



SAFE 1.0 Release Notes

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This Release Notes provides a list of all platforms and software releases that were validated for the SAFE reference architecture. There are also network diagrams for each module and complete configuration for each platform.

This Release Notes document is associated with the *Cisco SAFE Reference Guide* available at the following URL:

http://www.cisco.com/en/US/docs/solutions/Enterprise/Security/SAFE_RG/SAFE_rg.htm

The Cisco SAFE consists of design blueprints based on the Cisco Validated Designs (CVDs) and proven security best practices that provide the design guidelines for building secure and reliable network infrastructures. The design blueprint follows a modular design where the overall network infrastructure is divided into functional modules, each one representing a place-in-the network (PIN). Functional modules are then subdivided into more manageable and granular functional blocks, each serving a specific role in the network.

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Cisco Platforms and Versions

This section lists the Cisco platforms and releases used for SAFE 1.0 reference architecture.

Enterprise Core

Role	Platforms	Version
Core Switch	Catalyst 6500 Series VS-S720-10G WS-X6716-10GE WS-X6148A-GE-TX	12.2(33)SXH4

Intranet Data Center

Role	Platforms	Version
Core Switch	Catalyst 6500 Series WS-X6724-SFP WS-6704-10GE VS-S720-10G	12.2(33)SXH2
Aggregation Switch	Nexus 7000 Series N7K-M132XP-12 N&K-M148GT-11 N7K-SUP1	4.1(2)
Services Layer Switch	Catalyst 6500 Series VS-S720-10G WS-6708-10GE WS-6748-GE-TX ACE20-MOD-K9 WS-SVC-NAM-2 ASA5580-40 IPS4270-20-k9 ACE-XML-K9	12.2(33)SXI A2(1.3) 4.0(1) 8.1(2) 6.2(1)E3 6.0.2-2008-09-15T22

Access Layer Switch	Catalyst 6500 Series WS-6708-10GE WS-6704-10GE WS-SVC-NAM-2 VS-S720-10G WS-X6748-GE-TX WS-C4900M WS-X4904-10GE WS-X4920-GB-RJ45 N5k-C5020P-BF N5K-M1404 WS-CBS3120G-S WS-CBS3120X-S Nexus 1000V	12.2(33)SXI 4.0(1) 12.2(46)SG 4.0(1a)N1(1) 12.2(40)EX1 12.2(40)EX1 4.0(1a)S1(0.14
Server Environments	HP DL380 G5 HP DL380 G4	VMWare 3.5u2 and 4.0(RC) Windows Server 2003 Oracle Linux 5.2 (Carthage)
Intrusion Prevention System	IPS 4270	6.1(2)E3
Firewall	ASA 5580	8.1(1)
Host-based Intrusion Prevention System	CSA	6

Enterprise Campus

Role	Platforms	Version
Core Switch	Catalyst 6500 Series VS-S720-10G WS-X6716-10GE WS-X6148A-GE-TX	12.2(33)SXH4
Distribution Layer Switch	Catalyst 6500 Series VS-S720-10G WS-X6716-10GE WS-X6148A-GE-TX Catalyst 6500 Series (For IBNS) Catalyst 4500 Series (For IBNS)	12.2(33)SXH4 12.2(33)SXI (For IBNS) 12.2(50)SG (For IBNS)
Services Block Switch	Catalyst 6500 Series WS-SUP720-BASE WS-X6416-GBIC WS-X6748-GE-TX	12.2(33)SXH4
Access Layer Switch	Catalyst 4500 Series WS-X4516-10GE WS-X4548-GB-RJ45V Catalyst 4500 Series (For IBNS) Catalyst 3750 (For IBNS)	12.2(31)SGA8 12.2(50)SG (For IBNS) 12.2(50)SE (For IBNS)
Intrusion Prevention System	IPS 4270	6.1(2)E3
Firewall	ASA 5580	8.1(1)
Host-based Intrusion Prevention System	CSA	6.0
NAC Manager	NAC3310MGR	4.1.6
NAC Server	NAC3350	4.1.6
NAC Profiler	NAC3310	2.1.8
Cisco Unified Communications Manager	MCS-7825-H2-IPC1	7.0.1
Cisco IP Phone	CP-7960	8.0(9.0)

Enterprise Internet Edge

Role	Platforms	Version
Inner Switches	Catalyst 6500 Series Sup32P-10GE WS X6516-GE-TX	12.2(18)ZYA
Outer Switches	Catalyst 6500 Series Sup720-3BXL WS-6704-10GE WS-6516-GE-TX	12.2(33)SXH4
Internet Backup Router	ASR1004	2.3.0 12.2(33)XNC
Intrusion Prevention System	IPS4260	6.1(2)E3
Firewall	ASA5580	8.1(1)
Remote-Access Termination	ASA5520	8.0(4)
Border Router	7200	12.4(20)T1
Ironport web appliance	S650	5.6
Ironport email appliance	C650	6.4
Web Application Firewall	WAF	6.0.2

Enterprise WAN Edge

Role	Platforms	Version
Unified WAN Platform	ASR1004	2.3.0 12.2(33)XNC
Intrusion Prevention System	IPS 4270	6.1(2)E3
Switch	Catalyst 3750	12.2(35)SE5

Enterprise Branch

Role	Platforms	Version
Integrated Services Router	ISR 2821, ISR 3845	12.4(20)T2
Firewall	ASA5520 ISR 2821 (IOS Zone-based Firewall)	8.0(3) 12.4(20)T2
Intrusion Prevention System	IPS-AIM in ISR 2821, AIP-SSM in ASA 5520	6.1(2)E3
Switch	Catalyst 3750	12.2(35)SE5

Management

Role	Platforms	Version
AAA Server	CS-ACS	4.1.4
Security Manager	CSM	3.2.2 SP1
Monitoring, Analysis, and Correlation	CS-MARS	6.0.2
Firewall	ASA 5540	8.0(3)

Core Switch—Catalyst 6500

```
sfx14-6504e-1
!
! Last configuration change at 16:05:10 GMT Mon Apr 13 2009 by mapuebla-ops
! NVRAM config last updated at <tacacs+ server>16:08:04 GMT Mon Apr 13 2009 by
mapuebla-ops
!
upgrade fpd auto<CS-MARS>
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service counters max age 5
!
hostname SFX14-6504E-1
!
boot-start-marker
boot system flash sup-bootdisk:/s72033-advipservicesk9_wan-mz.122-33.SXH4.bin
boot-end-marker
!
logging rate-limit 10
no logging console
enable secret 5 <encrypted password>
!
username admin privilege 15 secret 5 <encrypted password>
username csmars privilege 15 secret 5 <encrypted password>
aaa new-model
aaa group server tacacs+ tacacs-group
    server <tacacs+ server>
!
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable
aaa authorization exec author-exec-list group tacacs-group if-authenticated
aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group tacacs-group
aaa accounting commands 15 default start-stop group tacacs-group
aaa accounting system default start-stop group tacacs-group
!
aaa session-id common
clock timezone GMT 0
call-home
    alert-group configuration
    alert-group diagnostic
    alert-group environment
    alert-group inventory
    alert-group syslog
    profile "CiscoTAC-1"
    no active
    no destination transport-method http
    destination transport-method email
    destination address email callhome@cisco.com
    destination address http https://tools.cisco.com/its/service/oddce/services/DDCEService
    subscribe-to-alert-group diagnostic severity minor
    subscribe-to-alert-group environment severity minor
    subscribe-to-alert-group syslog severity major pattern ".*"
    subscribe-to-alert-group configuration periodic monthly 3 11:25
    subscribe-to-alert-group inventory periodic monthly 3 11:10
ip subnet-zero
no ip source-route
```

```

!
!
!
ip ftp source-interface GigabitEthernet1/3
ip ftp username admin
ip ftp password 7 <encrypted password>
no ip bootp server
ip ssh time-out 60
ip ssh authentication-retries 2
ip scp server enable
no ip domain-lookup
ip domain-name cisco.com
login block-for 100 attempts 5 within 50
login quiet-mode access-class 10
login on-failure log
mls ip slb purge global
mls netflow interface
no mls flow ip
no mls flow ipv6
mls qos
mls cef error action reset
!
key chain eigrp-chain
  key 10
    key-string 7 <key>
!
!
!
!
!
!
!
!
!
memory reserve critical 1000
memory free low-watermark processor 91490
memory free low-watermark IO 6710
no hw-module slot 3 oversubscription port-group 1
!
redundancy
  keepalive-enable
  mode sso
  main-cpu
  auto-sync running-config
spanning-tree mode pvst
spanning-tree extend system-id
diagnostic cns publish cisco.cns.device.diag_results
diagnostic cns subscribe cisco.cns.device.diag_commands
!
power redundancy-mode combined
fabric timer 15
!
vlan internal allocation policy ascending
vlan access-log ratelimit 2000
!
class-map match-all coppclass-igp
  match access-group name coppacl-igp
class-map match-all coppclass-monitoring
  match access-group name coppacl-monitoring
class-map match-all coppclass-filemanagement
  match access-group name coppacl-filemanagement
class-map match-all coppclass-management
  match access-group name coppacl-management
!

```

```

!
policy-map copp-policy
  class coppclass-igp
    police cir 300000 bc 3000 be 3000    conform-action transmit    exceed-action drop
  violate-action drop
  class coppclass-filemanagement
    police cir 6000000 bc 60000 be 60000    conform-action transmit    exceed-action drop
  violate-action drop
  class coppclass-management
    police cir 500000 bc 5000 be 5000    conform-action transmit    exceed-action drop
  violate-action drop
  class coppclass-monitoring
    police cir 900000 bc 9000 be 9000    conform-action transmit    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 10.242.10.36 255.255.255.254
!
interface GigabitEthernet1/1
  description WAN Edge he4-3750-1 Gig 1/0/50
  ip address 10.242.10.2 255.255.255.254
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
!
interface GigabitEthernet1/2
  description WAN Edge he4-3750-2 Gig 1/0/50
  ip address 10.242.10.4 255.255.255.254
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
!
interface GigabitEthernet1/3
  description FLASH NET
  ip address <management IP add> 255.255.254.0
  ip access-group 133 in
  ip access-group 134 out
  load-interval 60
!
interface TenGigabitEthernet1/4
  description DATA CENTER
  ip address 10.242.10.24 255.255.255.254
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
!
interface TenGigabitEthernet1/5
  no ip address
  shutdown
!
interface TenGigabitEthernet3/1
  no ip address
  shutdown
  no rcv-queue random-detect 1
!
interface TenGigabitEthernet3/2

```

```
no ip address
shutdown
!
interface TenGigabitEthernet3/3
no ip address
shutdown
!
interface TenGigabitEthernet3/4
no ip address
shutdown
!
interface TenGigabitEthernet3/5
no ip address
shutdown
!
interface TenGigabitEthernet3/6
no ip address
shutdown
!
interface TenGigabitEthernet3/7
no ip address
shutdown
!
interface TenGigabitEthernet3/8
no ip address
shutdown
!
interface TenGigabitEthernet3/9
no ip address
shutdown
!
interface TenGigabitEthernet3/10
no ip address
shutdown
!
interface TenGigabitEthernet3/11
no ip address
shutdown
!
interface TenGigabitEthernet3/12
no ip address
shutdown
!
interface TenGigabitEthernet3/13
no ip address
shutdown
!
interface TenGigabitEthernet3/14
no ip address
shutdown
!
interface TenGigabitEthernet3/15
no ip address
shutdown
!
interface TenGigabitEthernet3/16
no ip address
shutdown
!
interface GigabitEthernet4/1
description Internet Edge IE-6500-3 g2/26
ip address 10.242.10.10 255.255.255.254
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
```

```

    load-interval 60
    !
interface GigabitEthernet4/2
    ip address 10.242.10.12 255.255.255.254
    ip authentication mode eigrp 1 md5
    ip authentication key-chain eigrp 1 eigrp-chain
    load-interval 60
    !
interface GigabitEthernet4/3
    description OOB Switch Fe0/23
    ip address 10.242.10.18 255.255.255.254
    ip authentication mode eigrp 1 md5
    ip authentication key-chain eigrp 1 eigrp-chain
    load-interval 60
    !
interface GigabitEthernet4/4
    no ip address
    shutdown
    !
interface GigabitEthernet4/5
    no ip address
    shutdown
    !
interface GigabitEthernet4/6
    no ip address
    shutdown
    !
interface GigabitEthernet4/7
    no ip address
    shutdown
    !
interface GigabitEthernet4/8
    no ip address
    shutdown
    !
interface GigabitEthernet4/9
    no ip address
    shutdown
    !
interface GigabitEthernet4/10
    no ip address
    shutdown
    !
interface GigabitEthernet4/11
    no ip address
    shutdown
    !
interface GigabitEthernet4/12
    no ip address
    shutdown
    !
interface GigabitEthernet4/13
    no ip address
    shutdown
    !
interface GigabitEthernet4/14
    no ip address
    shutdown
    !
interface GigabitEthernet4/15
    no ip address
    shutdown
    !
interface GigabitEthernet4/16

