750_Dept26  
!  
vlan 127  
    name cr25_3750_Dept27  
!  
vlan 128  
    name cr25_3750_Dept28  
!  
vlan 129  
    name cr25_3750_Dept29  
!  
vlan 130  
    name cr25_3750_Dept30  
!  
vlan 131  
    name cr26_3750s_Dept31  
!  
vlan 132  
    name cr26_3750s_Dept32  
!  
vlan 133  
    name cr26_3750s_Dept33  
!  
vlan 134  
    name cr26_3750s_Dept34  
!  
vlan 135  
    name cr26_3750s_Dept35  
!  
vlan 136  
    name cr26_3750s_Dept36  
!  
vlan 137  
    name cr26_3750s_Dept37  
!  
vlan 138  
    name cr26_3750s_Dept38  
!  
vlan 139  
    name cr26_3750s_Dept39  
!  
vlan 140  
    name cr26_3750s_Dept40  
!  
vlan 141
```

```
    name cr26_3750s_DC_Group1
!
vlan 142
    name cr26_3750s_DC_Group2
!
vlan 143
    name cr26_3750s_DC_Group3
!
vlan 144
    name cr26_3750s_DC_Group4
!
vlan 145
    name cr26_3750s_DC_Group5
!
vlan 146
    name cr26_3750s_DC_Group6
!
vlan 147
    name cr26_3750s_DC_Group7
!
vlan 148
    name cr26_3750s_DC_Group8
!
vlan 149
    name cr26_3750s_DC_Group9
!
vlan 150
    name cr26_3750s_DC_Grou10
!
vlan 200
    name cr24_4507_FW_Inside
!
vlan 801
    name cr24_3750DC_Hopping
!
vlan 802
    name cr25_3550_Hopping
!
vlan 803
    name cr24_2975_Hopping
!
vlan 804
    name cr24_3560_Hopping
!
vlan 805
    name cr24_3750_Hopping
```

```
!
vlan 806
    name cr26_3750DC_Hopping
!
vlan 900
    name Mgmt_VLAN
!
ip ftp username nimishguest
ip ftp password 7 000A1701115E1812
!
class-map match-all MULTIMEDIA-STREAMING-QUEUE
    match dscp af31 af32 af33
class-map match-any CONTROL-MGMT-QUEUE
    match dscp cs7
    match dscp cs6
    match dscp cs3
    match dscp cs2
class-map match-all TRANSACTIONAL-DATA-QUEUE
    match dscp af21 af22 af23
class-map match-all COPP-CRITICAL-APPLICATIONS
    match access-group name COPP-CRITICAL-APPLICATIONS
class-map match-all COPP-FILE-MANAGEMENT
    match access-group name COPP-FILE-MANAGEMENT
class-map match-all SCAVENGER-QUEUE
    match dscp cs1
class-map match-all COPP-MONITORING
    match access-group name COPP-MONITORING
class-map match-all MULTIMEDIA-CONFERENCING-QUEUE
    match dscp af41 af42 af43
class-map match-all BULK-DATA-QUEUE
    match dscp af11 af12 af13
class-map match-all COPP-INTERACTIVE-MANAGEMENT
    match access-group name COPP-INTERACTIVE-MANAGEMENT
class-map match-any PRIORITY-QUEUE
    match dscp ef
    match dscp cs5
    match dscp cs4
class-map match-all COPP-UNDESIRABLE
    match access-group name COPP-UNDESIRABLE
class-map match-all COPP-IGP
    match access-group name COPP-IGP
!
!
policy-map EGRESS-POLICY
    class PRIORITY-QUEUE
        priority
```

```
class CONTROL-MGMT-QUEUE
    bandwidth remaining percent 10
class MULTIMEDIA-CONFERENCING-QUEUE
    bandwidth remaining percent 10
class MULTIMEDIA-STREAMING-QUEUE
    bandwidth remaining percent 10
class TRANSACTIONAL-DATA-QUEUE
    bandwidth remaining percent 10
    dbl
class BULK-DATA-QUEUE
    bandwidth remaining percent 4
    dbl
class SCAVENGER-QUEUE
    bandwidth remaining percent 1
class class-default
    bandwidth remaining percent 25
    dbl
policy-map PQ-POLICER
    class PRIORITY-QUEUE
        police cir 300000000
        conform-action transmit
        exceed-action drop
policy-map system-cpp-policy
    class COPP-IGP
        police cir 300000 bc 3000 be 3000
        conform-action transmit
        exceed-action drop
        violate-action drop
    class COPP-INTERACTIVE-MANAGEMENT
        police cir 500000 bc 5000 be 5000
        conform-action transmit
        exceed-action drop
        violate-action drop
    class COPP-FILE-MANAGEMENT
        police cir 6000000 bc 60000 be 60000
        conform-action transmit
        exceed-action drop
        violate-action drop
    class COPP-MONITORING
        police cir 900000 bc 9000 be 9000
        conform-action transmit
        exceed-action drop
        violate-action drop
    class COPP-CRITICAL-APPLICATIONS
        police cir 900000 bc 9000 be 9000
        conform-action transmit
        exceed-action drop
        violate-action drop
    class COPP-UNDESIRABLE
        police cir 32000 bc 3000 be 3000
        conform-action drop
        exceed-action drop
        violate-action drop
class class-default
    police cir 500000 bc 5000 be 5000
    conform-action transmit
    exceed-action drop
    violate-action drop
!
!
!
interface Loopback0
    ip address 10.125.100.1 255.255.255.255
!
interface Loopback1
    description RP
    ip address 10.125.100.100 255.255.255.255
!
interface Port-channel1
    description Connected to cr24-3750ME-DO
    dampening
    ip address 10.125.32.4 255.255.255.254
    ip authentication mode eigrp 100 md5
    ip authentication key-chain eigrp 100 eigrp-key
    ip pim sparse-mode
    ip summary-address eigrp 100 10.125.0.0 255.255.0.0 5
    logging event link-status
    load-interval 30
    carrier-delay msec 0
    service-policy output PQ-POLICER
!
interface Port-channel2
    description Connected to cr24-2851-DO
    ip address 10.125.32.6 255.255.255.254
    ip authentication mode eigrp 100 md5
    ip authentication key-chain eigrp 100 eigrp-key
    ip pim sparse-mode
    ip summary-address eigrp 100 10.125.0.0 255.255.0.0 5
    logging event link-status
    load-interval 30
    carrier-delay msec 0
    service-policy output PQ-POLICER
```

```
!  
interface Port-channel11  
  description Connected to cr24-2960-DO  
  switchport  
  switchport trunk native vlan 802  
  switchport trunk allowed vlan 101-110,900  
  switchport mode trunk  
  logging event link-status  
  load-interval 30  
  carrier-delay msec 0  
  service-policy output PQ-POLICER  
!  
interface Port-channel12  
  description Connected to cr24-2975-DO  
  switchport  
  switchport trunk native vlan 803  
  switchport trunk allowed vlan 111-120,900  
  switchport mode trunk  
  logging event link-status  
  load-interval 30  
  carrier-delay msec 0  
  service-policy output PQ-POLICER  
!  
interface Port-channel13  
  description Connected to cr24-3560r-DO  
  dampening  
  ip address 10.125.32.0 255.255.255.254  
  ip authentication mode eigrp 100 md5  
  ip authentication key-chain eigrp 100 eigrp-key  
  ip pim sparse-mode  
  ip summary-address eigrp 100 10.125.0.0 255.255.0.0 5  
  logging event link-status  
  load-interval 30  
  carrier-delay msec 0  
  service-policy output PQ-POLICER  
!  
interface Port-channel14  
  description Connected to cr25-3750-DO  
  switchport  
  switchport trunk native vlan 804  
  switchport trunk allowed vlan 121-130,900  
  switchport mode trunk  
  logging event link-status  
  load-interval 30  
  carrier-delay msec 0  
  service-policy output PQ-POLICER
```

```
!  
interface Port-channel15  
  description Connected to cr26-3750r-DO  
  dampening  
  ip address 10.125.32.2 255.255.255.254  
  ip authentication mode eigrp 100 md5  
  ip authentication key-chain eigrp 100 eigrp-key  
  ip pim sparse-mode  
  ip summary-address eigrp 100 10.125.0.0 255.255.0.0 5  
  logging event link-status  
  load-interval 30  
  carrier-delay msec 0  
  service-policy output PQ-POLICER  
!  
interface Port-channel16  
  description Connected to cr25-3750s-DO  
  switchport  
  switchport trunk native vlan 805  
  switchport trunk allowed vlan 131-140,900  
  switchport mode trunk  
  logging event link-status  
  load-interval 30  
  carrier-delay msec 0  
  service-policy output PQ-POLICER  
!  
interface Port-channel17  
  description Connected to cr26-3750DC-DO  
  switchport  
  switchport trunk native vlan 806  
  switchport trunk allowed vlan 141-150,900  
  switchport mode trunk  
  logging event link-status  
  load-interval 30  
  carrier-delay msec 0  
  service-policy output PQ-POLICER  
!  
interface FastEthernet1  
  ip vrf forwarding mgmtVrf  
  no ip address  
  speed auto  
  duplex auto  
!  
interface GigabitEthernet1/1  
  description Connected to cr24-2960-DO  
  switchport trunk native vlan 802  
  switchport trunk allowed vlan 101-110,900
```

```
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
udld port
channel-protocol pagp
channel-group 11 mode desirable
spanning-tree guard root
service-policy output EGRESS-POLICY
!
interface GigabitEthernet1/2
description Connected to cr24-2975-DO
switchport trunk native vlan 803
switchport trunk allowed vlan 111-120,900
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
udld port
channel-protocol lacp
channel-group 12 mode active
spanning-tree guard root
service-policy output EGRESS-POLICY
!
interface GigabitEthernet1/3
description Connected to cr24-3560r-DO
no switchport
dampening
no ip address
logging event link-status
load-interval 30
carrier-delay msec 0
udld port
channel-group 13 mode desirable
service-policy output EGRESS-POLICY
!
interface GigabitEthernet1/4
description Connected to cr25-3750-DO
switchport trunk native vlan 804
switchport trunk allowed vlan 121-130,900
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
udld port
channel-protocol pagp
```

```
channel-group 14 mode desirable
spanning-tree guard root
service-policy output EGRESS-POLICY
!
interface GigabitEthernet1/5
description Connected to cr26-3750-DO
no switchport
dampening
no ip address
logging event link-status
load-interval 30
carrier-delay msec 0
udld port
channel-protocol lacp
channel-group 15 mode active
service-policy output EGRESS-POLICY
!
interface GigabitEthernet1/6
description Connected to cr26-3750s-DO
switchport trunk native vlan 805
switchport trunk allowed vlan 131-140,900
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
udld port
channel-protocol lacp
channel-group 16 mode active
spanning-tree guard root
service-policy output EGRESS-POLICY
!
interface GigabitEthernet2/1
description Connected to cr24-2960-DO
switchport trunk native vlan 802
switchport trunk allowed vlan 101-110,900
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
udld port
channel-protocol pagp
channel-group 11 mode desirable
spanning-tree guard root
service-policy output EGRESS-POLICY
!
interface GigabitEthernet2/2
```

```
description Connected to cr24-2975-DO
switchport trunk native vlan 803
switchport trunk allowed vlan 111-120,900
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
udld port
channel-protocol lacp
channel-group 12 mode active
spanning-tree guard root
service-policy output EGRESS-POLICY
!
interface GigabitEthernet2/3
description Connected to cr24-3560r-DO
no switchport
dampening
no ip address
logging event link-status
load-interval 30
udld port
channel-group 13 mode desirable
service-policy output EGRESS-POLICY
!
interface GigabitEthernet2/4
description Connected to cr25-3750-DO
switchport trunk native vlan 804
switchport trunk allowed vlan 121-130,900
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
udld port
channel-protocol pagp
channel-group 14 mode desirable
spanning-tree guard root
service-policy output EGRESS-POLICY
!
interface GigabitEthernet2/5
description Connected to cr26-3750-DO
no switchport
dampening
no ip address
logging event link-status
load-interval 30
carrier-delay msec 0
```

```
udld port
channel-protocol lacp
channel-group 15 mode active
service-policy output EGRESS-POLICY
!
interface GigabitEthernet2/6
description Connected to cr26-3750s-DO
switchport trunk native vlan 805
switchport trunk allowed vlan 131-140,900
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
udld port
channel-protocol lacp
channel-group 16 mode active
spanning-tree guard root
service-policy output EGRESS-POLICY
!
interface TenGigabitEthernet3/1
!
interface TenGigabitEthernet3/2
!
interface GigabitEthernet3/3
!
interface GigabitEthernet3/4
no switchport
no ip address
load-interval 30
!
interface GigabitEthernet3/5
no switchport
no ip address
load-interval 30
!
interface GigabitEthernet3/6
no switchport
no ip address
load-interval 30
!
interface TenGigabitEthernet4/1
!
interface TenGigabitEthernet4/2
!
interface GigabitEthernet4/3
!
```



```
interface GigabitEthernet4/4
  description backup link to cr26-asa5520-DO
  switchport access vlan 200
  switchport mode access
  switchport block unicast
  load-interval 30
  spanning-tree portfast
  spanning-tree bpduguard enable
!
interface GigabitEthernet4/5
  no switchport
  no ip address
  load-interval 30
!
interface GigabitEthernet4/6
  no switchport
  no ip address
  load-interval 30
!
interface GigabitEthernet5/1
  switchport trunk native vlan 806
  switchport trunk allowed vlan 141-150,900
  switchport mode trunk
  logging event link-status
  load-interval 30
  carrier-delay msec 0
  uddld port
  channel-protocol lacp
  channel-group 17 mode active
  spanning-tree guard root
  service-policy output EGRESS-POLICY
!
interface GigabitEthernet5/2
!
interface GigabitEthernet5/3
  description Connected to cr26-asa5520-DO
  switchport access vlan 200
  switchport mode access
  switchport block unicast
  load-interval 30
  media-type rj45
  spanning-tree portfast
  spanning-tree bpduguard enable
!
interface GigabitEthernet5/4
  no switchport
```

```
  no ip address
  load-interval 30
  shutdown
  media-type rj45
  service-policy output EGRESS-POLICY
!
interface GigabitEthernet5/5
!
interface GigabitEthernet5/6
  description Connected to cr24-3750ME-DO
  no switchport
  dampening
  no ip address
  load-interval 30
  carrier-delay msec 0
  uddld port
  channel-protocol pagp
  channel-group 1 mode desirable
  service-policy output EGRESS-POLICY
!
interface GigabitEthernet6/1
  switchport trunk native vlan 806
  switchport trunk allowed vlan 141-150,900
  switchport mode trunk
  logging event link-status
  load-interval 30
  carrier-delay msec 0
  uddld port
  channel-protocol lacp
  channel-group 17 mode active
  spanning-tree guard root
  service-policy output EGRESS-POLICY
!
interface GigabitEthernet6/2
  load-interval 30
!
interface GigabitEthernet6/3
  description Connects to IronPort WSA T1 (L4TM)
  media-type rj45
  speed 1000
  duplex full
  service-policy output EGRESS-POLICY
!
interface GigabitEthernet6/4
  description Connected to IronPort
  media-type rj45
```

```
service-policy output EGRESS-POLICY
!
interface GigabitEthernet6/5
!
interface GigabitEthernet6/6
description Connected to cr24-3750ME-DO
no switchport
dampening
no ip address
load-interval 30
carrier-delay msec 0
udld port
channel-protocol pagp
channel-group 1 mode desirable
service-policy output EGRESS-POLICY
!
interface GigabitEthernet7/1
description Connected to FlashNet - DO NOT ROUTE
no switchport
ip address 172.26.160.185 255.255.252.0
no ip redirects
no ip proxy-arp
load-interval 30
!
interface GigabitEthernet7/2
switchport mode trunk
!
interface GigabitEthernet7/3
description Connects to IronPort WSA P1
switchport access vlan 200
switchport mode access
switchport block unicast
load-interval 30
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet7/4
!
interface GigabitEthernet7/5
!
interface GigabitEthernet7/6
!
interface GigabitEthernet7/7
!
interface GigabitEthernet7/8
!
```

```
interface GigabitEthernet7/9
!
interface GigabitEthernet7/10
!
interface GigabitEthernet7/11
!
interface GigabitEthernet7/12
!
interface GigabitEthernet7/13
!
interface GigabitEthernet7/14
!
interface GigabitEthernet7/15
!
interface GigabitEthernet7/16
!
interface GigabitEthernet7/17
!
interface GigabitEthernet7/18
!
interface GigabitEthernet7/19
!
interface GigabitEthernet7/20
!
interface GigabitEthernet7/21
!
interface GigabitEthernet7/22
!
interface GigabitEthernet7/23
!
interface GigabitEthernet7/24
!
interface GigabitEthernet7/25
!
interface GigabitEthernet7/26
!
interface GigabitEthernet7/27
!
interface GigabitEthernet7/28
!
interface GigabitEthernet7/29
!
interface GigabitEthernet7/30
!
interface GigabitEthernet7/31
!
```

```
interface GigabitEthernet7/32
!
interface GigabitEthernet7/33
!
interface GigabitEthernet7/34
!
interface GigabitEthernet7/35
!
interface GigabitEthernet7/36
!
interface GigabitEthernet7/37
!
interface GigabitEthernet7/38
!
interface GigabitEthernet7/39
!
interface GigabitEthernet7/40
!
interface GigabitEthernet7/41
!
interface GigabitEthernet7/42
!
interface GigabitEthernet7/43
!
interface GigabitEthernet7/44
!
interface GigabitEthernet7/45
!
interface GigabitEthernet7/46
!
interface GigabitEthernet7/47
!
interface GigabitEthernet7/48
!
interface Vlan1
no ip address
shutdown
!
interface Vlan101
description Connected to cr24_2960_Dept_1_VLAN
dampening
ip address 10.125.1.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
```

```
load-interval 30
!
interface Vlan102
description Connected to cr24_2960_Dept_2_VLAN
dampening
ip address 10.125.1.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan103
description Connected to cr24_2960_Dept_3_VLAN
dampening
ip address 10.125.2.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan104
description Connected to cr24_2960_Dept_4_VLAN
dampening
ip address 10.125.2.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan105
description Connected to cr24_2960_Dept_5_VLAN
dampening
ip address 10.125.3.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan106
description Connected to cr24_2960_Dept_6_VLAN
dampening
ip address 10.125.3.129 255.255.255.128
```

```
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan107
description Connected to cr24_2960_Dept_7_VLAN
dampening
ip address 10.125.4.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan108
description Connected to cr24_2960_Dept_8_VLAN
dampening
ip address 10.125.4.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan109
description Connected to cr24_2960_Dept_9_VLAN
dampening
ip address 10.125.5.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan110
description Connected to cr24_2960_Dept_10_VLAN
dampening
ip address 10.125.5.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
```

```
interface Vlan111
description Connected to cr24_2975_Dept_11_VLAN
dampening
ip address 10.125.6.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan112
description Connected to cr24_2975_Dept_12_VLAN
dampening
ip address 10.125.6.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan113
description Connected to cr24_2975_Dept_13_VLAN
dampening
ip address 10.125.7.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan114
description Connected to cr24_2975_Dept_14_VLAN
dampening
ip address 10.125.7.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan115
description Connected to cr24_2975_Dept_15_VLAN
dampening
ip address 10.125.8.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
```

```
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan116
description Connected to cr24_2975_Dept_16_VLAN
dampening
ip address 10.125.8.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan117
description Connected to cr24_2975_Dept_17_VLAN
dampening
ip address 10.125.9.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan118
description Connected to cr24_2975_Dept_18_VLAN
dampening
ip address 10.125.9.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan119
description Connected to cr24_2975_Dept_19_VLAN
dampening
ip address 10.125.10.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan120
description Connected to cr24_2975_Dept_20_VLAN
```

```
dampening
ip address 10.125.10.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan121
description Connected to cr26_3750_Dept_31_VLAN
dampening
ip address 10.125.16.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan122
description Connected to cr26_3750_Dept_32_VLAN
dampening
ip address 10.125.16.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan123
description Connected to cr26_3750_Dept_33_VLAN
dampening
ip address 10.125.17.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan124
description Connected to cr26_3750_Dept_34_VLAN
dampening
ip address 10.125.17.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
```

```
load-interval 30
!
interface Vlan125
description Connected to cr26_3750_Dept_35_VLAN
dampening
ip address 10.125.18.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan126
description Connected to cr26_3750_Dept_36_VLAN
dampening
ip address 10.125.18.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan127
description Connected to cr26_3750_Dept_37_VLAN
dampening
ip address 10.125.19.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan128
description Connected to cr26_3750_Dept_38_VLAN
dampening
ip address 10.125.19.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan129
description Connected to cr26_3750_Dept_39_VLAN
dampening
ip address 10.125.20.1 255.255.255.128
```

```
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan130
description Connected to cr26_3750_Dept_40_VLAN
dampening
ip address 10.125.20.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan131
description Connected to cr25_3750s_Dept_31_VLAN
dampening
ip address 10.125.26.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan132
description Connected to cr25_3750s_Dept_32_VLAN
dampening
ip address 10.125.26.129 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan133
description Connected to cr25_3750s_Dept_33_VLAN
dampening
ip address 10.125.27.1 255.255.255.128
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
```

```
interface Vlan134
  description Connected to cr25_3750s_Dept_34_VLAN
  dampening
  ip address 10.125.27.129 255.255.255.128
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan135
  description Connected to cr25_3750s_Dept_35_VLAN
  dampening
  ip address 10.125.28.1 255.255.255.128
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan136
  description Connected to cr25_3750s_Dept_36_VLAN
  dampening
  ip address 10.125.28.129 255.255.255.128
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan137
  description Connected to cr25_3750s_Dept_37_VLAN
  dampening
  ip address 10.125.29.1 255.255.255.128
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan138
  description Connected to cr25_3750s_Dept_38_VLAN
  dampening
  ip address 10.125.29.129 255.255.255.128
  ip helper-address 10.125.31.2
  no ip redirects
```

```
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan139
  description Connected to cr25_3750s_Dept_39_VLAN
  dampening
  ip address 10.125.30.1 255.255.255.128
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan140
  description Connected to cr25_3750s_Dept_40_VLAN
  dampening
  ip address 10.125.30.129 255.255.255.128
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan141
  dampening
  ip address 10.125.31.1 255.255.255.240
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan142
  dampening
  ip address 10.125.31.17 255.255.255.240
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan143
  dampening
  ip address 10.125.31.33 255.255.255.240
  ip helper-address 10.125.31.2
```

```
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan144
  dampening
  ip address 10.125.31.49 255.255.255.240
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachable
  ip pim sparse-mode
  load-interval 30
!
interface Vlan145
  dampening
  ip address 10.125.31.65 255.255.255.240
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachable
  ip pim sparse-mode
  load-interval 30
!
interface Vlan146
  dampening
  ip address 10.125.31.81 255.255.255.240
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachable
  ip pim dr-priority 100
  ip pim sparse-mode
  load-interval 30
!
interface Vlan147
  dampening
  ip address 10.125.31.97 255.255.255.240
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachable
  ip pim sparse-mode
  load-interval 30
!
interface Vlan148
  dampening
  ip address 10.125.31.113 255.255.255.240
  ip helper-address 10.125.31.2
```

```
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan149
  dampening
  ip address 10.125.31.129 255.255.255.240
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachable
  ip pim sparse-mode
  load-interval 30
!
interface Vlan150
  dampening
  ip address 10.125.31.145 255.255.255.240
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachable
  ip pim sparse-mode
  load-interval 30
!
interface Vlan200
  description Connected to cr24_ASA_Inside_Port
  dampening
  ip address 10.125.33.9 255.255.255.0
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.125.0.0 255.255.0.0 5
  logging event link-status
  load-interval 30
  carrier-delay msec 0
!
interface Vlan900
  description Mgmt_VLAN
  dampening
  ip address 10.125.34.1 255.255.255.224
  no ip redirects
  no ip unreachable
  no ip proxy-arp
  ip pim dr-priority 100
  ip pim sparse-mode
  ip summary-address eigrp 100 10.125.0.0 255.255.0.0 5
  load-interval 30
```



```
!  
!  
router eigrp 100  
  passive-interface default  
  no passive-interface Vlan200  
  no passive-interface GigabitEthernet3/3  
  no passive-interface GigabitEthernet4/3  
  no passive-interface GigabitEthernet4/4  
  no passive-interface GigabitEthernet4/6  
  no passive-interface GigabitEthernet5/4  
  no passive-interface GigabitEthernet5/5  
  no passive-interface GigabitEthernet5/6  
  no passive-interface GigabitEthernet6/2  
  no passive-interface GigabitEthernet6/5  
  no passive-interface GigabitEthernet6/6  
  no passive-interface Port-channel1  
  no passive-interface Port-channel13  
  no passive-interface Port-channel15  
  no passive-interface Port-channel17  
  distribute-list route-map EIGRP_STUB_ROUTES out Vlan200  
  distribute-list route-map EIGRP_STUB_ROUTES out Port-channel13  
  distribute-list route-map EIGRP_STUB_ROUTES out Port-channel15  
  no auto-summary  
  eigrp router-id 10.125.100.1  
  network 10.125.0.0 0.0.255.255  
  nsf  
!  
no ip http server  
no ip http secure-server  
!  
ip pim rp-address 10.125.100.100 Allowed_MCAST_Groups override  
ip pim spt-threshold infinity  
ip pim accept-register list PERMIT-SOURCES  
!  
ip access-list standard Allowed_MCAST_Groups  
  permit 224.0.1.39  
  permit 224.0.1.40  
  permit 239.192.0.0 0.0.255.255  
ip access-list standard Deny_PIM_DM_Fallback  
  deny 224.0.1.39  
  deny 224.0.1.40  
  permit any  
!  
ip access-list extended COPP-CRITICAL-APPLICATIONS  
  remark DHCP  
  permit udp host 0.0.0.0 host 255.255.255.255 eq bootps
```

```
  permit udp host 10.125.31.2 eq bootps any eq bootps  
ip access-list extended COPP-FILE-MANAGEMENT  
  remark (initiated) FTP (active and passive)  
  permit tcp 172.26.160.0 0.0.3.255 eq ftp host 172.26.160.185 gt 1023  
  established  
  permit tcp 172.26.160.0 0.0.3.255 eq ftp-data host 172.26.160.185 gt  
  1023  
  permit tcp 172.26.160.0 0.0.3.255 gt 1023 host 172.26.160.185 gt 1023  
  established  
  remark (initiated) TFTP  
  permit udp 172.26.160.0 0.0.3.255 gt 1023 host 172.26.160.185 gt 1023  
ip access-list extended COPP-IGP  
  remark IGP (EIGRP)  
  permit eigrp any host 224.0.0.10  
  permit eigrp any any  
ip access-list extended COPP-INTERACTIVE-MANAGEMENT  
  remark RADIUS (return traffic)  
  permit udp host 10.125.31.4 host 10.125.100.2  
  remark SSH  
  permit tcp 10.124.0.0 0.3.255.255 host 10.125.100.2 eq 22  
  remark SNMP  
  permit udp host 172.26.160.100 host 10.125.100.2 eq snmp  
  remark NTP  
  permit udp host 172.26.160.10 host 172.26.160.185 eq ntp  
ip access-list extended COPP-MONITORING  
  remark PING-ECHO  
  permit icmp any any echo  
  remark PING-ECHO-REPLY  
  permit icmp any any echo-reply  
  remark TRACEROUTE  
  permit icmp any any ttl-exceeded  
  permit icmp any any port-unreachable  
ip access-list extended COPP-UNDESIRABLE  
  remark UNDESIRABLE  
  permit udp any any eq 1434  
ip access-list extended PERMIT-SOURCES  
  permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255  
!  
access-list 1 permit 0.0.0.0  
access-list 1 permit 10.126.0.0  
access-list 1 permit 10.127.0.0  
access-list 1 permit 10.125.0.0  
!  
route-map EIGRP_STUB_ROUTES permit 10  
  match ip address 1  
!
```

```
!  
!  
control-plane  
  service-policy input system-cpp-policy  
!  
alias exec ct config t  
alias exec srb sh run | begin  
alias exec sri sh run int  
alias exec cl clear logg  
alias exec rib show ip route  
alias exec ec sh etherchannel  
alias exec cc clea count  
alias exec sac sh access-list  
alias exec cpu show proc c s | inc CPU  
alias exec sin show ip int brief | ex unassi  
alias exec dsno show ip dhcp snooping bind  
!  
line con 0  
  exec-timeout 0 0  
  password 7 104D000A0618  
  stopbits 1  
line vty 0 4  
  exec-timeout 0 0  
  password 7 0822455D0A16  
  login  
line vty 5 15  
  exec-timeout 0 0  
  login  
!  
!  
monitor session 10 source interface Gi4/4  
monitor session 10 source interface Gi5/3  
monitor session 10 filter packet-type good rx  
monitor session 10 destination interface Gi6/3  
ntp clock-period 17181779  
ntp server 172.26.160.10  
end
```

WAN Aggregation

```
Cr24-3750ME-DO  
!  
!  
! Last configuration change at 22:59:31 EDT Wed Sep 2 2009  
! NVRAM config last updated at 22:59:37 EDT Wed Sep 2 2009  
!
```

```
version 12.2  
no service pad  
service timestamps debug datetime msec localtime  
service timestamps log datetime msec localtime  
service password-encryption  
!  
hostname cr24-3750ME-DO  
!  
boot-start-marker  
boot-end-marker  
!  
enable secret 5 $1$.2Ap$J0k3w04nQHip4UNN28KxX0  
!  
no aaa new-model  
clock timezone EST -5  
clock summer-time EDT recurring  
system mtu routing 1500  
ip subnet-zero  
ip routing  
!  
!  
no ip domain-lookup  
ip multicast-routing distributed  
vtp domain District-Office  
vtp mode transparent  
!  
no mpls traffic-eng auto-bw timers frequency 0  
mls qos map cos-dscp 0 8 16 24 32 46 48 56  
mls qos srr-queue input bandwidth 70 30  
mls qos srr-queue input threshold 1 80 90  
mls qos srr-queue input priority-queue 2 bandwidth 30  
mls qos srr-queue input dscp-map queue 1 threshold 2 24  
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56  
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46  
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46  
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28 30 34  
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38  
mls qos srr-queue output dscp-map queue 2 threshold 2 24  
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56  
mls qos srr-queue output dscp-map queue 3 threshold 3 0  
mls qos srr-queue output dscp-map queue 4 threshold 1 8  
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14  
mls qos queue-set output 1 threshold 2 80 90 100 100  
mls qos queue-set output 1 threshold 4 60 100 100 100  
mls qos
```

```
!  
key chain eigrp-key  
  key 1  
    key-string 7 02050D480809  
!  
crypto pki trustpoint HTTPS_SS_CERT_KEYPAIR  
  enrollment selfsigned  
  serial-number  
  revocation-check none  
  rsakeypair HTTPS_SS_CERT_KEYPAIR  
!  
!  
crypto pki certificate chain HTTPS_SS_CERT_KEYPAIR  
  certificate self-signed 01 nvram:8F1F4D80host#2E2E.cer  
!  
!  
!  
spanning-tree mode rapid-pvst  
spanning-tree etherchannel guard misconfig  
spanning-tree extend system-id  
!  
!  
!  
errdisable recovery cause udd  
errdisable recovery cause bpduguard  
errdisable recovery cause storm-control  
errdisable recovery interval 120  
port-channel load-balance src-dst-ip  
!  
vlan internal allocation policy ascending  
!  
vlan 501  
  name School-Site1  
!  
vlan 502  
  name School-Site2  
!  
vlan 503  
  name School-Site3  
!  
vlan 504  
  name School-Site4  
!  
vlan 505  
  name School-Site5  
!
```

```
vlan 506  
  name School-Site6  
!  
vlan 507  
  name School-Site7  
!  
vlan 508  
  name School-Site8  
!  
vlan 509  
  name School-Site9  
!  
vlan 510  
  name School-Site10  
!  
vlan 511  
  name School-Site11  
!  
vlan 512  
  name School-Site12  
!  
vlan 513  
  name School-Site13  
!  
vlan 514  
  name School-Site14  
!  
vlan 515  
  name School-Site15  
!  
vlan 516  
  name School-Site16  
!  
vlan 517  
  name School-Site17  
!  
vlan 518  
  name School-Site18  
!  
vlan 519  
  name School-Site19  
!  
vlan 520  
  name School-Site20  
!  
vlan 521
```

