



Schools SRA Configuration Supplement

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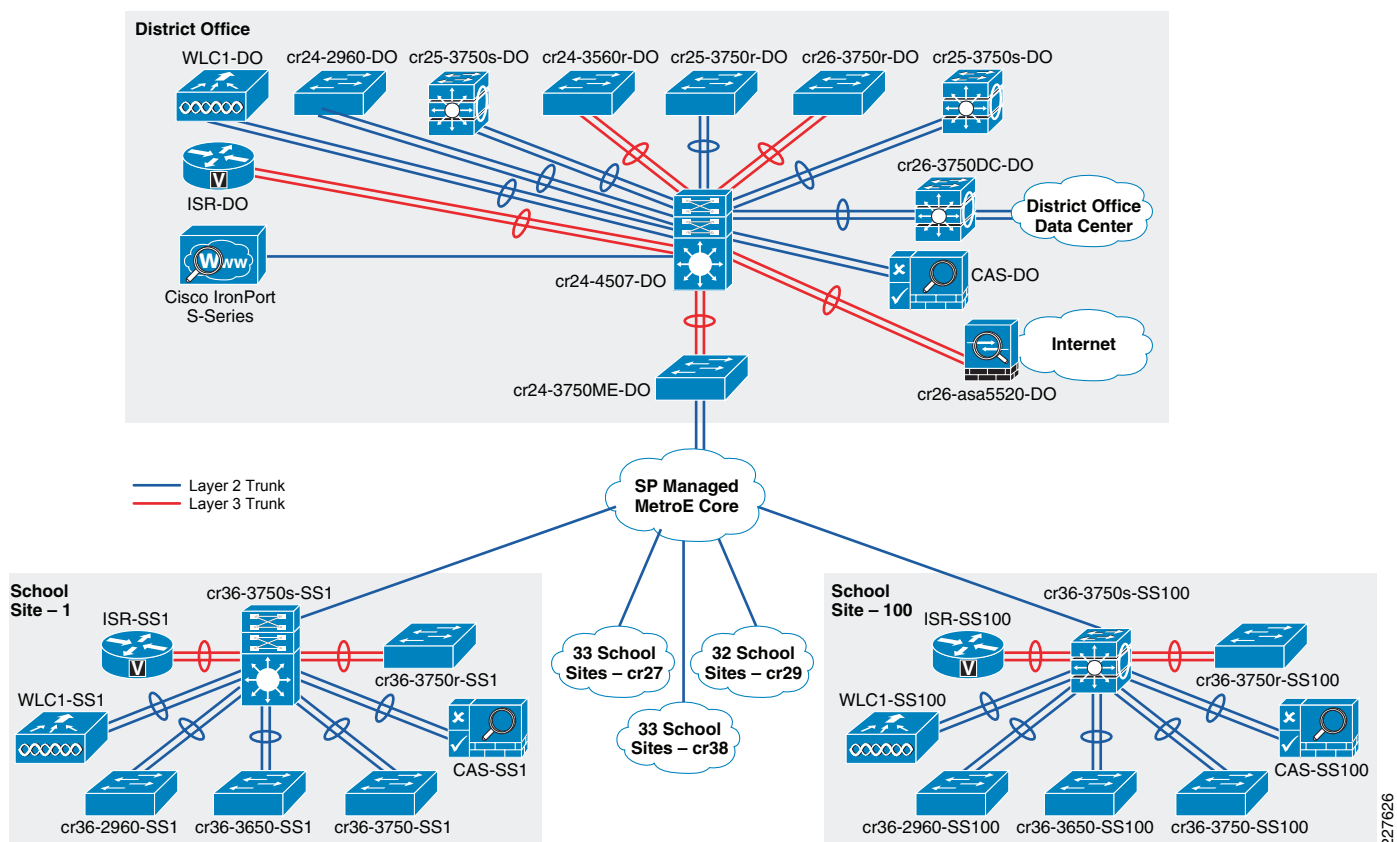
This document, contains the network diagram, and a list of all the platforms and software releases which were validated for the Schools Service Ready Architecture. The last section includes the configurations for each platform (CLI only, no GUI).

Provides a 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 *Physical Topology*



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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 bpduguard 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 bpduguard 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 udd
errdisable recovery cause bpdguard
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 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 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
  udld 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 unreachableables
    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 unreachableables
    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 unreachableables
    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 unreachableables
    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 unreachableables
    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 unreachableables
    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 unreachableables
    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 unreachableables
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 unreachableables
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$VH5sfvkInDxIlKe6HvlHO.
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 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
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 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
!
!
!
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-DO
 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
udld 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

```

```

udld 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 bpduguard 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 bpduguard 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
udld 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 unreachable
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 unreachableables
 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 unreachableables
  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 unreachableables
  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 udld
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-D0
  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 bpduguard 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
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 GigabitEthernet1/0/26
!
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 clearlogg
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_Grou10
    !
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 bpduguard enable
spanning-tree bpdufilter 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 bpduguard enable
spanning-tree bpdufilter 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 bpduguard enable
spanning-tree bpdufilter 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 bpduguard enable
spanning-tree bpdufilter 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 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
  uddl 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
udld 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
udld 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
udld 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
udld 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 unreachableables
  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 unreachableables
  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 unreachableables
  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 unreachableables
  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 unreachableables
  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 unreachableables
  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 unreachableables
  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 unreachableables
  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 unreachableables
  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 unreachableables
  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 unreachable
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 unreachable
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 unreachable
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 unreachableables

```

```

    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 unreachableables
    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 unreachableables
    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 unreachableables
    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 unreachableables
    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 unreachableables
    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 unreachableables
    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 unreachableables

```



```

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
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site70
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site71
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site72
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site73
  shape average 20000000
  service-policy School-Child-Policy-Map
class School_Site74
  shape average 20000000

```

```

service-policy School-Child-Policy-Map
class School_Site75
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site76
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site77
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site78
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site79
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site80
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site81
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site82
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site83
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site84
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site85
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site86
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site87
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site88
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site89
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site90
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site91
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site92
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site93
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site94
    shape average 20000000
service-policy School-Child-Policy-Map
class School_Site95
    shape average 20000000
service-policy School-Child-Policy-Map

```



```

class School_Site96
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site97
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site98
    shape average 20000000
    service-policy School-Child-Policy-Map
class School_Site99
    shape average 10000000
    service-policy School-Child-Policy-Map
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 bpdupfilter 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 bpduguard 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
    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
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
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 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
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
!
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 bpdupfilter 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 bpdupfilter 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 bpduguard enable
spanning-tree bpdufilter 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
  uddld 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 udld
errdisable recovery cause bpduguard
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
!

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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 bpdupfilter 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 unreachableables
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 unreachableables
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 unreachableables
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 unreachableables
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 unreachableables
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

```

[illegible]

```

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 0375EFFF 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

School2-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 bpdguard
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 bpduguard 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
  udld 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
  udld 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 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 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 bpdufilter 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
udld 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
udld 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 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 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 bpduguard 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 bpduguard 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 Connected 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
udld 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
udld 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 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 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
udld 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 bpdupfilter 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
  uddld 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
  uddld 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
  uddld 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 bpduguard 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 unreachableables
  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 unreachableables
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 unreachableables
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 unreachableables
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 unreachableables
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 unreachableables
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 unreachableables
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 unreachableables

```

```

        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 unreachableables
    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 unreachable
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 unreachable
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 unreachable
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 unreachable
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-SRTS-in
  translate called 1
!
voice translation-profile S1-SRTS-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 B60E5EA3 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$BZ75VO488cehdyLDZiRjiI
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#

```