```

```
no ip address
shutdown
!
interface GigabitEthernet4/17
no ip address
shutdown
!
interface GigabitEthernet4/18
no ip address
shutdown
!
interface GigabitEthernet4/19
no ip address
shutdown
!
interface GigabitEthernet4/20
no ip address
shutdown
!
interface GigabitEthernet4/21
no ip address
shutdown
!
interface GigabitEthernet4/22
no ip address
shutdown
!
interface GigabitEthernet4/23
no ip address
shutdown
!
interface GigabitEthernet4/24
no ip address
shutdown
!
interface GigabitEthernet4/25
no ip address
shutdown
!
interface GigabitEthernet4/26
no ip address
shutdown
!
interface GigabitEthernet4/27
no ip address
shutdown
!
interface GigabitEthernet4/28
no ip address
shutdown
!
interface GigabitEthernet4/29
no ip address
shutdown
!
interface GigabitEthernet4/30
no ip address
shutdown
!
interface GigabitEthernet4/31
no ip address
shutdown
!
interface GigabitEthernet4/32
```

```

no ip address
shutdown
!
interface GigabitEthernet4/33
no ip address
shutdown
!
interface GigabitEthernet4/34
no ip address
shutdown
!
interface GigabitEthernet4/35
ip address 10.242.150.1 255.255.255.0
!
interface GigabitEthernet4/36
no ip address
shutdown
!
interface GigabitEthernet4/37
no ip address
shutdown
!
interface GigabitEthernet4/38
no ip address
shutdown
!
interface GigabitEthernet4/39
no ip address
shutdown
!
interface GigabitEthernet4/40
no ip address
shutdown
!
interface GigabitEthernet4/41
no ip address
shutdown
!
interface GigabitEthernet4/42
no ip address
shutdown
!
interface GigabitEthernet4/43
no ip address
shutdown
!
interface GigabitEthernet4/44
no ip address
shutdown
!
interface GigabitEthernet4/45
no ip address
shutdown
!
interface GigabitEthernet4/46
description CAMPUS SFX13-6504E-2 Gig 4/46
ip address 10.242.10.32 255.255.255.254
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
load-interval 60
!
interface GigabitEthernet4/47
description CAMPUS SFX13-6504E-1 Gig 4/47
ip address 10.242.10.28 255.255.255.254

```

```

ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
load-interval 60
!
interface GigabitEthernet4/48
description SFX14-6504E-2 Gig 4/48
ip address 10.242.10.22 255.255.255.254
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
load-interval 60
!
interface Vlan1
no ip address
shutdown
!
router eigrp 1
network 10.0.0.0
auto-summary
!
ip classless
ip route 172.26.0.0 255.255.0.0 172.26.170.1
!
!
no ip http server
no ip http secure-server
ip tacacs source-interface GigabitEthernet1/3
!
ip access-list extended coppacl-filemanagement
remark CoPP File transfer traffic class
permit tcp 172.26.0.0 0.0.255.255 eq ftp host <management IP add> gt 1023 established
permit tcp 172.26.0.0 0.0.255.255 eq ftp-data host <management IP add> gt 1023
permit tcp 172.26.0.0 0.0.255.255 gt 1023 host <management IP add> gt 1023 established
permit udp 172.26.0.0 0.0.255.255 gt 1023 host <management IP add> gt 1023
ip access-list extended coppacl-igp
remark IGP traffic class
permit eigrp any host 224.0.0.10
permit eigrp 10.0.0.0 0.255.255.255 host <management IP add>
ip access-list extended coppacl-management
remark CoPP management traffic class
permit tcp 172.26.0.0 0.0.255.255 eq tacacs host <management IP add> established
permit tcp 172.26.0.0 0.0.255.255 host <management IP add> eq 22
permit tcp 172.26.0.0 0.0.255.255 host <management IP add> eq telnet
permit udp 172.26.0.0 0.0.255.255 host <management IP add> eq snmp
permit udp 172.26.0.0 0.0.255.255 host <management IP add> eq ntp
permit udp 10.0.0.0 0.255.255.255 host 10.242.10.36 eq ntp
ip access-list extended coppacl-monitoring
remark C<tacacs+ server>oPP monitoring traffic class
permit icmp any any ttl-exceeded
permit icmp any any port-unreachable
permit icmp any any echo-reply
permit icmp any any echo
!
logging trap critical
logging source-interface GigabitEthernet1/3
logging <CS-MARS>
access-list 10 permit 172.26.191.92
access-list 20 permit <ntp peer>
access-list 20 remark ACL for NTP Servers and Peers
access-list 20 permit <ntp server>
access-list 21 remark ACL for NTP Client
access-list 21 permit 10.0.0.0 0.255.255.255
access-list 21 permit 172.0.0.0 0.255.255.255
access-list 21 deny any log
access-list 111 remark ACL for SSH

```



```

access-list 111 permit tcp 172.26.0.0 0.0.255.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host 172.26.191.92 any eq 22
access-list 112 deny ip any any log-input
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP add> ttl-exceeded
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP add>
port-unreachable
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP add> echo-reply
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP add> echo
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq tacacs host <management IP add>
established
access-list 133 permit tcp 172.26.0.0 0.0.255.255 host <management IP add> eq tacacs
access-list 133 permit udp 172.26.0.0 0.0.255.255 host <management IP add> eq ntp
access-list 133 permit tcp 172.26.0.0 0.0.255.255 host <management IP add> eq 22
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp host <management IP add> gt 1023
established
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp-data host <management IP add> gt
1023
access-list 133 permit tcp 172.26.0.0 0.0.255.255 gt 1023 host <management IP add> gt 1023
established
access-list 133 permit udp 172.26.0.0 0.0.255.255 gt 1023 host <management IP add> gt 1023
access-list 133 permit ip any any log
access-list 134 permit ip host <management IP add> 172.26.0.0 0.0.255.255
access-list 134 deny ip any <tacacs+ server>any log
access-list 155 permit ip any any log
!
snmp-server enable traps cpu threshold
snmp-server host <CS-MARS> csmars cpu
tacacs-server host <tacacs+ server> single-connection key 7 <key>
no tacacs-server directed-request
!
radius-server source-ports 1645-1646
!
control-plane
service-policy input copp-policy
!
!
dial-peer cor custom
!
!
!
banner login
UNAUTHORIZED ACCESS TO THIS DEVICE IS PROHIBITED
You must have explicit, authorized permission to access or configure this device.
Unauthorized attempts and actions to access or use this system may result in civil and/or
criminal penalties.
All activities performed on this device are logged and monitored.

!
line con 0
session-timeout 3
exec-timeout 3 0
login authentication authen-exec-list
line vty 0 3
session-timeout 3
access-class 111 in
exec-timeout 3 0
password 7 <encrypted password>
authorization commands 15 author-15-list
authorization exec author-exec-list
login authentication authen-exec-list
transport preferred none
transport input telnet ssh

```

```

transport output none
line vty 4
  session-timeout 3
  access-class 112 in
  exec-timeout 3 0
  password 7 <encrypted password>
  authorization commands 15 author-15-list
  authorization exec author-exec-list
  login authentication authen-exec-list
  transport preferred none
  transport input ssh
  transport output none
line vty 5 15
  no exec
!
exception protocol ftp
exception dump <ftp-server>
process cpu threshold type total rising 80 interval 5 falling 20 interval 5
process cpu statistics limit entry-percentage 40 size 300
ntp authentication-key 10 md5 <encrypted password> 7
ntp authenticate
ntp trusted-key 10
ntp clock-period 17180041
ntp access-group peer 20
ntp access-group serve-only 21
ntp update-calendar
ntp peer <ntp peer>
ntp server <ntp server>
no event manager policy Mandatory.go_switchbus.tcl type system
!
end

sfx14-6504e-2
!
! Last configuration change at 16:05:13 GMT Mon Apr 13 2009 by mapuebla-ops
! NVRAM config last updated at 16:08:03 GMT Mon Apr 13 2009 by mapuebla-ops
!
upgrade fpd auto<management IP add>
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service counters max age 5
!
hostname SFX14-6504E-2
!
boot-start-marker
boot system flash bootflash:s72033-advipservicesk9_wan-mz.122-33.SXH4.bin
boot-end-marker
!
no logging console
enable secret 5 <encrypted password>
!
username admin privilege 15 secret 5 <encrypted password>
username csmars privilege 15 secret 5 <encrypted password>
aaa new-model
aaa group server tacacs+ tacacs-group
  server <tacacs+ server>
!
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable
aaa authorization exec author-exec-list group tacacs-group if-authenticated

```

```

aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group tacacs-group
aaa accounting commands 15 default start-stop group tacacs-group
aaa accounting system default start-stop group tacacs-group
!
aaa session-id common
clock timezone GMT 0
call-home
    alert-group configuration
    alert-group diagnostic
    alert-group environment
    alert-group inventory
    alert-group syslog
profile "CiscoTAC-1"
    no active
    no destination transport-method http
    destination transport-method email
    destination address email callhome@cisco.com
    destination address http https://tools.cisco.com/its/service/oddce/services/DDCEService
    subscribe-to-alert-group diagnostic severity minor
    subscribe-to-alert-group environment severity minor
    subscribe-to-alert-group syslog severity major pattern ".*"
    subscribe-to-alert-group configuration periodic monthly 3 15:57
    subscribe-to-alert-group inventory periodic monthly 3 15:42
ip subnet-zero
no ip source-route
!
!
!
ip ftp source-interface GigabitEthernet4/4
ip ftp username admin
ip ftp password 7 <encrypted password>
no ip bootp server
ip ssh time-out 60
ip ssh authentication-retries 2
ip scp server enable
ip domain-name cisco.com
login block-for 100 attempts 5 within 50
login quiet-mode access-class 10
login on-failure log
mls ip slb purge global
mls netflow interface
no mls flow ip
no mls flow ipv6
mls qos
mls cef error action reset
!
key chain eigrp-chain
    key 10
        key-string 7 <key>
!
!
!
!
!
!
!
!
!
memory reserve critical 1000
memory free low-watermark processor 91490
memory free low-watermark IO 6710
!

```

```

redundancy
  keepalive-enable
  mode sso
  main-cpu
  auto-sync running-config
spanning-tree mode pvst
spanning-tree extend system-id
diagnostic cns publish cisco.cns.device.diag_results
diagnostic cns subscribe cisco.cns.device.diag_commands
fabric timer 15
!
vlan internal allocation policy ascending
vlan access-log ratelimit 2000
!
class-map match-all coppclass-igp
  match access-group name coppacl-igp
class-map match-all coppclass-monitoring
  match access-group name coppacl-monitoring
class-map match-all coppclass-filemanagement
  match access-group name coppacl-filemanagement
class-map match-all coppclass-management
  match access-group name coppacl-management
!
!
policy-map copp-policy
  class coppclass-igp
    police cir 300000 bc 3000 be 3000    conform-action transmit    exceed-action drop
  violate-action drop
  class coppclass-filemanagement
    police cir 6000000 bc 60000 be 60000    conform-action transmit    exceed-action drop
  violate-action drop
  class coppclass-management
    police cir 500000 bc 5000 be 5000    conform-action transmit    exceed-action drop
  violate-action drop
  class coppclass-monitoring
    police cir 900000 bc 9000 be 9000    conform-action transmit    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 10.242.10.38 255.255.255.254
!
interface GigabitEthernet1/1
  description Wan Edge he4-3750-1 Gig1/0/52
  ip address 10.242.10.6 255.255.255.254
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
!
interface GigabitEthernet1/2
  description Wan Edge he4-3750-2 Gig1/0/52
  ip address 10.242.10.8 255.255.255.254
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
!
interface GigabitEthernet1/3

```

```

no ip address
shutdown
!
interface TenGigabitEthernet1/4
ip address 10.242.10.26 255.255.255.254
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
load-interval 60
!
interface TenGigabitEthernet1/5
no ip address
shutdown
!
interface TenGigabitEthernet3/1
no ip address
shutdown
!
interface TenGigabitEthernet3/2
no ip address
shutdown
!
interface TenGigabitEthernet3/3
no ip address
shutdown
!
interface TenGigabitEthernet3/4
no ip address
shutdown
!
interface TenGigabitEthernet3/5
no ip address
shutdown
!
interface TenGigabitEthernet3/6
no ip address
shutdown
!
interface TenGigabitEthernet3/7
no ip address
shutdown
!
interface TenGigabitEthernet3/8
no ip address
shutdown
!
interface TenGigabitEthernet3/9
no ip address
shutdown
!
interface TenGigabitEthernet3/10
no ip address
shutdown
!
interface TenGigabitEthernet3/11
no ip address
shutdown
!
interface TenGigabitEthernet3/12
no ip address
shutdown
!
interface TenGigabitEthernet3/13
no ip address
shutdown

```

```

!
interface TenGigabitEthernet3/14
  no ip address
  shutdown
!
interface TenGigabitEthernet3/15
  no ip address
  shutdown
!
interface TenGigabitEthernet3/16
  no ip address
  shutdown
!
interface GigabitEthernet4/1
  description Internet Edge IE-6500-4
  ip address 10.242.10.14 255.255.255.254
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
!
interface GigabitEthernet4/2
  ip address 10.242.10.16 255.255.255.254
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
!
interface GigabitEthernet4/3
  description OOB Switch Fe0/24
  ip address 10.242.10.20 255.255.255.254
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
!
interface GigabitEthernet4/4
  description FLASH NET
  ip address <management IP add> 255.255.254.0
  ip access-group 133 in
  ip access-group 134 out
  load-interval 60
!
interface GigabitEthernet4/5
  no ip address
  shutdown
!
interface GigabitEthernet4/6
  no ip address
  shutdown
!
interface GigabitEthernet4/7
  no ip address
  shutdown
!
interface GigabitEthernet4/8
  no ip address
  shutdown
!
interface GigabitEthernet4/9
  no ip address
  shutdown
!
interface GigabitEthernet4/10
  no ip address
  shutdown
!