```
    name School-Site21
!
vlan 522
    name School-Site22
!
vlan 523
    name School-Site23
!
vlan 524
    name School-Site24
!
vlan 525
    name School-Site25
!
vlan 526
    name School-Site26
!
vlan 527
    name School-Site27
!
vlan 528
    name School-Site28
!
vlan 529
    name School-Site29
!
vlan 530
    name School-Site30
!
vlan 531
    name School-Site31
!
vlan 532
    name School-Site32
!
vlan 533
    name School-Site33
!
vlan 534
    name School-Site34
!
vlan 535
    name School-Site35
!
vlan 536
    name School-Site36
```

```
!
vlan 537
    name School-Site37
!
vlan 538
    name School-Site38
!
vlan 539
    name School-Site39
!
vlan 540
    name School-Site40
!
vlan 541
    name School-Site41
!
vlan 542
    name School-Site42
!
vlan 543
    name School-Site43
!
vlan 544
    name School-Site44
!
vlan 545
    name School-Site45
!
vlan 546
    name School-Site46
!
vlan 547
    name School-Site47
!
vlan 548
    name School-Site48
!
vlan 549
    name School-Site49
!
vlan 550
    name School-Site50
!
vlan 601
    name School-Site51
!
```

```
vlan 602
  name School-Site52
!
vlan 603
  name School-Site53
!
vlan 604
  name School-Site54
!
vlan 605
  name School-Site55
!
vlan 606
  name School-Site56
!
vlan 607
  name School-Site57
!
vlan 608
  name School-Site58
!
vlan 609
  name School-Site59
!
vlan 610
  name School-Site60
!
vlan 611
  name School-Site61
!
vlan 612
  name School-Site62
!
vlan 613
  name School-Site63
!
vlan 614
  name School-Site64
!
vlan 615
  name School-Site65
!
vlan 616
  name School-Site66
!
vlan 617
```

```
  name School-Site67
!
vlan 618
  name School-Site68
!
vlan 619
  name School-Site69
!
vlan 620
  name School-Site70
!
vlan 621
  name School-Site71
!
vlan 622
  name School-Site72
!
vlan 623
  name School-Site73
!
vlan 624
  name School-Site74
!
vlan 625
  name School-Site75
!
vlan 626
  name School-Site76
!
vlan 627
  name School-Site77
!
vlan 628
  name School-Site78
!
vlan 629
  name School-Site79
!
vlan 630
  name School-Site80
!
vlan 631
  name School-Site81
!
vlan 632
  name School-Site82
```

```
!  
vlan 633  
    name School-Site83  
!  
vlan 634  
    name School-Site84  
!  
vlan 635  
    name School-Site85  
!  
vlan 636  
    name School-Site86  
!  
vlan 637  
    name School-Site87  
!  
vlan 638  
    name School-Site88  
!  
vlan 639  
    name School-Site89  
!  
vlan 640  
    name School-Site90  
!  
vlan 641  
    name School-Site91  
!  
vlan 642  
    name School-Site92  
!  
vlan 643  
    name School-Site93  
!  
vlan 644  
    name School-Site94  
!  
vlan 645  
    name School-Site95  
!  
vlan 646  
    name School-Site96  
!  
vlan 647  
    name School-Site97  
!
```

```
vlan 648  
    name School-Site98  
!  
vlan 649  
    name School-Site99  
!  
vlan 650  
    name School-Site100  
!  
vlan 801  
    name MetroE_G1/1/1_Hopping_VLAN  
!  
vlan 802  
    name MetroE_G1/1/2_Hopping_VLAN  
!  
!  
class-map match-all GOLD  
    match ip dscp cs6  
    match ip dscp cs7  
    match ip dscp cs3  
    match ip dscp cs2  
class-map match-all SILVER  
    match ip dscp af21  
    match ip dscp af22  
    match ip dscp af23  
    match ip dscp af11  
    match ip dscp af12  
    match ip dscp af13  
    match ip dscp af31  
    match ip dscp af32  
    match ip dscp af33  
    match ip dscp af41  
    match ip dscp af42  
    match ip dscp af43  
class-map match-all School_Site11  
    description 3750-SS11  
    match vlan 511  
class-map match-all School_Site22  
    description 3750-SS22  
    match vlan 522  
class-map match-all School_Site33  
    description 3750-SS33  
    match vlan 533  
class-map match-all School_Site44  
    description 3750-SS44  
    match vlan 544
```

```
class-map match-all School_Site55
  description 3750-SS55
  match vlan 606
class-map match-all School_Site66
  description 3750-SS66
  match vlan 617
class-map match-all School_Site77
  description 3750-SS77
  match vlan 628
class-map match-all School_Site88
  description 3750-SS88
  match vlan 639
class-map match-all School_Site99
  description 3750-SS99
  match vlan 650
class-map match-all School_Site10
  description 3750-SS10
  match vlan 510
class-map match-all School_Site23
  description 3750-SS23
  match vlan 523
class-map match-all School_Site32
  description 3750-SS32
  match vlan 532
class-map match-all School_Site45
  description 3750-SS45
  match vlan 545
class-map match-all School_Site54
  description 3750-SS54
  match vlan 605
class-map match-all School_Site67
  description 3750-SS67
  match vlan 618
class-map match-all School_Site76
  description 3750-SS76
  match vlan 627
class-map match-all School_Site89
  description 3750-SS89
  match vlan 640
class-map match-all School_Site98
  description 3750-SS98
  match vlan 649
class-map match-all School_Site13
  description 3750-SS13
  match vlan 513
class-map match-all School_Site20
```

```
  description 3750-SS20
  match vlan 520
class-map match-all School_Site31
  description 3750-SS31
  match vlan 531
class-map match-all School_Site46
  description 3750-SS46
  match vlan 546
class-map match-all School_Site57
  description 3750-SS57
  match vlan 608
class-map match-all School_Site64
  description 3750-SS64
  match vlan 615
class-map match-all School_Site75
  description 3750-SS75
  match vlan 626
class-map match-all School_Site12
  description 3750-SS12
  match vlan 512
class-map match-all School_Site21
  description 3750-SS21
  match vlan 521
class-map match-all School_Site30
  description 3750-SS30
  match vlan 530
class-map match-all School_Site47
  description 3750-SS47
  match vlan 547
class-map match-all School_Site56
  description 3750-SS56
  match vlan 607
class-map match-all School_Site65
  description 3750-SS65
  match vlan 616
class-map match-all School_Site74
  description 3750-SS74
  match vlan 625
class-map match-all School_Site15
  description 3750-SS15
  match vlan 515
class-map match-all School_Site26
  description 3750-SS26
  match vlan 526
class-map match-all School_Site37
  description 3750-SS37
```

```
match vlan 537
class-map match-all School_Site40
  description 3750-SS40
match vlan 540
class-map match-all School_Site51
  description 3750-SS51
match vlan 602
class-map match-all School_Site62
  description 3750-SS62
match vlan 613
class-map match-all School_Site73
  description 3750-SS73
match vlan 624
class-map match-all School_Site14
  description 3750-SS14
match vlan 514
class-map match-all School_Site27
  description 3750-SS27
match vlan 527
class-map match-all School_Site36
  description 3750-SS36
match vlan 536
class-map match-all School_Site41
  description 3750-SS41
match vlan 541
class-map match-all School_Site50
  description 3750-SS50
match vlan 550
class-map match-all School_Site63
  description 3750-SS63
match vlan 614
class-map match-all School_Site72
  description 3750-SS72
match vlan 623
class-map match-all School_Site17
  description 3750-SS17
match vlan 517
class-map match-all School_Site24
  description 3750-SS24
match vlan 524
class-map match-all School_Site35
  description 3750-SS35
match vlan 535
class-map match-all School_Site42
  description 3750-SS42
match vlan 542
```

```
class-map match-all School_Site53
  description 3750-SS53
match vlan 604
class-map match-all School_Site60
  description 3750-SS60
match vlan 611
class-map match-all School_Site71
  description 3750-SS71
match vlan 622
class-map match-all School_Site16
  description 3750-SS16
match vlan 516
class-map match-all School_Site25
  description 3750-SS25
match vlan 525
class-map match-all School_Site34
  description 3750-SS34
match vlan 534
class-map match-all School_Site43
  description 3750-SS43
match vlan 543
class-map match-all School_Site52
  description 3750-SS52
match vlan 603
class-map match-all School_Site61
  description 3750-SS61
match vlan 612
class-map match-all School_Site70
  description 3750-SS70
match vlan 621
class-map match-all School_Site19
  description 3750-SS19
match vlan 519
class-map match-all School_Site80
  description 3750-SS80
match vlan 631
class-map match-all School_Site91
  description 3750-SS91
match vlan 642
class-map match-all School_Site18
  description 3750-SS18
match vlan 518
class-map match-all School_Site81
  description 3750-SS81
match vlan 632
class-map match-all School_Site90
```



```
description 3750-SS90
match vlan 641
class-map match-all School_Site28
description 3750-SS28
match vlan 528
class-map match-all School_Site39
description 3750-SS39
match vlan 539
class-map match-all School_Site82
description 3750-SS82
match vlan 633
class-map match-all School_Site93
description 3750-SS93
match vlan 644
class-map match-all School_Site29
description 3750-SS29
match vlan 529
class-map match-all School_Site38
description 3750-SS38
match vlan 538
class-map match-all School_Site83
description 3750-SS83
match vlan 634
class-map match-all School_Site92
description 3750-SS92
match vlan 643
class-map match-all School_Site48
description 3750-SS48
match vlan 548
class-map match-all School_Site59
description 3750-SS59
match vlan 610
class-map match-all School_Site84
description 3750-SS84
match vlan 635
class-map match-all School_Site95
description 3750-SS95
match vlan 646
class-map match-all School_Site49
description 3750-SS49
match vlan 549
class-map match-all School_Site58
description 3750-SS58
match vlan 609
class-map match-all School_Site85
description 3750-SS85
```

```
match vlan 636
class-map match-all School_Site94
description 3750-SS94
match vlan 645
class-map match-all School_Site68
description 3750-SS68
match vlan 619
class-map match-all School_Site79
description 3750-SS79
match vlan 630
class-map match-all School_Site86
description 3750-SS86
match vlan 637
class-map match-all School_Site97
description 3750-SS97
match vlan 648
class-map match-all School_Site69
description 3750-SS69
match vlan 620
class-map match-all School_Site78
description 3750-SS78
match vlan 629
class-map match-all School_Site87
description 3750-SS87
match vlan 638
class-map match-all School_Site96
description 3750-SS96
match vlan 647
class-map match-all REAL_TIME
match ip dscp ef
match ip dscp cs5
match ip dscp cs4
class-map match-all School_Site1
description cr2-4507-SS1
match vlan 501
class-map match-all School_Site100
description cr36-3750s-SS100
match vlan 650
class-map match-all School_Site2
description 3750-SS2
match vlan 502
class-map match-all School_Site3
description 3750-SS3
match vlan 503
class-map match-all School_Site4
description 3750-SS4
```

```
match vlan 504
class-map match-all School_Site5
  description 3750-SS5
match vlan 505
class-map match-all School_Site6
  description 3750-SS6
match vlan 506
class-map match-all School_Site7
  description 3750-SS7
match vlan 507
class-map match-all School_Site8
  description 3750-SS8
match vlan 508
class-map match-all School_Site9
  description 3750-SS9
match vlan 509
!
!
policy-map School-Child-Policy-Map
  class REAL_TIME
    priority
    police cir percent 30 conform-action set-cos-transmit 5 exceed-action
drop violate-action drop
    set cos 5
  class GOLD
    bandwidth percent 5
    set cos 3
  class SILVER
    bandwidth percent 30
    set cos 2
  class class-default
    bandwidth percent 35
    set cos 0
policy-map School-51to100-Parent-Policy-Map
  class School_Site100
    shape average 20000000
    service-policy School-Child-Policy-Map
  class School_Site51
    shape average 20000000
    service-policy School-Child-Policy-Map
  class School_Site52
    shape average 20000000
    service-policy School-Child-Policy-Map
  class School_Site53
    shape average 20000000
    service-policy School-Child-Policy-Map
```

```
class School_Site54
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site55
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site56
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site57
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site58
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site59
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site60
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site61
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site62
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site63
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site64
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site65
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site66
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site67
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site68
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site69
```



```
policy-map School-1to50-Parent-Policy-Map
class School_Site1
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site2
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site3
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site4
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site5
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site6
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site7
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site8
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site9
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site10
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site11
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site12
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site13
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site14
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site15
    shape average 20000000
    service-policy School-Child-Policy-Map
```

```
class School_Site16
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site17
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site18
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site19
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site20
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site21
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site22
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site23
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site24
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site25
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site26
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site27
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site28
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site29
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site30
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site31
```

```
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site32
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site33
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site34
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site35
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site36
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site37
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site38
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site39
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site40
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site41
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site42
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site43
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site44
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site45
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site46
    shape average 20000000
```

```
  service-policy School-Child-Policy-Map
class School_Site47
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site48
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site49
    shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site50
    shape average 10000000
  service-policy School-Child-Policy-Map
!
!
!
!
interface Loopback0
  ip address 10.126.100.1 255.255.255.255
!
interface Port-channel1
  description Connected to cr24-4507-DO
  no switchport
  dampening
  ip address 10.125.32.5 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.127.0.0 255.255.0.0 5
  ip summary-address eigrp 100 10.126.0.0 255.255.0.0 5
  logging event bundle-status
  load-interval 30
  carrier-delay msec 0
  hold-queue 2000 in
  hold-queue 2000 out
!
interface FastEthernet1/0/1
!
interface FastEthernet1/0/2
!
interface FastEthernet1/0/3
!
interface FastEthernet1/0/4
!
interface FastEthernet1/0/5
!
```

```
interface FastEthernet1/0/6
!
interface FastEthernet1/0/7
!
interface FastEthernet1/0/8
!
interface FastEthernet1/0/9
!
interface FastEthernet1/0/10
!
interface FastEthernet1/0/11
!
interface FastEthernet1/0/12
!
interface FastEthernet1/0/13
!
interface FastEthernet1/0/14
!
interface FastEthernet1/0/15
!
interface FastEthernet1/0/16
!
interface FastEthernet1/0/17
!
interface FastEthernet1/0/18
!
interface FastEthernet1/0/19
!
interface FastEthernet1/0/20
!
interface FastEthernet1/0/21
!
interface FastEthernet1/0/22
!
interface FastEthernet1/0/23
!
interface FastEthernet1/0/24
description Connected to FlashNet
no switchport
ip address 172.26.160.184 255.255.254.0
no ip redirects
no ip proxy-arp
load-interval 30
!
interface GigabitEthernet1/0/1
description Connected to cr24-4507-DO
```

```
no switchport
no ip address
logging event bundle-status
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol pagp
channel-group 1 mode desirable
!
interface GigabitEthernet1/0/2
description Connected to cr24-4507-DO
no switchport
no ip address
logging event bundle-status
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol pagp
channel-group 1 mode desirable
!
interface GigabitEthernet1/1/1
description Connected to SP-MPLS-Core-cr24-6500-1
switchport trunk native vlan 801
switchport trunk allowed vlan 501-550
switchport mode trunk
logging event trunk-status
load-interval 30
carrier-delay msec 0
priority-queue out
mls qos trust dscp
spanning-tree portfast trunk
spanning-tree bpduguard enable
spanning-tree guard root
service-policy output School-1to50-Parent-Policy-Map
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet1/1/2
description Connected to SP-MPLS-Core-cr24-6500-1
switchport trunk native vlan 802
```

```
switchport trunk allowed vlan 601-650
switchport mode trunk
logging event trunk-status
load-interval 30
carrier-delay msec 0
priority-queue out
mls qos trust dscp
spanning-tree portfast trunk
spanning-tree bpdupfilter enable
spanning-tree guard root
service-policy output School-51to100-Parent-Policy-Map
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan1
no ip address
shutdown
!
interface Vlan501
description Connected to cr35-4507-SS1
dampening
ip address 10.126.0.0 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan502
dampening
ip address 10.126.0.2 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan503
dampening
ip address 10.126.0.4 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
```

```
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan504
dampening
ip address 10.126.0.6 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan505
dampening
ip address 10.126.0.8 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan506
dampening
ip address 10.126.0.10 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan507
dampening
ip address 10.126.0.12 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
```

```
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan508
dampening
ip address 10.126.0.14 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan509
dampening
ip address 10.126.0.16 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan510
dampening
ip address 10.126.0.18 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan511
dampening
ip address 10.126.0.20 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
```

```
hold-queue 2000 out
!
interface Vlan512
dampening
ip address 10.126.0.22 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan513
dampening
ip address 10.126.0.24 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan514
dampening
ip address 10.126.0.26 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan515
dampening
ip address 10.126.0.28 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
```



```
interface Vlan516
  dampening
  ip address 10.126.0.30 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan517
  dampening
  ip address 10.126.0.32 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan518
  dampening
  ip address 10.126.0.34 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan519
  dampening
  ip address 10.126.0.36 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan520
  dampening
```

```
  ip address 10.126.0.38 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan521
  dampening
  ip address 10.126.0.40 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan522
  dampening
  ip address 10.126.0.42 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan523
  dampening
  ip address 10.126.0.44 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan524
  dampening
  ip address 10.126.0.46 255.255.255.254
  ip authentication mode eigrp 100 md5
```

```
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan525
  dampening
  ip address 10.126.0.48 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan526
  dampening
  ip address 10.126.0.50 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan527
  dampening
  ip address 10.126.0.52 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan528
  dampening
  ip address 10.126.0.54 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
```

```
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan529
  dampening
  ip address 10.126.0.56 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan530
  dampening
  ip address 10.126.0.58 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan531
  dampening
  ip address 10.126.0.60 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan532
  dampening
  ip address 10.126.0.62 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
```

```
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan533
  dampening
  ip address 10.126.0.64 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan534
  dampening
  ip address 10.126.0.66 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan535
  dampening
  ip address 10.126.0.68 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan536
  dampening
  ip address 10.126.0.70 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
```

```
!
interface Vlan537
  dampening
  ip address 10.126.0.72 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan538
  dampening
  ip address 10.126.0.74 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan539
  dampening
  ip address 10.126.0.76 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan540
  dampening
  ip address 10.126.0.78 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan541
```

```
dampening
ip address 10.126.0.80 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan542
dampening
ip address 10.126.0.82 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan543
dampening
ip address 10.126.0.84 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan544
dampening
ip address 10.126.0.86 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan545
dampening
ip address 10.126.0.88 255.255.255.254
```

```
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan546
dampening
ip address 10.126.0.90 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan547
dampening
ip address 10.126.0.92 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan548
dampening
ip address 10.126.0.94 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan549
dampening
ip address 10.126.0.96 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
```

```
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan550
  dampening
  ip address 10.126.0.98 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan601
  description Connected to cr36-3750-SS2
  dampening
  ip address 10.126.1.0 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan602
  dampening
  ip address 10.126.1.2 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan603
  dampening
  ip address 10.126.1.4 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
```

```
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan604
  dampening
  ip address 10.126.1.6 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan605
  dampening
  ip address 10.126.1.8 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan606
  dampening
  ip address 10.126.1.10 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan607
  dampening
  ip address 10.126.1.12 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
```

```
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan608
dampening
ip address 10.126.1.14 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan609
dampening
ip address 10.126.1.16 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan610
dampening
ip address 10.126.1.18 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan611
dampening
ip address 10.126.1.20 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
```

```
!
interface Vlan612
dampening
ip address 10.126.1.22 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan613
dampening
ip address 10.126.1.24 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan614
dampening
ip address 10.126.1.26 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan615
dampening
ip address 10.126.1.28 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan616
```

```
dampening
ip address 10.126.1.30 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan617
dampening
ip address 10.126.1.32 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan618
dampening
ip address 10.126.1.34 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan619
dampening
ip address 10.126.1.36 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan620
dampening
ip address 10.126.1.38 255.255.255.254
```

```
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan621
dampening
ip address 10.126.1.40 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan622
dampening
ip address 10.126.1.42 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan623
dampening
ip address 10.126.1.44 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan624
dampening
ip address 10.126.1.46 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
```

```
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan625
  dampening
  ip address 10.126.1.48 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan626
  dampening
  ip address 10.126.1.50 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan627
  dampening
  ip address 10.126.1.52 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan628
  dampening
  ip address 10.126.1.54 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
```

```
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan629
  dampening
  ip address 10.126.1.56 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan630
  dampening
  ip address 10.126.1.58 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan631
  dampening
  ip address 10.126.1.60 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan632
  dampening
  ip address 10.126.1.62 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
```



```
hold-queue 2000 out
!
interface Vlan633
 dampening
 ip address 10.126.1.64 255.255.255.254
 ip authentication mode eigrp 100 md5
 ip authentication key-chain eigrp 100 eigrp-key
 ip pim sparse-mode
 ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
 load-interval 30
 hold-queue 2000 in
 hold-queue 2000 out
!
interface Vlan634
 dampening
 ip address 10.126.1.66 255.255.255.254
 ip authentication mode eigrp 100 md5
 ip authentication key-chain eigrp 100 eigrp-key
 ip pim sparse-mode
 ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
 load-interval 30
 hold-queue 2000 in
 hold-queue 2000 out
!
interface Vlan635
 dampening
 ip address 10.126.1.68 255.255.255.254
 ip authentication mode eigrp 100 md5
 ip authentication key-chain eigrp 100 eigrp-key
 ip pim sparse-mode
 ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
 load-interval 30
 hold-queue 2000 in
 hold-queue 2000 out
!
interface Vlan636
 dampening
 ip address 10.126.1.70 255.255.255.254
 ip authentication mode eigrp 100 md5
 ip authentication key-chain eigrp 100 eigrp-key
 ip pim sparse-mode
 ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
 load-interval 30
 hold-queue 2000 in
 hold-queue 2000 out
!
```

```
interface Vlan637
 dampening
 ip address 10.126.1.72 255.255.255.254
 ip authentication mode eigrp 100 md5
 ip authentication key-chain eigrp 100 eigrp-key
 ip pim sparse-mode
 ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
 load-interval 30
 hold-queue 2000 in
 hold-queue 2000 out
!
interface Vlan638
 dampening
 ip address 10.126.1.74 255.255.255.254
 ip authentication mode eigrp 100 md5
 ip authentication key-chain eigrp 100 eigrp-key
 ip pim sparse-mode
 ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
 load-interval 30
 hold-queue 2000 in
 hold-queue 2000 out
!
interface Vlan639
 dampening
 ip address 10.126.1.76 255.255.255.254
 ip authentication mode eigrp 100 md5
 ip authentication key-chain eigrp 100 eigrp-key
 ip pim sparse-mode
 ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
 load-interval 30
 hold-queue 2000 in
 hold-queue 2000 out
!
interface Vlan640
 dampening
 ip address 10.126.1.78 255.255.255.254
 ip authentication mode eigrp 100 md5
 ip authentication key-chain eigrp 100 eigrp-key
 ip pim sparse-mode
 ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
 load-interval 30
 hold-queue 2000 in
 hold-queue 2000 out
!
interface Vlan641
 dampening
```

```
ip address 10.126.1.80 255.255.255.254
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan642
  dampening
  ip address 10.126.1.82 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan643
  dampening
  ip address 10.126.1.84 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan644
  dampening
  ip address 10.126.1.86 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan645
  dampening
  ip address 10.126.1.88 255.255.255.254
  ip authentication mode eigrp 100 md5
```

```
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan646
  dampening
  ip address 10.126.1.90 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan647
  dampening
  ip address 10.126.1.92 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan648
  dampening
  ip address 10.126.1.94 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
  load-interval 30
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Vlan649
  dampening
  ip address 10.126.1.96 255.255.255.254
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
```

```
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
interface Vlan650
dampening
ip address 10.126.1.98 255.255.255.254
ip hold-time eigrp 100 20
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.124.0.0 255.252.0.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
!
router eigrp 100
passive-interface default
no passive-interface Vlan501
no passive-interface Vlan502
no passive-interface Vlan503
no passive-interface Vlan504
no passive-interface Vlan505
no passive-interface Vlan506
no passive-interface Vlan507
no passive-interface Vlan508
no passive-interface Vlan509
no passive-interface Vlan510
no passive-interface Vlan511
no passive-interface Vlan512
no passive-interface Vlan513
no passive-interface Vlan514
no passive-interface Vlan515
no passive-interface Vlan516
no passive-interface Vlan517
no passive-interface Vlan518
no passive-interface Vlan519
no passive-interface Vlan520
no passive-interface Vlan521
no passive-interface Vlan522
no passive-interface Vlan523
no passive-interface Vlan524
no passive-interface Vlan525
no passive-interface Vlan526
```

```
no passive-interface Vlan527
no passive-interface Vlan528
no passive-interface Vlan529
no passive-interface Vlan530
no passive-interface Vlan531
no passive-interface Vlan532
no passive-interface Vlan533
no passive-interface Vlan534
no passive-interface Vlan535
no passive-interface Vlan536
no passive-interface Vlan537
no passive-interface Vlan538
no passive-interface Vlan539
no passive-interface Vlan540
no passive-interface Vlan541
no passive-interface Vlan542
no passive-interface Vlan543
no passive-interface Vlan544
no passive-interface Vlan545
no passive-interface Vlan546
no passive-interface Vlan547
no passive-interface Vlan548
no passive-interface Vlan549
no passive-interface Vlan550
no passive-interface Vlan601
no passive-interface Vlan602
no passive-interface Vlan603
no passive-interface Vlan604
no passive-interface Vlan605
no passive-interface Vlan606
no passive-interface Vlan607
no passive-interface Vlan608
no passive-interface Vlan609
no passive-interface Vlan610
no passive-interface Vlan611
no passive-interface Vlan612
no passive-interface Vlan613
no passive-interface Vlan614
no passive-interface Vlan615
no passive-interface Vlan616
no passive-interface Vlan617
no passive-interface Vlan618
no passive-interface Vlan619
no passive-interface Vlan620
no passive-interface Vlan621
no passive-interface Vlan622
```

```
no passive-interface Vlan623
no passive-interface Vlan624
no passive-interface Vlan625
no passive-interface Vlan626
no passive-interface Vlan627
no passive-interface Vlan628
no passive-interface Vlan629
no passive-interface Vlan630
no passive-interface Vlan631
no passive-interface Vlan632
no passive-interface Vlan633
no passive-interface Vlan634
no passive-interface Vlan635
no passive-interface Vlan636
no passive-interface Vlan637
no passive-interface Vlan638
no passive-interface Vlan639
no passive-interface Vlan640
no passive-interface Vlan641
no passive-interface Vlan642
no passive-interface Vlan643
no passive-interface Vlan644
no passive-interface Vlan645
no passive-interface Vlan646
no passive-interface Vlan647
no passive-interface Vlan648
no passive-interface Vlan649
no passive-interface Vlan650
no passive-interface Port-channel1
no auto-summary
eigrp router-id 10.126.100.1
network 10.125.0.0 0.0.255.255
network 10.126.0.0 0.0.255.255
!
ip classless
ip route 172.26.158.0 255.255.255.0 172.26.160.1
!
no ip http server
no ip http secure-server
!
ip pim rp-address 10.125.100.100 Allowed_MCAST_Groups override
ip pim spt-threshold infinity
ip pim accept-register list PERMIT-SOURCES
!
ip access-list standard Allowed_MCAST_Groups
permit 224.0.1.39
```

```
permit 224.0.1.40
permit 239.192.0.0 0.0.255.255
ip access-list standard Deny_PIM_DM_Fallback
deny 224.0.1.39
deny 224.0.1.40
permit any
!
ip access-list extended PERMIT-SOURCES
permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255
!
!
snmp-server community public RO
snmp-server community k12 RW
snmp-server trap-source Loopback0
snmp-server host 172.26.158.251 version 2c k12
!
control-plane
!
alias exec ct config t
alias exec srb sh run | begin
alias exec sri sh run int
alias exec cl clear logg
alias exec rib show ip route
alias exec ec sh etherchannel
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
alias exec dsno show ip dhcp snooping bind
!
line con 0
exec-timeout 0 0
password 7 00071A150754
line vty 0 4
exec-timeout 0 0
password 7 02050D480809
login
line vty 5 15
exec-timeout 0 0
no login
!
ntp clock-period 36028666
ntp server 172.26.160.10
end
```

```
Cr26-asa5520-DO
cr26-asa5520-do# wr t
: Saved
:
ASA Version 8.2(1)
!
hostname cr26-asa5520-do
domain-name cisco.com
enable password 8Ry2YjIyt7RRXU24 encrypted
passwd 2KFQnbNIdI.2KYOU encrypted
names
dns-guard
!
interface GigabitEthernet0/0
description Connected to cr24-4507-DO
no nameif
no security-level
no ip address
!
interface GigabitEthernet0/1
description backup to cr24-4507-DO
no nameif
no security-level
no ip address
!
interface GigabitEthernet0/2
description Connected to Internet - cr26-6500-1
nameif outside
security-level 0
ip address 198.133.219.5 255.255.255.0
ospf message-digest-key 1 md5 <removed>
ospf authentication message-digest
!
interface GigabitEthernet0/3
description School DMZ
nameif dmz
security-level 50
ip address 10.25.34.1 255.255.255.0
!
interface Management0/0
nameif management
security-level 100
ip address 172.26.160.225 255.255.252.0
management-only
!
```

```
interface Redundant1
description Connected to cr24-4507-DO
member-interface GigabitEthernet0/0
member-interface GigabitEthernet0/1
nameif inside
security-level 100
allow-ssc-mgmt
ip address 10.125.33.10 255.255.255.0
authentication key eigrp 100 <removed> key-id 1
authentication mode eigrp 100 md5
!
boot system disk0:/asa821-k8.bin
ftp mode passive
dns server-group DefaultDNS
domain-name cisco.com
access-list wsa-farm extended permit ip host 10.125.33.8 any
access-list proxylist extended deny ip host 10.125.33.8 any
access-list proxylist extended permit tcp 10.0.0.0 255.0.0.0 any eq www
access-list proxylist extended permit tcp 10.0.0.0 255.0.0.0 any eq https

access-list Outbound extended permit tcp 10.0.0.0 255.0.0.0 any eq www
access-list Outbound extended permit tcp 10.0.0.0 255.0.0.0 any eq https
access-list Outbound extended permit icmp 10.0.0.0 255.0.0.0 any echo
access-list Outbound extended permit udp 10.0.0.0 255.0.0.0 host
10.25.34.13 eq domain
access-list Outbound extended permit tcp 10.0.0.0 255.0.0.0 host
10.25.34.12 eq smtp
access-list Outbound extended permit tcp 10.0.0.0 255.0.0.0 host
10.25.34.12 eq pop3
access-list Outbound extended permit tcp 10.0.0.0 255.0.0.0 host
10.25.34.12 eq imap4
access-list Inbound-Routes standard permit host 0.0.0.0
access-list DMZ extended permit udp host 10.25.34.13 any eq domain
access-list DMZ extended permit tcp host 10.25.34.13 any eq domain
access-list DMZ extended permit tcp host 10.25.34.12 any eq smtp
access-list DMZ extended permit tcp host 10.25.34.11 any eq www
access-list DMZ extended permit tcp host 10.25.34.11 any eq https
access-list Inbound extended permit udp any host 198.133.219.13 eq domain

access-list Inbound extended permit tcp any host 198.133.219.13 eq domain

access-list Inbound extended permit tcp any host 198.133.219.11 eq smtp
access-list Inbound extended permit tcp any host 198.133.219.10 eq www
access-list Inbound extended permit tcp any host 198.133.219.10 eq https
pager lines 24
logging enable
logging console critical
```

```
logging buffered debugging
logging asdm informational
mtu outside 1500
mtu management 1500
mtu inside 1500
mtu dmz 1500
no failover
icmp unreachable rate-limit 1 burst-size 1
asdm image disk0:/asdm-507.bin
no asdm history enable
arp timeout 14400
global (outside) 10 interface
nat (inside) 10 10.0.0.0 255.0.0.0
static (inside,outside) 198.133.219.2 10.125.31.2 netmask 255.255.255.255

static (dmz,outside) 198.133.219.10 10.25.34.10 netmask 255.255.255.255
static (dmz,outside) 198.133.219.11 10.25.34.11 netmask 255.255.255.255
static (dmz,outside) 198.133.219.12 10.25.34.12 netmask 255.255.255.255
static (dmz,outside) 198.133.219.13 10.25.34.13 netmask 255.255.255.255
static (inside,dmz) 10.0.0.0 10.0.0.0 netmask 255.0.0.0
access-group Outbound in interface inside
access-group DMZ in interface dmz
access-group Inbound in interface outside
!
route-map Inbound-EIGRP permit 10
  match ip address Inbound-Routes
!
!
router eigrp 100
  no auto-summary
  eigrp stub redistributed
  network 10.125.33.0 255.255.255.0
  passive-interface default
  no passive-interface inside
  redistribute ospf 200 metric 1000000 2000 255 1 1500 route-map
Inbound-EIGRP
!
router ospf 200
  network 198.133.219.0 255.255.255.0 area 100
  area 100 authentication message-digest
  log-adj-changes
!
route management 172.26.0.0 255.255.0.0 172.26.160.1 1
timeout xlate 3:00:00
timeout conn 1:00:00 half-closed 0:10:00 udp 0:02:00 icmp 0:00:02
```

```
timeout sunrpc 0:10:00 h323 0:05:00 h225 1:00:00 mgcp 0:05:00 mgcp-pat
0:05:00
timeout sip 0:30:00 sip_media 0:02:00 sip-invite 0:03:00 sip-disconnect
0:02:00
timeout sip-provisional-media 0:02:00 uauth 0:05:00 absolute
timeout tcp-proxy-reassembly 0:01:00
dynamic-access-policy-record DfltAccessPolicy
aaa-server tacacs-servers protocol tacacs+
aaa-server tacacs-servers (management) host <tacacs+ server>
  key <secret key>
aaa authentication ssh console tacacs-servers LOCAL
aaa authentication serial console tacacs-servers LOCAL
aaa authentication enable console tacacs-servers LOCAL
aaa authentication http console tacacs-servers LOCAL
aaa authorization command tacacs-servers LOCAL
aaa accounting ssh console tacacs-servers
aaa accounting serial console tacacs-servers
aaa accounting command tacacs-servers
aaa accounting enable console tacacs-servers
aaa authorization exec authentication-server
http server enable
http 172.26.0.0 255.255.0.0 management
no snmp-server location
no snmp-server contact
snmp-server enable traps snmp authentication linkup linkdown coldstart
crypto ipsec security-association lifetime seconds 28800
crypto ipsec security-association lifetime kilobytes 4608000
telnet timeout 5
ssh 172.26.0.0 255.255.0.0 management
ssh timeout 5
ssh version 1
console timeout 0
threat-detection basic-threat
threat-detection statistics access-list
no threat-detection statistics tcp-intercept
wccp 10 redirect-list proxylist group-list wsa-farm password cisco
wccp interface inside 10 redirect in
ntp authentication-key 10 md5 *
ntp authenticate
ntp trusted-key 10
ntp server <NTP Server> source management
webvpn
username admin password e1z89R3cZe9Kt6Ib encrypted privilege 15
!
class-map inspection_default
  match default-inspection-traffic
```

```
!  
!  
policy-map type inspect dns migrated_dns_map_1  
  parameters  
    message-length maximum 512  
policy-map global_policy  
  class inspection_default  
    inspect dns migrated_dns_map_1  
    inspect ftp  
    inspect h323 h225  
    inspect h323 ras  
    inspect rsh  
    inspect rtsp  
    inspect esmtp  
    inspect sqlnet  
    inspect skinny  
    inspect sunrpc  
    inspect xdmcp  
    inspect sip  
    inspect netbios  
    inspect tftp  
    inspect icmp  
!  
service-policy global_policy global  
prompt hostname context  
Cryptochecksum:196fd610af2a2ae145f302e32cc50ab1  
: end  
[OK]  
cr26-asa5520-do#
```

PSTN Edge

```
DO-ISR#term len 0  
DO-ISR#sh run  
Building configuration...
```

```
Current configuration : 7860 bytes  
!  
! Last configuration change at 21:32:46 UTC Mon Aug 31 2009 by cisco  
! NVRAM config last updated at 21:15:27 UTC Mon Aug 31 2009 by cisco  
!  
version 12.4  
service timestamps debug datetime msec  
service timestamps log datetime msec
```

```
no service password-encryption  
!  
hostname DO-ISR  
!  
boot-start-marker  
boot-end-marker  
!  
logging buffered 51200 warnings  
!  
no aaa new-model  
network-clock-participate wic 0  
network-clock-participate wic 1  
ip cef  
!  
!  
!  
!  
ip domain name ese.local  
ip name-server 10.33.32.5  
!  
multilink bundle-name authenticated  
!  
isdn switch-type primary-4ess  
voice-card 0  
  no dspfarm  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
voice translation-rule 1  
  rule 1 /^1/ /4445671/  
!  
voice translation-rule 2  
  rule 2 /^2/ /2223452/
```

```
!
!
voice translation-profile to-s1
    translate called 1
!
voice translation-profile to-s2
    translate called 2
!
!
!
crypto pki trustpoint TP-self-signed-1102421159
    enrollment selfsigned
    subject-name cn=IOS-Self-Signed-Certificate-1102421159
    revocation-check none
    rsakeypair TP-self-signed-1102421159
!
!
crypto pki certificate chain TP-self-signed-1102421159
    certificate self-signed 01
        30820248 308201B1 A0030201 02020101 300D0609 2A864886 F70D0101 04050030

        31312F30 2D060355 04031326 494F532D 53656C66 2D536967 6E65642D 43657274

        69666963 6174652D 31313032 34323131 3539301E 170D3039 30343033 32333133

        33315A17 0D323030 31303130 30303030 305A3031 312F302D 06035504 03132649

        4F532D53 656C662D 5369676E 65642D43 65727469 66696361 74652D31 31303234

        32313135 3930819F 300D0609 2A864886 F70D0101 01050003 818D0030 81890281

        8100B92E A977CB6E 985B7AD1 DAC05B57 8E8C35D7 9E6F16AB 84DE64A5 05B3B815

        4067A8A8 72B52E2E 16C0CFEC EE0E564B 1068DC76 F67EA152 7421ADC9 17300C81

        C34282C6 CC622DA1 F4551B71 8E1E0F62 86CB3995 4D265865 74776DE4 C9912ABB

        C2F527B4 17949311 7C8CA645 19EF813D 3B142D33 3305A1FA B7478C1A 6F29F416

        F1D10203 010001A3 70306E30 0F060355 1D130101 FF040530 030101FF 301B0603

        551D1104 14301282 10444F2D 4953522E 6573652E 6C6F6361 6C301F06 03551D23

        04183016 80140003 33E976A8 DCA4D4EA 6112E18F B0EB88A5 7373301D 0603551D

        0E041604 14000333 E976A8DC A4D4EA61 12E18FB0 EB88A573 73300D06 092A8648

        86F70D01 01040500 03818100 8E4406BA 63A6B9A1 19A48B05 DED9791B 797018CF

        A6F177A1 46263C4D 2E6ACA82 2D26071F CA6BC27B 778D19F4 57604A4A C569BEE2

        0AE94456 2EE01342 413C3832 B41F39F3 3F4BC20C 1C07F535 659EB32A 857DE248

        07DC2667 1ADB1090 81CAA2CD 1E423927 838C1106 6131D3DC 4F31DD88 60B6565F

        631965CB 3E3563E6 A9056FC0
quit
!
!
username cisco privilege 15 secret 5 $1$jjeA$UcUyfEOgP0shCRkl.LGWI.
!
!
controller T1 0/0/0
    framing esf
    linecode b8zs
    pri-group timeslots 1-24 service mgcp
!
controller T1 0/0/1
    framing esf
    linecode b8zs
!
controller T1 0/1/0
    framing esf
    linecode b8zs
!
controller T1 0/1/1
    framing esf
    linecode b8zs
!
!
!
!
!
interface Port-channel3
    description port-channel to core stack
    ip address 10.40.94.17 255.255.255.0
    hold-queue 150 in
!
interface GigabitEthernet0/0
    description $ETH-LAN$$ETH-SW-LAUNCH$$INTF-INFO-GE 0/0$
    no ip address
    duplex auto
```



```
speed auto
media-type rj45
no keepalive
channel-group 3
!
interface GigabitEthernet0/1
no ip address
duplex auto
speed auto
media-type rj45
no keepalive
channel-group 3
!
interface FastEthernet0/2/0
!
interface FastEthernet0/2/1
!
interface FastEthernet0/2/2
!
interface FastEthernet0/2/3
!
interface Serial0/0/0:23
description to simulated PSTN
no ip address
encapsulation hdlc
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Integrated-Service-Engine1/0
no ip address
shutdown
no keepalive
!
interface Integrated-Service-Engine2/0
no ip address
shutdown
no keepalive
!
interface Vlan1
no ip address
!
ip route 0.0.0.0 0.0.0.0 Port-channel3
!
!
```

```
ip http server
ip http access-class 23
ip http authentication local
ip http secure-server
ip http timeout-policy idle 60 life 86400 requests 10000
!
access-list 23 permit 10.10.10.0 0.0.0.7
!
!
!
!
!
!
control-plane
!
!
!
voice-port 0/0/0:23
!
ccm-manager fallback-mgcp
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server 10.33.32.22
ccm-manager config
!
mgcp
mgcp call-agent CUCM7-Pub 2427 service-type mgcp version 0.1
mgcp dtmf-relay voip codec all mode out-of-band
mgcp rtp unreachable timeout 1000 action notify
mgcp modem passthrough voip mode nse
mgcp package-capability rtp-package
no mgcp package-capability res-package
mgcp package-capability sst-package
no mgcp package-capability fxr-package
mgcp package-capability pre-package
no mgcp timer receive-rtcp
mgcp sdp simple
mgcp rtp payload-type g726r16 static
mgcp bind control source-interface Port-channel3
mgcp bind media source-interface Port-channel3
!
mgcp profile default
!
!
!
dial-peer voice 1 pots
```

```
service mgcpapp
incoming called-number .
direct-inward-dial
port 0/0/0:23
forward-digits 10
!
dial-peer voice 81222 pots
description SRST
destination-pattern 81222.....
port 0/0/0:23
forward-digits 10
!
dial-peer voice 81333 pots
description SRST
destination-pattern 81333.....
port 0/0/0:23
forward-digits 10
!
dial-peer voice 81444 pots
description SRST
destination-pattern 81444.....
port 0/0/0:23
forward-digits 10
!
dial-peer voice 81555 pots
description SRST
destination-pattern 81555.....
port 0/0/0:23
forward-digits 10
!
dial-peer voice 8456 pots
description SRST site 1 local dialing (PSTN-router num-exp adds area
code)
destination-pattern 8456....
port 0/0/0:23
forward-digits 7
!
dial-peer voice 1000 pots
description srst 4 digits to Site 1
translation-profile outgoing to-s1
destination-pattern 1...
port 0/0/0:23
forward-digits 10
!
dial-peer voice 2000 pots
description srst 4 digits to Site 2
```

```
translation-profile outgoing to-s2
destination-pattern 2...
port 0/0/0:23
forward-digits 10
!
dial-peer voice 8911 pots
description SRST
destination-pattern 8911
port 0/0/0:23
forward-digits 4
!
dial-peer voice 911 pots
description SRST
destination-pattern 911
port 0/0/0:23
forward-digits 3
!
!
!
!
call-manager-fallback
max-conferences 12 gain -6
transfer-system full-consult
ip source-address 10.40.63.9 port 2000
max-ephones 10
max-dn 20
dialplan-pattern 1 33345630.. extension-length 4
!
banner login ^C
```

Cisco Router and Security Device Manager (SDM) is installed on this device.

This feature requires the one-time use of the username "cisco" with the password "cisco". The default username and password have a privilege level of 15.

Please change these publicly known initial credentials using SDM or the IOS CLI.

Here are the Cisco IOS commands.

```
username <myuser> privilege 15 secret 0 <mypassword>
no username cisco
```

Replace <myuser> and <mypassword> with the username and password you want to use.

For more information about SDM please follow the instructions in the
QUICK START

GUIDE for your router or go to <http://www.cisco.com/go/sdm>

```
-----
^C
!
line con 0
  exec-timeout 0 0
  login local
  stopbits 1
line aux 0
  stopbits 1
line 66
  no activation-character
  no exec
  transport preferred none
  transport input all
  transport output lat pad telnet rlogin lapb-ta mop udptn v120 ssh
line 130
  no activation-character
  no exec
  transport preferred none
  transport input all
  transport output lat pad telnet rlogin lapb-ta mop udptn v120 ssh
line vty 0 4
  access-class 23 in
  privilege level 15
  login local
  transport input telnet ssh
line vty 5 15
  access-class 23 in
  privilege level 15
  login local
  transport input telnet ssh
!
scheduler allocate 20000 1000
ntp authentication-key 2 md5 00361A03135407021B 7
ntp authenticate
ntp trusted-key 2
ntp clock-period 17180344
ntp source Port-channel3
ntp max-associations 150
ntp server 10.33.32.16
!
end
```

DO-ISR#

School 1

Access

```
Cr35-2960-SS1
!
! Last configuration change at 13:16:40 EDT Thu Sep 3 2009 by cisco
! NVRAM config last updated at 13:18:08 EDT Thu Sep 3 2009 by cisco
!
version 12.2
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
service password-encryption
!
hostname cr35-2960-SS1
!
boot-start-marker
boot-end-marker
!
enable password 7 070C285F4D06
!
aaa new-model
!
!
aaa authentication login default group radius enable line
aaa authentication dot1x default group radius
!
!
!
aaa session-id common
clock timezone EST -5
clock summer-time EDT recurring
system mtu routing 1500
vtp domain School-Site-1
vtp mode transparent
ip subnet-zero
!
!
ip dhcp snooping vlan 101-110
no ip dhcp snooping information option
ip dhcp snooping
no ip domain-lookup
```

```
ip arp inspection vlan 101-110
ip arp inspection validate src-mac dst-mac ip allow zeros
!
mls qos map cos-dscp 0 8 16 24 32 46 48 56
mls qos srr-queue input bandwidth 70 30
mls qos srr-queue input threshold 1 80 90
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input dscp-map queue 1 threshold 2 24
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28
30 34
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38
mls qos srr-queue output dscp-map queue 2 threshold 2 24
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56
mls qos srr-queue output dscp-map queue 3 threshold 3 0
mls qos srr-queue output dscp-map queue 4 threshold 1 8
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14
mls qos queue-set output 1 threshold 2 80 90 100 100
mls qos queue-set output 1 threshold 4 60 100 100 100
mls qos
!
crypto pki trustpoint HTTPS_SS_CERT_KEYPAIR
  enrollment selfsigned
  serial-number
  revocation-check none
  rsakeypair HTTPS_SS_CERT_KEYPAIR
!
!
crypto pki certificate chain HTTPS_SS_CERT_KEYPAIR
  certificate self-signed 01 nvram:F9154580host#2E2E.cer
!
!
dot1x system-auth-control
dot1x guest-vlan supplicant
!
!
!
errdisable recovery cause udd
errdisable recovery cause bpdguard
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause storm-control
errdisable recovery cause arp-inspection
errdisable recovery interval 120
port-channel load-balance src-dst-ip
```

```
!
spanning-tree mode rapid-pvst
spanning-tree etherchannel guard misconfig
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 2
  name FlashNet_VLAN
!
vlan 101
  name cr2960_Dept1_VLAN
!
vlan 102
  name cr2960_Dept2_VLAN
!
vlan 103
  name cr2960_Dept3_VLAN
!
vlan 104
  name cr2960_Dept4_VLAN
!
vlan 105
  name cr2960_Dept5_VLAN
!
vlan 106
  name cr2960_Dept6_VLAN
!
vlan 107
  name cr2960_Dept7_VLAN
!
vlan 108
  name cr2960_Dept8_VLAN
!
vlan 109
  name cr2960_Dept9_VLAN
!
vlan 110
  name cr2960_Dept10_VLAN
!
vlan 201
  name Guest_VLAN
!
vlan 802
  name Hopping_VLAN
!
```

```
ip ftp username nimishguest
ip ftp password 7 04550F011A245F5A
!
class-map match-all BULK-DATA
  match access-group name BULK-DATA
class-map match-all VVLAN-SIGNALING
  match ip dscp cs3
class-map match-all MULTIMEDIA-CONFERENCING
  match access-group name MULTIMEDIA-CONFERENCING
class-map match-all DEFAULT
  match access-group name DEFAULT
class-map match-all SCAVENGER
  match access-group name SCAVENGER
class-map match-all SIGNALING
  match access-group name SIGNALING
class-map match-all VVLAN-VOIP
  match ip dscp ef
class-map match-all TRANSACTIONAL-DATA
  match access-group name TRANSACTIONAL-DATA
!
!
policy-map Phone-Policy
  class VVLAN-VOIP
    police 1000000 8000 exceed-action drop
    set dscp ef
  class VVLAN-SIGNALING
    police 1000000 8000 exceed-action drop
    set dscp cs3
policy-map UnTrusted-PC-Policy
  class class-default
    police 10000000 8000 exceed-action drop
    set dscp default
policy-map Trusted-PC-Policy
  class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
  class SIGNALING
    set dscp cs3
    police 1000000 8000 exceed-action drop
  class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
  class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
  class SCAVENGER
```

```
  set dscp cs1
  police 10000000 8000 exceed-action drop
class DEFAULT
  set dscp default
  police 10000000 8000 exceed-action policed-dscp-transmit
policy-map Phone+PC-Policy
  class VVLAN-VOIP
    police 1000000 8000 exceed-action drop
    set dscp ef
  class VVLAN-SIGNALING
    police 1000000 8000 exceed-action drop
    set dscp cs3
  class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
  class SIGNALING
    set dscp cs3
    police 1000000 8000 exceed-action drop
  class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
  class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
  class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
  class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
!
!
!
interface Loopback0
  ip address 10.126.100.3 255.255.255.255
  no ip route-cache
!
interface Port-channel1
  description Connected to cr35-4507-SS1
  switchport trunk native vlan 802
  switchport trunk allowed vlan 101-110,201
  switchport mode trunk
  ip arp inspection trust
  load-interval 30
  carrier-delay msec 0
  hold-queue 2000 in
```

```
hold-queue 2000 out
ip dhcp snooping trust
!
interface FastEthernet0/1
description CONNECTED TO UNTRUSTED PC
switchport access vlan 101
switchport mode access
switchport block unicast
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input UnTrusted-PC-Policy
ip verify source
!
interface FastEthernet0/2
description CONNECTED TO TRUSTED-PC
switchport access vlan 102
switchport mode access
switchport block unicast
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Trusted-PC-Policy
ip verify source
!
```

```
interface FastEthernet0/3
description CONNECTED TO PHONE
switchport mode access
switchport block unicast
switchport voice vlan 103
switchport port-security maximum 2
switchport port-security maximum 1 vlan access
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security violation restrict
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
service-policy input Phone-Policy
ip verify source
!
interface FastEthernet0/4
description CONNECTED TO PHONE+PC
switchport access vlan 104
switchport mode access
switchport block unicast
switchport voice vlan 105
switchport port-security maximum 3
switchport port-security maximum 2 vlan access
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
```

```
spanning-tree bpduguard enable
service-policy input Phone+PC-Policy
ip verify source
!
interface FastEthernet0/5
description CONNECTED TO IPVS 2500 - CAMERA
switchport access vlan 106
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/6
description CONNECTED TO IPVS 4500 - CAMERA
switchport access vlan 107
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/7
description CONNECTED TO DIGITAL MEDIA PLAYER
switchport access vlan 108
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
load-interval 30
```

```
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
interface FastEthernet0/10
description Connected to IXIA - ALM - 2/7
switchport trunk native vlan 802
switchport trunk allowed vlan 101-110
switchport mode trunk
switchport nonegotiate
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface FastEthernet0/11
description Connected to IXIA - STX - 4/3
switchport trunk native vlan 802
switchport trunk allowed vlan 101-110
switchport mode trunk
switchport nonegotiate
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
hold-queue 2000 in
```

```
hold-queue 2000 out
ip dhcp snooping trust
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
!
interface FastEthernet0/25
!
interface FastEthernet0/26
!
interface FastEthernet0/27
!
interface FastEthernet0/28
!
interface FastEthernet0/29
!
interface FastEthernet0/30
!
interface FastEthernet0/31
!
interface FastEthernet0/32
!
interface FastEthernet0/33
```

```
!
interface FastEthernet0/34
!
interface FastEthernet0/35
!
interface FastEthernet0/36
!
interface FastEthernet0/37
!
interface FastEthernet0/38
!
interface FastEthernet0/39
!
interface FastEthernet0/40
!
interface FastEthernet0/41
!
interface FastEthernet0/42
!
interface FastEthernet0/43
!
interface FastEthernet0/44
!
interface FastEthernet0/45
!
interface FastEthernet0/46
!
interface FastEthernet0/47
!
interface FastEthernet0/48
switchport access vlan 2
switchport mode access
load-interval 30
!
interface GigabitEthernet0/1
description Connected to cr35-4507-SS1
switchport trunk native vlan 802
switchport trunk allowed vlan 101-110,201
switchport mode trunk
ip arp inspection trust
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
```



```
channel-protocol pagp
channel-group 1 mode desirable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet0/2
description Connected to cr35-4507-SS1
switchport trunk native vlan 802
switchport trunk allowed vlan 101-110,201
switchport mode trunk
ip arp inspection trust
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol pagp
channel-group 1 mode desirable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet0/3
!
interface GigabitEthernet0/4
!
interface Vlan1
no ip address
no ip route-cache
shutdown
!
interface Vlan2
description Connected to FlashNet - DO NOT ROUTE
ip address 172.26.160.192 255.255.254.0
no ip redirects
no ip proxy-arp
no ip route-cache
load-interval 30
!
ip default-gateway 172.26.160.1
no ip http server
no ip http secure-server
!
ip access-list standard Allowed_MCAST_Groups
```

```
permit 224.0.1.39
permit 224.0.1.40
permit 239.192.0.0 0.0.255.255
!
ip access-list extended BULK-DATA
remark FTP
permit tcp any any eq ftp
permit tcp any any eq ftp-data
remark SSH/SFTP
permit tcp any any eq 22
remark SMTP/SECURE SMTP
permit tcp any any eq smtp
permit tcp any any eq 465
remark IMAP/SECURE IMAP
permit tcp any any eq 143
permit tcp any any eq 993
remark POP3/SECURE POP3
permit tcp any any eq pop3
permit tcp any any eq 995
remark CONNECTED PC BACKUP
permit tcp any eq 1914 any
ip access-list extended DEFAULT
remark EXPLICIT CLASS-DEFAULT
permit ip any any
ip access-list extended MULTIMEDIA-CONFERENCING
remark RTP
permit udp any any range 16384 32767
ip access-list extended PERMIT-SOURCES
permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255
ip access-list extended PXE
permit tcp any any established
permit udp any any eq bootps
permit udp any host 10.125.31.11 eq domain
permit udp any host 10.125.31.12 eq tftp
ip access-list extended SCAVENGER
remark KAZAA
permit tcp any any eq 1214
permit udp any any eq 1214
remark MICROSOFT DIRECT X GAMING
permit tcp any any range 2300 2400
permit udp any any range 2300 2400
remark APPLE ITUNES MUSIC SHARING
permit tcp any any eq 3689
permit udp any any eq 3689
remark BITTORRENT
permit tcp any any range 6881 6999
```

```
remark YAHOO GAMES
permit tcp any any eq 11999
remark MSN GAMING ZONE
permit tcp any any range 28800 29100
ip access-list extended SIGNALING
remark SCCP
permit tcp any any range 2000 2002
remark SIP
permit tcp any any range 5060 5061
permit udp any any range 5060 5061
ip access-list extended TRANSACTIONAL-DATA
remark HTTPS
permit tcp any any eq 443
remark ORACLE-SQL*NET
permit tcp any any eq 1521
permit udp any any eq 1521
remark ORACLE
permit tcp any any eq 1526
permit udp any any eq 1526
permit tcp any any eq 1575
permit udp any any eq 1575
permit tcp any any eq 1630
snmp-server community public RO
snmp-server community k12 RW
snmp-server trap-source Loopback0
snmp-server host 172.26.158.251 version 2c k12
radius-server dead-criteria time 15 tries 3
radius-server host 10.125.31.4 auth-port 1645 acct-port 1646 key 7
0822455D0A1649464058
radius-server deadtime 1
!
control-plane
!
alias exec ct config t
alias exec srb sh run | begin
alias exec sri sh run int
alias exec cl clear logg
alias exec rib show ip route
alias exec ec sh etherchannel
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
!
line con 0
  exec-timeout 0 0
```

```
password 7 121A0C041104
line vty 0 4
  exec-timeout 0 0
  password 7 121A0C041104
line vty 5 15
  exec-timeout 0 0
!
ntp clock-period 36029012
ntp server 172.26.160.10
end

Cr35-3560-SS1
!
! Last configuration change at 13:07:51 EDT Thu Sep 3 2009 by cisco
! NVRAM config last updated at 13:07:54 EDT Thu Sep 3 2009 by cisco
!
version 12.2
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
service password-encryption
!
hostname cr35-3560-SS1
!
boot-start-marker
boot-end-marker
!
enable password 7 094F471A1A0A
!
aaa new-model
!
!
aaa authentication login default group radius enable line
aaa authentication dot1x default group radius
!
!
!
aaa session-id common
clock timezone EST -5
clock summer-time EDT recurring
system mtu routing 1500
vtp domain School-Site-1
vtp mode transparent
udld enable
```

```
ip subnet-zero
no ip domain-lookup
!
!
ip dhcp snooping vlan 111-120
no ip dhcp snooping information option
ip dhcp snooping
ip multicast-routing distributed
ip arp inspection vlan 111-120
ip arp inspection validate src-mac dst-mac ip allow zeros
!
mls qos map cos-dscp 0 8 16 24 32 46 48 56
mls qos srr-queue input bandwidth 70 30
mls qos srr-queue input threshold 1 80 90
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input dscp-map queue 1 threshold 2 24
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28
30 34
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38
mls qos srr-queue output dscp-map queue 2 threshold 2 24
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56
mls qos srr-queue output dscp-map queue 3 threshold 3 0
mls qos srr-queue output dscp-map queue 4 threshold 1 8
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14
mls qos queue-set output 1 threshold 2 80 90 100 100
mls qos queue-set output 1 threshold 4 60 100 100 100
mls qos
!
key chain eigrp-key
  key 1
    key-string 7 13061E010803
!
crypto pki trustpoint TP-self-signed-4313216
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-4313216
  revocation-check none
  rsakeypair TP-self-signed-4313216
!
!
crypto pki certificate chain TP-self-signed-4313216
  certificate self-signed 01 nvram:IOS-Self-Sig#3636.cer
dot1x system-auth-control
dot1x guest-vlan supplicant
```

```
!
!
!
errdisable recovery cause udd
errdisable recovery cause bpduguard
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause storm-control
errdisable recovery cause arp-inspection
errdisable recovery interval 120
port-channel load-balance src-dst-ip
!
!
!
spanning-tree mode rapid-pvst
no spanning-tree optimize bpdu transmission
spanning-tree etherchannel guard misconfig
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 111
  name cr35_3560_Dept1
!
vlan 112
  name cr35_3560_Dept2
!
vlan 113
  name cr35_3560_Dept3
!
vlan 114
  name cr35_3560_Dept4
!
vlan 115
  name cr35_3560_Dept5
!
vlan 116
  name cr35_3560_Dept6
!
vlan 117
  name cr35_3560_Dept7
!
vlan 118
  name cr35_3560_Dept8
!
vlan 119
  name cr35_3560_Dept9
```

```
!  
vlan 120  
    name cr35_3560_Dept_10  
!  
vlan 202  
    name Guest_VLAN  
!  
vlan 803  
    name Hopping_VLAN  
!  
ip ftp username nimishguest  
ip ftp password 7 1419160C1901393F  
!  
class-map match-all BULK-DATA  
    match access-group name BULK-DATA  
class-map match-all VVLAN-SIGNALING  
    match ip dscp cs3  
class-map match-all MULTIMEDIA-CONFERENCING  
    match access-group name MULTIMEDIA-CONFERENCING  
class-map match-all DEFAULT  
    match access-group name DEFAULT  
class-map match-all SCAVENGER  
    match access-group name SCAVENGER  
class-map match-all SIGNALING  
    match access-group name SIGNALING  
class-map match-all VVLAN-VOIP  
    match ip dscp ef  
class-map match-all TRANSACTIONAL-DATA  
    match access-group name TRANSACTIONAL-DATA  
!  
!  
policy-map Phone-Policy  
    class VVLAN-VOIP  
        police 128000 8000 exceed-action drop  
        set dscp ef  
    class VVLAN-SIGNALING  
        police 32000 8000 exceed-action drop  
        set dscp cs3  
policy-map UnTrusted-PC-Policy  
    class class-default  
        police 10000000 8000 exceed-action drop  
        set dscp default  
policy-map Trusted-PC-Policy  
    class MULTIMEDIA-CONFERENCING  
        set dscp af41  
        police 5000000 8000 exceed-action drop
```

```
class SIGNALING  
    set dscp cs3  
    police 32000 8000 exceed-action drop  
class TRANSACTIONAL-DATA  
    set dscp af21  
    police 10000000 8000 exceed-action policed-dscp-transmit  
class BULK-DATA  
    set dscp af11  
    police 10000000 8000 exceed-action policed-dscp-transmit  
class SCAVENGER  
    set dscp cs1  
    police 10000000 8000 exceed-action drop  
class DEFAULT  
    set dscp default  
    police 10000000 8000 exceed-action policed-dscp-transmit  
policy-map Phone+PC-Policy  
    class VVLAN-VOIP  
        police 128000 8000 exceed-action drop  
        set dscp ef  
    class VVLAN-SIGNALING  
        police 32000 8000 exceed-action drop  
        set dscp cs3  
    class MULTIMEDIA-CONFERENCING  
        set dscp af41  
        police 5000000 8000 exceed-action drop  
    class SIGNALING  
        set dscp cs3  
        police 1000000 8000 exceed-action drop  
    class TRANSACTIONAL-DATA  
        set dscp af21  
        police 10000000 8000 exceed-action policed-dscp-transmit  
    class BULK-DATA  
        set dscp af11  
        police 10000000 8000 exceed-action policed-dscp-transmit  
    class SCAVENGER  
        set dscp cs1  
        police 10000000 8000 exceed-action drop  
    class DEFAULT  
        set dscp default  
        police 10000000 8000 exceed-action policed-dscp-transmit  
!  
!  
!  
!  
interface Loopback0  
    ip address 10.125.100.4 255.255.255.255
```

```
!  
interface Port-channel1  
  description Connected to cr35-4507-SS1  
  switchport trunk encapsulation dot1q  
  switchport trunk native vlan 803  
  switchport trunk allowed vlan 111-120  
  switchport mode trunk  
  ip arp inspection trust  
  load-interval 30  
  carrier-delay msec 0  
  hold-queue 2000 in  
  hold-queue 2000 out  
  ip dhcp snooping trust  
!  
interface FastEthernet0/1  
  description CONNECTED TO UNTRUSTED PC  
  switchport access vlan 111  
  switchport mode access  
  switchport block unicast  
  switchport port-security  
  switchport port-security aging time 5  
  switchport port-security violation restrict  
  switchport port-security aging type inactivity  
  ip arp inspection limit rate 100  
  srr-queue bandwidth share 1 30 35 5  
  priority-queue out  
  no mdix auto  
  storm-control broadcast level pps 1k  
  storm-control multicast level pps 2k  
  storm-control action trap  
  spanning-tree portfast  
  spanning-tree bpduguard enable  
  service-policy input UnTrusted-PC-Policy  
  ip verify source  
!  
interface FastEthernet0/2  
  description CONNECTED TO TRUSTED-PC  
  switchport access vlan 112  
  switchport mode access  
  switchport block unicast  
  switchport port-security  
  switchport port-security aging time 5  
  switchport port-security violation restrict  
  switchport port-security aging type inactivity  
  ip arp inspection limit rate 100  
  srr-queue bandwidth share 1 30 35 5
```