```

```
interface GigabitEthernet4/11
  no ip address
  shutdown
!
interface GigabitEthernet4/12
  no ip address
  shutdown
!
interface GigabitEthernet4/13
  no ip address
  shutdown
!
interface GigabitEthernet4/14
  no ip address
  shutdown
!
interface GigabitEthernet4/15
  no ip address
  shutdown
!
interface GigabitEthernet4/16
  no ip address
  shutdown
!
interface GigabitEthernet4/17
  no ip address
  shutdown
!
interface GigabitEthernet4/18
  no ip address
  shutdown
!
interface GigabitEthernet4/19
  no ip address
  shutdown
!
interface GigabitEthernet4/20
  no ip address
  shutdown
!
interface GigabitEthernet4/21
  no ip address
  shutdown
!
interface GigabitEthernet4/22
  no ip address
  shutdown
!
interface GigabitEthernet4/23
  no ip address
  shutdown
!
interface GigabitEthernet4/24
  no ip address
  shutdown
!
interface GigabitEthernet4/25
  no ip address
  shutdown
!
interface GigabitEthernet4/26
  no ip address
  shutdown
!
```

```
interface GigabitEthernet4/27
no ip address
shutdown
!
interface GigabitEthernet4/28
no ip address
shutdown
!
interface GigabitEthernet4/29
no ip address
shutdown
!
interface GigabitEthernet4/30
no ip address
shutdown
!
interface GigabitEthernet4/31
no ip address
shutdown
!
interface GigabitEthernet4/32
no ip address
shutdown
!
interface GigabitEthernet4/33
no ip address
shutdown
!
interface GigabitEthernet4/34
no ip address
shutdown
!
interface GigabitEthernet4/35
no ip address
shutdown
!
interface GigabitEthernet4/36
no ip address
shutdown
!
interface GigabitEthernet4/37
no ip address
shutdown
!
interface GigabitEthernet4/38
no ip address
shutdown
!
interface GigabitEthernet4/39
no ip address
shutdown
!
interface GigabitEthernet4/40
no ip address
shutdown
!
interface GigabitEthernet4/41
no ip address
shutdown
!
interface GigabitEthernet4/42
no ip address
shutdown
!
```



```

interface GigabitEthernet4/43
  no ip address
  shutdown
!
interface GigabitEthernet4/44
  no ip address
  shutdown
!
interface GigabitEthernet4/45
  no ip address
  shutdown
!
interface GigabitEthernet4/46
  description CAMPUS SFX13-6504E-1    Gig 4/46
  ip address 10.242.10.30 255.255.255.254
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
!
interface GigabitEthernet4/47
  description CAMPUS SFX13-6504E-2    Gig 4/47
  ip address 10.242.10.34 255.255.255.254
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
!
interface GigabitEthernet4/48
  description SFX14-6504E-1    Gig 4/48
  ip address 10.242.10.23 255.255.255.254
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
!
interface Vlan1
  no ip address
  shutdown
!
router eigrp 1
  network 10.0.0.0
  auto-summary
!
ip classless
ip route 172.26.0.0 255.255.0.0 172.26.170.1
!
!
no ip http server
no ip http secure-server
ip tacacs source-interface GigabitEthernet4/4
!
ip access-list extended coppacl-filemanagement
  remark CoPP File transfer traffic class
  permit tcp 172.26.0.0 0.0.255.255 eq ftp host <management IP add> gt 1023 established
  permit tcp 172.26.0.0 0.0.255.255 eq ftp-data host <management IP add> gt 1023
  permit tcp 172.26.0.0 0.0.255.255 gt 1023 host <management IP add> gt 1023 established
  permit udp 172.26.0.0 0.0.255.255 gt 1023 host <management IP add> gt 1023
ip access-list extended coppacl-igp
  remark IGP traffic class
  permit eigrp any host 224.0.0.10
  permit eigrp 10.0.0.0 0.255.255.255 host <management IP add>
ip access-list extended coppacl-management
  remark CoPP management traffic class
  permit tcp 172.26.0.0 0.0.255.255 eq tacacs host <management IP add> established
  permit tcp 172.26.0.0 0.0.255.255 host <management IP add> eq 22
  permit tcp 172.26.0.0 0.0.255.255 host <management IP add> eq telnet

```

```

permit udp 172.26.0.0 0.0.255.255 host <management IP add> eq snmp
permit udp 172.26.0.0 0.0.255.255 host <management IP add> eq ntp
permit udp 10.0.0.0 0.255.255.255 host 10.242.10.38 eq ntp
ip access-list extended coppacl-monitoring
remark CoPP monitoring traffic class
permit icmp any any ttl-exceeded
permit icmp any any port-unreachable
permit icmp any any echo-reply
permit icmp any any echo
!
logging trap critical
logging source-interface GigabitEthernet4/4<tacacs+ server>
logging <CS-MARS>
access-list 10 permit 172.26.191.92
access-list 20 permit <ntp peer>
access-list 20 remark ACL for NTP Servers and Peers
access-list 20 permit <ntp server>
access-list 21 remark ACL for NTP Client
access-list 21 permit 10.0.0.0 0.255.255.255
access-list 21 permit 172.0.0.0 0.255.255.255
access-list 21 deny any log
access-list 111 remark ACL for SSH
access-list 111 permit tcp 172.26.0.0 0.0.255.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host 172.26.191.92 any eq 22
access-list 112 deny ip any any log-input
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP add> ttl-exceeded
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP add>
port-unreachable
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP add> echo-reply
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP add> echo
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq tacacs host <management IP add>
established
access-list 133 permit tcp 172.26.0.0 0.0.255.255 host <management IP add> eq tacacs
access-list 133 permit udp 172.26.0.0 0.0.255.255 host <management IP add> eq ntp
access-list 133 permit tcp 172.26.0.0 0.0.255.255 host <management IP add> eq 22
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp host <management IP add> gt 1023
established
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp-data host <management IP add> gt
1023
access-list 133 permit tcp 172.26.0.0 0.0.255.255 gt 1023 host <management IP add> gt 1023
established
access-list 133 permit udp 172.26.0.0 0.0.255.255 gt 1023 host <management IP add> gt 1023
access-list 133 permit ip any any log
access-list 134 permit ip host <management IP add><CS-MARS> 172.26.0.0 0.0.255.255
access-list 134 deny ip any any log
!
snmp-server enable traps cpu threshold<tacacs+ server>
snmp-server host <CS-MARS> csmars cpu
tacacs-server host <tacacs+ server> single-connection key 7 <key>
tacacs-server directed-request
!
radius-server source-ports 1645-1646
!
control-plane
service-policy input copp-policy
!
!
dial-peer cor custom
!
!
!
banner login

```

UNAUTHORIZED ACCESS TO THIS DEVICE IS PROHIBITED

You must have explicit, authorized permission to access or configure this device.

Unauthorized attempts and actions to access or use this system may result in civil and/or criminal penalties.

All activities performed on this device are logged and monitored.

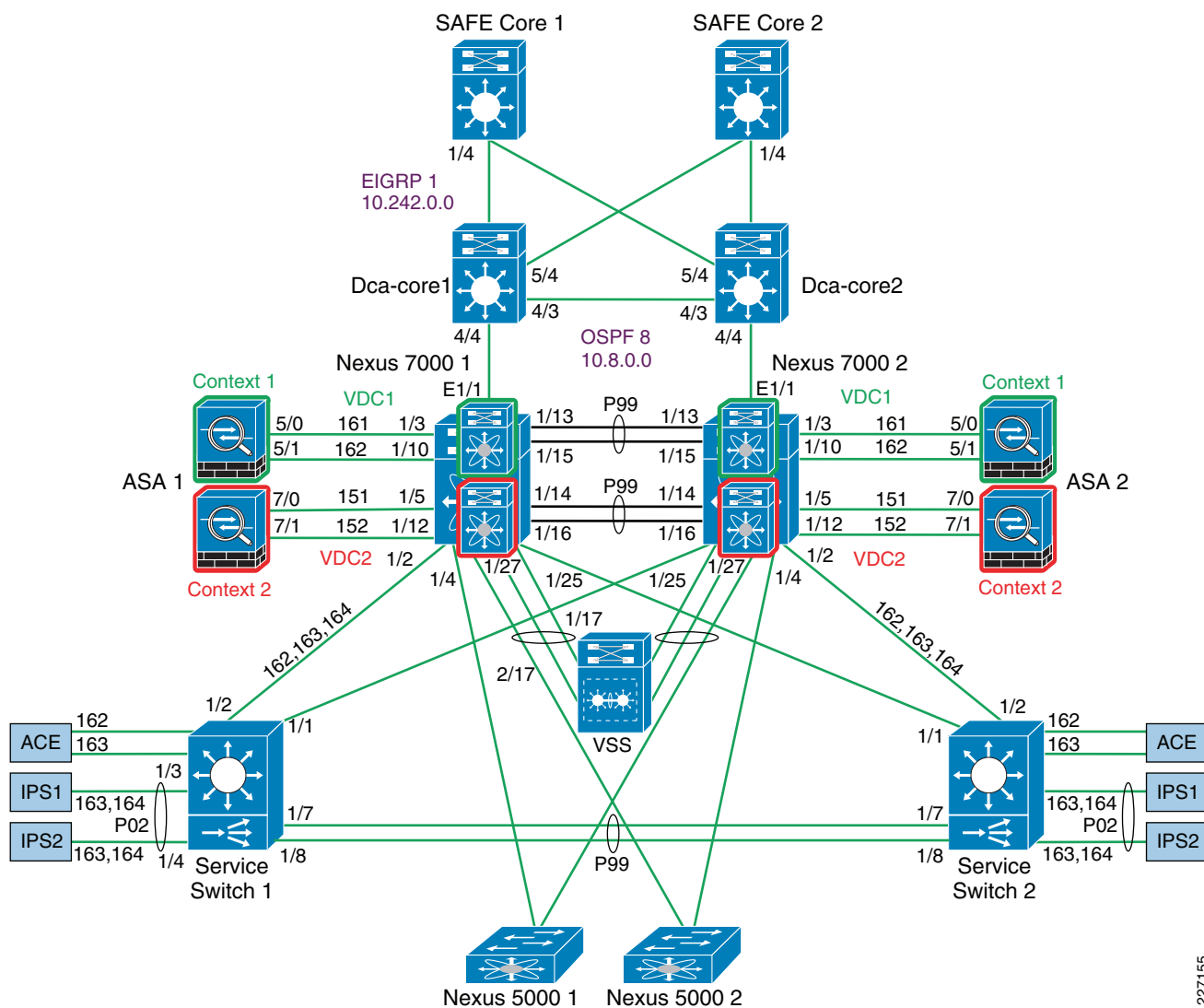
```

!
line con 0
  session-timeout 3
  exec-timeout 3 0
  login authentication authen-exec-list
line vty 0 3
  session-timeout 3
  access-class 111 in
  exec-timeout 3 0
  password 7 <encrypted password><tacacs+ server>
  authorization commands 15 author-15-list
  authorization exec author-exec-list
  login authentication authen-exec-list
  transport preferred none
  transport input ssh
  transport output none
line vty 4
  session-timeout 3
  access-class 112 in
  exec-timeout 3 0
  password 7 <encrypted password>
  authorization commands 15 author-15-list
  authorization exec author-exec-list
  login authentication authen-exec-list
  transport preferred none
  transport input ssh
  transport output none
line vty 5 15
  no exec
  transport input lat pad udptn telnet rlogin
!
exception protocol ftp
exception dump <ftp-server>
process cpu threshold type total rising 80 interval 5 falling 20 interval 5
process cpu statistics limit entry-percentage 40 size 300
ntp authentication-key 10 md5 <encrypted password> 7
ntp authenticate
ntp trusted-key 10
ntp clock-period 17179940
ntp access-group peer 20
ntp access-group serve-only 21
ntp update-calendar
ntp peer <ntp peer>
ntp server <ntp server>
!
end

```

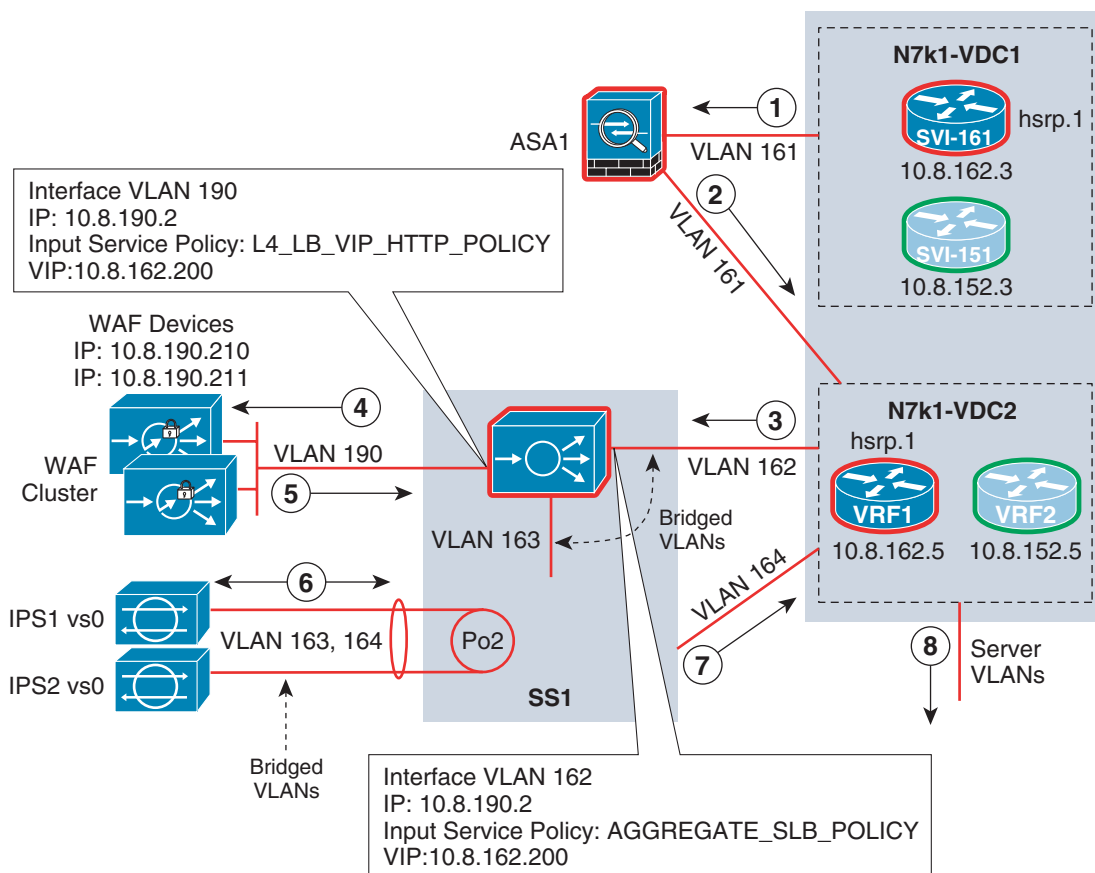
Intranet Data Center

Figure 2 *Intranet Data Center Network Diagram*



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Figure 3 Intranet Data Center Security Service Traffic Flow Diagram



Core Switch—Catalyst 6500

```
DCA-core1
dca-core1#sh run
Building configuration...

.May 14 21:15:44.150 EST: %SEC-6-IPACCESSLOGP: list 133 denied udp x.26.146.86(138) ->
x.26.147.255(138), 1 packet
Current configuration : 16685 bytes
!
! Last configuration change at 19:50:45 EST Mon Mar 23 2009 by chris
! NVRAM config last updated at 00:05:54 EST Thu May 14 2009
!
upgrade fpd auto
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service counters max age 5
!
hostname dca-core1
!
boot-start-marker
boot system disk0:s72033-ipservicesk9-mz.122-33.SXH2a.bin
```

```

boot-end-marker
!
enable secret 5 <encrypted password>.
!
username admin privilege 15 password <encrypted password>
username dma password <encrypted password>
username chris password <encrypted password>
username csmars privilege 15 secret 5 <encrypted password>
aaa new-model
aaa group server tacacs+ tacacs-group
    server x.26.191.94
!
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable
aaa authorization exec author-exec-list group tacacs-group if-authenticated
aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group tacacs-group
aaa accounting commands 15 default start-stop group tacacs-group
aaa accounting system default start-stop group tacacs-group
!
aaa session-id common
clock timezone GMT 0
clock summer-time EST recurring
call-home
    alert-group configuration
    alert-group diagnostic
    alert-group environment
    alert-group inventory
    alert-group syslog
profile "CiscoTAC-1"
    no active
    no destination transport-method http
    destination transport-method email
    destination address email callhome@cisco.com
    destination address http https://tools.cisco.com/its/service/oddce/services/DDCEService
    subscribe-to-alert-group diagnostic severity minor
    subscribe-to-alert-group environment severity minor
    subscribe-to-alert-group syslog severity major pattern ".*"
    subscribe-to-alert-group configuration periodic monthly 9 9:39
    subscribe-to-alert-group inventory periodic monthly 9 9:24
ip subnet-zero
no ip source-route
!
!
!
ip ftp source-interface GigabitEthernet6/3
ip ftp username dma1
ip ftp password <encrypted password>
no ip bootp server
ip multicast-routing
ip ssh authentication-retries 2
ip ssh version 2
ip scp server enable
ip domain-name cisco.com
login block-for 100 attempts 5 within 50
login quiet-mode access-class 10
login on-failure log
udld enable

vtp domain datacenter
vtp mode transparent
!
switch virtual domain 100

```

```

!
mls ip cef load-sharing full simple
mls netflow interface
mls flow ip interface-full
mls nde sender version 5
mls sampling packet-based 128 16000
mls qos
mls cef error action reset
!
flow-sampler-map csmars-sample
  mode random one-out-of 100
!
key chain eigrp
  key 7
    key-string 7 05080F1C2243
key chain eigrp-chain
  key 10
    key-string 7 121A0C0411045D5679
!
!
!
!
!
!
!
!
archive
  path ftp://chrobrie:J0eyD0gg2@x.26.129.252/VSSarchives/$h-$t
  write-memory
memory reserve critical 1000
memory free low-watermark processor 91492
memory free low-watermark IO 6710
!
redundancy
  keepalive-enable
  mode sso
  main-cpu
  auto-sync running-config
!
spanning-tree mode rapid-pvst
spanning-tree extend system-id
diagnostic cns publish cisco.cns.device.diag_results
diagnostic cns subscribe cisco.cns.device.diag_commands
fabric switching-mode allow truncated threshold 1
fabric switching-mode allow truncated
port-channel hash-distribution adaptive
port-channel load-balance src-dst-mixed-ip-port
!
vlan internal allocation policy ascending
vlan access-log ratelimit 2000
!
class-map match-all coppclass-igp
  match access-group name coppacl-igp
class-map match-all coppclass-monitoring
  match access-group name coppacl-monitoring
class-map match-all coppclass-filemanagement
  match access-group name coppacl-filemanagement
class-map match-all coppclass-management
  match access-group name coppacl-management
!
!
policy-map copp-policy
  class coppclass-igp

```

```

        police cir 300000 bc 3000 be 3000      conform-action transmit      exceed-action drop
    violate-action drop
        class coppclass-filemanagement
        police cir 6000000 bc 60000 be 60000    conform-action transmit      exceed-action drop
    violate-action drop
        class coppclass-management
        police cir 500000 bc 5000 be 5000      conform-action transmit      exceed-action drop
    violate-action drop
        class coppclass-monitoring
        police cir 900000 bc 9000 be 9000      conform-action transmit      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 10.7.20.1 255.255.255.0
    ip pim sparse-mode
    ip igmp version 3
    !
    interface Port-channel11
    description <*** to VSS ***>
    ip address 10.7.1.1 255.255.255.0
    ip pim sparse-mode
    ip authentication mode eigrp 7 md5
    ip authentication key-chain eigrp 7 eigrp
    ip igmp version 3
    logging event link-status
    logging event trunk-status
    logging event bundle-status
    load-interval 30
    !
    interface GigabitEthernet1/1
    no ip address
    no ip redirects
    no ip proxy-arp
    load-interval 30
    shutdown
    !
    interface GigabitEthernet1/2
    no ip address
    no ip redirects
    no ip proxy-arp
    load-interval 30
    shutdown
    !
    interface GigabitEthernet1/3
    no ip address
    no ip redirects
    no ip proxy-arp
    load-interval 30
    shutdown
    !
    interface GigabitEthernet1/4
    no ip address
    no ip redirects
    no ip proxy-arp
    load-interval 30
    shutdown
    !
    interface GigabitEthernet1/5

```



```

no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/6
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/7
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/8
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/9
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/10
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/11
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/12
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/13
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/14
no ip address

```

```
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/15
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/16
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/17
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/18
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/19
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/20
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/21
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/22
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/23
no ip address
no ip redirects
```

```

no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/24
description G1/24 -- to NETEM -- ToAbstr1
ip address 10.7.15.1 255.255.255.0
no ip redirects
no ip proxy-arp
ip pim sparse-mode
ip igmp version 3
load-interval 30
!
interface TenGigabitEthernet4/1
description <to dc03-agg>
no ip address
no ip redirects
no ip proxy-arp
ip pim sparse-mode
ip igmp version 3
load-interval 30
channel-protocol pagp
channel-group 11 mode desirable
!
interface TenGigabitEthernet4/2
description <to dc01-agg>
no ip address
no ip redirects
no ip proxy-arp
ip pim sparse-mode
ip igmp version 3
load-interval 30
channel-protocol pagp
channel-group 11 mode desirable
!
interface TenGigabitEthernet4/3
description <to core-2>
ip address 10.8.0.1 255.255.255.0
no ip redirects
no ip proxy-arp
ip pim sparse-mode
ip igmp version 3
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 7 00071A150754
ip ospf hello-interval 1
ip ospf dead-interval 3
logging event link-status
load-interval 30
!
interface TenGigabitEthernet4/4
ip address 10.8.1.1 255.255.255.0
no ip redirects
no ip proxy-arp
ip pim sparse-mode
ip igmp version 3
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 7 094F471A1A0A
ip ospf hello-interval 1
ip ospf dead-interval 3
logging event link-status
load-interval 30
!
interface TenGigabitEthernet5/1
description <to abs1>

```

```

ip address 10.7.11.1 255.255.255.0
ip pim sparse-mode
ip igmp version 3
load-interval 30
!
interface TenGigabitEthernet5/2
description <to abs2>
ip address 10.7.12.1 255.255.255.0
ip flow ingress
ip pim sparse-mode
ip igmp version 3
load-interval 30
mls netflow sampling
flow-sampler csmars-sample
!
interface TenGigabitEthernet5/3
no ip address
ip pim sparse-mode
ip igmp version 3
load-interval 30
!
interface TenGigabitEthernet5/4
ip address 10.242.10.25 255.255.255.254
ip flow ingress
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
logging event link-status
load-interval 30
mls netflow sampling
flow-sampler csmars-sample
!
interface GigabitEthernet6/1
no ip address
shutdown
!
interface GigabitEthernet6/2
no ip address
shutdown
!
interface GigabitEthernet6/3
ip address x.26.146.14 255.255.254.0
ip access-group 133 in
ip access-group 134 out
no ip redirects
no ip proxy-arp
!
interface TenGigabitEthernet6/4
no ip address
shutdown
!
interface TenGigabitEthernet6/5
no ip address
shutdown
!
interface Vlan1
no ip address
shutdown
!
router eigrp 7
 redistribute ospf 8
 network 10.7.0.0 0.0.255.255
 default-metric 1000000 100 255 1 1500
 no auto-summary
 eigrp router-id 1.1.1.1

```

```

!
router eigrp 1
 redistribute ospf 8
 network 10.242.0.0 0.0.255.255
 default-metric 1000000 100 255 1 1500
 no auto-summary
!
router ospf 8
 router-id 8.8.8.1
 log-adjacency-changes
 auto-cost reference-bandwidth 10000
 area 0 authentication message-digest
 timers throttle spf 10 100 5000
 timers throttle lsa all 10 100 5000
 redistribute connected
 redistribute static subnets
 redistribute eigrp 7 subnets
 passive-interface default
 no passive-interface TenGigabitEthernet4/3
 no passive-interface TenGigabitEthernet4/4
 network 10.8.0.0 0.0.0.255 area 0
 network 10.8.1.0 0.0.0.255 area 0
 network 10.8.2.0 0.0.0.255 area 0
 default-information originate
!
ip classless
ip route 0.0.0.0 0.0.0.0 10.242.10.24
ip route 10.116.132.0 255.255.255.240 x.26.146.1
ip route 64.102.208.0 255.255.254.0 x.26.146.1
ip route x.26.0.0 255.255.0.0 x.26.146.1
ip route x.26.0.0 255.255.0.0 x.26.170.1
ip route x.26.129.252 255.255.255.255 x.26.146.1
!
ip flow-export source GigabitEthernet6/3
ip flow-export version 5
ip flow-export destination x.26.191.99 2055
!
no ip http server
no ip http secure-server
ip pim bsr-candidate Loopback0 0
ip pim rp-candidate Loopback0 priority 100
ip tacacs source-interface GigabitEthernet6/3
!
ip access-list extended coppacl-filemanagement
 remark CoPP File transfer traffic class
 permit tcp x.26.0.0 0.0.255.255 eq ftp host x.26.146.14 gt 1023 established
 permit tcp x.26.0.0 0.0.255.255 eq ftp-data host x.26.146.14 gt 1023
 permit tcp x.26.0.0 0.0.255.255 gt 1023 host x.26.146.14 gt 1023 established
 permit udp x.26.0.0 0.0.255.255 gt 1023 host x.26.146.14 gt 1023
ip access-list extended coppacl-igp
 remark IGP traffic class
 permit eigrp any host 224.0.0.10
 permit eigrp x.26.0.0 0.0.255.255 host x.26.146.14
ip access-list extended coppacl-management
 remark CoPP management traffic class
 permit tcp x.26.0.0 0.0.255.255 eq tacacs host x.26.146.14 established
 permit tcp x.26.0.0 0.0.255.255 host x.26.146.14 eq 22
 permit tcp x.26.0.0 0.0.255.255 host x.26.146.14 eq telnet
 permit udp x.26.0.0 0.0.255.255 host x.26.146.14 eq snmp
 permit udp x.26.0.0 0.0.255.255 host x.26.146.14 eq ntp
ip access-list extended coppacl-monitoring
 remark CoPP monitoring traffic class
 permit icmp any any ttl-exceeded
 permit icmp any any port-unreachable