```
  priority-queue out  
  mls qos trust dscp  
  no mdix auto  
  storm-control broadcast level pps 1k  
  storm-control multicast level pps 2k  
  storm-control action trap  
  spanning-tree portfast  
  spanning-tree bpduguard enable  
  service-policy input Trusted-PC-Policy  
  ip verify source  
!  
interface FastEthernet0/3  
  description CONNECTED TO PHONE  
  switchport mode access  
  switchport block unicast  
  switchport voice vlan 113  
  switchport port-security maximum 2  
  switchport port-security maximum 1 vlan access  
  switchport port-security maximum 1 vlan voice  
  switchport port-security  
  switchport port-security violation restrict  
  ip arp inspection limit rate 100  
  srr-queue bandwidth share 1 30 35 5  
  priority-queue out  
  mls qos trust device cisco-phone  
  mls qos trust dscp  
  no mdix auto  
  storm-control broadcast level pps 1k  
  storm-control multicast level pps 2k  
  storm-control action trap  
  spanning-tree portfast  
  service-policy input Phone-Policy  
  ip verify source  
!  
interface FastEthernet0/4  
  description CONNECTED TO PHONE+PC  
  switchport access vlan 113  
  switchport mode access  
  switchport block unicast  
  switchport voice vlan 114  
  switchport port-security maximum 3  
  switchport port-security maximum 2 vlan access  
  switchport port-security maximum 1 vlan voice  
  switchport port-security  
  switchport port-security aging time 5  
  switchport port-security violation restrict
```

```
switchport port-security aging type inactivity
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
no mdix auto
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Phone+PC-Policy
ip verify source
!
interface FastEthernet0/5
description CONNECTED TO IPVS 2500 - CAMERA
switchport access vlan 115
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no mdix auto
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/6
description CONNECTED TO IPVS 4500 - CAMERA
switchport access vlan 116
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no mdix auto
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
```

```
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/7
description CONNECTED TO DIGITAL MEDIA PLAYER
switchport access vlan 117
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no mdix auto
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/8
no mdix auto
!
interface FastEthernet0/9
no mdix auto
!
interface FastEthernet0/10
description Connected to IXIA - ALM - 2/8
switchport trunk encapsulation dot1q
switchport trunk native vlan 202
switchport trunk allowed vlan 111-120
switchport mode trunk
switchport nonegotiate
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no mdix auto
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
```

```
interface FastEthernet0/11
  description Connected to IXIA - STX - 4/4
  switchport trunk encapsulation dot1q
  switchport trunk native vlan 202
  switchport trunk allowed vlan 111-120
  switchport mode trunk
  switchport nonegotiate
  ip arp inspection trust
  load-interval 30
  srr-queue bandwidth share 1 30 35 5
  priority-queue out
  mls qos trust dscp
  no mdix auto
  no cdp enable
  spanning-tree portfast trunk
  spanning-tree bpduguard enable
  hold-queue 2000 in
  hold-queue 2000 out
  ip dhcp snooping trust
!
interface FastEthernet0/12
  no mdix auto
!
interface FastEthernet0/13
  no mdix auto
!
interface FastEthernet0/14
  no mdix auto
!
interface FastEthernet0/15
  no mdix auto
!
interface FastEthernet0/16
  no mdix auto
!
interface FastEthernet0/17
  no mdix auto
!
interface FastEthernet0/18
  no mdix auto
!
interface FastEthernet0/19
  no mdix auto
!
interface FastEthernet0/20
```

```
!
interface FastEthernet0/21
  no mdix auto
!
interface FastEthernet0/22
  no mdix auto
!
interface FastEthernet0/23
  no mdix auto
!
interface FastEthernet0/24
  no mdix auto
!
interface FastEthernet0/25
  no mdix auto
!
interface FastEthernet0/26
  no mdix auto
!
interface FastEthernet0/27
  no mdix auto
!
interface FastEthernet0/28
  no mdix auto
!
interface FastEthernet0/29
  no mdix auto
!
interface FastEthernet0/30
  no mdix auto
!
interface FastEthernet0/31
  no mdix auto
!
interface FastEthernet0/32
  no mdix auto
!
interface FastEthernet0/33
  no mdix auto
!
interface FastEthernet0/34
  no mdix auto
!
interface FastEthernet0/35
  no mdix auto
!
```

```
interface FastEthernet0/36
  no mdix auto
!
interface FastEthernet0/37
  no mdix auto
!
interface FastEthernet0/38
  no mdix auto
!
interface FastEthernet0/39
  no mdix auto
!
interface FastEthernet0/40
  no mdix auto
!
interface FastEthernet0/41
  no mdix auto
!
interface FastEthernet0/42
  no mdix auto
!
interface FastEthernet0/43
  no mdix auto
!
interface FastEthernet0/44
  no mdix auto
!
interface FastEthernet0/45
  no mdix auto
!
interface FastEthernet0/46
  no mdix auto
!
interface FastEthernet0/47
  no mdix auto
!
interface FastEthernet0/48
  description Connected to FlashNet
  no switchport
  ip address 172.26.160.193 255.255.254.0
  no ip redirects
  no ip proxy-arp
  no ip route-cache
  no mdix auto
!
interface GigabitEthernet0/1
```

```
  description Connected to cr35-4507-SS1
  switchport trunk encapsulation dot1q
  switchport trunk native vlan 803
  switchport trunk allowed vlan 111-120
  switchport mode trunk
  ip arp inspection trust
  load-interval 30
  carrier-delay msec 0
  srr-queue bandwidth share 1 30 35 5
  priority-queue out
  uddld port
  mls qos trust dscp
  channel-protocol pagp
  channel-group 1 mode desirable
  hold-queue 2000 in
  hold-queue 2000 out
  ip dhcp snooping trust
!
interface GigabitEthernet0/2
  description Connected to cr35-4507-SS1
  switchport trunk encapsulation dot1q
  switchport trunk native vlan 803
  switchport trunk allowed vlan 111-120
  switchport mode trunk
  ip arp inspection trust
  load-interval 30
  carrier-delay msec 0
  srr-queue bandwidth share 1 30 35 5
  priority-queue out
  uddld port
  mls qos trust dscp
  channel-protocol pagp
  channel-group 1 mode desirable
  hold-queue 2000 in
  hold-queue 2000 out
  ip dhcp snooping trust
!
interface GigabitEthernet0/3
!
interface GigabitEthernet0/4
!
interface Vlan1
  no ip address
  no ip route-cache
  shutdown
!
```



```
ip classless
no ip http server
no ip http secure-server
ip pim rp-address 10.125.100.100 Allowed_MCAST_Groups override
ip pim spt-threshold infinity
ip pim accept-register list PERMIT-SOURCES
!
!
ip access-list standard Allowed_MCAST_Groups
  permit 224.0.1.39
  permit 224.0.1.40
  permit 239.192.0.0 0.0.255.255
!
ip access-list extended BULK-DATA
  remark FTP
  permit tcp any any eq ftp
  permit tcp any any eq ftp-data
  remark SSH/SFTP
  permit tcp any any eq 22
  remark SMTP/SECURE SMTP
  permit tcp any any eq smtp
  permit tcp any any eq 465
  remark IMAP/SECURE IMAP
  permit tcp any any eq 143
  permit tcp any any eq 993
  remark POP3/SECURE POP3
  permit tcp any any eq pop3
  permit tcp any any eq 995
  remark CONNECTED PC BACKUP
  permit tcp any eq 1914 any
ip access-list extended DEFAULT
  remark EXPLICIT CLASS-DEFAULT
  permit ip any any
ip access-list extended MULTIMEDIA-CONFERENCING
  remark RTP
  permit udp any any range 16384 32767
ip access-list extended PERMIT-SOURCES
  permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255
ip access-list extended PXE
  permit tcp any any established
  permit udp any any eq bootps
  permit udp any host 10.125.31.11 eq domain
  permit udp any host 10.125.31.12 eq tftp
ip access-list extended SCAVENGER
  remark KAZAA
  permit tcp any any eq 1214
```

```
permit udp any any eq 1214
remark MICROSOFT DIRECT X GAMING
permit tcp any any range 2300 2400
permit udp any any range 2300 2400
remark APPLE ITUNES MUSIC SHARING
permit tcp any any eq 3689
permit udp any any eq 3689
remark BITTORRENT
permit tcp any any range 6881 6999
remark YAHOO GAMES
permit tcp any any eq 11999
remark MSN GAMING ZONE
permit tcp any any range 28800 29100
ip access-list extended SIGNALING
  remark SCCP
  permit tcp any any range 2000 2002
  remark SIP
  permit tcp any any range 5060 5061
  permit udp any any range 5060 5061
ip access-list extended TRANSACTIONAL-DATA
  remark HTTPS
  permit tcp any any eq 443
  remark ORACLE-SQL*NET
  permit tcp any any eq 1521
  permit udp any any eq 1521
  remark ORACLE
  permit tcp any any eq 1526
  permit udp any any eq 1526
  permit tcp any any eq 1575
  permit udp any any eq 1575
  permit tcp any any eq 1630
!
!
!
snmp-server community public RO
snmp-server community k12 RW
snmp-server trap-source Loopback0
snmp-server host 172.26.158.251 version 2c k12
radius-server dead-criteria time 15 tries 3
radius-server host 10.125.31.4 auth-port 1645 acct-port 1646 key 7
0822455D0A1649464058
radius-server deadtime 1
!
control-plane
!
alias exec ct config t
```

```
alias exec srb sh run | begin
alias exec sri sh run int
alias exec cl clear logg
alias exec rib show ip route
alias exec ec sh etherchannel
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
!
line con 0
  exec-timeout 0 0
  password 7 121A0C041104
line vty 0 4
  exec-timeout 0 0
  password 7 121A0C041104
line vty 5 15
  exec-timeout 0 0
!
ntp clock-period 36029222
ntp server 172.26.160.10
end
```

Cr35-3750-SS1

```
!
! Last configuration change at 13:07:51 EDT Thu Sep 3 2009 by cisco
! NVRAM config last updated at 13:07:53 EDT Thu Sep 3 2009 by cisco
!
version 12.2
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
service password-encryption
!
hostname cr35-3750-SS1
!
boot-start-marker
boot-end-marker
!
logging buffered 16000
no logging console
enable secret 5 $1$vE3p$UNuh7kbqn0zV3HU1uc/cG0
enable password 7 13061E010803
!
aaa new-model
```

```
!
!
aaa authentication login default group radius enable line
aaa authentication dot1x default group radius
!
!
!
aaa session-id common
clock timezone EST -5
clock summer-time EDT recurring
switch 1 provision ws-c3750g-12s
system mtu routing 1500
vtp domain School-Site-1
vtp mode transparent
ip subnet-zero
no ip domain-lookup
!
!
ip dhcp snooping vlan 121-130,203
no ip dhcp snooping information option
ip dhcp snooping
ip multicast-routing distributed
ip arp inspection vlan 121-130,203
ip arp inspection validate src-mac dst-mac ip allow zeros
!
mls qos map cos-dscp 0 8 16 24 32 46 48 56
mls qos srr-queue input bandwidth 70 30
mls qos srr-queue input threshold 1 80 90
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input dscp-map queue 1 threshold 2 24
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28
30 34
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38
mls qos srr-queue output dscp-map queue 2 threshold 2 24
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56
mls qos srr-queue output dscp-map queue 3 threshold 3 0
mls qos srr-queue output dscp-map queue 4 threshold 1 8
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14
mls qos queue-set output 1 threshold 2 80 90 100 100
mls qos queue-set output 1 threshold 4 60 100 100 100
mls qos
!
crypto pki trustpoint TP-self-signed-721634816
```

```
enrollment selfsigned
subject-name cn=IOS-Self-Signed-Certificate-721634816
revocation-check none
rsakeypair TP-self-signed-721634816
!
!
crypto pki certificate chain TP-self-signed-721634816
  certificate self-signed 01 nvram:IOS-Self-Sig#3636.cer
dot1x system-auth-control
dot1x guest-vlan supplicant
!
!
!
errdisable recovery cause udd
errdisable recovery cause bpduguard
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause storm-control
errdisable recovery cause arp-inspection
errdisable recovery interval 120
port-channel load-balance src-dst-ip
!
!
!
spanning-tree mode rapid-pvst
spanning-tree etherchannel guard misconfig
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 121
  name cr36_3750_Dept1
!
vlan 122
  name cr36_3750_Dept2
!
vlan 123
  name cr36_3750_Dept3
!
vlan 124
  name cr36_3750_Dept4
!
vlan 125
  name cr36_3750_Dept5
!
vlan 126
  name cr36_3750_Dept6
```

```
!
vlan 127
  name cr36_3750_Dept7
!
vlan 128
  name cr36_3750_Dept8
!
vlan 129
  name cr36_3750_Dept9
!
vlan 130
  name cr36_3750_Dept10
!
vlan 203
  name Guest_VLAN
!
vlan 804
  name Hopping_VLAN
!
ip ftp username nimishguest
ip ftp password 7 151C0F0B112F3830
!
class-map match-all BULK-DATA
  match access-group name BULK-DATA
class-map match-all VVLAN-SIGNALING
  match ip dscp cs3
class-map match-all MULTIMEDIA-CONFERENCING
  match access-group name MULTIMEDIA-CONFERENCING
class-map match-all DEFAULT
  match access-group name DEFAULT
class-map match-all SCAVENGER
  match access-group name SCAVENGER
class-map match-all SIGNALING
  match access-group name SIGNALING
class-map match-all VVLAN-VOIP
  match ip dscp ef
class-map match-all TRANSACTIONAL-DATA
  match access-group name TRANSACTIONAL-DATA
!
!
policy-map Phone-Policy
  class VVLAN-VOIP
    police 128000 8000 exceed-action drop
    set dscp ef
  class VVLAN-SIGNALING
    police 32000 8000 exceed-action drop
```

```
    set dscp cs3
policy-map UnTrusted-PC-Policy
  class class-default
    police 10000000 8000 exceed-action drop
    set dscp default
policy-map Trusted-PC-Policy
  class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
  class SIGNALING
    set dscp cs3
    police 32000 8000 exceed-action drop
  class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
  class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
  class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
  class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
policy-map Phone+PC-Policy
  class VVLAN-VOIP
    police 128000 8000 exceed-action drop
    set dscp ef
  class VVLAN-SIGNALING
    police 32000 8000 exceed-action drop
    set dscp cs3
  class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
  class SIGNALING
    set dscp cs3
    police 1000000 8000 exceed-action drop
  class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
  class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
  class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
```

```
class DEFAULT
  set dscp default
  police 10000000 8000 exceed-action policed-dscp-transmit
!
!
!
!
interface Loopback0
  ip address 10.126.100.5 255.255.255.255
!
interface Port-channel1
  description Connected to cr35-4507-SS1
  switchport trunk encapsulation dot1q
  switchport trunk native vlan 804
  switchport trunk allowed vlan 121-130
  switchport mode trunk
  ip arp inspection trust
  load-interval 30
  carrier-delay msec 0
  hold-queue 2000 in
  hold-queue 2000 out
  ip dhcp snooping trust
!
interface GigabitEthernet1/0/1
  description CONNECTED TO UNTRUSTED PC
  switchport access vlan 121
  switchport mode access
  switchport block unicast
  switchport port-security
  switchport port-security aging time 5
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  srr-queue bandwidth share 1 30 35 5
  priority-queue out
  storm-control broadcast level pps 1k
  storm-control multicast level pps 2k
  storm-control action trap
  spanning-tree portfast
  spanning-tree bpduguard enable
  service-policy input UnTrusted-PC-Policy
  ip verify source
!
interface GigabitEthernet1/0/2
  description CONNECTED TO TRUSTED-PC
  switchport access vlan 122
```

```
switchport mode access
switchport block unicast
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Trusted-PC-Policy
ip verify source
!
interface GigabitEthernet1/0/3
description CONNECTED TO PHONE
switchport mode access
switchport block unicast
switchport voice vlan 123
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security violation restrict
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
service-policy input Phone-Policy
ip verify source
!
interface GigabitEthernet1/0/4
description CONNECTED TO PHONE+PC
switchport access vlan 124
switchport mode access
switchport block unicast
switchport voice vlan 125
switchport port-security maximum 3
switchport port-security maximum 2 vlan access
```

```
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Phone+PC-Policy
ip verify source
!
interface GigabitEthernet1/0/5
description CONNECTED TO IPVS 2500 - CAMERA
switchport access vlan 126
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet1/0/6
description CONNECTED TO IPVS 4500 - CAMERA
switchport access vlan 127
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
```

```
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet1/0/7
description CONNECTED TO DIGITAL MEDIA PLAYER
switchport access vlan 128
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet1/0/8
description Connected to FlashNet
no switchport
ip address 172.26.160.194 255.255.254.0
no ip redirects
no ip proxy-arp
!
interface GigabitEthernet1/0/9
description Connected to cr35-4507-SS1
switchport trunk encapsulation dot1q
switchport trunk native vlan 804
switchport trunk allowed vlan 121-130
switchport mode trunk
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol pagp
channel-group 1 mode desirable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet1/0/10
```

```
description Connected to IXIA - ALM - 5/1
switchport trunk encapsulation dot1q
switchport trunk native vlan 204
switchport trunk allowed vlan 121-130
switchport mode trunk
switchport nonegotiate
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no mdix auto
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet1/0/11
description Connected to IXIA - STX - 6/1
switchport trunk encapsulation dot1q
switchport trunk native vlan 204
switchport trunk allowed vlan 121-130
switchport mode trunk
switchport nonegotiate
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no mdix auto
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet1/0/12
description Connected to cr35-4507-SS1
switchport trunk encapsulation dot1q
switchport trunk native vlan 804
switchport trunk allowed vlan 121-130
switchport mode trunk
ip arp inspection trust
```

```
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol pagp
channel-group 1 mode desirable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface Vlan1
 ip address dhcp
 shutdown
!
ip classless
ip route 172.26.158.0 255.255.255.0 172.26.160.1
no ip http server
no ip http secure-server
ip pim rp-address 10.125.100.100 Allowed_MCAST_Groups override
ip pim spt-threshold infinity
ip pim accept-register list PERMIT-SOURCES
!
!
ip access-list standard Allowed_MCAST_Groups
 permit 224.0.1.39
 permit 224.0.1.40
 permit 239.192.0.0 0.0.255.255
!
ip access-list extended BULK-DATA
 remark FTP
 permit tcp any any eq ftp
 permit tcp any any eq ftp-data
 remark SSH/SFTP
 permit tcp any any eq 22
 remark SMTP/SECURE SMTP
 permit tcp any any eq smtp
 permit tcp any any eq 465
 remark IMAP/SECURE IMAP
 permit tcp any any eq 143
 permit tcp any any eq 993
 remark POP3/SECURE POP3
 permit tcp any any eq pop3
 permit tcp any any eq 995
 remark CONNECTED PC BACKUP
 permit tcp any eq 1914 any
```

```
ip access-list extended DEFAULT
 remark EXPLICIT CLASS-DEFAULT
 permit ip any any
ip access-list extended MULTIMEDIA-CONFERENCING
 remark RTP
 permit udp any any range 16384 32767
ip access-list extended PERMIT-SOURCES
 permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255
ip access-list extended PXE
 permit tcp any any established
 permit udp any any eq bootps
 permit udp any host 10.125.31.11 eq domain
 permit udp any host 10.125.31.12 eq tftp
ip access-list extended SCAVENGER
 remark KAZAA
 permit tcp any any eq 1214
 permit udp any any eq 1214
 remark MICROSOFT DIRECT X GAMING
 permit tcp any any range 2300 2400
 permit udp any any range 2300 2400
 remark APPLE ITUNES MUSIC SHARING
 permit tcp any any eq 3689
 permit udp any any eq 3689
 remark BITTORRENT
 permit tcp any any range 6881 6999
 remark YAHOO GAMES
 permit tcp any any eq 11999
 remark MSN GAMING ZONE
 permit tcp any any range 28800 29100
ip access-list extended SIGNALING
 remark SCCP
 permit tcp any any range 2000 2002
 remark SIP
 permit tcp any any range 5060 5061
 permit udp any any range 5060 5061
ip access-list extended TRANSACTIONAL-DATA
 remark HTTPS
 permit tcp any any eq 443
 remark ORACLE-SQL*NET
 permit tcp any any eq 1521
 permit udp any any eq 1521
 remark ORACLE
 permit tcp any any eq 1526
 permit udp any any eq 1526
 permit tcp any any eq 1575
 permit udp any any eq 1575
```

```
permit tcp any any eq 1630
!
!
snmp-server community public RO
snmp-server community k12 RW
snmp-server trap-source Loopback0
snmp-server host 172.26.158.251 version 2c k12
radius-server dead-criteria time 15 tries 3
radius-server host 10.125.31.4 auth-port 1645 acct-port 1646 key 7
1511021F072567757A60
radius-server deadtime 1
!
control-plane
!
alias exec ct config t
alias exec srb sh run | begin
alias exec sri sh run int
alias exec cl clear logg
alias exec rib show ip route
alias exec ec sh etherchannel
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
!
line con 0
  exec-timeout 0 0
  password 7 121A0C041104
line vty 0 4
  exec-timeout 0 0
  password 7 121A0C041104
line vty 5 15
  exec-timeout 0 0
!
ntp clock-period 36029518
ntp server 172.26.160.10
end

Cr35-3750r-SS1
!
! Last configuration change at 13:07:51 EDT Thu Sep 3 2009 by cisco
! NVRAM config last updated at 13:07:55 EDT Thu Sep 3 2009 by cisco
!
version 12.2
no service pad
```

```
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
service password-encryption
!
hostname cr35-3750r-SS1
!
boot-start-marker
boot-end-marker
!
enable password 7 0822455D0A16
!
aaa new-model
!
!
aaa authentication login default group radius enable line
aaa authentication dot1x default group radius
!
!
!
aaa session-id common
clock timezone EST -5
clock summer-time EDT recurring
switch 1 provision ws-c3750-48p
switch 2 provision ws-c3750g-48ps
stack-mac persistent timer 0
system mtu routing 1500
vtp domain School-Site-1
vtp mode transparent
ip subnet-zero
ip routing
no ip domain-lookup
!
!
ip dhcp snooping vlan 11-20
no ip dhcp snooping information option
ip dhcp snooping
ip multicast-routing distributed
ip arp inspection vlan 11-20
ip arp inspection validate src-mac dst-mac ip allow zeros
!
mls qos map cos-dscp 0 8 16 24 32 46 48 56
mls qos srr-queue input bandwidth 70 30
mls qos srr-queue input threshold 1 80 90
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input dscp-map queue 1 threshold 2 24
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56
```



```
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28
30 34
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38
mls qos srr-queue output dscp-map queue 2 threshold 2 24
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56
mls qos srr-queue output dscp-map queue 3 threshold 3 0
mls qos srr-queue output dscp-map queue 4 threshold 1 8
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14
mls qos queue-set output 1 threshold 2 80 90 100 100
mls qos queue-set output 1 threshold 4 60 100 100 100
mls qos
!
key chain eigrp-key
  key 1
    key-string 7 104D000A0618
!
crypto pki trustpoint TP-self-signed-1654402816
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-1654402816
  revocation-check none
  rsakeypair TP-self-signed-1654402816
!
!
crypto pki certificate chain TP-self-signed-1654402816
  certificate self-signed 01 nvram:IOS-Self-Sig#3636.cer
dot1x system-auth-control
dot1x guest-vlan supplicant
!
!
!
errdisable recovery cause udd
errdisable recovery cause bpdguard
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause storm-control
errdisable recovery cause arp-inspection
errdisable recovery interval 120
port-channel load-balance src-dst-ip
!
!
!
spanning-tree mode rapid-pvst
spanning-tree etherchannel guard misconfig
spanning-tree extend system-id
!
```

```
vlan internal allocation policy ascending
!
vlan 2
  name FlashNet_VLAN
!
vlan 11,13-20
!
vlan 204
  name Guest_VLAN
!
ip ftp username nimishguest
ip ftp password 7 000A1701115E1812
!
class-map match-all BULK-DATA
  match access-group name BULK-DATA
class-map match-all VVLAN-SIGNALING
  match ip dscp cs3
class-map match-all MULTIMEDIA-CONFERENCING
  match access-group name MULTIMEDIA-CONFERENCING
class-map match-all DEFAULT
  match access-group name DEFAULT
class-map match-all SCAVENGER
  match access-group name SCAVENGER
class-map match-all SIGNALING
  match access-group name SIGNALING
class-map match-all VVLAN-VOIP
  match ip dscp ef
class-map match-all TRANSACTIONAL-DATA
  match access-group name TRANSACTIONAL-DATA
!
!
policy-map Phone-Policy
  class VVLAN-VOIP
    police 128000 8000 exceed-action drop
    set dscp ef
  class VVLAN-SIGNALING
    police 32000 8000 exceed-action drop
    set dscp cs3
policy-map UnTrusted-PC-Policy
  class class-default
    police 10000000 8000 exceed-action drop
    set dscp default
policy-map Trusted-PC-Policy
  class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
```

```
class SIGNALING
  set dscp cs3
  police 32000 8000 exceed-action drop
class TRANSACTIONAL-DATA
  set dscp af21
  police 10000000 8000 exceed-action policed-dscp-transmit
class BULK-DATA
  set dscp af11
  police 10000000 8000 exceed-action policed-dscp-transmit
class SCAVENGER
  set dscp cs1
  police 10000000 8000 exceed-action drop
class DEFAULT
  set dscp default
  police 10000000 8000 exceed-action policed-dscp-transmit
policy-map Phone+PC-Policy
class VVLAN-VOIP
  police 128000 8000 exceed-action drop
  set dscp ef
class VVLAN-SIGNALING
  police 32000 8000 exceed-action drop
  set dscp cs3
class MULTIMEDIA-CONFERENCING
  set dscp af41
  police 5000000 8000 exceed-action drop
class SIGNALING
  set dscp cs3
  police 1000000 8000 exceed-action drop
class TRANSACTIONAL-DATA
  set dscp af21
  police 10000000 8000 exceed-action policed-dscp-transmit
class BULK-DATA
  set dscp af11
  police 10000000 8000 exceed-action policed-dscp-transmit
class SCAVENGER
  set dscp cs1
  police 10000000 8000 exceed-action drop
class DEFAULT
  set dscp default
  police 10000000 8000 exceed-action policed-dscp-transmit
!
!
!
!
interface Loopback0
  ip address 10.126.100.6 255.255.255.255
```

```
!
interface Port-channel1
  description Connected to cr35-4507-SS1
  no switchport
  dampening
  ip address 10.127.7.194 255.255.255.192
  ip pim sparse-mode
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  load-interval 30
  carrier-delay msec 0
  hold-queue 2000 in
  hold-queue 2000 out
!
interface FastEthernet1/0/1
  description CONNECTED TO UNTRUSTED PC
  switchport access vlan 11
  switchport mode access
  switchport block unicast
  switchport port-security
  switchport port-security aging time 5
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  srr-queue bandwidth share 1 30 35 5
  priority-queue out
  storm-control broadcast level pps 1k
  storm-control multicast level pps 2k
  storm-control action trap
  spanning-tree portfast
  spanning-tree bpduguard enable
  service-policy input UnTrusted-PC-Policy
  ip verify source
!
interface FastEthernet1/0/2
  description CONNECTED TO TRUSTED-PC
  switchport access vlan 12
  switchport mode access
  switchport block unicast
  switchport port-security
  switchport port-security aging time 5
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  srr-queue bandwidth share 1 30 35 5
  priority-queue out
```

```
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Trusted-PC-Policy
ip verify source
!
interface FastEthernet1/0/3
description CONNECTED TO PHONE
switchport access vlan 14
switchport mode access
switchport block unicast
switchport voice vlan 13
switchport port-security maximum 3
switchport port-security maximum 1 vlan
switchport port-security maximum 2 vlan access
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Phone-Policy
ip verify source
!
interface FastEthernet1/0/4
!
interface FastEthernet1/0/5
!
interface FastEthernet1/0/6
!
interface FastEthernet1/0/7
!
interface FastEthernet1/0/8
!
```

```
interface FastEthernet1/0/9
!
interface FastEthernet1/0/10
!
interface FastEthernet1/0/11
!
interface FastEthernet1/0/12
!
interface FastEthernet1/0/13
!
interface FastEthernet1/0/14
!
interface FastEthernet1/0/15
!
interface FastEthernet1/0/16
!
interface FastEthernet1/0/17
!
interface FastEthernet1/0/18
!
interface FastEthernet1/0/19
!
interface FastEthernet1/0/20
!
interface FastEthernet1/0/21
!
interface FastEthernet1/0/22
!
interface FastEthernet1/0/23
!
interface FastEthernet1/0/24
!
interface FastEthernet1/0/25
!
interface FastEthernet1/0/26
!
interface FastEthernet1/0/27
!
interface FastEthernet1/0/28
!
interface FastEthernet1/0/29
!
interface FastEthernet1/0/30
!
interface FastEthernet1/0/31
!
```

```
interface FastEthernet1/0/32
!
interface FastEthernet1/0/33
!
interface FastEthernet1/0/34
!
interface FastEthernet1/0/35
!
interface FastEthernet1/0/36
!
interface FastEthernet1/0/37
!
interface FastEthernet1/0/38
!
interface FastEthernet1/0/39
!
interface FastEthernet1/0/40
!
interface FastEthernet1/0/41
!
interface FastEthernet1/0/42
!
interface FastEthernet1/0/43
!
interface FastEthernet1/0/44
!
interface FastEthernet1/0/45
!
interface FastEthernet1/0/46
!
interface FastEthernet1/0/47
!
interface FastEthernet1/0/48
description FlashNet - DO NOT ROUTE
switchport access vlan 2
load-interval 30
!
interface GigabitEthernet1/0/1
description Connected to cr35-4507-SS1
no switchport
no ip address
logging event bundle-status
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
```

```
udld port
mls qos trust dscp
channel-protocol lacp
channel-group 1 mode active
!
interface GigabitEthernet1/0/2
!
interface GigabitEthernet1/0/3
!
interface GigabitEthernet1/0/4
!
interface GigabitEthernet2/0/1
description CONNECTED TO IPVS 2500 - CAMERA
switchport access vlan 16
switchport mode access
switchport block unicast
switchport voice vlan 15
switchport port-security maximum 3
switchport port-security maximum 2 vlan access
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Phone+PC-Policy
ip verify source
!
interface GigabitEthernet2/0/2
description CONNECTED TO IPVS 4500 - CAMERA
switchport access vlan 17
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
```

```
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet2/0/3
description CONNECTED TO DIGITAL MEDIA PLAYER
switchport access vlan 18
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet2/0/4
!
interface GigabitEthernet2/0/5
!
interface GigabitEthernet2/0/6
!
interface GigabitEthernet2/0/7
!
interface GigabitEthernet2/0/8
!
interface GigabitEthernet2/0/9
!
interface GigabitEthernet2/0/10
description Connected to IXIA - ALM - 5/2
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 11-20
switchport mode trunk
switchport nonegotiate
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
```

```
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
spanning-tree bpduguard enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet2/0/11
description Connected to IXIA - STX - 6/2
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 11-20
switchport mode trunk
switchport nonegotiate
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
spanning-tree bpduguard enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet2/0/12
!
interface GigabitEthernet2/0/13
!
interface GigabitEthernet2/0/14
!
interface GigabitEthernet2/0/15
!
interface GigabitEthernet2/0/16
!
interface GigabitEthernet2/0/17
!
interface GigabitEthernet2/0/18
!
interface GigabitEthernet2/0/19
!
interface GigabitEthernet2/0/20
!
interface GigabitEthernet2/0/21
```