```

```

permit icmp any any echo-reply
permit icmp any any echo
!
kron occurrence daily-config-backup at 0:05 recurring
policy-list backup-config
!
kron policy-list backup-config
cli write memory
!
logging trap critical
logging source-interface GigabitEthernet6/3
logging x.26.191.94
access-list 7 permit 10.7.0.0 0.0.255.255
access-list 8 permit 10.8.0.0 0.0.255.255
access-list 10 permit x.26.191.92
access-list 55 remark ACL for SNMP access to device
access-list 55 permit x.26.191.99
access-list 55 deny any log
access-list 111 remark ACL for SSH
access-list 111 permit tcp x.26.0.0 0.0.255.255 any eq 22
access-list 111 deny ip any any log-input
access-list 111 permit tcp x.26.0.0 0.0.255.255 eq telnet any
access-list 111 permit tcp 10.0.0.0 0.255.255.255 eq telnet any
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host x.26.191.92 any eq 22
access-list 112 deny ip any any log-input
access-list 133 permit icmp x.26.0.0 0.0.255.255 host x.26.146.14 ttl-exceeded
access-list 133 permit icmp x.26.0.0 0.0.255.255 host x.26.146.14 port-unreachable
access-list 133 permit icmp x.26.0.0 0.0.255.255 host x.26.146.14 echo-reply
access-list 133 permit icmp x.26.0.0 0.0.255.255 host x.26.146.14 echo
access-list 133 permit tcp x.26.0.0 0.0.255.255 eq tacacs host x.26.146.14 established
access-list 133 permit tcp x.26.0.0 0.0.255.255 host x.26.146.14 eq tacacs
access-list 133 permit udp x.26.0.0 0.0.255.255 host x.26.146.14 eq ntp
access-list 133 permit tcp x.26.0.0 0.0.255.255 host x.26.146.14 eq 22
access-list 133 permit tcp x.26.0.0 0.0.255.255 eq ftp host x.26.146.14 gt 1023
established
access-list 133 permit tcp x.26.0.0 0.0.255.255 eq ftp-data host x.26.146.14 gt 1023
access-list 133 permit tcp x.26.0.0 0.0.255.255 gt 1023 host x.26.146.14 gt 1023
established
access-list 133 permit udp x.26.0.0 0.0.255.255 gt 1023 host x.26.146.14 gt 1023
access-list 133 permit udp host x.26.191.99 host x.26.146.14 eq snmp
access-list 133 deny ip any any log
access-list 134 permit ip host x.26.146.14 x.26.0.0 0.0.255.255
access-list 134 deny ip any any log
snmp-server community public RO
snmp-server community csmars RO 55
snmp-server chassis-id DCA-agg2
snmp-server enable traps cpu threshold
snmp-server host x.26.191.99 csmars cpu
snmp ifmib ifindex persist
tacacs-server host x.26.191.94 single-connection key 7 02050D4808095E731F
tacacs-server directed-request
!
radius-server source-ports 1645-1646
!
control-plane
service-policy input copp-policy
!
!
dial-peer cor custom
!
!
!
banner login ^C

```

UNAUTHORIZED ACCESS TO THIS DEVICE IS PROHIBITED You must have explicit, authorized permission to access or configure this device.Unauthorized attempts and actions to access or use this system may result in civil and/or criminal penalties.
All activities performed on this device are logged and monitored.

```
^C
!
line con 0
  session-timeout 3
  login authentication authen-exec-list
line vty 0 3
  session-timeout 480
  access-class 111 in
  exec-timeout 480 0
  password <encrypted password>
  authorization commands 15 author-15-list
  authorization exec author-exec-list
  login authentication authen-exec-list
  length 0
  transport preferred none
  transport input ssh
  transport output none
line vty 4
  session-timeout 480
  access-class 112 in
  exec-timeout 480 0
  password <encrypted password>
  authorization commands 15 author-15-list
  authorization exec author-exec-list
  login authentication authen-exec-list
  length 0
  transport preferred none
  transport input ssh
  transport output none
line vty 5 15
  no exec
  transport input none
!
exception protocol ftp
exception dump x.26.129.252
process cpu threshold type total rising 80 interval 5 falling 20 interval 5
process cpu statistics limit entry-percentage 40 size 300
ntp authentication-key 10 md5 110A1016141D5A5E57 7
ntp authenticate
ntp trusted-key 10
ntp clock-period 17238214
ntp source GigabitEthernet6/3
ntp update-calendar
ntp server x.26.170.14
ntp server x.26.170.13
!
end
```

```
DCA-core2
dca-core2#sh run
Building configuration...
```

```
Current configuration : 16721 bytes
!
! Last configuration change at 23:27:03 EST Tue May 12 2009 by chris
! NVRAM config last updated at 00:05:37 EST Thu May 14 2009
```

```

!
upgrade fpd auto
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service counters max age 5
!
hostname dca-core2
!
boot-start-marker
boot system disk0:s72033-ipservei
.May 14 21:17:19.448 EST: %SEC-6-IPACCESSLOGP: list 133 denied udp x.26.146.21(137) ->
x.26.147.255(137), 1 packetcesk9-mz.122-33.SXH2a.bin
boot-end-marker
!
enable secret 5 $(encrypted password)/
enable password <encrypted password>
!
username admin privilege 15 password <encrypted password>
username dm
username dma password 7 <encrypted password>
username chris password 7 <encrypted password>
username csmars privilege 15 secret 5 <encrypted password>/
aaa new-model
aaa group server tacacs+ tacacs-group
    server x.26.191.94
!
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable
aaa authorization exec author-exec-list group tacacs-group if-authenticated
aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group tacacs-group
aaa accounting commands 15 default start-stop group tacacs-group
aaa accounting system default start-stop group tacacs-group
!
aaa session-id common
clock timezone GMT 0
clock summer-time EST recurring
call-home
    alert-group configuration
    alert-group diagnostic
    alert-group environment
    alert-group inventory
    alert-group syslog
profile "CiscoTAC-1"
    no active
    no destination transport-method http
    destination transport-method email
    destination address email callhome@cisco.com
    destination address http https://tools.cisco.com/its/service/oddce/services/DDCEService
    subscribe-to-alert-group diagnostic severity minor
    subscribe-to-alert-group environment severity minor
    subscribe-to-alert-group syslog severity major pattern ".*"
    subscribe-to-alert-group configuration periodic monthly 16 16:46
    subscribe-to-alert-group inventory periodic monthly 16 16:31
ip subnet-zero
no ip source-route
!
!
!

```



```

ip ftp source-interface GigabitEthernet6/3
ip ftp username admin
ip ftp password 7 <encrypted password>
no ip bootp server
ip multicast-routing
ip ssh authentication-retries 2
ip ssh version 2
ip scp server enable
no ip domain-lookup
ip domain-name cisco.com
login block-for 100 attempts 5 within 50
login quiet-mode access-class 10
login on-failure log
udld enable

vtp domain datacenter
vtp mode transparent
!
switch virtual domain 100
!
mls ip cef load-sharing full simple
mls netflow interface
mls flow ip interface-full
mls nde sender version 5
mls sampling packet-based 128 16000
mls qos
mls cef error action reset
!
flow-sampler-map csmars-sample
mode random one-out-of 100
!
key chain eigrp
key 7
key-string 7 13061E010803
key chain eigrp-chain
key 10
key-string 7 05080F1C22431F5B4A
!
!
!
!
!
!
!
!
!
archive
path ftp://chrobrie:J0eyD0gg2@x.26.129.252/VSSarchives/$h-$t
write-memory
memory reserve critical 1000
memory free low-watermark processor 91492
memory free low-watermark IO 6710
!
redundancy
keepalive-enable
mode sso
main-cpu
auto-sync running-config
!
spanning-tree mode rapid-pvst
spanning-tree extend system-id
diagnostic cns publish cisco.cns.device.diag_results
diagnostic cns subscribe cisco.cns.device.diag_commands
fabric switching-mode allow truncated threshold 1

```

```

fabric switching-mode allow truncated
port-channel hash-distribution adaptive
port-channel load-balance src-dst-mixed-ip-port
!
vlan internal allocation policy ascending
vlan access-log ratelimit 2000
!
class-map match-all coppclass-igp
  match access-group name coppacl-igp
class-map match-all coppclass-monitoring
  match access-group name coppacl-monitoring
class-map match-all coppclass-filemanagement
  match access-group name coppacl-filemanagement
class-map match-all coppclass-management
  match access-group name coppacl-management
!
!
policy-map copp-policy
  class coppclass-igp
    police cir 300000 bc 3000 be 3000    conform-action transmit    exceed-action drop
  violate-action drop
  class coppclass-filemanagement
    police cir 6000000 bc 60000 be 60000    conform-action transmit    exceed-action drop
  violate-action drop
  class coppclass-management
    police cir 500000 bc 5000 be 5000    conform-action transmit    exceed-action drop
  violate-action drop
  class coppclass-monitoring
    police cir 900000 bc 9000 be 9000    conform-action transmit    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 10.7.21.1 255.255.255.0
  ip pim sparse-mode
  ip igmp version 3
!
interface Port-channel12
  ip address 10.7.2.1 255.255.255.0
  ip pim sparse-mode
  ip authentication mode eigrp 7 md5
  ip authentication key-chain eigrp 7 eigrp
  ip igmp version 3
  logging event link-status
  logging event trunk-status
  logging event bundle-status
!
interface GigabitEthernet1/1
  no ip address
  no ip redirects
  no ip proxy-arp
  load-interval 30
  shutdown
!
interface GigabitEthernet1/2
  no ip address
  no ip redirects
  no ip proxy-arp
  load-interval 30

```

```

shutdown
!
interface GigabitEthernet1/3
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/4
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/5
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/6
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/7
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/8
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/9
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/10
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
-More--
.May 14 21:17:26.937 EST: %SEC-6-IPACCESSLOGP: list 133 denied udp x.26.146.34(137) ->
x.26.147.255(137), 3 packets
.May 14 21:17:26.937 EST: %SEC-6-IPACCESSLOGRP: list 133 denied igmp x.26.146.75 ->
224.0.0.2, 5 packeinterface GigabitEthernet1/11
no ip address

```

```
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/12
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/13
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/14
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/15
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/16
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/17
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/18
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/19
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/20
no ip address
no ip redirects
```

```

no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/21
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/22
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/23
no ip address
no ip redirects
no ip proxy-arp
load-interval 30
shutdown
!
interface GigabitEthernet1/24
description G1/24 -- NETEM -- Abstr2
ip address 10.7.16.1 255.255.255.0
no ip redirects
no ip proxy-arp
ip pim sparse-mode
ip igmp version 3
load-interval 30
!
interface TenGigabitEthernet4/1
description <** to Agg2 **>
no ip address
no ip redirects
no ip proxy-arp
ip pim sparse-mode
ip igmp version 3
load-interval 30
channel-protocol pagp
channel-group 12 mode desirable
!
interface TenGigabitEthernet4/2
description <** to Agg1 **>
no ip address
no ip redirects
no ip proxy-arp
ip pim sparse-mode
ip igmp version 3
load-interval 30
channel-protocol pagp
channel-group 12 mode desirable
!
interface TenGigabitEthernet4/3
description <<** to Core1 **>>
ip address 10.8.0.2 255.255.255.0
no ip redirects
no ip proxy-arp
ip pim sparse-mode
ip igmp version 3
ip ospf authentication message-digest

```

```

ip ospf message-digest-key 1 md5 7 0822455D0A16
ip ospf hello-interval 1
ip ospf dead-interval 3
logging event link-status
load-interval 30
!
interface TenGigabitEthernet4/4
ip address 10.8.2.1 255.255.255.0
no ip redirects
no ip proxy-arp
ip pim sparse-mode
ip igmp query-interval 125
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 7 05080F1C2243
ip ospf hello-interval 1
ip ospf dead-interval 3
logging event link-status
load-interval 30
!
interface TenGigabitEthernet5/1
description <<** to Abstr1 **>>
ip address 10.7.13.1 255.255.255.0
no ip redirects
no ip proxy-arp
ip pim sparse-mode
ip igmp version 3
load-interval 30
!
interface TenGigabitEthernet5/2
description <<** to Abstr2 **>>
ip address 10.7.14.1 255.255.255.0
no ip redirects
no ip proxy-arp
ip flow ingress
ip pim sparse-mode
ip igmp version 3
load-interval 30
mls netflow sampling
flow-sampler csmars-sample
!
interface TenGigabitEthernet5/3
no ip address
no ip redirects
no ip proxy-arp
ip pim sparse-mode
ip igmp version 3
load-interval 30
!
interface TenGigabitEthernet5/4
ip address 10.242.10.27 255.255.255.254
no ip redirects
no ip proxy-arp
ip flow ingress
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
logging event link-status
load-interval 30
mls netflow sampling
flow-sampler csmars-sample
!
interface GigabitEthernet6/1
no ip address
shutdown
!

```

```

interface GigabitEthernet6/2
  no ip address
  shutdown
!
interface GigabitEthernet6/3
  ip address x.26.146.15 255.255.254.0
  ip access-group 133 in
  ip access-group 134 out
  no ip redirects
  no ip proxy-arp
!
interface TenGigabitEthernet6/4
  no ip address
  --
.May 14 21:17:31.964 EST: %SEC-6-IPACCESSLOGP: list 133 denied udp x.26.146.133(137) ->
x.26.147.255(137), 1 pac shutdown
!
interface TenGigabitEthernet6/5
  no ip address
!
interface Vlan1
  no ip address
  shutdown
!
router eigrp 7
  redistribute ospf 8
  network 10.7.0.0 0.0.255.255
  default-metric 1000000 100 255 1 1500
  no auto-summary
  eigrp router-id 1.1.1.2
!
router eigrp 1
  redistribute ospf 8
  network 10.242.0.0 0.0.255.255
  default-metric 1000000 100 255 1 1500
  no auto-summary
!
router ospf 8
  router-id 8.8.8.2
  log-adjacency-changes
  auto-cost reference-bandwidth 10000
  area 0 authentication message-digest
  timers throttle spf 10 100 5000
  timers throttle lsa all 10 100 5000
  redistribute connected
  redistribute static subnets
  redistribute eigrp 7 subnets
  passive-interface default
  no passive-interface TenGigabitEthernet4/3
  no passive-interface TenGigabitEthernet4/4
  network 10.8.0.0 0.0.0.255 area 0
  network 10.8.1.0 0.0.0.255 area 0
  network 10.8.2.0 0.0.0.255 area 0
  default-information originate
!
ip classless
ip route 0.0.0.0 0.0.0.0 10.242.10.26
ip route 10.116.132.0 255.255.255.240 x.26.146.1
ip route 64.102.208.0 255.255.254.0 x.26.146.1
ip route x.26.0.0 255.255.0.0 x.26.146.1
ip route x.26.129.252 255.255.255.255 x.26.146.1
!
ip flow-export source GigabitEthernet6/3
ip flow-export destination x.26.191.99 2055

```

```

!
no ip http server
no ip http secure-server
ip pim bsr-candidate Loopback0 0
ip pim rp-candidate Loopback0 priority 90
ip tacacs source-interface GigabitEthernet6/3
!
ip access-list extended coppacl-filemanagement
remark CoPP File transfer traffic class
permit tcp x.26.0.0 0.0.255.255 eq ftp host x.26.146.15 gt 1023 established
permit tcp x.26.0.0 0.0.255.255 eq ftp-data host x.26.146.15 gt 1023
permit tcp x.26.0.0 0.0.255.255 gt 1023 host x.26.146.15 gt 1023 established
permit udp x.26.0.0 0.0.255.255 gt 1023 host x.26.146.15 gt 1023
ip access-list extended coppacl-igmp
remark IGP traffic class
permit eigrp any host 224.0.0.10
permit eigrp x.26.0.0 0.0.255.255 host x.26.146.15
ip access-list extended coppacl-management
remark CoPP management traffic class
permit tcp x.26.0.0 0.0.255.255 eq tacacs host x.26.146.15 established
permit tcp x.26.0.0 0.0.255.255 host x.26.146.15 eq 22
permit tcp x.26.0.0 0.0.255.255 host x.26.146.15 eq telnet
permit udp x.26.0.0 0.0.255.255 host x.26.146.15 eq snmp
permit udp x.26.0.0 0.0.255.255 host x.26.146.15 eq ntp
ip access-list extended coppacl-monitoring
remark CoPP monitoring traffic class
permit icmp any any ttl-exceeded
permit icmp any any port-unreachable
permit icmp any any echo-reply
permit icmp any any echo
!
kron occurrence daily-config-backup at 0:05 recurring
policy-list backup-config
!
kron policy-list backup-config
cli write memory
!
logging trap critical
logging x.26.191.99
access-list 7 permit 10.7.0.0 0.0.255.255
access-list 8 permit 10.8.0.0 0.0.255.255
access-list 10 permit x.26.191.92
access-list 10 remark
access-list 10 remark Login Delay a 100-second quiet period if 5 failed login attempts is
exceeded
access-list 55 remark ACL for SNMP access to device
access-list 55 permit x.26.191.99
access-list 55 deny any log
access-list 111 remark ACL for SSH
access-list 111 permit tcp x.26.0.0 0.0.255.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host x.26.191.92 any eq 22
access-list 112 deny ip any any log-input
access-list 133 permit icmp x.26.0.0 0.0.255.255 host x.26.146.15 ttl-exceeded
access-list 133 permit icmp x.26.0.0 0.0.255.255 host x.26.146.15 port-unreachable
access-list 133 permit icmp x.26.0.0 0.0.255.255 host x.26.146.15 echo-reply
access-list 133 permit icmp x.26.0.0 0.0.255.255 host x.26.146.15 echo
access-list 133 permit tcp x.26.0.0 0.0.255.255 eq tacacs host x.26.146.15 established
access-list 133 permit tcp x.26.0.0 0.0.255.255 host x.26.146.15 eq tacacs
access-list 133 permit udp x.26.0.0 0.0.255.255 host x.26.146.15 eq ntp
access-list 133 permit tcp x.26.0.0 0.0.255.255 host x.26.146.15 eq 22
access-list 133 permit tcp x.26.0.0 0.0.255.255 eq ftp host x.26.146.15 gt 1023
established

```



```

access-list 133 permit tcp x.26.0.0 0.0.255.255 eq ftp-data host x.26.146.15 gt 1023
access-list 133 permit tcp x.26.0.0 0.0.255.255 gt 1023 host x.26.146.15 gt 1023
established
access-list 133 permit udp x.26.0.0 0.0.255.255 gt 1023 host x.26.146.15 gt 1023
access-list 133 permit udp host x.26.191.99 host x.26.146.15 eq snmp
access-list 133 deny ip any any log
access-list 134 permit ip host x.26.146.15 x.26.0.0 0.0.255.255
access-list 134 deny ip any any log
snmp-server community public RO
snmp-server community csmars RO 55
snmp-server chassis-id DCA-agg2
snmp-server enable traps cpu threshold
snmp-server host x.26.191.99 public cpu
snmp ifmib ifindex persist
tacacs-server host x.26.191.94 single-connection key 7 01100F175804575D72
tacacs-server directed-request
!
radius-server source-ports 1645-1646
!
control-plane
 service-policy input copp-policy
!
!
dial-peer cor custom
!
!
!
banner login ^C
UNAUTHORIZED ACCESS TO THIS DEVICE IS PROHIBITED
You must have explicit, authorized permission to access or configure this device.
Unauthorized attempts and actions to access or use this system may result in civil and/or
criminal penalties.
All activities performed on this device are logged and monitored.
^C
!
line con 0
 session-timeout 3
 login authentication authen-exec-list
line vty 0 3
 session-timeout 480
 access-class 111 in
 exec-timeout 480 0
 password 7 <encrypted password>
 authorization commands 15 author-15-list
 authorization exec author-exec-list
 login authentication authen-exec-list
 length 0
 transport preferred none
 transport input ssh
 transport output none
line vty 4
 session-timeout 480
 access-class 112 in
 exec-timeout 480 0
 password 7 <encrypted password>
 authorization commands 15 author-15-list
 authorization exec author-exec-list
 login authentication authen-exec-list
 length 0
 transport preferred none
 transport input ssh
 transport output none
line vty 5 15
 no exec

```

```

transport input none
!
exception protocol ftp
exception dump x.26.129.252
process cpu threshold type total rising 80 interval 5 falling 20 interval 5
process cpu statistics limit entry-percentage 40 size 300
ntp authentication-key 10 md5 13061E010803557878 7
ntp authenticate
ntp trusted-key 10
ntp clock-period 17093461
ntp source GigabitEthernet6/3
ntp server x.26.170.14
ntp server x.26.170.13
!
end

Aggregation Switch - Nexus 7000
Nexus 7000 1
dca-n7k1# sh run vdc-all
!Running config for default vdc: dca-n7k1

version 4.1(2)
power redundancy-mode combined force

feature telnet
feature tacacs+
feature ospf
feature pim
feature private-vlan
feature udlid
feature interface-vlan
feature netflow
feature hsrp
feature lacp

role feature-group name network-admin
username admin password 5 <encrypted password>role network-admin
username dma password 5 <encrypted password>role network-admin
username chris password 5 <encrypted password>. role network-admin
username me password 5 <encrypted password>role network-operator
ntp server x.26.146.1 use-vrf management
ntp source x.26.146.136
ip domain-lookup
ip host dca-n7k1 x.26.146.136
tacacs-server key 7 "<key>"
tacacs-server host x.26.191.94 key 7 "<key>"
aaa group server tacacs+ tacacs-group
    server x.26.191.94
    use-vrf management
switchname dca-n7k1
ip access-list copp-system-acl-ftp
    10 permit tcp any any eq ftp-data
    20 permit tcp any any eq ftp
    30 permit tcp any eq ftp-data any
    40 permit tcp any eq ftp any
ip access-list copp-system-acl-bgp
    10 permit tcp any gt 1024 any eq bgp
    20 permit tcp any eq bgp any gt 1024
ip access-list copp-system-acl-rip
    10 permit udp any 224.0.0.0/24 eq rip
ip access-list copp-system-acl-vrrp
    10 permit 112 any 224.0.0.0/24
ip access-list 134
    10 permit ip x.26.146.136/32 x.26.0.0/16

```

```

20 deny ip any any log
ip access-list copp-system-acl-igmp
10 permit igmp any 224.0.0.0/24
ip access-list copp-system-acl-pim
10 permit pim any 224.0.0.0/24
20 permit udp any any eq pim-auto-rp
ip access-list copp-system-acl-msdp
10 permit tcp any gt 1024 any eq 639
20 permit tcp any eq 639 any gt 1024
ip access-list copp-system-acl-telnet
10 permit tcp any any eq telnet
20 permit tcp any any eq 107
30 permit tcp any eq telnet any
40 permit tcp any eq 107 any
ip access-list copp-system-acl-tftp
10 permit udp any any eq tftp
20 permit udp any any eq 1758
30 permit udp any eq tftp any
40 permit udp any eq 1758 any
ip access-list copp-system-acl-eigrp
10 permit eigrp any any
ip access-list copp-system-acl-ssh
10 permit tcp any any eq 22
20 permit tcp any eq 22 any
ip access-list copp-system-acl-glbp
10 permit udp any eq 3222 224.0.0.0/24 eq 3222
ip access-list copp-system-acl-snmp
10 permit udp any any eq snmp
20 permit udp any any eq snmptrap
ip access-list copp-system-acl-hsrp
10 permit udp any 224.0.0.0/24 eq 1985
ip access-list copp-system-acl-ospf
10 permit ospf any any
ip access-list copp-system-acl-sftp
10 permit tcp any any eq 115
20 permit tcp any eq 115 any
ip access-list copp-system-acl-tacacs
10 permit tcp any any eq tacacs
20 permit tcp any eq tacacs any
ip access-list 133
10 permit icmp x.26.0.0/16 x.26.146.136/32 ttl-exceeded
20 permit icmp x.26.0.0/16 x.26.146.136/32 port-unreachable
30 permit icmp x.26.0.0/16 x.26.146.136/32 echo-reply
40 permit icmp x.26.0.0/16 x.26.146.136/32 echo
50 permit tcp x.26.0.0/16 eq tacacs x.26.146.136/32 established
60 permit tcp x.26.0.0/16 x.26.146.136/32 eq tacacs
70 permit udp x.26.0.0/16 x.26.146.136/32 eq ntp
80 permit tcp x.26.0.0/16 x.26.146.136/32 eq 22
90 permit tcp x.26.0.0/16 eq ftp x.26.146.136/32 gt 1023 established
100 permit tcp x.26.0.0/16 eq ftp-data x.26.146.136/32 gt 1023
110 permit tcp x.26.0.0/16 gt 1023 x.26.146.136/32 gt 1023 established
120 permit udp x.26.0.0/16 gt 1023 x.26.146.136/32 gt 1023
130 permit udp x.26.191.99/32 x.26.146.136/32 eq snmp
140 deny ip any any log
ip access-list copp-system-acl-traceroute
10 permit icmp any any ttl-exceeded
20 permit icmp any any port-unreachable
ip access-list copp-system-acl-undesirable
10 permit udp any any eq 1434
ip access-list copp-system-acl-icmp
10 permit icmp any any echo
20 permit icmp any any echo-reply
ip access-list copp-system-acl-radius
10 permit udp any any eq 1812