```
!  
interface GigabitEthernet2/0/22  
!  
interface GigabitEthernet2/0/23  
!  
interface GigabitEthernet2/0/24  
!  
interface GigabitEthernet2/0/25  
!  
interface GigabitEthernet2/0/26  
!  
interface GigabitEthernet2/0/27  
!  
interface GigabitEthernet2/0/28  
!  
interface GigabitEthernet2/0/29  
!  
interface GigabitEthernet2/0/30  
!  
interface GigabitEthernet2/0/31  
!  
interface GigabitEthernet2/0/32  
!  
interface GigabitEthernet2/0/33  
!  
interface GigabitEthernet2/0/34  
!  
interface GigabitEthernet2/0/35  
!  
interface GigabitEthernet2/0/36  
!  
interface GigabitEthernet2/0/37  
!  
interface GigabitEthernet2/0/38  
!  
interface GigabitEthernet2/0/39  
!  
interface GigabitEthernet2/0/40  
!  
interface GigabitEthernet2/0/41  
!  
interface GigabitEthernet2/0/42  
!  
interface GigabitEthernet2/0/43  
!  
interface GigabitEthernet2/0/44
```

```
!  
interface GigabitEthernet2/0/45  
!  
interface GigabitEthernet2/0/46  
!  
interface GigabitEthernet2/0/47  
!  
interface GigabitEthernet2/0/48  
!  
interface GigabitEthernet2/0/49  
description Connected to cr35-4507-SS1  
no switchport  
no ip address  
logging event bundle-status  
load-interval 30  
carrier-delay msec 0  
srr-queue bandwidth share 1 30 35 5  
priority-queue out  
udld port  
mls qos trust dscp  
channel-protocol lacp  
channel-group 1 mode active  
!  
interface GigabitEthernet2/0/50  
!  
interface GigabitEthernet2/0/51  
!  
interface GigabitEthernet2/0/52  
!  
interface Vlan1  
ip address dhcp  
shutdown  
!  
interface Vlan2  
description FlashNet - DO NOT ROUTE  
ip address 172.26.160.222 255.255.252.0  
no ip redirects  
no ip proxy-arp  
!  
interface Vlan11  
ip address 10.127.7.129 255.255.255.192  
ip helper-address 10.125.31.2  
no ip redirects  
no ip unreachable  
ip pim sparse-mode  
load-interval 30
```

```
!  
!  
router eigrp 100  
  passive-interface default  
  no passive-interface Port-channel1  
  no auto-summary  
  eigrp router-id 10.126.100.6  
  eigrp stub connected  
  network 10.126.0.0 0.1.255.255  
  nsf  
!  
ip classless  
ip route 172.26.158.0 255.255.255.0 172.26.160.1  
no ip http server  
no ip http secure-server  
ip pim rp-address 10.125.100.100 Allowed_MCAST_Groups override  
ip pim spt-threshold infinity  
ip pim accept-register list PERMIT-SOURCES  
!  
!  
ip access-list standard Allowed_MCAST_Groups  
  permit 224.0.1.39  
  permit 224.0.1.40  
  permit 239.192.0.0 0.0.255.255  
!  
ip access-list extended BULK-DATA  
  remark FTP  
  permit tcp any any eq ftp  
  permit tcp any any eq ftp-data  
  remark SSH/SFTP  
  permit tcp any any eq 22  
  remark SMTP/SECURE SMTP  
  permit tcp any any eq smtp  
  permit tcp any any eq 465  
  remark IMAP/SECURE IMAP  
  permit tcp any any eq 143  
  permit tcp any any eq 993  
  remark POP3/SECURE POP3  
  permit tcp any any eq pop3  
  permit tcp any any eq 995  
  remark CONNECTED PC BACKUP  
  permit tcp any eq 1914 any  
ip access-list extended DEFAULT  
  remark EXPLICIT CLASS-DEFAULT  
  permit ip any any  
ip access-list extended MULTIMEDIA-CONFERENCING
```

```
  remark RTP  
  permit udp any any range 16384 32767  
ip access-list extended PERMIT-SOURCES  
  permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255  
ip access-list extended PXE  
  permit tcp any any established  
  permit udp any any eq bootps  
  permit udp any host 10.125.31.11 eq domain  
  permit udp any host 10.125.31.12 eq tftp  
ip access-list extended SCAVENGER  
  remark KAZAA  
  permit tcp any any eq 1214  
  permit udp any any eq 1214  
  remark MICROSOFT DIRECT X GAMING  
  permit tcp any any range 2300 2400  
  permit udp any any range 2300 2400  
  remark APPLE ITUNES MUSIC SHARING  
  permit tcp any any eq 3689  
  permit udp any any eq 3689  
  remark BITTORRENT  
  permit tcp any any range 6881 6999  
  remark YAHOO GAMES  
  permit tcp any any eq 11999  
  remark MSN GAMING ZONE  
  permit tcp any any range 28800 29100  
ip access-list extended SIGNALING  
  remark SCCP  
  permit tcp any any range 2000 2002  
  remark SIP  
  permit tcp any any range 5060 5061  
  permit udp any any range 5060 5061  
ip access-list extended TRANSACTIONAL-DATA  
  remark HTTPS  
  permit tcp any any eq 443  
  remark ORACLE-SQL*NET  
  permit tcp any any eq 1521  
  permit udp any any eq 1521  
  remark ORACLE  
  permit tcp any any eq 1526  
  permit udp any any eq 1526  
  permit tcp any any eq 1575  
  permit udp any any eq 1575  
  permit tcp any any eq 1630  
!  
!  
snmp-server community public RO
```

```
snmp-server community k12 RW
snmp-server trap-source Loopback0
snmp-server host 172.26.158.251 version 2c k12
radius-server dead-criteria time 15 tries 3
radius-server host 10.125.31.4 auth-port 1645 acct-port 1646 key 7
121A0C04110440557878
radius-server deadtime 1
!
control-plane
!
alias exec dsno show ip dhcp snooping bind
alias exec ct config t
alias exec srb sh run | begin
alias exec sri sh run int
alias exec cl clear logg
alias exec rib show ip route
alias exec ec sh etherchannel
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
!
line con 0
  exec-timeout 0 0
  password 7 121A0C041104
line vty 0 4
  exec-timeout 0 0
  password 7 121A0C041104
line vty 5 15
  exec-timeout 0 0
!
ntp clock-period 36028695
ntp server 172.26.160.10
end
```

Core/Distribution/WAN Edge

```
Cr35-4507-SS1
!
! Last configuration change at 13:15:17 EDT Thu Sep 3 2009 by cisco
! NVRAM config last updated at 13:15:32 EDT Thu Sep 3 2009 by cisco
!
version 12.2
no service pad
service timestamps debug datetime msec localtime
```

```
service timestamps log datetime msec localtime
service password-encryption
service compress-config
!
hostname cr35-4507-SS1
!
boot-start-marker
boot system flash bootflash:cat4500-entservicesk9-mz.122-50.SG
boot-end-marker
!
enable password 7 110A1016141D
!
aaa new-model
!
!
aaa authentication login default group radius enable line
aaa authentication dot1x default group radius
!
!
!
aaa session-id common
clock timezone EST -5
clock summer-time EDT recurring
qos
qos db1 exceed-action ecn
qos db1 dscp-based 0-31,33-39,41-45,47-63
qos map dscp 0 to tx-queue 2
qos map dscp 16 18 20 22 24 26 28 30 to tx-queue 4
qos map dscp 34 36 38 to tx-queue 4
udld enable

ip subnet-zero
no ip domain-lookup
!
ip vrf mgmtVrf
!
ip multicast-routing
vtp domain School-Site-1
vtp mode transparent
cluster run
!
!
key chain eigrp-key
  key 1
    key-string 7 045802150C2E
!
```



```
!  
dot1x system-auth-control  
dot1x guest-vlan supplicant  
errdisable recovery cause udd  
errdisable recovery cause bpdguard  
errdisable recovery cause dhcp-rate-limit  
errdisable recovery cause storm-control  
errdisable recovery cause arp-inspection  
errdisable recovery interval 120  
power redundancy-mode combined  
!  
!  
!  
!  
!  
macro global description system-cpp | system-cpp  
!  
spanning-tree mode rapid-pvst  
spanning-tree extend system-id  
spanning-tree vlan 1-4094 priority 24576  
!  
redundancy  
  mode sso  
  main-cpu  
    auto-sync standard  
!  
process-max-time 20  
vlan internal allocation policy ascending  
!  
vlan 101  
  name cr35_2960_Dept1  
!  
vlan 102  
  name cr35_2960_Dept2  
!  
vlan 103  
  name cr35_2960_Dept3  
!  
vlan 104  
  name cr35_2960_Dept4  
!  
vlan 105  
  name cr35_2960_Dept5  
!  
vlan 106  
  name cr35_2960_Dept6
```

```
!  
vlan 107  
  name cr35_2960_Dept7  
!  
vlan 108  
  name cr35_2960_Dept8  
!  
vlan 109  
  name cr35_2960_Dept9  
!  
vlan 110  
  name cr35_2960_Dept10  
!  
vlan 111  
  name cr35_3560_Dept11  
!  
vlan 112  
  name cr35_3560_Dept12  
!  
vlan 113  
  name cr35_3560_Dept13  
!  
vlan 114  
  name cr35_3560_Dept14  
!  
vlan 115  
  name cr35_3560_Dept15  
!  
vlan 116  
  name cr35_3560_Dept16  
!  
vlan 117  
  name cr35_3560_Dept17  
!  
vlan 118  
  name cr35_3560_Dept18  
!  
vlan 119  
  name cr35_3560_Dept19  
!  
vlan 120  
  name cr35_3560_Dept20  
!  
vlan 121  
  name cr35_3750_Dept21  
!
```

```
vlan 122
  name cr35_3750_Dept22
!
vlan 123
  name cr35_3750_Dept23
!
vlan 124
  name cr35_3750_Dept24
!
vlan 125
  name cr35_3750_Dept25
!
vlan 126
  name cr35_3750_Dept26
!
vlan 127
  name cr35_3750_Dept27
!
vlan 128
  name cr35_3750_Dept28
!
vlan 129
  name cr35_3750_Dept29
!
vlan 130
  name cr35_3750_Dept30
!
vlan 501
  name cr24_3750ME_DO
!
vlan 801
  name MetroE_Hopping_VLAN
!
vlan 802
  name cr36_2960-Hopping-VL
!
vlan 803
  name cr36_3560-Hopping-VL
!
vlan 804
  name cr36_3750-Hopping-VL
!
ip ftp username nimishguest
ip ftp password 7 000A1701115E1812
!
class-map match-all COPP-CRITICAL-APPLICATIONS
```

```
  match access-group name COPP-CRITICAL-APPLICATIONS
class-map match-all system-cpp-cdp
  match access-group name system-cpp-cdp
class-map match-all system-cpp-pim
  match access-group name system-cpp-pim
class-map match-all COPP-FILE-MANAGEMENT
  match access-group name COPP-FILE-MANAGEMENT
class-map match-all system-cpp-pppoe-disc
  match access-group name system-cpp-pppoe-disc
class-map match-all COPP-MONITORING
  match access-group name COPP-MONITORING
class-map match-all system-cpp-bpdu-range
  match access-group name system-cpp-bpdu-range
class-map match-all system-cpp-dhcp-cs
  match access-group name system-cpp-dhcp-cs
class-map match-all system-cpp-dhcp-sc
  match access-group name system-cpp-dhcp-sc
class-map match-all system-cpp-all-systems-on-subnet
  match access-group name system-cpp-all-systems-on-subnet
class-map match-all system-cpp-all-routers-on-subnet
  match access-group name system-cpp-all-routers-on-subnet
class-map match-all system-cpp-ripv2
  match access-group name system-cpp-ripv2
class-map match-all system-cpp-mcast-cfm
  match access-group name system-cpp-mcast-cfm
class-map match-all system-cpp-dot1x
  match access-group name system-cpp-dot1x
class-map match-all system-cpp-ucast-cfm
  match access-group name system-cpp-ucast-cfm
class-map match-all system-cpp-dhcp-ss
  match access-group name system-cpp-dhcp-ss
class-map match-all COPP-INTERACTIVE-MANAGEMENT
  match access-group name COPP-INTERACTIVE-MANAGEMENT
class-map match-all system-cpp-sstp
  match access-group name system-cpp-sstp
class-map match-all system-cpp-ospf
  match access-group name system-cpp-ospf
class-map match-all NON-REALTIME
  match not ip dscp ef
  match not ip dscp cs5
  match not ip dscp cs4
class-map match-all system-cpp-lldp
  match access-group name system-cpp-lldp
class-map match-all system-cpp-igmp
  match access-group name system-cpp-igmp
class-map match-all COPP-UNDESIRABLE
```

```
match access-group name COPP-UNDESIRABLE
class-map match-all system-cpp-ip-mcast-linklocal
match access-group name system-cpp-ip-mcast-linklocal
class-map match-all COPP-IGP
match access-group name COPP-IGP
class-map match-all system-cpp-cgmp
match access-group name system-cpp-cgmp
!
!
policy-map WAN-EGRESS-CHILD
class NON-REALTIME
    police 13200 kbps 1000 byte conform-action transmit exceed-action
drop
policy-map DBL
class class-default
    dbl
policy-map WAN-EGRESS-PARENT
class class-default
    police 20 mbps 1000 byte conform-action transmit exceed-action drop
    dbl
service-policy WAN-EGRESS-CHILD
policy-map system-cpp-policy
class system-cpp-dot1x
class system-cpp-lldp
class system-cpp-bpdu-range
class system-cpp-cdp
class system-cpp-sstp
class system-cpp-cgmp
class system-cpp-mcast-cfm
class system-cpp-ucast-cfm
class system-cpp-pppoe-disc
class system-cpp-ospf
class system-cpp-igmp
class system-cpp-pim
class system-cpp-all-systems-on-subnet
class system-cpp-all-routers-on-subnet
class system-cpp-ripv2
class system-cpp-ip-mcast-linklocal
class system-cpp-dhcp-cs
class system-cpp-dhcp-sc
class system-cpp-dhcp-ss
class COPP-IGP
    police 300000 bps 3000 byte conform-action transmit exceed-action
drop
class COPP-INTERACTIVE-MANAGEMENT
```

```
police 500000 bps 5000 byte conform-action transmit exceed-action
drop
class COPP-FILE-MANAGEMENT
    police 6000000 bps 60000 byte conform-action transmit exceed-action
drop
class COPP-MONITORING
    police 900000 bps 9000 byte conform-action transmit exceed-action
drop
class COPP-CRITICAL-APPLICATIONS
    police 900000 bps 9000 byte conform-action transmit exceed-action
drop
class COPP-UNDESIRABLE
    police 32000 bps 3000 byte conform-action drop exceed-action drop
class class-default
    police 500000 bps 5000 byte conform-action transmit exceed-action
drop
!
!
!
interface Loopback0
ip address 10.126.100.2 255.255.255.255
!
interface Port-channel11
description Connected to cr35-2960-SS1
switchport
switchport trunk encapsulation dot1q
switchport trunk native vlan 802
switchport trunk allowed vlan 101-110
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
qos trust dscp
!
interface Port-channel12
description Connected to cr35-3560-SS1
switchport
switchport trunk encapsulation dot1q
switchport trunk native vlan 803
switchport trunk allowed vlan 111-120
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
qos trust dscp
!
```

```
interface Port-channel13
description Connected to cr35-3750-SS1
switchport
switchport trunk encapsulation dot1q
switchport trunk native vlan 804
switchport trunk allowed vlan 121-130
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
qos trust dscp
!
interface Port-channel14
description Connected to cr35-3750r-SS1
dampening
ip address 10.127.7.193 255.255.255.192
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip pim sparse-mode
ip summary-address eigrp 100 10.127.0.0 255.255.248.0 5
load-interval 30
carrier-delay msec 0
qos trust dscp
!
interface FastEthernet1
ip vrf forwarding mgmtVrf
no ip address
speed auto
duplex auto
!
interface GigabitEthernet1/1
description Connected to MetroE-Core-cr25-6500-1
switchport trunk encapsulation dot1q
switchport trunk native vlan 801
switchport trunk allowed vlan 501
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
qos trust dscp
udld port disable
tx-queue 1
    bandwidth 1 mbps
tx-queue 2
    bandwidth 7 mbps
tx-queue 3
```

```
    bandwidth 6 mbps
    priority high
tx-queue 4
    bandwidth 6 mbps
no cdp enable
spanning-tree portfast trunk
spanning-tree bpduguard enable
spanning-tree guard root
service-policy output WAN-EGRESS-PARENT
!
interface GigabitEthernet1/2
description Connected to cr35_2960_SS1
switchport trunk encapsulation dot1q
switchport trunk native vlan 802
switchport trunk allowed vlan 101-110
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
qos trust dscp
tx-queue 1
    bandwidth percent 5
tx-queue 2
    bandwidth percent 35
tx-queue 3
    bandwidth percent 30
    priority high
tx-queue 4
    bandwidth percent 30
channel-protocol pagp
channel-group 11 mode desirable
spanning-tree guard root
service-policy output DBL
!
interface GigabitEthernet1/3
description Connected to cr35_3560_SS1
switchport trunk encapsulation dot1q
switchport trunk native vlan 803
switchport trunk allowed vlan 111-120
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
qos trust dscp
tx-queue 1
    bandwidth percent 5
```

```
tx-queue 2
    bandwidth percent 35
tx-queue 3
    bandwidth percent 30
    priority high
tx-queue 4
    bandwidth percent 30
channel-protocol pagp
channel-group 12 mode desirable
spanning-tree guard root
service-policy output DBL
!
interface GigabitEthernet1/4
description Connected to cr35-3750-SS1
switchport trunk encapsulation dot1q
switchport trunk native vlan 804
switchport trunk allowed vlan 121-130
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
qos trust dscp
tx-queue 1
    bandwidth percent 5
tx-queue 2
    bandwidth percent 35
tx-queue 3
    bandwidth percent 30
    priority high
tx-queue 4
    bandwidth percent 30
channel-protocol pagp
channel-group 13 mode desirable
spanning-tree guard root
service-policy output DBL
!
interface GigabitEthernet1/5
description Connected to cr35-3750r-SS1
no switchport
dampening
no ip address
logging event link-status
load-interval 30
carrier-delay msec 0
qos trust dscp
tx-queue 1
```

```
    bandwidth percent 5
tx-queue 2
    bandwidth percent 35
tx-queue 3
    bandwidth percent 30
    priority high
tx-queue 4
    bandwidth percent 30
channel-protocol lacp
channel-group 14 mode active
spanning-tree guard root
service-policy output DBL
!
interface GigabitEthernet1/6
switchport trunk encapsulation dot1q
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
qos trust dscp
tx-queue 1
    bandwidth percent 5
tx-queue 2
    bandwidth percent 35
tx-queue 3
    bandwidth percent 30
    priority high
tx-queue 4
    bandwidth percent 30
spanning-tree guard root
service-policy output DBL
!
interface GigabitEthernet2/1
switchport trunk encapsulation dot1q
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
qos trust dscp
tx-queue 1
    bandwidth percent 5
tx-queue 2
    bandwidth percent 35
tx-queue 3
    bandwidth percent 30
    priority high
```

```
tx-queue 4
    bandwidth percent 30
spanning-tree guard root
!
interface GigabitEthernet2/2
description Connected to cr35_2960_SS1
switchport trunk encapsulation dot1q
switchport trunk native vlan 802
switchport trunk allowed vlan 101-110
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
qos trust dscp
tx-queue 1
    bandwidth percent 5
tx-queue 2
    bandwidth percent 35
tx-queue 3
    bandwidth percent 30
    priority high
tx-queue 4
    bandwidth percent 30
channel-protocol pagp
channel-group 11 mode desirable
spanning-tree guard root
service-policy output DBL
!
interface GigabitEthernet2/3
description Connected to cr35_3560_SS1
switchport trunk encapsulation dot1q
switchport trunk native vlan 803
switchport trunk allowed vlan 111-120
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
qos trust dscp
tx-queue 1
    bandwidth percent 5
tx-queue 2
    bandwidth percent 35
tx-queue 3
    bandwidth percent 30
    priority high
tx-queue 4
```

```
    bandwidth percent 30
channel-protocol pagp
channel-group 12 mode desirable
spanning-tree guard root
service-policy output DBL
!
interface GigabitEthernet2/4
description Connected to cr35-3750-SS1
switchport trunk encapsulation dot1q
switchport trunk native vlan 804
switchport trunk allowed vlan 121-130
switchport mode trunk
logging event link-status
load-interval 30
carrier-delay msec 0
qos trust dscp
tx-queue 1
    bandwidth percent 5
tx-queue 2
    bandwidth percent 35
tx-queue 3
    bandwidth percent 30
    priority high
tx-queue 4
    bandwidth percent 30
channel-protocol pagp
channel-group 13 mode desirable
spanning-tree guard root
service-policy output DBL
!
interface GigabitEthernet2/5
description Connected to cr35-3750r-SS1
no switchport
dampening
no ip address
logging event link-status
load-interval 30
carrier-delay msec 0
qos trust dscp
tx-queue 1
    bandwidth percent 5
tx-queue 2
    bandwidth percent 35
tx-queue 3
    bandwidth percent 30
    priority high
```

```
tx-queue 4
    bandwidth percent 30
channel-protocol lacp
channel-group 14 mode active
spanning-tree guard root
service-policy output DBL
!
interface GigabitEthernet2/6
    switchport trunk encapsulation dot1q
    switchport mode trunk
    logging event link-status
    load-interval 30
    carrier-delay msec 0
    shutdown
    qos trust dscp
    tx-queue 1
        bandwidth percent 5
    tx-queue 2
        bandwidth percent 35
    tx-queue 3
        bandwidth percent 30
        priority high
    tx-queue 4
        bandwidth percent 30
    spanning-tree guard root
    service-policy output DBL
!
interface TenGigabitEthernet3/1
!
interface TenGigabitEthernet3/2
!
interface GigabitEthernet3/3
!
interface GigabitEthernet3/4
!
interface GigabitEthernet3/5
!
interface GigabitEthernet3/6
!
interface TenGigabitEthernet4/1
!
interface TenGigabitEthernet4/2
!
interface GigabitEthernet4/3
!
interface GigabitEthernet4/4
```

```
!
interface GigabitEthernet4/5
!
interface GigabitEthernet4/6
!
interface GigabitEthernet6/1
    description Connected to FlashNet
    no switchport
    ip address 172.26.160.191 255.255.254.0
    no ip redirects
    no ip proxy-arp
    load-interval 30
!
interface GigabitEthernet6/2
    switchport trunk encapsulation dot1q
    switchport trunk allowed vlan 101
    switchport mode trunk
!
interface GigabitEthernet6/3
!
interface GigabitEthernet6/4
!
interface GigabitEthernet6/5
!
interface GigabitEthernet6/6
!
interface GigabitEthernet6/7
!
interface GigabitEthernet6/8
!
interface GigabitEthernet6/9
!
interface GigabitEthernet6/10
!
interface GigabitEthernet6/11
!
interface GigabitEthernet6/12
!
interface GigabitEthernet6/13
!
interface GigabitEthernet6/14
!
interface GigabitEthernet6/15
!
interface GigabitEthernet6/16
!
```

```
interface GigabitEthernet6/17
!
interface GigabitEthernet6/18
!
interface GigabitEthernet6/19
!
interface GigabitEthernet6/20
!
interface GigabitEthernet6/21
!
interface GigabitEthernet6/22
!
interface GigabitEthernet6/23
!
interface GigabitEthernet6/24
!
interface GigabitEthernet6/25
!
interface GigabitEthernet6/26
!
interface GigabitEthernet6/27
!
interface GigabitEthernet6/28
!
interface GigabitEthernet6/29
!
interface GigabitEthernet6/30
!
interface GigabitEthernet6/31
!
interface GigabitEthernet6/32
!
interface GigabitEthernet6/33
!
interface GigabitEthernet6/34
!
interface GigabitEthernet6/35
!
interface GigabitEthernet6/36
!
interface GigabitEthernet6/37
!
interface GigabitEthernet6/38
!
interface GigabitEthernet6/39
!
```

```
interface GigabitEthernet6/40
!
interface GigabitEthernet6/41
!
interface GigabitEthernet6/42
!
interface GigabitEthernet6/43
!
interface GigabitEthernet6/44
!
interface GigabitEthernet6/45
!
interface GigabitEthernet6/46
!
interface GigabitEthernet6/47
!
interface GigabitEthernet6/48
!
interface Vlan1
no ip address
shutdown
!
interface Vlan101
description Connected to cr35_2960_Dept_1_VLAN
dampening
ip address 10.127.0.1 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan102
description Connected to cr35_2960_Dept_2_VLAN
dampening
ip address 10.127.0.65 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan103
description Connected to cr35_2960_Dept_3_VLAN
dampening
ip address 10.127.0.129 255.255.255.192
```



```
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan104
description Connected to cr35_2960_Dept_4_VLAN
dampening
ip address 10.127.0.193 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan105
description Connected to cr35_2960_Dept_5_VLAN
dampening
ip address 10.127.1.1 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan106
description Connected to cr35_2960_Dept_6_VLAN
dampening
ip address 10.127.1.65 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan107
description Connected to cr35_2960_Dept_7_VLAN
dampening
ip address 10.127.1.129 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
```

```
interface Vlan108
description Connected to cr35_2960_Dept_8_VLAN
dampening
ip address 10.127.1.193 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan109
description Connected to cr35_2960_Dept_9_VLAN
dampening
ip address 10.127.2.1 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan110
description Connected to cr35_2960_Dept_10_VLAN
dampening
ip address 10.127.2.65 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan111
description Connected to cr35_3560_Dept_1_VLAN
dampening
ip address 10.127.2.129 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan112
description Connected to cr35_3560_Dept_2_VLAN
dampening
ip address 10.127.2.193 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
```

```
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan113
description Connected to cr35_3560_Dept_3_VLAN
dampening
ip address 10.127.3.1 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan114
description Connected to cr35_3560_Dept_4_VLAN
dampening
ip address 10.127.3.65 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan115
description Connected to cr35_3560_Dept_5_VLAN
dampening
ip address 10.127.3.129 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan116
description Connected to cr35_3560_Dept_6_VLAN
dampening
ip address 10.127.3.193 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan117
description Connected to cr35_3560_Dept_7_VLAN
```

```
dampening
ip address 10.127.4.1 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan118
description Connected to cr35_3560_Dept_8_VLAN
dampening
ip address 10.127.4.65 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan119
description Connected to cr35_3560_Dept_9_VLAN
dampening
ip address 10.127.4.129 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan120
description Connected to cr35_3560_Dept_10_VLAN
dampening
ip address 10.127.4.193 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan121
description Connected to cr35_3750_Dept_1_VLAN
dampening
ip address 10.127.5.1 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
```

```
load-interval 30
!
interface Vlan122
description Connected to cr35_3750_Dept_2_VLAN
dampening
ip address 10.127.5.65 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan123
description Connected to cr35_3750_Dept_3_VLAN
dampening
ip address 10.127.5.129 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan124
description Connected to cr35_3750_Dept_4_VLAN
dampening
ip address 10.127.5.193 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan125
description Connected to cr35_3750_Dept_5_VLAN
dampening
ip address 10.127.6.1 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan126
description Connected to cr35_3750_Dept_6_VLAN
dampening
ip address 10.127.6.65 255.255.255.192
```

```
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan127
description Connected to cr35_3750_Dept_7_VLAN
dampening
ip address 10.127.6.129 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan128
description Connected to cr35_3750_Dept_8_VLAN
dampening
ip address 10.127.6.193 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan129
description Connected to cr35_3750_Dept_9_VLAN
dampening
ip address 10.127.7.1 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan130
description Connected to cr35_3750_Dept_10_VLAN
dampening
ip address 10.127.7.65 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
```

```
interface Vlan501
  description Connected to cr24-3750ME-DO
  dampening
  ip address 10.126.0.1 255.255.255.254
  no ip redirects
  no ip unreachable
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
  ip pim sparse-mode
  ip summary-address eigrp 100 10.127.0.0 255.255.248.0 5
  load-interval 30
!
!
router eigrp 100
  passive-interface default
  no passive-interface Vlan501
  no passive-interface Port-channel14
  distribute-list route-map EIGRP_STUB_ROUTES out Port-channel14
  no auto-summary
  eigrp router-id 10.126.100.2
  network 10.126.0.0 0.1.255.255
  nsf
!
!
ip route 172.26.158.0 255.255.255.0 172.26.160.1
no ip http server
no ip http secure-server
!
!
ip pim rp-address 10.125.100.100 Allowed_MCAST_Groups override
ip pim spt-threshold infinity
ip pim accept-register list PERMIT-SOURCES
!
ip access-list standard Allowed_MCAST_Groups
  permit 224.0.1.39
  permit 224.0.1.40
  permit 239.192.0.0 0.0.255.255
!
ip access-list extended COPP-CRITICAL-APPLICATIONS
  remark DHCP
  permit udp host 0.0.0.0 host 255.255.255.255 eq bootps
  permit udp host 10.125.31.2 eq bootps any eq bootps
ip access-list extended COPP-FILE-MANAGEMENT
  remark (initiated) FTP (active and passive)
  permit tcp 172.26.160.0 0.0.3.255 eq ftp host 172.26.160.191 gt 1023
established
```

```
  permit tcp 172.26.160.0 0.0.3.255 eq ftp-data host 172.26.160.191 gt
1023
  permit tcp 172.26.160.0 0.0.3.255 gt 1023 host 172.26.160.191 gt 1023
established
  remark (initiated) TFTP
  permit udp 172.26.160.0 0.0.3.255 gt 1023 host 172.26.160.191 gt 1023
ip access-list extended COPP-IGP
  remark IGP (EIGRP)
  permit eigrp any host 224.0.0.10
  permit eigrp any any
ip access-list extended COPP-INTERACTIVE-MANAGEMENT
  remark RADIUS (return traffic)
  permit udp host 10.125.31.4 host 10.126.100.2
  remark SSH
  permit tcp 10.124.0.0 0.3.255.255 host 10.126.100.2 eq 22
  remark SNMP
  permit udp host 172.26.160.100 host 10.126.100.2 eq snmp
  remark NTP
  permit udp host 172.26.160.10 host 172.26.160.191 eq ntp
ip access-list extended COPP-MONITORING
  remark PING-ECHO
  permit icmp any any echo
  remark PING-ECHO-REPLY
  permit icmp any any echo-reply
  remark TRACEROUTE
  permit icmp any any ttl-exceeded
  permit icmp any any port-unreachable
ip access-list extended COPP-UNDESIRABLE
  remark UNDESIRABLE
  permit udp any any eq 1434
ip access-list extended PERMIT-SOURCES
  permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255
!
!
access-list 1 permit 0.0.0.0
access-list 1 permit 10.127.0.0
access-list 1 permit 10.124.0.0
!
!
route-map EIGRP_STUB_ROUTES permit 10
  match ip address 1
!
!
snmp-server engineID local 800000090300001D45735179
snmp-server community public RO
snmp-server community k12 RW
snmp-server trap-source Loopback0
snmp-server host 172.26.158.251 version 2c k12
```

```
radius-server dead-criteria time 15 tries 3
radius-server host 10.125.31.4 auth-port 1645 acct-port 1646 key 7
104D000A06185E5A5E57
radius-server deadtime 1
!
control-plane
  service-policy input system-cpp-policy
!
alias exec ct config t
alias exec srb sh run | begin
alias exec sri sh run int
alias exec cl clear logg
alias exec rib show ip route
alias exec ec sh etherchannel
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
!
line con 0
  exec-timeout 0 0
  password 7 121A0C041104
  stopbits 1
line vty 0 4
  exec-timeout 0 0
  password 7 121A0C041104
line vty 5 15
  exec-timeout 0 0
!
ntp clock-period 17180908
ntp server 172.26.160.10
end
```

PSTN Edge

```
School2-B1L#term len 0
School2-B1L#wri
Building configuration...
[OK]
School2-B1L#sh run
Building configuration...
```

Current configuration : 9069 bytes

```
!
! Last configuration change at 16:54:51 UTC Tue Sep 8 2009
```

```
! NVRAM config last updated at 16:55:16 UTC Tue Sep 8 2009
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname School2-B1L
!
boot-start-marker
boot system flash:c3825-advipservicesk9-mz.124-15.T1.bin
boot-end-marker
!
card type t1 2 0
logging buffered 4096
!
no aaa new-model
!
monitor session 1 destination interface Fa1/15
no network-clock-participate slot 2
no network-clock-participate wic 0
no ip dhcp use vrf connected
ip dhcp excluded-address 10.41.51.0 10.41.51.49
ip dhcp excluded-address 10.41.51.100 10.41.51.255
!
ip dhcp pool SRST
  network 10.41.51.0 255.255.255.0
  option 150 ip 10.33.32.20
  default-router 10.41.51.1
!
!
ip cef
!
!
ip domain name ese.local
ip name-server 10.33.32.5
!
multilink bundle-name authenticated
!
isdn switch-type primary-ni
voice-card 0
  no dspfarm
!
voice-card 2
  no dspfarm
!
```

```
!  
!  
key chain eigrp-chain  
  key 100  
    key-string cisco  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
voice translation-rule 1  
  rule 1 /^222345/ /8222/  
!  
voice translation-rule 10  
  rule 1 /^84441/ /4445671/  
  rule 2 /^83331/ /3334561/  
!  
!  
voice translation-profile S2-SRST-in  
  translate called 1  
!  
voice translation-profile S2-SRST-out  
  translate called 10  
!  
!  
!  
application  
  global  
  service alternate default  
!  
!  
!  
crypto pki trustpoint TP-self-signed-3021612211  
  enrollment selfsigned  
  subject-name cn=IOS-Self-Signed-Certificate-3021612211  
  revocation-check none  
  rsakeypair TP-self-signed-3021612211
```

```
!  
!  
crypto pki certificate chain TP-self-signed-3021612211  
certificate self-signed 01  
  30820245 308201AE A0030201 02020101 300D0609 2A864886 F70D0101 04050030  
  
  31312F30 2D060355 04031326 494F532D 53656C66 2D536967 6E65642D 43657274  
  
  69666963 6174652D 33303231 36313232 3131301E 170D3039 30363131 32323231  
  
  34305A17 0D323030 31303130 30303030 305A3031 312F302D 06035504 03132649  
  
  4F532D53 656C662D 5369676E 65642D43 65727469 66696361 74652D33 30323136  
  
  31323231 3130819F 300D0609 2A864886 F70D0101 01050003 818D0030 81890281  
  
  8100952E 74B22996 55A51E37 8DA60200 0590F983 0375EFFE 60E9A360 AEAEEC74  
  
  66F6C188 2ADFFE99 D7A5CAA3 4E55140F 91E6C706 F6107740 8551210F DD0B47CF  
  
  C0801EEA 80CF9456 66CFAC2D 8B2C2EC0 762D92E7 A0E62EA9 F8D406F3 D3907060  
  
  0D4E8053 70E8EE96 AD39C98C 04B365C6 4E57BDF3 A2B43190 B02939E0 DF0C0B10  
  
  A8270203 010001A3 6D306B30 0F060355 1D130101 FF040530 030101FF 30180603  
  
  551D1104 11300F82 0D62316C 2E657365 2E6C6F63 616C301F 0603551D 23041830  
  
  168014B2 D0D56B23 AD137366 E12C01FB A052FB71 9CE48630 1D060355 1D0E0416  
  
  0414B2D0 D56B23AD 137366E1 2C01FBA0 52FB719C E486300D 06092A86 4886F70D  
  
  01010405 00038181 0029B1C4 FBF3A9EA C044C909 5641CE13 BE7BB985 C705847A  
  
  7BCB2E46 2C151D24 DBB1296D 0F13B937 EC22F0D0 57C815CE 5FCA28F3 2ADFA571  
  
  BF450B05 92BD038B 4948882B E455759A BD282100 7681C58B DFA5EB51 48E15611  
  
  1EC4EB13 3853A6BA 5009AB43 372620A1 71D5B283 4BD1BF8A 822CB1E1 E1AA8CD5  
  
  42028C49 CE83A384 A5  
    quit  
!  
!  
!  
!  
username cisco secret 5 $1$lbdn$P7ro8OilCa9puLAhNkMrF0  
username Cisc0123 secret 5 $1$ssbG$.ASxHSEZHbNxPhJch8pcx1  
username admin secret 5 $1$UFHA$Ij/BzRhF91OsTvvrXeTNF0
```

```
archive
 log config
  hidekeys
!
!
controller T1 2/0/0
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
controller T1 2/0/1
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
!
!
!
!
interface Loopback1
 ip address 10.33.9.23 255.255.255.0
!
interface Port-channel3
 description port-channel to core stack
 ip address 10.40.79.9 255.255.255.252
 hold-queue 150 in
!
interface GigabitEthernet0/0
 description $ETH-LAN$$ETH-SW-LAUNCH$$INTF-INFO-GE 0/0$
 no ip address
 duplex auto
 speed auto
 media-type rj45
 no keepalive
 channel-group 3
!
interface GigabitEthernet0/1
 no ip address
 duplex auto
 speed auto
 media-type rj45
 no keepalive
 channel-group 3
!
interface Serial0/0/0
 description serial link from B1R to A1R
```

```
ip address 10.33.4.5 255.255.255.254
 load-interval 30
 carrier-delay msec 0
 clock rate 2016000
!
interface Serial0/0/1
 no ip address
 shutdown
 clock rate 2016000
!
interface Serial0/0/2
 no ip address
 shutdown
 clock rate 2016000
!
interface Serial0/0/3
 no ip address
 shutdown
 clock rate 2016000
!
interface FastEthernet1/0
 switchport trunk native vlan 50
 switchport mode trunk
!
interface FastEthernet1/1
!
interface FastEthernet1/2
!
interface FastEthernet1/3
 switchport access vlan 41
!
interface FastEthernet1/4
!
interface FastEthernet1/5
!
interface FastEthernet1/6
!
interface FastEthernet1/7
!
interface FastEthernet1/8
!
interface FastEthernet1/9
!
interface FastEthernet1/10
!
interface FastEthernet1/11
```

```
!  
interface FastEthernet1/12  
!  
interface FastEthernet1/13  
!  
interface FastEthernet1/14  
!  
interface FastEthernet1/15  
!  
interface Serial2/0/0:23  
no ip address  
encapsulation hdlc  
isdn switch-type primary-ni  
isdn incoming-voice voice  
no cdp enable  
!  
interface Serial2/0/1:23  
no ip address  
encapsulation hdlc  
isdn switch-type primary-ni  
isdn incoming-voice voice  
no cdp enable  
!  
interface Vlan1  
no ip address  
!  
interface Vlan50  
ip address 10.41.50.1 255.255.255.0  
!  
interface Vlan51  
ip address 10.41.51.1 255.255.255.0  
!  
ip route 0.0.0.0 0.0.0.0 10.33.4.4  
ip route 0.0.0.0 0.0.0.0 Port-channel3  
!  
!  
ip http server  
ip http access-class 23  
ip http authentication local  
ip http secure-server  
ip http timeout-policy idle 60 life 86400 requests 10000  
!  
access-list 23 permit 10.10.10.0 0.0.0.7  
!  
!  
!
```

```
!  
!  
!  
control-plane  
!  
!  
!  
voice-port 2/0/0:23  
!  
voice-port 2/0/1:23  
!  
ccm-manager fallback-mgcp  
ccm-manager mgcp  
ccm-manager music-on-hold  
ccm-manager config server 10.33.32.22  
ccm-manager config  
!  
mgcp  
mgcp call-agent CUCM7-Pub 2427 service-type mgcp version 0.1  
mgcp dtmf-relay voip codec all mode out-of-band  
mgcp rtp unreachable timeout 1000 action notify  
mgcp modem passthrough voip mode nse  
mgcp package-capability rtp-package  
mgcp package-capability sst-package  
mgcp package-capability pre-package  
no mgcp package-capability res-package  
no mgcp package-capability fxr-package  
no mgcp timer receive-rtcp  
mgcp sdp simple  
mgcp rtp payload-type g726r16 static  
mgcp bind control source-interface Port-channel3  
mgcp bind media source-interface Port-channel3  
!  
mgcp profile default  
!  
!  
!  
!  
dial-peer voice 1 pots  
description srst incoming  
translation-profile incoming S2-SRST-in  
service mgcpapp  
incoming called-number .  
direct-inward-dial  
port 2/0/1:23  
forward-digits 8  
!
```



```
dial-peer voice 91 pots
  description SRST; Any long distance number
  destination-pattern 91.....
  port 2/0/1:23
  forward-digits 10
!
dial-peer voice 91444 pots
  description SRST; PSTN School2 to School1
  destination-pattern 91444.....
  port 2/0/1:23
  forward-digits 10
!
dial-peer voice 91333 pots
  description SRST; PSTN School2 to District Office
  destination-pattern 91333.....
  port 2/0/1:23
  forward-digits 10
!
dial-peer voice 91222 pots
  description SRST; School2 local dialing with area code
  destination-pattern 91222.....
  port 2/0/1:23
  forward-digits 10
!
dial-peer voice 9345 pots
  description SRST; School2 local dialing (PSTN-router num-exp adds area
code)
  destination-pattern 9345....
  port 2/0/1:23
  forward-digits 7
!
dial-peer voice 911 pots
  description SRST; Emergency call without External access code
  destination-pattern 911
  port 2/0/1:23
  forward-digits 3
!
dial-peer voice 84441 pots
  description SRST; translate calls to School1 using internal number
format
  translation-profile outgoing S2-SRST-out
  destination-pattern 84441...
  port 2/0/1:23
  forward-digits 10
!
dial-peer voice 83331 pots
```

```
  description SRST; translate calls to District office using internal
number f
  translation-profile outgoing S2-SRST-out
  destination-pattern 83331...
  port 2/0/1:23
  forward-digits 10
!
dial-peer voice 9911 pots
  description SRST; Emergency call with External access code
  destination-pattern 9911
  port 2/0/1:23
  forward-digits 3
!
!
!
!
call-manager-fallback
  max-conferences 12 gain -6
  transfer-system full-consult
  ip source-address 10.40.79.9 port 2000
  max-ephones 10
  max-dn 20
  dialplan-pattern 1 82221... extension-length 8
!
banner exec ^CC
-----
This is Router B1L
-----
^C
banner login ^CC
-----
This is Router B1L
-----
^C
alias exec run sh run | begin
alias exec int sh ip int brief
!
line con 0
  exec-timeout 0 0
  length 0
  stopbits 1
line aux 0
  stopbits 1
line vty 0 4
  access-class 23 in
  privilege level 15
```

```
login local
transport input none
line vty 5 15
access-class 23 in
privilege level 15
login local
transport input telnet ssh
!
scheduler allocate 20000 1000
ntp authentication-key 2 md5 15200209132527203C 7
ntp authenticate
ntp trusted-key 2
ntp clock-period 17180073
ntp source Port-channel3
ntp max-associations 150
ntp server 10.40.94.17 key 2

!
webvpn cef
!
end
```

School12-B1L#

School 100

Access

```
Cr36-2960-SS100
!
! Last configuration change at 13:39:58 EDT Thu Sep 3 2009 by cisco
! NVRAM config last updated at 13:39:58 EDT Thu Sep 3 2009 by cisco
!
version 12.2
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
service password-encryption
!
hostname cr36-2960-SS100
!
boot-start-marker
boot-end-marker
!
enable password 7 121A0C041104
```

```
!
aaa new-model
!
!
aaa authentication login default group radius enable line
aaa authentication dot1x default group radius
!
!
!
aaa session-id common
clock timezone EST -5
clock summer-time EDT recurring
system mtu routing 1500
vtp domain School-Site
vtp mode transparent
ip subnet-zero
!
!
ip dhcp snooping vlan 101-110,201
no ip dhcp snooping information option
ip dhcp snooping
no ip domain-lookup
ip arp inspection vlan 101-110
ip arp inspection validate src-mac dst-mac ip allow zeros
!
mls qos map cos-dscp 0 8 16 24 32 46 48 56
mls qos srr-queue input bandwidth 70 30
mls qos srr-queue input threshold 1 80 90
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input dscp-map queue 1 threshold 2 24
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28
30 34
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38
mls qos srr-queue output dscp-map queue 2 threshold 2 24
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56
mls qos srr-queue output dscp-map queue 3 threshold 3 0
mls qos srr-queue output dscp-map queue 4 threshold 1 8
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14
mls qos queue-set output 1 threshold 2 80 90 100 100
mls qos queue-set output 1 threshold 4 60 100 100 100
mls qos
!
crypto pki trustpoint HTTPS_SS_CERT_KEYPAIR
```

```
enrollment selfsigned
serial-number
revocation-check none
rsakeypair HTTPS_SS_CERT_KEYPAIR
!
!
crypto pki certificate chain HTTPS_SS_CERT_KEYPAIR
  certificate self-signed 01 nvram:F9406600host#2E2E.cer
!
!
dot1x system-auth-control
dot1x guest-vlan supplicant
!
!
!
errdisable recovery cause udd
errdisable recovery cause bpduguard
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause storm-control
errdisable recovery cause arp-inspection
errdisable recovery interval 120
!
spanning-tree mode rapid-pvst
spanning-tree etherchannel guard misconfig
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 2
  name FlashNet_VLAN
!
vlan 101-110
!
vlan 201
  name Guest_VLAN
!
vlan 802
  name Hopping_VLAN
!
ip ftp username nimishguest
ip ftp password 7 04550F011A245F5A
!
class-map match-all BULK-DATA
  match access-group name BULK-DATA
class-map match-all VVLAN-SIGNALING
  match ip dscp cs3
```

```
class-map match-all MULTIMEDIA-CONFERENCING
  match access-group name MULTIMEDIA-CONFERENCING
class-map match-all DEFAULT
  match access-group name DEFAULT
class-map match-all SCAVENGER
  match access-group name SCAVENGER
class-map match-all SIGNALING
  match access-group name SIGNALING
class-map match-all VVLAN-VOIP
  match ip dscp ef
class-map match-all TRANSACTIONAL-DATA
  match access-group name TRANSACTIONAL-DATA
!
!
policy-map Phone-Policy
  class VVLAN-VOIP
    police 1000000 8000 exceed-action drop
    set dscp ef
  class VVLAN-SIGNALING
    police 1000000 8000 exceed-action drop
    set dscp cs3
policy-map UnTrusted-PC-Policy
  class class-default
    police 10000000 8000 exceed-action drop
    set dscp default
policy-map Trusted-PC-Policy
  class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
  class SIGNALING
    set dscp cs3
    police 1000000 8000 exceed-action drop
  class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
  class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
  class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
  class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
policy-map Phone+PC-Policy
  class VVLAN-VOIP
```

```
    police 1000000 8000 exceed-action drop
    set dscp ef
class VVLAN-SIGNALING
    police 1000000 8000 exceed-action drop
    set dscp cs3
class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
class SIGNALING
    set dscp cs3
    police 1000000 8000 exceed-action drop
class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
!
!
!
interface Loopback0
    ip address 10.126.100.107 255.255.255.255
    no ip route-cache
!
interface Port-channel1
    description Connected to cr36-3750-Core-SS2
    switchport trunk native vlan 802
    switchport trunk allowed vlan 101-110
    switchport mode trunk
    ip arp inspection trust
    load-interval 30
    carrier-delay msec 0
    hold-queue 2000 in
    hold-queue 2000 out
    ip dhcp snooping trust
!
interface FastEthernet0/1
    description CONNECTED TO UNTRUSTED PC
    switchport access vlan 101
    switchport mode access
```

```
    switchport block unicast
    switchport port-security
    switchport port-security aging time 5
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    load-interval 30
    duplex full
    srr-queue bandwidth share 1 30 35 5
    priority-queue out
    storm-control broadcast level pps 1k
    storm-control multicast level pps 2k
    storm-control action trap
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy input UnTrusted-PC-Policy
    ip verify source
!
interface FastEthernet0/2
    description CONNECTED TO TRUSTED-PC
    switchport access vlan 102
    switchport mode access
    switchport block unicast
    switchport port-security
    switchport port-security aging time 5
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    duplex full
    srr-queue bandwidth share 1 30 35 5
    priority-queue out
    mls qos trust dscp
    storm-control broadcast level pps 1k
    storm-control multicast level pps 2k
    storm-control action trap
    spanning-tree portfast
    spanning-tree bpduguard enable
    ip verify source
!
interface FastEthernet0/3
    description CONNECTED TO PHONE
    switchport mode access
    switchport block unicast
    switchport voice vlan 103
    switchport port-security maximum 2
    switchport port-security maximum 1 vlan access
```

```
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security violation restrict
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
service-policy input Phone-Policy
ip verify source
!
interface FastEthernet0/4
description CONNECTED TO PHONE+PC
switchport access vlan 104
switchport mode access
switchport block unicast
switchport voice vlan 105
switchport port-security maximum 3
switchport port-security maximum 2 vlan access
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Phone+PC-Policy
ip verify source
!
interface FastEthernet0/5
description CONNECTED TO IPVS 2500 - CAMERA
switchport access vlan 106
switchport mode access
switchport block unicast
```

```
switchport port-security
ip arp inspection limit rate 100
duplex full
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/6
description CONNECTED TO IPVS 4500 - CAMERA
switchport access vlan 107
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/7
description CONNECTED TO DIGITAL MEDIA PLAYER
switchport access vlan 108
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/8
!
```

```
interface FastEthernet0/9
!
interface FastEthernet0/10
  description Connected to IXIA - ALM - 5/3
  switchport trunk native vlan 802
  switchport trunk allowed vlan 101-110
  switchport mode trunk
  ip arp inspection trust
  load-interval 30
  srr-queue bandwidth share 1 30 35 5
  priority-queue out
  mls qos trust dscp
  no cdp enable
  spanning-tree portfast trunk
  spanning-tree bpdufilter enable
  hold-queue 2000 in
  hold-queue 2000 out
  ip dhcp snooping trust
!
interface FastEthernet0/11
  description Connected to IXIA - STX - 6/3
  switchport trunk native vlan 802
  switchport trunk allowed vlan 101-110
  switchport mode trunk
  ip arp inspection trust
  load-interval 30
  srr-queue bandwidth share 1 30 35 5
  priority-queue out
  mls qos trust dscp
  no cdp enable
  spanning-tree portfast trunk
  spanning-tree bpdufilter enable
  hold-queue 2000 in
  hold-queue 2000 out
  ip dhcp snooping trust
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
```

```
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
!
interface FastEthernet0/25
!
interface FastEthernet0/26
!
interface FastEthernet0/27
!
interface FastEthernet0/28
!
interface FastEthernet0/29
!
interface FastEthernet0/30
!
interface FastEthernet0/31
!
interface FastEthernet0/32
!
interface FastEthernet0/33
!
interface FastEthernet0/34
!
interface FastEthernet0/35
!
interface FastEthernet0/36
!
interface FastEthernet0/37
!
interface FastEthernet0/38
!
interface FastEthernet0/39
!
```

```
interface FastEthernet0/40
!
interface FastEthernet0/41
!
interface FastEthernet0/42
!
interface FastEthernet0/43
!
interface FastEthernet0/44
!
interface FastEthernet0/45
!
interface FastEthernet0/46
!
interface FastEthernet0/47
!
interface FastEthernet0/48
  description Connected to FlashNet
  switchport access vlan 2
  switchport mode access
  load-interval 30
!
interface GigabitEthernet0/1
  description Connected to cr36-3750-Core-SS2
  switchport trunk native vlan 802
  switchport trunk allowed vlan 101-110
  switchport mode trunk
  ip arp inspection trust
  load-interval 30
  carrier-delay msec 0
  srr-queue bandwidth share 1 30 35 5
  priority-queue out
  uddld port
  mls qos trust dscp
  channel-protocol lacp
  channel-group 1 mode active
  ip dhcp snooping trust
!
interface GigabitEthernet0/2
  description Connected to cr36-3750-Core-SS2
  switchport trunk native vlan 802
  switchport trunk allowed vlan 101-110
  switchport mode trunk
  ip arp inspection trust
  load-interval 30
  carrier-delay msec 0
  srr-queue bandwidth share 1 30 35 5
  priority-queue out
  uddld port
  mls qos trust dscp
  channel-protocol lacp
  channel-group 1 mode active
  ip dhcp snooping trust
!
interface GigabitEthernet0/3
!
interface GigabitEthernet0/4
!
interface Vlan1
  no ip address
  no ip route-cache
  shutdown
!
interface Vlan2
  description Connected to FlashNet
  ip address 172.26.160.196 255.255.254.0
  no ip redirects
  no ip proxy-arp
  no ip route-cache
!
no ip http server
no ip http secure-server
!
ip access-list standard Allowed_MCAST_Groups
  permit 224.0.1.39
  permit 224.0.1.40
  permit 239.192.0.0 0.0.255.255
!
ip access-list extended BULK-DATA
  remark FTP
  permit tcp any any eq ftp
  permit tcp any any eq ftp-data
  remark SSH/SFTP
  permit tcp any any eq 22
  remark SMTP/SECURE SMTP
  permit tcp any any eq smtp
  permit tcp any any eq 465
  remark IMAP/SECURE IMAP
  permit tcp any any eq 143
  permit tcp any any eq 993
  remark POP3/SECURE POP3
  permit tcp any any eq pop3
```

```
permit tcp any any eq 995
remark CONNECTED PC BACKUP
permit tcp any eq 1914 any
ip access-list extended DEFAULT
remark EXPLICIT CLASS-DEFAULT
permit ip any any
ip access-list extended MULTIMEDIA-CONFERENCING
remark RTP
permit udp any any range 16384 32767
ip access-list extended PERMIT-SOURCES
permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255
ip access-list extended PXE
permit tcp any any established
permit udp any any eq bootps
permit udp any host 10.125.31.11 eq domain
permit udp any host 10.125.31.12 eq tftp
ip access-list extended SCAVENGER
remark KAZAA
permit tcp any any eq 1214
permit udp any any eq 1214
remark MICROSOFT DIRECT X GAMING
permit tcp any any range 2300 2400
permit udp any any range 2300 2400
remark APPLE ITUNES MUSIC SHARING
permit tcp any any eq 3689
permit udp any any eq 3689
remark BITTORRENT
permit tcp any any range 6881 6999
remark YAHOO GAMES
permit tcp any any eq 11999
remark MSN GAMING ZONE
permit tcp any any range 28800 29100
ip access-list extended SIGNALING
remark SCCP
permit tcp any any range 2000 2002
remark SIP
permit tcp any any range 5060 5061
permit udp any any range 5060 5061
ip access-list extended TRANSACTIONAL-DATA
remark HTTPS
permit tcp any any eq 443
remark ORACLE-SQL*NET
permit tcp any any eq 1521
permit udp any any eq 1521
remark ORACLE
permit tcp any any eq 1526
```

```
permit udp any any eq 1526
permit tcp any any eq 1575
permit udp any any eq 1575
permit tcp any any eq 1630
snmp-server community public RO
snmp-server community k12 RW
snmp-server trap-source Loopback0
snmp-server host 172.26.158.251 version 2c k12
radius-server dead-criteria time 15 tries 3
radius-server host 10.125.34.4 auth-port 1645 acct-port 1646 key 7
1511021F072567757A60
radius-server deadtime 1
!
control-plane
!
alias exec ct config t
alias exec srb sh run | begin
alias exec sri sh run int
alias exec cl clear logg
alias exec rib show ip route
alias exec ec sh etherchannel
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
!
line con 0
exec-timeout 0 0
password 7 121A0C041104
line vty 0 4
exec-timeout 0 0
password 7 121A0C041104
line vty 5 15
exec-timeout 0 0
!
ntp clock-period 36028943
ntp server 172.26.160.10
end

Cr36-3560-SS100
!
! Last configuration change at 13:38:21 EDT Thu Sep 3 2009 by cisco
! NVRAM config last updated at 13:38:44 EDT Thu Sep 3 2009 by cisco
!
version 12.2
```



```
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
service password-encryption
!
hostname cr36-3560-SS100
!
boot-start-marker
boot-end-marker
!
enable password 7 030752180500
!
aaa new-model
!
!
aaa authentication login default group radius enable line
aaa authentication dot1x default group radius
!
!
!
aaa session-id common
clock timezone EST -5
clock summer-time EDT recurring
system mtu routing 1500
vtp domain School-Site
vtp mode transparent
ip subnet-zero
ip routing
no ip domain-lookup
!
!
ip dhcp snooping vlan 111-120,202
no ip dhcp snooping information option
ip dhcp snooping
ip multicast-routing distributed
ip arp inspection vlan 111-120,202
ip arp inspection validate src-mac dst-mac ip allow zeros
!
mls qos map cos-dscp 0 8 16 24 32 46 48 56
mls qos srr-queue input bandwidth 70 30
mls qos srr-queue input threshold 1 80 90
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input dscp-map queue 1 threshold 2 24
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46
```

```
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28
30 34
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38
mls qos srr-queue output dscp-map queue 2 threshold 2 24
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56
mls qos srr-queue output dscp-map queue 3 threshold 3 0
mls qos srr-queue output dscp-map queue 4 threshold 1 8
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14
mls qos queue-set output 1 threshold 2 80 90 100 100
mls qos queue-set output 1 threshold 4 60 100 100 100
mls qos
!
crypto pki trustpoint HTTPS_SS_CERT_KEYPAIR
    enrollment selfsigned
    serial-number
    revocation-check none
    rsakeypair HTTPS_SS_CERT_KEYPAIR
!
!
crypto pki certificate chain HTTPS_SS_CERT_KEYPAIR
    certificate self-signed 01 nvram:5597A00hostn#2E2E.cer
dot1x system-auth-control
dot1x guest-vlan supplicant
!
!
!
errdisable recovery cause uddl
errdisable recovery cause bpduguard
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause storm-control
errdisable recovery cause arp-inspection
errdisable recovery interval 120
!
!
!
spanning-tree mode rapid-pvst
spanning-tree etherchannel guard misconfig
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 2
    name FlashNet_VLAN
!
vlan 111-120
!
```

```
vlan 202
  name Guest_VLAN
!
vlan 803
  name Hopping_VLAN
!
ip ftp username nimishguest
ip ftp password 7 082F48491C1C1603
!
class-map match-all BULK-DATA
  match access-group name BULK-DATA
class-map match-all VVLAN-SIGNALING
  match ip dscp cs3
class-map match-all MULTIMEDIA-CONFERENCING
  match access-group name MULTIMEDIA-CONFERENCING
class-map match-all DEFAULT
  match access-group name DEFAULT
class-map match-all SCAVENGER
  match access-group name SCAVENGER
class-map match-all SIGNALING
  match access-group name SIGNALING
class-map match-all VVLAN-VOIP
  match ip dscp ef
class-map match-all TRANSACTIONAL-DATA
  match access-group name TRANSACTIONAL-DATA
!
!
policy-map Phone-Policy
  class VVLAN-VOIP
    police 128000 8000 exceed-action drop
    set dscp ef
  class VVLAN-SIGNALING
    police 32000 8000 exceed-action drop
    set dscp cs3
policy-map UnTrusted-PC-Policy
  class class-default
    police 10000000 8000 exceed-action drop
    set dscp default
policy-map Trusted-PC-Policy
  class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
  class SIGNALING
    set dscp cs3
    police 32000 8000 exceed-action drop
  class TRANSACTIONAL-DATA
```

```
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
  class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
  class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
  class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
policy-map Phone+PC-Policy
  class VVLAN-VOIP
    police 128000 8000 exceed-action drop
    set dscp ef
  class VVLAN-SIGNALING
    police 32000 8000 exceed-action drop
    set dscp cs3
  class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
  class SIGNALING
    set dscp cs3
    police 1000000 8000 exceed-action drop
  class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
  class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
  class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
  class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
!
!
!
!
interface Loopback0
  ip address 10.126.100.108 255.255.255.255
!
interface Port-channel1
  description Connected to cr36-3750-Core-SS2
  switchport trunk encapsulation dot1q
```

```
switchport trunk native vlan 803
switchport trunk allowed vlan 111-120,202
switchport mode trunk
ip arp inspection trust
load-interval 30
carrier-delay msec 0
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface FastEthernet0
no ip address
no ip route-cache cef
no ip route-cache
no ip mroute-cache
shutdown
!
interface GigabitEthernet0/1
description CONNECTED TO UNTRUSTED PC
switchport access vlan 111
switchport mode access
switchport block unicast
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
load-interval 30
duplex full
srr-queue bandwidth share 1 30 35 5
priority-queue out
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input UnTrusted-PC-Policy
ip verify source
!
interface GigabitEthernet0/2
description CONNECTED TO TRUSTED-PC
switchport access vlan 112
switchport mode access
switchport block unicast
switchport port-security
switchport port-security aging time 5
```

```
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
duplex full
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source
!
interface GigabitEthernet0/3
description CONNECTED TO PHONE
switchport mode access
switchport block unicast
switchport voice vlan 113
switchport port-security maximum 2
switchport port-security maximum 1 vlan access
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security violation restrict
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
service-policy input Phone-Policy
ip verify source
!
interface GigabitEthernet0/4
description CONNECTED TO PHONE+PC
switchport access vlan 114
switchport mode access
switchport block unicast
switchport voice vlan 115
switchport port-security maximum 3
switchport port-security maximum 2 vlan access
switchport port-security maximum 1 vlan voice
switchport port-security
```

```
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input Phone+PC-Policy
ip verify source
!
interface GigabitEthernet0/5
description CONNECTED TO IPVS 2500 - CAMERA
switchport access vlan 116
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
duplex full
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet0/6
description CONNECTED TO IPVS 4500 - CAMERA
switchport access vlan 117
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
duplex full
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
```

```
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet0/7
description CONNECTED TO DIGITAL MEDIA PLAYER
switchport access vlan 118
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet0/8
!
interface GigabitEthernet0/9
!
interface GigabitEthernet0/10
description Connected to IXIA - ALM - 5/4
switchport trunk encapsulation dot1q
switchport trunk native vlan 803
switchport trunk allowed vlan 111-120
switchport mode trunk
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet0/11
description Connected to IXIA - STX - 6/4
switchport trunk encapsulation dot1q
switchport trunk native vlan 803
```

```
switchport trunk allowed vlan 111-120
switchport mode trunk
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdupfilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface GigabitEthernet0/12
!
interface GigabitEthernet0/13
!
interface GigabitEthernet0/14
!
interface GigabitEthernet0/15
!
interface GigabitEthernet0/16
!
interface GigabitEthernet0/17
!
interface GigabitEthernet0/18
!
interface GigabitEthernet0/19
!
interface GigabitEthernet0/20
!
interface GigabitEthernet0/21
!
interface GigabitEthernet0/22
!
interface GigabitEthernet0/23
!
interface GigabitEthernet0/24
!
interface GigabitEthernet0/25
!
interface GigabitEthernet0/26
!
interface GigabitEthernet0/27
!
```

```
interface GigabitEthernet0/28
!
interface GigabitEthernet0/29
!
interface GigabitEthernet0/30
!
interface GigabitEthernet0/31
!
interface GigabitEthernet0/32
!
interface GigabitEthernet0/33
!
interface GigabitEthernet0/34
!
interface GigabitEthernet0/35
!
interface GigabitEthernet0/36
!
interface GigabitEthernet0/37
!
interface GigabitEthernet0/38
!
interface GigabitEthernet0/39
!
interface GigabitEthernet0/40
!
interface GigabitEthernet0/41
!
interface GigabitEthernet0/42
!
interface GigabitEthernet0/43
!
interface GigabitEthernet0/44
!
interface GigabitEthernet0/45
!
interface GigabitEthernet0/46
!
interface GigabitEthernet0/47
!
interface GigabitEthernet0/48
description Connected to FlashNet
no switchport
ip address 172.26.160.197 255.255.255.0
no ip redirects
no ip proxy-arp
```

```
!  
interface GigabitEthernet0/49  
  description Connected to cr36-3750-Core-SS2  
  switchport trunk encapsulation dot1q  
  switchport trunk native vlan 803  
  switchport trunk allowed vlan 111-120,202  
  switchport mode trunk  
  ip arp inspection trust  
  load-interval 30  
  carrier-delay msec 0  
  srr-queue bandwidth share 1 30 35 5  
  priority-queue out  
  uddld port  
  mls qos trust dscp  
  channel-protocol lacp  
  channel-group 1 mode active  
  ip dhcp snooping trust  
!  
interface GigabitEthernet0/50  
  description Connected to cr36-3750-Core-SS2  
  switchport trunk encapsulation dot1q  
  switchport trunk native vlan 803  
  switchport trunk allowed vlan 111-120,202  
  switchport mode trunk  
  ip arp inspection trust  
  load-interval 30  
  carrier-delay msec 0  
  srr-queue bandwidth share 1 30 35 5  
  priority-queue out  
  uddld port  
  mls qos trust dscp  
  channel-protocol lacp  
  channel-group 1 mode active  
  ip dhcp snooping trust  
!  
interface GigabitEthernet0/51  
!  
interface GigabitEthernet0/52  
!  
interface TenGigabitEthernet0/1  
!  
interface TenGigabitEthernet0/2  
!  
interface Vlan1  
  no ip address  
  shutdown
```