```

```

20 permit udp any any eq 1813
30 permit udp any any eq 1645
40 permit udp any any eq 1646
50 permit udp any eq 1812 any
60 permit udp any eq 1813 any
70 permit udp any eq 1645 any
80 permit udp any eq 1646 any
ip access-list copp-system-acl-ntp
 10 permit udp any any eq ntp
 20 permit udp any eq ntp any
class-map type control-plane match-any copp-system-class-critical
 match access-group name copp-system-acl-bgp
 match access-group name copp-system-acl-eigrp
 match access-group name copp-system-acl-igmp
 match access-group name copp-system-acl-msdp
 match access-group name copp-system-acl-ospf
 match access-group name copp-system-acl-pim
 match access-group name copp-system-acl-rip
class-map type control-plane match-any copp-system-class-exception
 match exception ip option
 match exception ip icmp unreachable
class-map type control-plane match-any copp-system-class-important
 match access-group name copp-system-acl-glbp
 match access-group name copp-system-acl-hsrp
 match access-group name copp-system-acl-vrrp
class-map type control-plane match-any copp-system-class-management
 match access-group name copp-system-acl-ftp
 match access-group name copp-system-acl-ntp
 match access-group name copp-system-acl-radius
 match access-group name copp-system-acl-sftp
 match access-group name copp-system-acl-snmp
 match access-group name copp-system-acl-ssh
 match access-group name copp-system-acl-tacacs
 match access-group name copp-system-acl-telnet
 match access-group name copp-system-acl-tftp
class-map type control-plane match-any copp-system-class-monitoring
 match access-group name copp-system-acl-icmp
 match access-group name copp-system-acl-traceroute
class-map type control-plane match-any copp-system-class-normal
 match protocol arp
class-map type control-plane match-any copp-system-class-redirect
 match redirect dhcp-snoop
 match redirect arp-inspect
class-map type control-plane match-any copp-system-class-undesirable
 match access-group name copp-system-acl-undesirable
policy-map type control-plane copp-system-policy
 class copp-system-class-critical
  police cir 40900 kbps bc 250 ms conform transmit violate drop
 class copp-system-class-important
  police cir 1060 kbps bc 250 ms conform transmit violate drop
 class copp-system-class-management
  police cir 10000 kbps bc 250 ms conform transmit violate drop
 class copp-system-class-normal
  police cir 680 kbps bc 250 ms conform transmit violate drop
 class copp-system-class-redirect
  police cir 280 kbps bc 250 ms conform transmit violate drop
 class copp-system-class-monitoring
  police cir 100 kbps bc 250 ms conform transmit violate drop
 class copp-system-class-exception
  police cir 360 kbps bc 250 ms conform transmit violate drop
 class copp-system-class-undesirable
  police cir 32 kbps bc 250 ms conform drop violate drop
 class class-default
  police cir 100 kbps bc 250 ms conform transmit violate drop

```

```

control-plane
  service-policy input copp-system-policy
snmp-server user me network-operator auth md5 0xdd0bd06e76f692a1bbaebceac6f6ee1a
  priv 0xdd0bd06e76f692a1bbaebceac6f6ee1a localizedkey
snmp-server user dma network-admin auth md5 0xdd0bd06e76f692a1bbaebceac6f6ee1a p
  riv 0xdd0bd06e76f692a1bbaebceac6f6ee1a localizedkey
snmp-server user admin network-admin auth md5 0xdd0bd06e76f692a1bbaebceac6f6ee1a
  priv 0xdd0bd06e76f692a1bbaebceac6f6ee1a localizedkey
snmp-server user chris network-admin auth md5 0xdd0bd06e76f692a1bbaebceac6f6ee1a
  priv 0xdd0bd06e76f692a1bbaebceac6f6ee1a localizedkey
snmp-server enable traps entity fru
aaa authentication login console group tacacs-group
aaa accounting default group tacacs-group
aaa authentication login error-enable
aaa authentication login ascii-authentication

vrf context management
  ip route 0.0.0.0/0 10.1.1.1
  ip route 0.0.0.0/0 x.26.146.1
vlan 1
route-map clients permit 1

vdc dca-n7k1 id 1
  limit-resource vlan minimum 16 maximum 4094
  limit-resource monitor-session minimum 0 maximum 2
  limit-resource vrf minimum 16 maximum 8192
  limit-resource port-channel minimum 0 maximum 192
  limit-resource u4route-mem minimum 32 maximum 32
  limit-resource u6route-mem minimum 16 maximum 16
  limit-resource m4route-mem minimum 48 maximum 48
  limit-resource m6route-mem minimum 8 maximum 8
vdc vdc1 id 2
  allocate interface Ethernet1/1,Ethernet1/3,Ethernet1/5,Ethernet1/7,Ethernet1/9
,Ethernet1/11,Ethernet1/13,Ethernet1/15
  allocate interface Ethernet2/2,Ethernet2/4,Ethernet2/6,Ethernet2/8
  limit-resource vlan minimum 16 maximum 4094
  limit-resource monitor-session minimum 0 maximum 2
  limit-resource vrf minimum 16 maximum 8192
  limit-resource port-channel minimum 0 maximum 192
  limit-resource u4route-mem minimum 8 maximum 8
  limit-resource u6route-mem minimum 4 maximum 4
  limit-resource m4route-mem minimum 8 maximum 8
  limit-resource m6route-mem minimum 2 maximum 2
vdc vdc2 id 3
  allocate interface Ethernet1/2,Ethernet1/4,Ethernet1/6,Ethernet1/8,Ethernet1/1
0,Ethernet1/12,Ethernet1/14,Ethernet1/16-32
  allocate interface Ethernet2/1,Ethernet2/3,Ethernet2/5,Ethernet2/7,Ethernet2/9
-48
  limit-resource vlan minimum 16 maximum 4094
  limit-resource monitor-session minimum 0 maximum 2
  limit-resource vrf minimum 16 maximum 8192
  limit-resource port-channel minimum 0 maximum 192
  limit-resource u4route-mem minimum 8 maximum 8
  limit-resource u6route-mem minimum 4 maximum 4
  limit-resource m4route-mem minimum 8 maximum 8
  limit-resource m6route-mem minimum 2 maximum 2

interface Vlan1

interface cmp-mgmt module 5
  ip address x.26.146.175 255.255.254.0
  ip default-gateway x.26.146.1
interface cmp-mgmt module 6
  ip address x.26.146.176 255.255.254.0

```

```
ip default-gateway x.26.146.1

interface Ethernet10/1
interface Ethernet10/2
interface Ethernet10/3
interface Ethernet10/4
interface Ethernet10/5
interface Ethernet10/6
interface Ethernet10/7
interface Ethernet10/8
interface Ethernet10/9
interface Ethernet10/10
interface Ethernet10/11
interface Ethernet10/12
interface Ethernet10/13
interface Ethernet10/14
interface Ethernet10/15
interface Ethernet10/16
interface Ethernet10/17
interface Ethernet10/18
interface Ethernet10/19
interface Ethernet10/20
interface Ethernet10/21
interface Ethernet10/22
interface Ethernet10/23
interface Ethernet10/24
interface Ethernet10/25
interface Ethernet10/26
interface Ethernet10/27
interface Ethernet10/28
interface Ethernet10/29
interface Ethernet10/30
interface Ethernet10/31
```

```

interface Ethernet10/32

interface Ethernet10/33

interface Ethernet10/34

interface Ethernet10/35

interface Ethernet10/36

interface Ethernet10/37

interface Ethernet10/38

interface Ethernet10/39

interface Ethernet10/40

interface Ethernet10/41

interface Ethernet10/42

interface Ethernet10/43

interface Ethernet10/44

interface Ethernet10/45

interface Ethernet10/46

interface Ethernet10/47

interface Ethernet10/48

interface mgmt0
  ip access-group 133 in
  ip access-group 134 out
  vrf member management
  ip address x.26.146.136/23
  no ip redirects
clock timezone EDT -5 0
clock summer-time EDT 3 Sun Mar 00:00 3 Sunday Oct 00:00 60
cli alias name save copy runn start vdc
line console
  terminal length 30
boot kickstart bootflash:/n7000-s1-kickstart.4.1.2.bin sup-1
boot system bootflash:/n7000-s1-dk9.4.1.2.bin sup-1
boot kickstart bootflash:/n7000-s1-kickstart.4.1.2.bin sup-2
boot system bootflash:/n7000-s1-dk9.4.1.2.bin sup-2
ip route x.26.0.0/16 x.26.146.1
monitor session 1

!Running config for vdc: vdc1

switchto vdc vdc1
version 4.1(2)
feature tacacs+
feature ospf
feature ospfv3
feature pim
feature udld

```

```

feature interface-vlan
feature hsrp
feature lacp

logging level monitor 7
username admin password 5 <encrypted password>role vdc-admin
ip domain-lookup
ip domain-name cisco.com
tacacs-server key 7 "fewhg123"
tacacs-server host x.26.191.94 key 7 "fewhg123"
aaa group server tacacs+ tacacs-group
    server x.26.191.94
service unsupported-transceiver
ip access-list 112
    10 remark ACL for last resort access
    20 permit tcp x.26.191.92/32 any eq 22
    30 deny ip any any log
ip access-list 111
    10 remark ACL for SSH
    20 permit tcp x.26.0.0/16 any eq 22
    30 deny ip any any log
snmp-server user admin vdc-admin auth md5 0xdd0bd06e76f692a1bbaebceac6f6ee1a pri
v 0xdd0bd06e76f692a1bbaebceac6f6ee1a localizedkey
aaa accounting default group tacacs-group

vrf context management
    ip route 0.0.0.0/0 x.26.146.1
vlan 1,3
vlan 99
    name vmconsole
vlan 128-133
vlan 151
    name asa-vdc2-Outside
vlan 161
    name asa-vdc1-Outside
vlan 770-771
spanning-tree pathcost method long
spanning-tree port type network default
spanning-tree vlan 99,128,130,132,166,770-771 priority 24576
spanning-tree vlan 129,131,133 priority 28672
route-map static permit 10

interface Vlan1

interface Vlan3
    no shutdown
    ip address 10.8.3.1/24
    ip ospf authentication message-digest
    ip ospf authentication-key 3 9125d59c18a9b015
    ip ospf dead-interval 3
    ip ospf hello-interval 1
    ip router ospf 8 area 0.0.0.0
    ip pim sparse-mode
    ip igmp version 3

interface Vlan99
    no shutdown
    ip address 10.8.99.3/24
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text c1sc0
        preempt delay minimum 180

```



```

        priority 20
        timers 1 3
        ip 10.8.99.1

interface Vlan128
    no shutdown
    ip address 10.8.128.3/24
    ip ospf passive-interface
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text c1sc0
        preempt delay minimum 180
        priority 20 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.128.1

interface Vlan129
    no shutdown
    ip address 10.8.129.3/24
    ip ospf passive-interface
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text c1sc0
        preempt delay minimum 180
        priority 10 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.129.1

interface Vlan130
    no shutdown
    ip address 10.8.130.3/24
    ip ospf passive-interface
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text c1sc0
        preempt delay minimum 180
        priority 20 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.130.1

interface Vlan131
    no shutdown
    ip address 10.8.131.3/24
    ip ospf passive-interface
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text c1sc0
        preempt delay minimum 180
        priority 10 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.131.1

interface Vlan132
    no shutdown
    ip address 10.8.132.3/24
    ip ospf passive-interface

```

```

ip router ospf 8 area 0.0.0.81
ip pim sparse-mode
ip igmp version 3
hsrp 1
  authentication text clsc0
  preempt delay minimum 180
  priority 20 forwarding-threshold lower 0 upper 0
  timers 1 3
  ip 10.8.132.1

interface Vlan133
  no shutdown
  ip address 10.8.133.3/24
  ip ospf passive-interface
  ip router ospf 8 area 0.0.0.81
  ip pim sparse-mode
  ip igmp version 3
  hsrp 1
    authentication text clsc0
    preempt delay minimum 180
    priority 10 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.133.1

interface Vlan151
  no shutdown
  ip address 10.8.152.3/24
  ip ospf authentication message-digest
  ip ospf message-digest-key 1 md5 3 b2255cb5a7107f1b
  ip router ospf 8 area 0.0.0.81
  ip pim sparse-mode
  ip igmp version 3
  hsrp 1
    authentication text clsc0
    preempt delay minimum 180
    priority 10 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.152.1

interface Vlan161
  no shutdown
  ip address 10.8.162.3/24
  ip ospf authentication message-digest
  ip ospf message-digest-key 1 md5 3 b2255cb5a7107f1b
  ip router ospf 8 area 0.0.0.81
  ip pim sparse-mode
  ip igmp version 3
  hsrp 1
    authentication text clsc0
    preempt delay minimum 180
    priority 20 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.162.1

interface port-channel99
  description to dca-n7k2-vdc1
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 3,50-51,99,128-133,151,161,770-771
  spanning-tree port type network
  logging event port link-status

interface Ethernet1/1
  description to dca-core2 Ten4/4