```
!  
ip classless  
ip route 172.26.158.0 255.255.255.0 172.26.160.1  
no ip http server  
no ip http secure-server  
ip pim rp-address 10.125.100.100 Allowed_MCAST_Groups override  
ip pim spt-threshold infinity  
ip pim accept-register list PERMIT-SOURCES  
!  
!  
ip access-list standard Allowed_MCAST_Groups  
  permit 224.0.1.39  
  permit 224.0.1.40  
  permit 239.192.0.0 0.0.255.255  
!  
ip access-list extended BULK-DATA  
  remark FTP  
  permit tcp any any eq ftp  
  permit tcp any any eq ftp-data  
  remark SSH/SFTP  
  permit tcp any any eq 22  
  remark SMTP/SECURE SMTP  
  permit tcp any any eq smtp  
  permit tcp any any eq 465  
  remark IMAP/SECURE IMAP  
  permit tcp any any eq 143  
  permit tcp any any eq 993  
  remark POP3/SECURE POP3  
  permit tcp any any eq pop3  
  permit tcp any any eq 995  
  remark CONNECTED PC BACKUP  
  permit tcp any eq 1914 any  
ip access-list extended DEFAULT  
  remark EXPLICIT CLASS-DEFAULT  
  permit ip any any  
ip access-list extended MULTIMEDIA-CONFERENCING  
  remark RTP  
  permit udp any any range 16384 32767  
ip access-list extended PERMIT-SOURCES  
  permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255  
ip access-list extended PXE  
  permit tcp any any established  
  permit udp any any eq bootps  
  permit udp any host 10.125.31.11 eq domain  
  permit udp any host 10.125.31.12 eq tftp  
ip access-list extended SCAVENGER
```

```
remark KAZAA
permit tcp any any eq 1214
permit udp any any eq 1214
remark MICROSOFT DIRECT X GAMING
permit tcp any any range 2300 2400
permit udp any any range 2300 2400
remark APPLE ITUNES MUSIC SHARING
permit tcp any any eq 3689
permit udp any any eq 3689
remark BITTORRENT
permit tcp any any range 6881 6999
remark YAHOO GAMES
permit tcp any any eq 11999
remark MSN GAMING ZONE
permit tcp any any range 28800 29100
ip access-list extended SIGNALING
remark SCCP
permit tcp any any range 2000 2002
remark SIP
permit tcp any any range 5060 5061
permit udp any any range 5060 5061
ip access-list extended TRANSACTIONAL-DATA
remark HTTPS
permit tcp any any eq 443
remark ORACLE-SQL*NET
permit tcp any any eq 1521
permit udp any any eq 1521
remark ORACLE
permit tcp any any eq 1526
permit udp any any eq 1526
permit tcp any any eq 1575
permit udp any any eq 1575
permit tcp any any eq 1630
!
!
snmp-server community public RO
snmp-server community k12 RW
snmp-server trap-source Loopback0
snmp-server host 172.26.158.251 version 2c k12
radius-server dead-criteria time 15 tries 3
radius-server host 10.125.34.4 auth-port 1645 acct-port 1646 key 7
060506324F4145485744
radius-server deadtime 1
!
control-plane
!
```

```
alias exec ct config t
alias exec srb sh run | begin
alias exec sri sh run int
alias exec cl clear logg
alias exec rib show ip route
alias exec ec sh etherchannel
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
!
line con 0
  exec-timeout 0 0
  password 7 121A0C041104
line vty 0 4
  exec-timeout 0 0
  password 7 121A0C041104
line vty 5 15
  exec-timeout 0 0
!
ntp clock-period 36028803
ntp server 172.26.160.10
end
```

```
Cr36-3750-SS100
!
! Last configuration change at 13:40:57 EDT Thu Sep 3 2009
! NVRAM config last updated at 13:41:35 EDT Thu Sep 3 2009
!
version 12.2
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
service password-encryption
no service dhcp
!
hostname cr36-3750-SS100
!
boot-start-marker
boot-end-marker
!
enable password 7 104D000A0618
!
aaa new-model
!
```

```
!  
aaa authentication login default group radius enable line  
aaa authentication dot1x default group radius  
!  
!  
!  
aaa session-id common  
clock timezone EST -5  
clock summer-time EDT recurring  
switch 1 provision ws-c3750-24ts  
system mtu routing 1500  
vtp domain School-Site  
vtp mode transparent  
ip subnet-zero  
ip routing  
no ip domain-lookup  
!  
!  
ip dhcp snooping vlan 121-130  
no ip dhcp snooping information option  
ip dhcp snooping  
ip multicast-routing distributed  
ip arp inspection vlan 121-130  
ip arp inspection validate src-mac dst-mac ip allow zeros  
!  
mls qos map cos-dscp 0 8 16 24 32 46 48 56  
mls qos srr-queue input bandwidth 70 30  
mls qos srr-queue input threshold 1 80 90  
mls qos srr-queue input priority-queue 2 bandwidth 30  
mls qos srr-queue input dscp-map queue 1 threshold 2 24  
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56  
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46  
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46  
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28  
30 34  
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38  
mls qos srr-queue output dscp-map queue 2 threshold 2 24  
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56  
mls qos srr-queue output dscp-map queue 3 threshold 3 0  
mls qos srr-queue output dscp-map queue 4 threshold 1 8  
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14  
mls qos queue-set output 1 threshold 2 80 90 100 100  
mls qos queue-set output 1 threshold 4 60 100 100 100  
mls qos  
!  
!
```

```
dot1x system-auth-control  
dot1x guest-vlan supplicant  
!  
!  
!  
errdisable recovery cause udd  
errdisable recovery cause bpduguard  
errdisable recovery cause dhcp-rate-limit  
errdisable recovery cause storm-control  
errdisable recovery cause arp-inspection  
errdisable recovery interval 120  
port-channel load-balance src-dst-ip  
!  
!  
!  
spanning-tree mode rapid-pvst  
spanning-tree etherchannel guard misconfig  
spanning-tree extend system-id  
!  
vlan internal allocation policy ascending  
!  
vlan 121-130  
!  
vlan 203  
    name Guest_VLAN  
!  
vlan 804  
    name Hopping_VLAN  
!  
ip ftp username nimishguest  
ip ftp password 7 011D02034E0E151B  
!  
class-map match-all BULK-DATA  
    match access-group name BULK-DATA  
class-map match-all VVLAN-SIGNALING  
    match ip dscp cs3  
class-map match-all MULTIMEDIA-CONFERENCING  
    match access-group name MULTIMEDIA-CONFERENCING  
class-map match-all DEFAULT  
    match access-group name DEFAULT  
class-map match-all SCAVENGER  
    match access-group name SCAVENGER  
class-map match-all SIGNALING  
    match access-group name SIGNALING  
class-map match-all VVLAN-VOIP  
    match ip dscp ef
```



```
class-map match-all TRANSACTIONAL-DATA
  match access-group name TRANSACTIONAL-DATA
!
!
policy-map Phone-Policy
  class VVLAN-VOIP
    police 128000 8000 exceed-action drop
    set dscp ef
  class VVLAN-SIGNALING
    police 32000 8000 exceed-action drop
    set dscp cs3
policy-map UnTrusted-PC-Policy
  class class-default
    police 10000000 8000 exceed-action drop
    set dscp default
policy-map Trusted-PC-Policy
  class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
  class SIGNALING
    set dscp cs3
    police 32000 8000 exceed-action drop
  class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
  class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
  class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
  class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
policy-map PhonePolicy
  class VVLAN-VOIP
    police 128000 8000 exceed-action drop
    set dscp ef
  class VVLAN-SIGNALING
    police 32000 8000 exceed-action drop
    set dscp cs3
  class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
  class SIGNALING
    set dscp cs3
```

```
  police 1000000 8000 exceed-action drop
class TRANSACTIONAL-DATA
  set dscp af21
  police 10000000 8000 exceed-action policed-dscp-transmit
class BULK-DATA
  set dscp af11
  police 10000000 8000 exceed-action policed-dscp-transmit
class SCAVENGER
  set dscp cs1
  police 10000000 8000 exceed-action drop
class DEFAULT
  set dscp default
  police 10000000 8000 exceed-action policed-dscp-transmit
!
!
!
!
interface Loopback0
  ip address 10.126.100.109 255.255.255.255
!
interface Port-channel1
  description Conneted to cr36-3750-Core-SS2
  switchport trunk encapsulation dot1q
  switchport trunk native vlan 804
  switchport trunk allowed vlan 121-130
  switchport mode trunk
  ip arp inspection trust
  load-interval 30
  carrier-delay msec 0
  ip dhcp snooping trust
!
interface FastEthernet1/0/1
  description CONNECTED TO UNTRUSTED PC
  switchport access vlan 121
  switchport mode access
  switchport block unicast
  switchport port-security
  switchport port-security aging time 5
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  load-interval 30
  srr-queue bandwidth share 1 30 35 5
  priority-queue out
  storm-control broadcast level pps 1k
  storm-control multicast level pps 2k
```

```
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input UnTrusted-PC-Policy
ip verify source
!
interface FastEthernet1/0/2
description CONNECTED TO TRUSTED-PC
switchport access vlan 122
switchport mode access
switchport block unicast
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source
!
interface FastEthernet1/0/3
description CONNECTED TO PHONE
switchport mode access
switchport block unicast
switchport voice vlan 123
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security violation restrict
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
service-policy input Phone-Policy
ip verify source
!
```

```
interface FastEthernet1/0/4
description CONNECTED TO PHONE
switchport access vlan 124
switchport mode access
switchport block unicast
switchport voice vlan 125
switchport port-security maximum 3
switchport port-security maximum 2 vlan access
switchport port-security maximum 1 vlan voice
switchport port-security
switchport port-security aging time 5
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust device cisco-phone
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
service-policy input PhonePolicy
ip verify source
!
interface FastEthernet1/0/5
description CONNECTED TO IPVS 2500 - CAMERA
switchport access vlan 126
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet1/0/6
description CONNECTED TO IPVS 4500 - CAMERA
switchport access vlan 127
switchport mode access
```

```
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet1/0/7
description CONNECTED TO DIGITAL MEDIA PLAYER
switchport access vlan 128
switchport mode access
switchport block unicast
switchport port-security
ip arp inspection limit rate 100
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet1/0/8
!
interface FastEthernet1/0/9
!
interface FastEthernet1/0/10
description Connected to IXIA - ALM - 5/5
switchport trunk encapsulation dot1q
switchport trunk native vlan 804
switchport trunk allowed vlan 121-130
switchport mode trunk
switchport nonegotiate
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
```

```
spanning-tree bpdufilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface FastEthernet1/0/11
description Connected to IXIA - STX - 7/1
switchport trunk encapsulation dot1q
switchport trunk native vlan 804
switchport trunk allowed vlan 121-130
switchport mode trunk
switchport nonegotiate
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface FastEthernet1/0/12
!
interface FastEthernet1/0/13
!
interface FastEthernet1/0/14
!
interface FastEthernet1/0/15
!
interface FastEthernet1/0/16
!
interface FastEthernet1/0/17
!
interface FastEthernet1/0/18
!
interface FastEthernet1/0/19
!
interface FastEthernet1/0/20
!
interface FastEthernet1/0/21
!
interface FastEthernet1/0/22
!
```

```
interface FastEthernet1/0/23
!
interface FastEthernet1/0/24
 no switchport
 ip address 172.26.160.198 255.255.254.0
 no ip redirects
 no ip proxy-arp
!
interface GigabitEthernet1/0/1
 description Conncted to cr36-3750-Core-SS2
 switchport trunk encapsulation dot1q
 switchport trunk native vlan 804
 switchport trunk allowed vlan 121-130
 switchport mode trunk
 ip arp inspection trust
 load-interval 30
 carrier-delay msec 0
 srr-queue bandwidth share 1 30 35 5
 priority-queue out
 uddl port
 mls qos trust dscp
 channel-group 1 mode active
 hold-queue 2000 in
 hold-queue 2000 out
 ip dhcp snooping trust
!
interface GigabitEthernet1/0/2
 description Conncted to cr36-3750-Core-SS2
 switchport trunk encapsulation dot1q
 switchport trunk native vlan 804
 switchport trunk allowed vlan 121-130
 switchport mode trunk
 ip arp inspection trust
 load-interval 30
 carrier-delay msec 0
 srr-queue bandwidth share 1 30 35 5
 priority-queue out
 uddl port
 mls qos trust dscp
 channel-group 1 mode active
 hold-queue 2000 in
 hold-queue 2000 out
 ip dhcp snooping trust
!
interface Vlan1
 no ip address
```

```
shutdown
!
ip classless
ip route 172.26.158.0 255.255.255.0 172.26.160.1
no ip http server
no ip http secure-server
ip pim rp-address 10.125.100.100 Allowed_MCAST_Groups override
ip pim spt-threshold infinity
ip pim accept-register list PERMIT-SOURCES
!
!
ip access-list standard Allowed_MCAST_Groups
 permit 224.0.1.39
 permit 224.0.1.40
 permit 239.192.0.0 0.0.255.255
!
ip access-list extended BULK-DATA
 remark FTP
 permit tcp any any eq ftp
 permit tcp any any eq ftp-data
 remark SSH/SFTP
 permit tcp any any eq 22
 remark SMTP/SECURE SMTP
 permit tcp any any eq smtp
 permit tcp any any eq 465
 remark IMAP/SECURE IMAP
 permit tcp any any eq 143
 permit tcp any any eq 993
 remark POP3/SECURE POP3
 permit tcp any any eq pop3
 permit tcp any any eq 995
 remark CONNECTED PC BACKUP
 permit tcp any eq 1914 any
ip access-list extended DEFAULT
 remark EXPLICIT CLASS-DEFAULT
 permit ip any any
ip access-list extended MULTIMEDIA-CONFERENCING
 remark RTP
 permit udp any any range 16384 32767
ip access-list extended PERMIT-SOURCES
 permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255
ip access-list extended PXE
 permit tcp any any established
 permit udp any any eq bootps
 permit udp any host 10.125.31.11 eq domain
 permit udp any host 10.125.31.12 eq tftp
```

```
ip access-list extended SCAVENGER
 remark KAZAA
 permit tcp any any eq 1214
 permit udp any any eq 1214
 remark MICROSOFT DIRECT X GAMING
 permit tcp any any range 2300 2400
 permit udp any any range 2300 2400
 remark APPLE ITUNES MUSIC SHARING
 permit tcp any any eq 3689
 permit udp any any eq 3689
 remark BITTORRENT
 permit tcp any any range 6881 6999
 remark YAHOO GAMES
 permit tcp any any eq 11999
 remark MSN GAMING ZONE
 permit tcp any any range 28800 29100
ip access-list extended SIGNALING
 remark SCCP
 permit tcp any any range 2000 2002
 remark SIP
 permit tcp any any range 5060 5061
 permit udp any any range 5060 5061
ip access-list extended TRANSACTIONAL-DATA
 remark HTTPS
 permit tcp any any eq 443
 remark ORACLE-SQL*NET
 permit tcp any any eq 1521
 permit udp any any eq 1521
 remark ORACLE
 permit tcp any any eq 1526
 permit udp any any eq 1526
 permit tcp any any eq 1575
 permit udp any any eq 1575
 permit tcp any any eq 1630
!
!
snmp-server community public RO
snmp-server community k12 RW
snmp-server trap-source Loopback0
snmp-server host 172.26.158.251 version 2c k12
radius-server dead-criteria time 15 tries 3
radius-server deadtime 1
!
control-plane
!
alias exec ct config t
```

```
alias exec srb sh run | begin
alias exec sri sh run int
alias exec cl clear logg
alias exec rib show ip route
alias exec ec sh etherchannel
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
!
line con 0
 exec-timeout 0 0
 password 7 121A0C041104
line vty 0 4
 exec-timeout 0 0
 password 7 121A0C041104
line vty 5 15
 exec-timeout 0 0
!
ntp clock-period 36029151
ntp server 172.26.160.10
end
```

```
Cr36-3750r-SS100
!
! Last configuration change at 13:44:09 EDT Thu Sep 3 2009
! NVRAM config last updated at 13:45:28 EDT Thu Sep 3 2009
!
version 12.2
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
service password-encryption
!
hostname cr36-3750r-SS100
!
boot-start-marker
boot-end-marker
!
enable password 7 00071A150754
!
no aaa new-model
clock timezone EST -5
clock summer-time EDT recurring
switch 1 provision ws-c3750-24ts
```

```
switch 2 provision ws-c3750-24ts
stack-mac persistent timer 0
system mtu routing 1500
vtp domain School-Site
vtp mode transparent
ip subnet-zero
ip routing
no ip domain-lookup
!
!
ip multicast-routing distributed
!
mls qos map cos-dscp 0 8 16 24 32 46 48 56
mls qos srr-queue input bandwidth 70 30
mls qos srr-queue input threshold 1 80 90
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input dscp-map queue 1 threshold 2 24
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28
30 34
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38
mls qos srr-queue output dscp-map queue 2 threshold 2 24
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56
mls qos srr-queue output dscp-map queue 3 threshold 3 0
mls qos srr-queue output dscp-map queue 4 threshold 1 8
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14
mls qos queue-set output 1 threshold 2 80 90 100 100
mls qos queue-set output 1 threshold 4 60 100 100 100
mls qos
!
key chain eigrp-key
  key 1
    key-string 7 14141B180F0B
!
!
!
!
!
errdisable recovery cause udd
errdisable recovery cause bpdguard
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause storm-control
errdisable recovery cause arp-inspection
errdisable recovery interval 120
```

```
port-channel load-balance src-dst-ip
!
!
!
spanning-tree mode rapid-pvst
spanning-tree etherchannel guard misconfig
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 2
  name FlashNet_VLAN
!
vlan 11
!
ip ftp username nimishguest
ip ftp password 7 000A1701115E1812
!
class-map match-all BULK-DATA
  match access-group name BULK-DATA
class-map match-all VVLAN-SIGNALING
  match ip dscp cs3
class-map match-all MULTIMEDIA-CONFERENCING
  match access-group name MULTIMEDIA-CONFERENCING
class-map match-all DEFAULT
  match access-group name DEFAULT
class-map match-all SCAVENGER
  match access-group name SCAVENGER
class-map match-all SIGNALING
  match access-group name SIGNALING
class-map match-all VVLAN-VOIP
  match ip dscp ef
class-map match-all TRANSACTIONAL-DATA
  match access-group name TRANSACTIONAL-DATA
!
!
policy-map Phone-Policy
  class VVLAN-VOIP
    police 128000 8000 exceed-action drop
    set dscp ef
  class VVLAN-SIGNALING
    police 32000 8000 exceed-action drop
    set dscp cs3
policy-map UnTrusted-PC-Policy
  class class-default
    police 10000000 8000 exceed-action drop
```

```
    set dscp default
policy-map Trusted-PC-Policy
class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
class SIGNALING
    set dscp cs3
    police 32000 8000 exceed-action drop
class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
policy-map PhonePolicy
class VVLAN-VOIP
    police 128000 8000 exceed-action drop
    set dscp ef
class VVLAN-SIGNALING
    police 32000 8000 exceed-action drop
    set dscp cs3
class MULTIMEDIA-CONFERENCING
    set dscp af41
    police 5000000 8000 exceed-action drop
class SIGNALING
    set dscp cs3
    police 1000000 8000 exceed-action drop
class TRANSACTIONAL-DATA
    set dscp af21
    police 10000000 8000 exceed-action policed-dscp-transmit
class BULK-DATA
    set dscp af11
    police 10000000 8000 exceed-action policed-dscp-transmit
class SCAVENGER
    set dscp cs1
    police 10000000 8000 exceed-action drop
class DEFAULT
    set dscp default
    police 10000000 8000 exceed-action policed-dscp-transmit
!
```

```
!
!
!
interface Loopback0
    ip address 10.126.100.110 255.255.255.255
!
interface Port-channel1
    description Connected to cr36-3750s-SS100
    no switchport
    dampening
    ip address 10.127.119.194 255.255.255.192
    ip pim sparse-mode
    ip hold-time eigrp 100 20
    ip authentication mode eigrp 100 md5
    ip authentication key-chain eigrp 100 eigrp-key
    load-interval 30
    carrier-delay msec 0
    hold-queue 2000 in
    hold-queue 2000 out
!
interface FastEthernet1/0/1
!
interface FastEthernet1/0/2
!
interface FastEthernet1/0/3
!
interface FastEthernet1/0/4
!
interface FastEthernet1/0/5
!
interface FastEthernet1/0/6
!
interface FastEthernet1/0/7
!
interface FastEthernet1/0/8
!
interface FastEthernet1/0/9
!
interface FastEthernet1/0/10
    description Connected to IXIA - ALM - 5/6
    switchport trunk encapsulation dot1q
    switchport trunk allowed vlan 11
    switchport mode trunk
    switchport nonegotiate
    ip arp inspection trust
    load-interval 30
```

```
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdupfilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface FastEthernet1/0/11
description Connected to IXIA - STX - 7/2
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 11
switchport mode trunk
switchport nonegotiate
ip arp inspection trust
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdupfilter enable
hold-queue 2000 in
hold-queue 2000 out
ip dhcp snooping trust
!
interface FastEthernet1/0/12
!
interface FastEthernet1/0/13
!
interface FastEthernet1/0/14
!
interface FastEthernet1/0/15
!
interface FastEthernet1/0/16
!
interface FastEthernet1/0/17
!
interface FastEthernet1/0/18
!
interface FastEthernet1/0/19
!
interface FastEthernet1/0/20
!
```

```
interface FastEthernet1/0/21
!
interface FastEthernet1/0/22
!
interface FastEthernet1/0/23
!
interface FastEthernet1/0/24
description FlashNet - DO NOT ROUTE
switchport access vlan 2
switchport mode access
load-interval 30
spanning-tree portfast
!
interface GigabitEthernet1/0/1
description Connected to cr36-3750s-SS100
no switchport
dampening
no ip address
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol lacp
channel-group 1 mode active
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet1/0/2
!
interface FastEthernet2/0/1
!
interface FastEthernet2/0/2
!
interface FastEthernet2/0/3
!
interface FastEthernet2/0/4
!
interface FastEthernet2/0/5
!
interface FastEthernet2/0/6
!
interface FastEthernet2/0/7
!
interface FastEthernet2/0/8
```



```
!
interface FastEthernet2/0/9
!
interface FastEthernet2/0/10
!
interface FastEthernet2/0/11
!
interface FastEthernet2/0/12
!
interface FastEthernet2/0/13
!
interface FastEthernet2/0/14
!
interface FastEthernet2/0/15
!
interface FastEthernet2/0/16
!
interface FastEthernet2/0/17
!
interface FastEthernet2/0/18
!
interface FastEthernet2/0/19
!
interface FastEthernet2/0/20
!
interface FastEthernet2/0/21
!
interface FastEthernet2/0/22
!
interface FastEthernet2/0/23
!
interface FastEthernet2/0/24
  description FlashNet - DO NOT ROUTE
  switchport access vlan 2
  switchport mode access
  load-interval 30
  spanning-tree portfast
!
interface GigabitEthernet2/0/1
  description Connected to cr36-3750s-SS100
  no switchport
  dampening
  no ip address
  load-interval 30
  carrier-delay msec 0
  srr-queue bandwidth share 1 30 35 5

  priority-queue out
  uddld port
  mls qos trust dscp
  channel-protocol lacp
  channel-group 1 mode active
  hold-queue 2000 in
  hold-queue 2000 out
!
interface GigabitEthernet2/0/2
!
interface Vlan1
  ip address dhcp
  shutdown
!
interface Vlan2
  description FlashNet - DO NOT ROUTE
  ip address 172.26.160.221 255.255.254.0
  no ip redirects
  no ip proxy-arp
!
interface Vlan11
  dampening
  ip address 10.127.119.129 255.255.255.192
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachable
  ip pim sparse-mode
  load-interval 30
!
!
router eigrp 100
  passive-interface default
  no passive-interface Port-channel1
  no auto-summary
  eigrp router-id 10.126.100.110
  eigrp stub connected
  network 10.127.0.0 0.0.255.255
  nsf
!
ip classless
ip route 172.26.158.0 255.255.255.0 172.26.160.1
no ip http server
no ip http secure-server
ip pim rp-address 10.125.100.100 Allowed_MCAST_Groups override
ip pim spt-threshold infinity
ip pim accept-register list PERMIT-SOURCES
```

```
!  
!  
ip access-list standard Allowed_MCAST_Groups  
  permit 224.0.1.39  
  permit 224.0.1.40  
  permit 239.192.0.0 0.0.255.255  
!  
ip access-list extended BULK-DATA  
  remark FTP  
  permit tcp any any eq ftp  
  permit tcp any any eq ftp-data  
  remark SSH/SFTP  
  permit tcp any any eq 22  
  remark SMTP/SECURE SMTP  
  permit tcp any any eq smtp  
  permit tcp any any eq 465  
  remark IMAP/SECURE IMAP  
  permit tcp any any eq 143  
  permit tcp any any eq 993  
  remark POP3/SECURE POP3  
  permit tcp any any eq pop3  
  permit tcp any any eq 995  
  remark CONNECTED PC BACKUP  
  permit tcp any eq 1914 any  
ip access-list extended DEFAULT  
  remark EXPLICIT CLASS-DEFAULT  
  permit ip any any  
ip access-list extended MULTIMEDIA-CONFERENCING  
  remark RTP  
  permit udp any any range 16384 32767  
ip access-list extended PERMIT-SOURCES  
  permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255  
ip access-list extended PXE  
  permit tcp any any established  
  permit udp any any eq bootps  
  permit udp any host 10.125.31.11 eq domain  
  permit udp any host 10.125.31.12 eq tftp  
ip access-list extended SCAVENGER  
  remark KAZAA  
  permit tcp any any eq 1214  
  permit udp any any eq 1214  
  remark MICROSOFT DIRECT X GAMING  
  permit tcp any any range 2300 2400  
  permit udp any any range 2300 2400  
  remark APPLE ITUNES MUSIC SHARING  
  permit tcp any any eq 3689
```

```
  permit udp any any eq 3689  
  remark BITTORRENT  
  permit tcp any any range 6881 6999  
  remark YAHOO GAMES  
  permit tcp any any eq 11999  
  remark MSN GAMING ZONE  
  permit tcp any any range 28800 29100  
ip access-list extended SIGNALING  
  remark SCCP  
  permit tcp any any range 2000 2002  
  remark SIP  
  permit tcp any any range 5060 5061  
  permit udp any any range 5060 5061  
ip access-list extended TRANSACTIONAL-DATA  
  remark HTTPS  
  permit tcp any any eq 443  
  remark ORACLE-SQL*NET  
  permit tcp any any eq 1521  
  permit udp any any eq 1521  
  remark ORACLE  
  permit tcp any any eq 1526  
  permit udp any any eq 1526  
  permit tcp any any eq 1575  
  permit udp any any eq 1575  
  permit tcp any any eq 1630  
!  
!  
snmp-server community public RO  
snmp-server community k12 RW  
snmp-server trap-source Loopback0  
snmp-server host 172.26.158.251 version 2c k12  
!  
control-plane  
!  
alias exec ct config t  
alias exec srb sh run | begin  
alias exec sri sh run int  
alias exec cl clear logg  
alias exec rib show ip route  
alias exec ec sh etherchannel  
alias exec cc clea count  
alias exec sac sh access-list  
alias exec cpu show proc c s | inc CPU  
alias exec sin show ip int brief | ex unassi  
!  
line con 0
```

```
exec-timeout 0 0
password 7 121A0C041104
line vty 0 4
exec-timeout 0 0
password 7 121A0C041104
login
line vty 5 15
exec-timeout 0 0
no login
!
ntp clock-period 36029246
ntp server 172.26.160.10
end
```

Core/Distribution/WAN Edge

```
Cr36-3750s-SS100
!
! Last configuration change at 13:37:04 EDT Thu Sep 3 2009
! NVRAM config last updated at 13:37:12 EDT Thu Sep 3 2009
!
version 12.2
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
service password-encryption
!
hostname cr36-3750s-SS100
!
boot-start-marker
boot-end-marker
!
enable password 7 01100F175804
!
aaa new-model
!
!
aaa authentication login default group radius enable line
aaa authentication dot1x default group radius
!
!
!
aaa session-id common
clock timezone EST -5
```

```
clock summer-time EDT recurring
switch 1 provision ws-c3750e-48pd
switch 2 provision ws-c3750e-48pd
switch 3 provision ws-c3750e-48pd
stack-mac persistent timer 0
system mtu routing 1500
vtp domain School-Site
vtp mode transparent
ip subnet-zero
ip routing
no ip domain-lookup
!
!
ip multicast-routing distributed
!
mls qos map cos-dscp 0 8 16 24 32 46 48 56
mls qos srr-queue input bandwidth 70 30
mls qos srr-queue input threshold 1 80 90
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input dscp-map queue 1 threshold 2 24
mls qos srr-queue input dscp-map queue 1 threshold 3 48 56
mls qos srr-queue input dscp-map queue 2 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 1 threshold 3 32 40 46
mls qos srr-queue output dscp-map queue 2 threshold 1 16 18 20 22 26 28
30 34
mls qos srr-queue output dscp-map queue 2 threshold 1 36 38
mls qos srr-queue output dscp-map queue 2 threshold 2 24
mls qos srr-queue output dscp-map queue 2 threshold 3 48 56
mls qos srr-queue output dscp-map queue 3 threshold 3 0
mls qos srr-queue output dscp-map queue 4 threshold 1 8
mls qos srr-queue output dscp-map queue 4 threshold 2 10 12 14
mls qos queue-set output 1 threshold 2 80 90 100 100
mls qos queue-set output 1 threshold 4 60 100 100 100
mls qos
!
key chain eigrp-key
key 1
key-string 7 05080F1C2243
!
crypto pki trustpoint TP-self-signed-3197398400
enrollment selfsigned
subject-name cn=IOS-Self-Signed-Certificate-3197398400
revocation-check none
rsakeypair TP-self-signed-3197398400
!
!
```

```
crypto pki certificate chain TP-self-signed-3197398400
  certificate self-signed 01 nvram:IOS-Self-Sig#3030.cer
dot1x system-auth-control
dot1x guest-vlan supplicant
!
!
!
errdisable recovery cause udd
errdisable recovery cause bpduguard
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause storm-control
errdisable recovery cause arp-inspection
errdisable recovery interval 120
port-channel load-balance src-dst-ip
!
!
!
spanning-tree mode rapid-pvst
spanning-tree etherchannel guard misconfig
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 2
  name FlashNet_VLAN
!
vlan 101
  name cr36_2960_Dept1
!
vlan 102
  name cr36_2960_Dept2
!
vlan 103
  name cr36_2960_Dept3
!
vlan 104
  name cr36_2960_Dept4
!
vlan 105
  name cr36_2960_Dept5
!
vlan 106
  name cr36_2960_Dept6
!
vlan 107
  name cr36_2960_Dept7
```

```
!
vlan 108
  name cr36_2960_Dept8
!
vlan 109
  name cr36_2960_Dept9
!
vlan 110
  name cr36_2960_Dept10
!
vlan 111
  name cr36_3560_Dept11
!
vlan 112
  name cr36_3560_Dept12
!
vlan 113
  name cr36_3560_Dept13
!
vlan 114
  name cr36_3560_Dept14
!
vlan 115
  name cr36_3560_Dept15
!
vlan 116
  name cr36_3560_Dept16
!
vlan 117
  name cr36_3560_Dept17
!
vlan 118
  name cr36_3560_Dept18
!
vlan 119
  name cr36_3560_Dept19
!
vlan 120
  name cr36_3560_Dept20
!
vlan 121
  name cr36_3750_Dept21
!
vlan 122
  name cr36_3750_Dept22
!
```

```
vlan 123
  name cr36_3750_Dept23
!
vlan 124
  name cr36_3750_Dept24
!
vlan 125
  name cr36_3750_Dept25
!
vlan 126
  name cr36_3750_Dept26
!
vlan 127
  name cr36_3750_Dept27
!
vlan 128
  name cr36_3750_Dept28
!
vlan 129
  name cr36_3750_Dept29
!
vlan 130
  name cr36_3750_Dept30
!
vlan 650
  name cr24_3750ME_DO
!
vlan 801
  name MetroE_Hopping_VLAN
!
vlan 802
  name cr36_2960_Hopping_VLAN
!
vlan 803
  name cr36_3560_Hopping_VLAN
!
vlan 804
  name cr36_3750_Hopping_VLAN
!
vlan 900
  name Mgmt_VLAN
!
ip ftp username nimishguest
ip ftp password 7 000A1701115E1812
!
!
```

```
!
interface Loopback0
  ip address 10.126.100.106 255.255.255.255
!
interface Port-channel11
  description Connected to cr36-2960-SS2
  switchport trunk encapsulation dot1q
  switchport trunk native vlan 802
  switchport trunk allowed vlan 101-110,900
  switchport mode trunk
  load-interval 30
  carrier-delay msec 0
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Port-channel12
  description Connected to cr36-3560-SS2
  switchport trunk encapsulation dot1q
  switchport trunk native vlan 803
  switchport trunk allowed vlan 111-120,900
  switchport mode trunk
  load-interval 30
  carrier-delay msec 0
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Port-channel13
  description Connected to cr36-3750-SS2
  switchport trunk encapsulation dot1q
  switchport trunk native vlan 804
  switchport trunk allowed vlan 121-130,900
  switchport mode trunk
  load-interval 30
  carrier-delay msec 0
  hold-queue 2000 in
  hold-queue 2000 out
!
interface Port-channel14
  description Connected to cr36-3750r-SS2
  no switchport
  dampening
  ip address 10.127.119.193 255.255.255.192
  ip pim sparse-mode
  ip hold-time eigrp 100 20
  ip authentication mode eigrp 100 md5
  ip authentication key-chain eigrp 100 eigrp-key
```

```
ip summary-address eigrp 100 10.127.112.0 255.255.248.0 5
load-interval 30
carrier-delay msec 0
hold-queue 2000 in
hold-queue 2000 out
!
interface FastEthernet0
no ip address
no ip route-cache cef
no ip route-cache
no ip mroute-cache
shutdown
!
interface GigabitEthernet1/0/1
!
interface GigabitEthernet1/0/2
description Connected to MetroE-Core-cr24-6500-1
switchport trunk encapsulation dot1q
switchport trunk native vlan 801
switchport trunk allowed vlan 650
switchport mode trunk
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpdufilter enable
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet1/0/3
!
interface GigabitEthernet1/0/4
!
interface GigabitEthernet1/0/5
!
interface GigabitEthernet1/0/6
!
interface GigabitEthernet1/0/7
!
interface GigabitEthernet1/0/8
!
interface GigabitEthernet1/0/9
!
```

```
interface GigabitEthernet1/0/10
!
interface GigabitEthernet1/0/11
!
interface GigabitEthernet1/0/12
!
interface GigabitEthernet1/0/13
!
interface GigabitEthernet1/0/14
!
interface GigabitEthernet1/0/15
!
interface GigabitEthernet1/0/16
!
interface GigabitEthernet1/0/17
!
interface GigabitEthernet1/0/18
!
interface GigabitEthernet1/0/19
!
interface GigabitEthernet1/0/20
!
interface GigabitEthernet1/0/21
!
interface GigabitEthernet1/0/22
!
interface GigabitEthernet1/0/23
!
interface GigabitEthernet1/0/24
!
interface GigabitEthernet1/0/25
!
interface GigabitEthernet1/0/26
!
interface GigabitEthernet1/0/27
!
interface GigabitEthernet1/0/28
!
interface GigabitEthernet1/0/29
!
interface GigabitEthernet1/0/30
!
interface GigabitEthernet1/0/31
!
interface GigabitEthernet1/0/32
!
```

```
interface GigabitEthernet1/0/33
!
interface GigabitEthernet1/0/34
!
interface GigabitEthernet1/0/35
!
interface GigabitEthernet1/0/36
!
interface GigabitEthernet1/0/37
!
interface GigabitEthernet1/0/38
!
interface GigabitEthernet1/0/39
!
interface GigabitEthernet1/0/40
!
interface GigabitEthernet1/0/41
!
interface GigabitEthernet1/0/42
!
interface GigabitEthernet1/0/43
!
interface GigabitEthernet1/0/44
!
interface GigabitEthernet1/0/45
!
interface GigabitEthernet1/0/46
!
interface GigabitEthernet1/0/47
!
interface GigabitEthernet1/0/48
description Connected to FlashNet
switchport access vlan 2
switchport mode access
load-interval 30
!
interface GigabitEthernet1/0/49
description Connected to cr36-2960-SS100
switchport trunk encapsulation dot1q
switchport trunk native vlan 802
switchport trunk allowed vlan 101-110,900
switchport mode trunk
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
```

```
udld port
mls qos trust dscp
channel-protocol lacp
channel-group 11 mode active
spanning-tree guard root
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet1/0/50
description Connected to cr36-3560-SS2
switchport trunk encapsulation dot1q
switchport trunk native vlan 803
switchport trunk allowed vlan 111-120,900
switchport mode trunk
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol lacp
channel-group 12 mode active
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet1/0/51
description Connected to cr36-3750-SS2
switchport trunk encapsulation dot1q
switchport trunk native vlan 804
switchport trunk allowed vlan 121-130,900
switchport mode trunk
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol lacp
channel-group 13 mode active
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet1/0/52
description Connected to cr36-3750r-SS100
no switchport
dampening
```

```
no ip address
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol lacp
channel-group 14 mode active
hold-queue 2000 in
hold-queue 2000 out
!
interface TenGigabitEthernet1/0/1
!
interface TenGigabitEthernet1/0/2
!
interface GigabitEthernet2/0/1
srr-queue bandwidth share 1 30 35 5
priority-queue out
mls qos trust dscp
!
interface GigabitEthernet2/0/2
description Connected to MetroE-Core-cr24-6500-1
switchport trunk encapsulation dot1q
switchport trunk native vlan 801
switchport trunk allowed vlan 650
switchport mode trunk
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
srr-queue bandwidth shape 35 15 25 25
srr-queue bandwidth limit 10
priority-queue out
mls qos trust dscp
no cdp enable
spanning-tree portfast trunk
spanning-tree bpduguard enable
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet2/0/3
!
interface GigabitEthernet2/0/4
!
interface GigabitEthernet2/0/5
!
interface GigabitEthernet2/0/6
```

```
!
interface GigabitEthernet2/0/7
!
interface GigabitEthernet2/0/8
!
interface GigabitEthernet2/0/9
!
interface GigabitEthernet2/0/10
!
interface GigabitEthernet2/0/11
!
interface GigabitEthernet2/0/12
!
interface GigabitEthernet2/0/13
!
interface GigabitEthernet2/0/14
!
interface GigabitEthernet2/0/15
!
interface GigabitEthernet2/0/16
!
interface GigabitEthernet2/0/17
!
interface GigabitEthernet2/0/18
!
interface GigabitEthernet2/0/19
!
interface GigabitEthernet2/0/20
!
interface GigabitEthernet2/0/21
!
interface GigabitEthernet2/0/22
!
interface GigabitEthernet2/0/23
!
interface GigabitEthernet2/0/24
!
interface GigabitEthernet2/0/25
!
interface GigabitEthernet2/0/26
!
interface GigabitEthernet2/0/27
!
interface GigabitEthernet2/0/28
!
interface GigabitEthernet2/0/29
```



```
!  
interface GigabitEthernet2/0/30  
!  
interface GigabitEthernet2/0/31  
!  
interface GigabitEthernet2/0/32  
!  
interface GigabitEthernet2/0/33  
!  
interface GigabitEthernet2/0/34  
!  
interface GigabitEthernet2/0/35  
!  
interface GigabitEthernet2/0/36  
!  
interface GigabitEthernet2/0/37  
!  
interface GigabitEthernet2/0/38  
!  
interface GigabitEthernet2/0/39  
!  
interface GigabitEthernet2/0/40  
!  
interface GigabitEthernet2/0/41  
!  
interface GigabitEthernet2/0/42  
!  
interface GigabitEthernet2/0/43  
!  
interface GigabitEthernet2/0/44  
!  
interface GigabitEthernet2/0/45  
!  
interface GigabitEthernet2/0/46  
!  
interface GigabitEthernet2/0/47  
!  
interface GigabitEthernet2/0/48  
  description Connected to FlashNet  
  switchport access vlan 2  
  switchport mode access  
  load-interval 30  
!  
interface GigabitEthernet2/0/49  
!  
interface GigabitEthernet2/0/50
```

```
!  
interface GigabitEthernet2/0/51  
!  
interface GigabitEthernet2/0/52  
!  
interface TenGigabitEthernet2/0/1  
!  
interface TenGigabitEthernet2/0/2  
!  
interface GigabitEthernet3/0/1  
!  
interface GigabitEthernet3/0/2  
!  
interface GigabitEthernet3/0/3  
!  
interface GigabitEthernet3/0/4  
!  
interface GigabitEthernet3/0/5  
!  
interface GigabitEthernet3/0/6  
!  
interface GigabitEthernet3/0/7  
!  
interface GigabitEthernet3/0/8  
!  
interface GigabitEthernet3/0/9  
!  
interface GigabitEthernet3/0/10  
!  
interface GigabitEthernet3/0/11  
!  
interface GigabitEthernet3/0/12  
!  
interface GigabitEthernet3/0/13  
!  
interface GigabitEthernet3/0/14  
!  
interface GigabitEthernet3/0/15  
!  
interface GigabitEthernet3/0/16  
!  
interface GigabitEthernet3/0/17  
!  
interface GigabitEthernet3/0/18  
!  
interface GigabitEthernet3/0/19
```

```
!  
interface GigabitEthernet3/0/20  
!  
interface GigabitEthernet3/0/21  
!  
interface GigabitEthernet3/0/22  
!  
interface GigabitEthernet3/0/23  
!  
interface GigabitEthernet3/0/24  
!  
interface GigabitEthernet3/0/25  
!  
interface GigabitEthernet3/0/26  
!  
interface GigabitEthernet3/0/27  
!  
interface GigabitEthernet3/0/28  
!  
interface GigabitEthernet3/0/29  
!  
interface GigabitEthernet3/0/30  
!  
interface GigabitEthernet3/0/31  
!  
interface GigabitEthernet3/0/32  
!  
interface GigabitEthernet3/0/33  
!  
interface GigabitEthernet3/0/34  
!  
interface GigabitEthernet3/0/35  
!  
interface GigabitEthernet3/0/36  
!  
interface GigabitEthernet3/0/37  
!  
interface GigabitEthernet3/0/38  
!  
interface GigabitEthernet3/0/39  
!  
interface GigabitEthernet3/0/40  
!  
interface GigabitEthernet3/0/41  
!  
interface GigabitEthernet3/0/42
```

```
!  
interface GigabitEthernet3/0/43  
!  
interface GigabitEthernet3/0/44  
!  
interface GigabitEthernet3/0/45  
!  
interface GigabitEthernet3/0/46  
!  
interface GigabitEthernet3/0/47  
!  
interface GigabitEthernet3/0/48  
description Connected to FlashNet  
switchport access vlan 2  
switchport mode access  
load-interval 30  
!  
interface GigabitEthernet3/0/49  
description Connected to cr36-2960-SS100  
switchport trunk encapsulation dot1q  
switchport trunk native vlan 802  
switchport trunk allowed vlan 101-110,900  
switchport mode trunk  
load-interval 30  
carrier-delay msec 0  
srr-queue bandwidth share 1 30 35 5  
priority-queue out  
udld port  
mls qos trust dscp  
channel-protocol lacp  
channel-group 11 mode active  
hold-queue 2000 in  
hold-queue 2000 out  
!  
interface GigabitEthernet3/0/50  
description Connected to cr36-3560-SS2  
switchport trunk encapsulation dot1q  
switchport trunk native vlan 803  
switchport trunk allowed vlan 111-120,900  
switchport mode trunk  
load-interval 30  
carrier-delay msec 0  
srr-queue bandwidth share 1 30 35 5  
priority-queue out  
udld port  
mls qos trust dscp
```

```
channel-protocol lacp
channel-group 12 mode active
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet3/0/51
description Connected to cr36-3750-SS2
switchport trunk encapsulation dot1q
switchport trunk native vlan 804
switchport trunk allowed vlan 121-130,900
switchport mode trunk
load-interval 30
carrier-delay msec 0
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol lacp
channel-group 13 mode active
hold-queue 2000 in
hold-queue 2000 out
!
interface GigabitEthernet3/0/52
description Connected to cr36-3750r-SS100
no switchport
dampening
no ip address
load-interval 30
srr-queue bandwidth share 1 30 35 5
priority-queue out
udld port
mls qos trust dscp
channel-protocol lacp
channel-group 14 mode active
spanning-tree portfast trunk
spanning-tree bpdupfilter enable
hold-queue 2000 in
hold-queue 2000 out
!
interface TenGigabitEthernet3/0/1
!
interface TenGigabitEthernet3/0/2
!
interface Vlan1
no ip address
shutdown
```

```
!
interface Vlan2
description Connected to FlashNet
ip address 172.26.160.195 255.255.254.0
no ip redirects
no ip proxy-arp
load-interval 30
!
interface Vlan101
description Connected to cr36_2960_Dept_1_VLAN
dampening
ip address 10.127.112.1 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan102
description Connected to cr36_2960_Dept_2_VLAN
dampening
ip address 10.127.112.65 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan103
description Connected to cr36_2960_Dept_3_VLAN
dampening
ip address 10.127.112.129 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
load-interval 30
!
interface Vlan104
description Connected to cr36_2960_Dept_4_VLAN
dampening
ip address 10.127.112.193 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachableables
ip pim sparse-mode
```

```
load-interval 30
!
interface Vlan105
description Connected to cr36_2960_Dept_5_VLAN
dampening
ip address 10.127.113.1 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan106
description Connected to cr36_2960_Dept_6_VLAN
dampening
ip address 10.127.113.65 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan107
description Connected to cr36_2960_Dept_7_VLAN
dampening
ip address 10.127.113.129 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan108
description Connected to cr36_2960_Dept_8_VLAN
dampening
ip address 10.127.113.193 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan109
description Connected to cr36_2960_Dept_9_VLAN
dampening
ip address 10.127.114.1 255.255.255.192
```

```
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan110
description Connected to cr36_2960_Dept_10_VLAN
dampening
ip address 10.127.114.65 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan111
description Connected to cr36_3560_Dept_1_VLAN
dampening
ip address 10.127.114.129 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan112
description Connected to cr36_3560_Dept_2_VLAN
dampening
ip address 10.127.114.193 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan113
description Connected to cr36_3560_Dept_3_VLAN
dampening
ip address 10.127.115.1 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
```

```
interface Vlan114
  description Connected to cr36_3560_Dept_4_VLAN
  dampening
  ip address 10.127.115.65 255.255.255.192
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan115
  description Connected to cr36_3560_Dept_5_VLAN
  dampening
  ip address 10.127.115.129 255.255.255.192
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan116
  description Connected to cr36_3560_Dept_6_VLAN
  dampening
  ip address 10.127.115.193 255.255.255.192
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan117
  description Connected to cr36_3560_Dept_7_VLAN
  dampening
  ip address 10.127.116.1 255.255.255.192
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan118
  description Connected to cr36_3560_Dept_8_VLAN
  dampening
  ip address 10.127.116.65 255.255.255.192
  ip helper-address 10.125.31.2
  no ip redirects
```

```
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan119
  description Connected to cr36_3560_Dept_9_VLAN
  dampening
  ip address 10.127.116.129 255.255.255.192
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan120
  description Connected to cr36_3560_Dept_10_VLAN
  dampening
  ip address 10.127.116.193 255.255.255.192
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan121
  description Connected to cr36_3750_Dept_1_VLAN
  dampening
  ip address 10.127.117.1 255.255.255.192
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan122
  description Connected to cr36_3750_Dept_2_VLAN
  dampening
  ip address 10.127.117.65 255.255.255.192
  ip helper-address 10.125.31.2
  no ip redirects
  no ip unreachableables
  ip pim sparse-mode
  load-interval 30
!
interface Vlan123
  description Connected to cr36_3750_Dept_3_VLAN
```

```
dampening
ip address 10.127.117.129 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan124
description Connected to cr36_3750_Dept_4_VLAN
dampening
ip address 10.127.117.193 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan125
description Connected to cr36_3750_Dept_5_VLAN
dampening
ip address 10.127.118.1 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan126
description Connected to cr36_3750_Dept_6_VLAN
dampening
ip address 10.127.118.65 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan127
description Connected to cr36_3750_Dept_7_VLAN
dampening
ip address 10.127.118.129 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
```

```
load-interval 30
!
interface Vlan128
description Connected to cr36_3750_Dept_8_VLAN
dampening
ip address 10.127.118.193 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan129
description Connected to cr36_3750_Dept_9_VLAN
dampening
ip address 10.127.119.1 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan130
description Connected to cr36_3750_Dept_10_VLAN
dampening
ip address 10.127.119.65 255.255.255.192
ip helper-address 10.125.31.2
no ip redirects
no ip unreachable
ip pim sparse-mode
load-interval 30
!
interface Vlan650
dampening
ip address 10.126.1.99 255.255.255.254
no ip redirects
no ip unreachable
ip pim sparse-mode
ip hold-time eigrp 100 20
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 eigrp-key
ip summary-address eigrp 100 10.127.112.0 255.255.248.0 5
load-interval 30
hold-queue 2000 in
hold-queue 2000 out
!
```

```
interface Vlan900
  no ip address
!
!
router eigrp 100
  passive-interface default
  no passive-interface Vlan650
  no passive-interface GigabitEthernet1/0/52
  no passive-interface GigabitEthernet3/0/52
  no passive-interface Port-channel14
  distribute-list route-map EIGRP_STUB_ROUTES out GigabitEthernet1/0/52
  distribute-list route-map EIGRP_STUB_ROUTES out GigabitEthernet3/0/52
  distribute-list route-map EIGRP_STUB_ROUTES out Port-channel14
  no auto-summary
  eigrp router-id 10.126.100.106
  network 10.126.0.0 0.1.255.255
  network 11.1.0.0 0.0.255.255
  nsf
!
ip classless
ip route 172.26.158.0 255.255.255.0 172.26.160.1
no ip http server
no ip http secure-server
ip pim rp-address 10.125.100.100 Allowed_MCAST_Groups override
ip pim spt-threshold infinity
ip pim accept-register list PERMIT-SOURCES
!
!
ip access-list standard Allowed_MCAST_Groups
  permit 224.0.1.39
  permit 224.0.1.40
  permit 239.192.0.0 0.0.255.255
!
ip access-list extended BULK-DATA
  remark FTP
  permit tcp any any eq ftp
  permit tcp any any eq ftp-data
  remark SSH/SFTP
  permit tcp any any eq 22
  remark SMTP/SECURE SMTP
  permit tcp any any eq smtp
  permit tcp any any eq 465
  remark IMAP/SECURE IMAP
  permit tcp any any eq 143
  permit tcp any any eq 993
  remark POP3/SECURE POP3
```

```
  permit tcp any any eq pop3
  permit tcp any any eq 995
  remark CONNECTED PC BACKUP
  permit tcp any eq 1914 any
ip access-list extended DEFAULT
  remark EXPLICIT CLASS-DEFAULT
  permit ip any any
ip access-list extended MULTIMEDIA-CONFERENCING
  remark RTP
  permit udp any any range 16384 32767
ip access-list extended PERMIT-SOURCES
  permit ip 10.125.31.80 0.0.0.15 239.192.0.0 0.0.255.255
ip access-list extended PXE
  permit tcp any any established
  permit udp any any eq bootps
  permit udp any host 10.125.31.11 eq domain
  permit udp any host 10.125.31.12 eq tftp
ip access-list extended SCAVENGER
  remark KAZAA
  permit tcp any any eq 1214
  permit udp any any eq 1214
  remark MICROSOFT DIRECT X GAMING
  permit tcp any any range 2300 2400
  permit udp any any range 2300 2400
  remark APPLE ITUNES MUSIC SHARING
  permit tcp any any eq 3689
  permit udp any any eq 3689
  remark BITTORRENT
  permit tcp any any range 6881 6999
  remark YAHOO GAMES
  permit tcp any any eq 11999
  remark MSN GAMING ZONE
  permit tcp any any range 28800 29100
ip access-list extended SIGNALING
  remark SCCP
  permit tcp any any range 2000 2002
  remark SIP
  permit tcp any any range 5060 5061
  permit udp any any range 5060 5061
ip access-list extended TRANSACTIONAL-DATA
  remark HTTPS
  permit tcp any any eq 443
  remark ORACLE-SQL*NET
  permit tcp any any eq 1521
  permit udp any any eq 1521
  remark ORACLE
```

```
permit tcp any any eq 1526
permit udp any any eq 1526
permit tcp any any eq 1575
permit udp any any eq 1575
permit tcp any any eq 1630
!
access-list 1 permit 0.0.0.0
access-list 1 permit 10.127.112.0
access-list 1 permit 10.124.0.0
route-map EIGRP_STUB_ROUTES permit 10
  match ip address 1
!
!
snmp-server community public RO
snmp-server community k12 RW
snmp-server trap-source Loopback0
snmp-server host 172.26.158.251 version 2c k12
radius-server dead-criteria time 15 tries 3
radius-server deadtime 1
!
control-plane
!
alias exec ct config t
alias exec srb sh run | begin
alias exec sri sh run int
alias exec cl clear logg
alias exec rib show ip route
alias exec ec sh etherchannel
alias exec cc clea count
alias exec sac sh access-list
alias exec cpu show proc c s | inc CPU
alias exec sin show ip int brief | ex unassi
!
line con 0
  exec-timeout 0 0
  password 7 121A0C041104
line vty 0 4
  exec-timeout 0 0
  password 7 121A0C041104
line vty 5 15
  exec-timeout 0 0
!
ntp clock-period 36028897
ntp server 172.26.160.10
end
```

PSTN Edge

```
School1-B1R#term len 0
School1-B1R#sh run
Building configuration...

Current configuration : 8585 bytes
!
! Last configuration change at 16:52:10 UTC Tue Sep 8 2009
! NVRAM config last updated at 16:52:12 UTC Tue Sep 8 2009
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname School1-B1R
!
boot-start-marker
boot system flash:c3825-advipservicesk9-mz.124-15.T1.bin
boot-end-marker
!
card type t1 2 1
logging buffered 51200 warnings
!
no aaa new-model
no network-clock-participate slot 2
no network-clock-participate wic 0
!
!
ip cef
!
!
no ip domain lookup
ip domain name ese.local
ip name-server 10.33.32.5
!
multilink bundle-name authenticated
!
isdn switch-type primary-ni
voice-card 0
  no dspfarm
!
voice-card 2
```



```
no dspfarm
!
!
!
!
key chain eigrp-chain
  key 100
    key-string cisco
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
voice translation-rule 1
  rule 1 /^444567/ /8444/
!
voice translation-rule 10
  rule 1 /^82221/ /2223451/
  rule 2 /^83331/ /3334561/
!
!
voice translation-profile S1-SRST-in
  translate called 1
!
voice translation-profile S1-SRST-out
  translate called 10
!
voice translation-profile S1-SRST-in
  translate called 1
!
voice translation-profile S1-SRST-out
  translate called 10
!
!
!
application
  global
  service alternate default
```

```
!
!
!
crypto pki trustpoint TP-self-signed-2533920657
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-2533920657
  revocation-check none
  rsakeypair TP-self-signed-2533920657
!
!
crypto pki certificate chain TP-self-signed-2533920657
  certificate self-signed 01
    30820245 308201AE A0030201 02020101 300D0609 2A864886 F70D0101
04050030
    31312F30 2D060355 04031326 494F532D 53656C66 2D536967 6E65642D
43657274
    69666963 6174652D 32353333 39323036 3537301E 170D3039 30333233
30303332
    35325A17 0D323030 31303130 30303030 305A3031 312F302D 06035504
03132649
    4F532D53 656C662D 5369676E 65642D43 65727469 66696361 74652D32
35333339
    32303635 3730819F 300D0609 2A864886 F70D0101 01050003 818D0030
81890281
    8100C4CF 56547BED 94F2C7CB F804CFE3 4EF4E717 D4F45158 0323CDC6
15D57A1C
    EEF6E208 A638F3CF 68E3ED79 6A5A2599 3535A184 142D2FB8 9F90BFC6
688DA885
    0F01452F CB77727F 49E88D22 EBE8C8FE 79C603B4 400036EC A7E46F95
67556DB7
    418CC9C9 855452C1 7A1F43D5 FC517ECE D2A016A2 D22469A7 B04F29D6
2D1F7D6A
    CD170203 010001A3 6D306B30 0F060355 1D130101 FF040530 030101FF
30180603
    551D1104 11300F82 0D623172 2E657365 2E6C6F63 616C301F 0603551D
23041830
    16801462 21F5D80D A391D7D8 81DEBE96 EAC85A83 1D5FC830 1D060355
1D0E0416
    04146221 F5D80DA3 91D7D881 DEBE96EA C85A831D 5FC8300D 06092A86
4886F70D
    01010405 00038181 00682E54 6D74F19D BC8642C5 D73A980A 977C2BD7
6FEC7C5D
    6B78D63E B0E5EA3 00D8B281 EAD97996 71EC669E C2CD1B53 A8FA35FE
69A431E7
    434C76AB 69C7AD8C 75125C78 D1B59887 BA744878 7CBF83D1 9E947524
DB4F0A2E
    760C4DF3 8D72E317 FDD224C2 55FC2B1F 737A4F6E 72E5D6A2 BBF56AD5
49587E49
    2807367C E83C477F A7
```

```
quit
!
!
!
!
username cisco secret 5 $1$80Id$RaudGd7tcWPCMbRIK0jlQ0
username Cisc0123 secret 5 $1$p0S6$1mALRMHiKoDpH5w3V5Cq01
username admin secret 5 $1$d0Zk$BZ75VO488cehdyLDZiRjI1
archive
  log config
  hidekeys
!
!
controller T1 2/0
  framing esf
  linecode b8zs
  pri-group timeslots 1-24 service mgcp
!
controller T1 2/1
  framing esf
  linecode b8zs
!
!
!
!
!
interface Loopback0
  ip address 10.40.63.1 255.255.255.255
!
interface Loopback1
  ip address 10.33.9.22 255.255.255.0
!
interface Port-channel1
  no ip address
  hold-queue 0 in
!
interface Port-channel3
  description port-channel to core stack
  ip address 10.40.63.9 255.255.255.252
  hold-queue 150 in
!
interface GigabitEthernet0/0
  description $ETH-LAN$$ETH-SW-LAUNCH$$INTF-INFO-GE 0/0$
  no ip address
  duplex auto
  speed auto
```

```
media-type rj45
no keepalive
channel-group 3
!
interface GigabitEthernet0/1
  no ip address
  duplex auto
  speed auto
  media-type rj45
  no keepalive
  channel-group 3
!
interface Serial0/0/0
  description serial link from B1R to A1R
  ip address 10.33.4.3 255.255.255.254
  load-interval 30
  carrier-delay msec 0
  clock rate 2016000
!
interface Serial0/0/1
  no ip address
  shutdown
  clock rate 2016000
!
interface Serial0/0/2
  no ip address
  shutdown
  clock rate 2016000
!
interface Serial0/0/3
  no ip address
  shutdown
  clock rate 2016000
!
interface FastEthernet1/0
!
interface FastEthernet1/1
!
interface FastEthernet1/2
!
interface FastEthernet1/3
!
interface FastEthernet1/4
!
interface FastEthernet1/5
!
```

```
interface FastEthernet1/6
!
interface FastEthernet1/7
!
interface FastEthernet1/8
!
interface FastEthernet1/9
!
interface FastEthernet1/10
!
interface FastEthernet1/11
!
interface FastEthernet1/12
!
interface FastEthernet1/13
!
interface FastEthernet1/14
!
interface FastEthernet1/15
!
interface Serial2/0:23
  description to simulated PSTN
  no ip address
  encapsulation hdlc
  isdn switch-type primary-ni
  isdn incoming-voice voice
  isdn bind-13 ccm-manager
  no cdp enable
!
interface Vlan1
  no ip address
!
ip route 0.0.0.0 0.0.0.0 Port-channel3
!
!
ip http server
ip http access-class 23
ip http authentication local
ip http secure-server
ip http timeout-policy idle 60 life 86400 requests 10000
!
access-list 23 permit 10.10.10.0 0.0.0.7
!
!
!
!

!
!
control-plane
!
!
!
voice-port 2/0:23
!
ccm-manager fallback-mgcp
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server 10.33.32.22
ccm-manager config
!
mgcp
mgcp call-agent CUCM7-Pub 2427 service-type mgcp version 0.1
mgcp dtmf-relay voip codec all mode out-of-band
mgcp rtp unreachable timeout 1000 action notify
mgcp modem passthrough voip mode nse
mgcp package-capability rtp-package
mgcp package-capability sst-package
mgcp package-capability pre-package
no mgcp package-capability res-package
no mgcp package-capability fxr-package
no mgcp timer receive-rtcp
mgcp sdp simple
mgcp rtp payload-type g726r16 static
mgcp bind control source-interface Port-channel3
mgcp bind media source-interface Port-channel3
!
mgcp profile default
!
!
!
!
dial-peer voice 83331 pots
  description SRST; translate calls to District office using internal
  number f
  translation-profile outgoing S1-SRTS-out
  destination-pattern 83331...
  port 2/0:23
  forward-digits 10
!
dial-peer voice 1 pots
  description srst incoming
  translation-profile incoming S1-SRTS-in
  service mgcpapp
```

```
incoming called-number .
direct-inward-dial
port 2/0:23
forward-digits 8
!
dial-peer voice 91 pots
description SRST; Any long distance number
destination-pattern 91.....
port 2/0:23
forward-digits 10
!
dial-peer voice 91222 pots
description SRST; PSTN School1 to School2
destination-pattern 91222.....
port 2/0:23
forward-digits 10
!
dial-peer voice 91333 pots
description SRST; PSTN School1 to District Office
destination-pattern 91333.....
port 2/0:23
forward-digits 10
!
dial-peer voice 91444 pots
description SRST; School1 local dialing with area code
destination-pattern 91444.....
port 2/0:23
forward-digits 10
!
dial-peer voice 9567 pots
description SRST; School1 local dialing (PSTN-router num-exp adds
area code)
destination-pattern 9567....
port 2/0:23
forward-digits 7
!
dial-peer voice 911 pots
description SRST; Emergency call without External access code
destination-pattern 911
port 2/0:23
forward-digits 3
!
dial-peer voice 82221 pots
description SRST; translate calls to School2 using internal number
format
translation-profile outgoing S1-SRTS-out
```

```
destination-pattern 82221...
port 2/0:23
forward-digits 10
!
dial-peer voice 9911 pots
description SRST; Emergency call with External access code
destination-pattern 9911
port 2/0:23
forward-digits 3
!
!
!
!
call-manager-fallback
max-conferences 12 gain -6
transfer-system f
Sep  8 16:52:37.667: %ISDN-6-LAYER2DOWN: Layer 2 for Interface
Se2/0:23, TEI 0 changed to downnull-consult
ip source-address 10.40.63.9 port 2000
max-ephones 10
max-dn 20
!
banner exec ^CC
-----
--
This is Router B1R
-----
--
^C
banner login ^CC
-----
--
This is Router B1R
-----
--
^C
alias exec run sh run | begin
alias exec int sh ip int brief
!
line con 0
exec-timeout 0 0
length 0
stopbits 1
line aux 0
stopbits 1
line vty 0 4
```

```
access-class 23 in
privilege level 15
login local
transport input telnet ssh
line vty 5 15
access-class 23 in
privilege level 15
login local
transport input telnet ssh
!
scheduler allocate 20000 1000
ntp authentication-key 2 md5 04690203182E404A1D 7
ntp authenticate
ntp trusted-key 2
ntp clock-period 17179727
ntp max-associations 150
ntp server 10.40.94.17 key 2

!
webvpn cef
!
end

School1-B1R#
```