```

```

ip address 10.8.1.2/24
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 3 9125d59c18a9b015
ip ospf dead-interval 3
ip ospf hello-interval 1
ip router ospf 8 area 0.0.0.0
ip pim sparse-mode
ip igmp version 3
no shutdown

interface Ethernet1/3
description to dca-asa2 Ten5/0
switchport
switchport mode trunk
switchport trunk allowed vlan 161
spanning-tree port type normal
no shutdown

interface Ethernet1/5
description to dca-asa2 Ten7/0
switchport
switchport mode trunk
switchport trunk allowed vlan 151
spanning-tree port type normal
no shutdown

interface Ethernet1/7
no shutdown

interface Ethernet1/9

interface Ethernet1/11

interface Ethernet1/13
description ISL
switchport
switchport mode trunk
switchport trunk allowed vlan 3,50-51,99,128-133,151,161,770-771
channel-group 99 mode active
no shutdown

interface Ethernet1/15
description ISL
switchport
switchport mode trunk
switchport trunk allowed vlan 3,50-51,99,128-133,151,161,770-771
channel-group 99 mode active
no shutdown

interface Ethernet2/2
description IXIA port 4/1
switchport
switchport access vlan 128
spanning-tree port type edge
no shutdown

interface Ethernet2/4
description IXIA port 4/2
switchport
switchport access vlan 130
spanning-tree port type edge
no shutdown

interface Ethernet2/6

```

```

    description IXIA port 4/3
    switchport
    switchport access vlan 132
    spanning-tree port type edge
    no shutdown

interface Ethernet2/8
    description IXIA port 4/4

interface mgmt0
    description <<mgmt interface>>
    ip address x.26.146.137/23
    clock timezone EDT -5 0
    clock summer-time EDT 3 Sun Mar 00:00 3 Sunday Oct 00:00 60
    no logging console
    cli alias name save copy runn start
    line console
        terminal length 30
    router ospf 8
        router-id 3.3.3.1
        area 81 nssa
        default-information originate
        area 0.0.0.0 range 10.8.0.0/24
        area 0.0.0.0 range 10.8.1.0/24
        area 0.0.0.0 range 10.8.2.0/24
        area 0.0.0.0 range 10.8.3.0/24
        area 0.0.0.81 range 10.8.128.0/18
        area 0.0.0.0 authentication message-digest
        area 0.0.0.81 authentication message-digest
        timers throttle spf 10 100 5000
        timers throttle lsa router 1000
        timers throttle lsa network 1000
        auto-cost reference-bandwidth 10000
    no ip source-route
    ip pim ssm range 232.0.0.0/8

switchback
!Running config for vdc: vdc2

switchto vdc vdc2
version 4.1(2)
feature ospf
feature ospfv3
feature pim
feature udld
feature interface-vlan
feature hsrp
feature lacp

username admin password 5 <encrypted password>/ role vdc-admin
ip domain-lookup
system default switchport
logging event link-status default
logging event trunk-status default
service unsupported-transceiver
snmp-server user admin vdc-admin auth md5 0xdd0bd06e76f692a1bbaebceac6f6ee1a pri
v 0xdd0bd06e76f692a1bbaebceac6f6ee1a localizedkey

vrf context erspan
vrf context servers1
    ip route 0.0.0.0/0 10.8.162.1
vrf context servers2

```

```

        ip route 0.0.0.0/0 10.8.152.1
vrf context management
    ip route 0.0.0.0/0 x.26.146.1
vlan 1
vlan 15
    name vmkernel
vlan 50-51
vlan 98
    name serviceconsole
vlan 141-142,152-153,162-164,166-169
vlan 171
    name failover
vlan 172
    name state
vlan 180-183
vlan 191
    name waas
vlan 200
    name Mike-Server-1
vlan 201
    name Mike-Server-2
vlan 202
    name Mike-Server-3
vlan 300-399
vlan 999
    name ACEquery
vlan 3000
    name erspan
vlan 3001
    name erspan-ssl
vlan 3002
    name vemcontrol
vlan 3003
    name vempacket
spanning-tree pathcost method long
spanning-tree port type network default
spanning-tree vlan 1,15,98,142,166,168,180,182,200-202,300-399,3000,3002-3003 pr
iority 24576
spanning-tree vlan 50-51,167,169,181,183 priority 28672

interface Vlan1

interface Vlan15
    no shutdown
    vrf member servers1
    ip address 10.8.15.3/24
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text c1sc0
        preempt delay minimum 180
        priority 20
        timers 1 3
        ip 10.8.15.1

interface Vlan50
    no shutdown
    vrf member servers2
    ip address 10.8.50.3/24
    ip ospf passive-interface
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3

```

```

hsrp 1
  authentication text clsc0
  preempt delay minimum 180
  priority 10 forwarding-threshold lower 0 upper 0
  timers 1 3
  ip 10.8.50.1

interface Vlan51
  no shutdown
  vrf member servers2
  ip address 10.8.51.3/24
  ip ospf passive-interface
  ip router ospf 8 area 0.0.0.81
  ip pim sparse-mode
  ip igmp version 3
  hsrp 1
    authentication text clsc0
    preempt delay minimum 180
    priority 10 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.51.1

interface Vlan98
  no shutdown
  vrf member servers1
  ip address 10.8.98.3/24
  ip ospf passive-interface
  ip router ospf 8 area 0.0.0.81
  ip pim sparse-mode
  ip igmp version 3
  hsrp 1
    authentication text clsc0
    preempt delay minimum 180
    priority 20
    timers 1 3
    ip 10.8.98.1

interface Vlan141
  vrf member servers1
  ip address 10.8.141.3/24
  ip ospf passive-interface
  ip router ospf 8 area 0.0.0.81
  ip pim sparse-mode
  ip igmp version 3
  hsrp 1
    authentication text clsc0
    preempt delay minimum 180
    priority 20 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.141.1

interface Vlan142
  no shutdown
  vrf member servers1
  ip address 10.8.141.3/24
  ip ospf passive-interface
  ip router ospf 8 area 0.0.0.81
  ip pim sparse-mode
  ip igmp version 3
  hsrp 1
    authentication text clsc0
    preempt delay minimum 180
    priority 20 forwarding-threshold lower 0 upper 0
    timers 1 3

```

```

        ip 10.8.141.1

interface Vlan152
    no shutdown
    vrf member servers2
    ip address 10.8.152.5/24
    ip ospf authentication message-digest
    ip ospf message-digest-key 1 md5 3 b2255cb5a7107f1b
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 2
        authentication text c1sc0
        preempt delay minimum 180
        priority 10 forwarding-threshold lower 0 upper 0
        timers 1 3
    ip 10.8.152.7

interface Vlan153
    vrf member servers2
    ip address 10.8.152.5/24
    ip ospf authentication message-digest
    ip ospf message-digest-key 1 md5 3 b2255cb5a7107f1b
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 2
        authentication text c1sc0
        preempt delay minimum 180
        priority 10 forwarding-threshold lower 0 upper 0
        timers 1 3
    ip 10.8.152.7

interface Vlan164
    no shutdown
    vrf member servers1
    ip address 10.8.162.5/24
    ip ospf authentication message-digest
    ip ospf message-digest-key 1 md5 3 b2255cb5a7107f1b
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 2
        authentication text c1sc0
        preempt delay minimum 180
        priority 20 forwarding-threshold lower 0 upper 0
        timers 1 3
    ip 10.8.162.7

interface Vlan166
    no shutdown
    vrf member servers1
    ip address 10.8.166.3/24
    ip ospf passive-interface
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text c1sc0
        preempt delay minimum 180
        priority 20 forwarding-threshold lower 0 upper 0
        timers 1 3
    ip 10.8.166.1

```

```
interface Vlan167
  no shutdown
  vrf member servers2
  ip address 10.8.167.3/24
  ip ospf passive-interface
  ip router ospf 8 area 0.0.0.81
  ip pim sparse-mode
  ip igmp version 3
  hsrp 1
    authentication text clsc0
    preempt delay minimum 180
    priority 10 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.167.1

interface Vlan168
  no shutdown
  vrf member servers1
  ip address 10.8.168.3/24
  ip ospf passive-interface
  ip router ospf 8 area 0.0.0.81
  ip pim sparse-mode
  ip igmp version 3
  hsrp 1
    authentication text clsc0
    preempt delay minimum 180
    priority 20 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.168.1

interface Vlan169
  no shutdown
  vrf member servers2
  ip address 10.8.169.3/24
  ip ospf passive-interface
  ip router ospf 8 area 0.0.0.81
  ip pim sparse-mode
  ip igmp version 3
  hsrp 1
    authentication text clsc0
    preempt delay minimum 180
    priority 10 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.169.1

interface Vlan180
  no shutdown
  vrf member servers1
  ip address 10.8.180.3/24
  ip ospf passive-interface
  ip router ospf 8 area 0.0.0.81
  ip pim sparse-mode
  ip igmp version 3
  hsrp 1
    authentication text clsc0
    preempt delay minimum 180
    priority 20 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.180.1

interface Vlan181
  no shutdown
  vrf member servers2
  ip address 10.8.181.3/24
```



```

ip ospf passive-interface
ip router ospf 8 area 0.0.0.81
ip pim sparse-mode
ip igmp version 3
hsrp 1
    authentication text c1sc0
    preempt delay minimum 180
    priority 10 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.181.1

interface Vlan182
no shutdown
vrf member servers1
ip address 10.8.182.3/24
ip ospf passive-interface
ip router ospf 8 area 0.0.0.81
ip pim sparse-mode
ip igmp version 3
hsrp 1
    authentication text c1sc0
    preempt delay minimum 180
    priority 20 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.182.1

interface Vlan183
no shutdown
vrf member servers2
ip address 10.8.183.3/24
ip ospf passive-interface
ip router ospf 8 area 0.0.0.81
ip pim sparse-mode
ip igmp version 3
hsrp 1
    authentication text c1sc0
    preempt delay minimum 180
    priority 10 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.183.1

interface Vlan200
no shutdown
vrf member servers2
ip address 10.8.200.3/24
ip ospf passive-interface
ip router ospf 8 area 0.0.0.81
ip pim sparse-mode
ip igmp version 3
hsrp 1
    authentication text c1sc0
    preempt delay minimum 600 reload 300
    timers 1 3
    ip 10.8.200.1

interface Vlan201
no shutdown
vrf member servers2
ip address 10.8.201.3/24
ip ospf passive-interface
ip router ospf 8 area 0.0.0.81
ip pim sparse-mode
ip igmp version 3
hsrp 1

```

```

        authentication text clsc0
        preempt delay minimum 600 reload 300
        timers 1 3
        ip 10.8.201.1

interface Vlan202
    no shutdown
    vrf member servers2
    ip address 10.8.202.3/24
    ip ospf passive-interface
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text clsc0
        preempt delay minimum 600 reload 300
        timers 1 3
        ip 10.8.202.1

interface Vlan3000
    no shutdown
    ip address 10.8.3.3/24
    hsrp 1
        authentication text clsc0
        preempt delay minimum 180
        priority 20 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.3.1

interface Vlan3001
    no shutdown
    ip address 10.8.33.3/24

interface port-channel7
    description to vbs
    switchport mode trunk
    switchport trunk allowed vlan 180-183
    spanning-tree port type normal
    spanning-tree guard root
    logging event port link-status
    logging event port trunk-status

interface port-channel71
    switchport mode trunk
    switchport trunk allowed vlan 15,142,180-183,300-399,3002-3003
    spanning-tree port type network
    spanning-tree guard root
    logging event port link-status
    logging event port trunk-status

interface port-channel72

interface port-channel99
    description ISL to dca-n7k2-vdc1
    switchport mode trunk
    switchport trunk allowed vlan 15,50-51,98,141-142,152-153,162-164
    switchport trunk allowed vlan add 166-169,171-172,180-183,191,200-202
    switchport trunk allowed vlan add 300-399,999,3000-3003
    spanning-tree cost 500
    spanning-tree port type network
    logging event port link-status

interface port-channel200
    description to dc10-5020-5

```

```

switchport mode trunk
switchport trunk allowed vlan 200-202
spanning-tree port type network
spanning-tree guard loop
logging event port link-status
logging event port trunk-status

interface Ethernet1/2
description E1/2 to dca-newSS2 Ten1/2
switchport mode trunk
switchport trunk allowed vlan 152-153,162-164,191,999,3001
spanning-tree port type network
spanning-tree guard loop
mtu 9216
logging event port link-status
logging event port trunk-status

interface Ethernet1/4
description E1/4 to dca-newSS1 Ten1/1
switchport mode trunk
switchport trunk allowed vlan 152-153,162-164,191,999,3001
spanning-tree port type network
spanning-tree guard loop
mtu 9216
logging event port link-status
logging event port trunk-status

interface Ethernet1/6
description to dc10-5020-5
switchport mode trunk
switchport trunk allowed vlan 200-202
logging event port link-status
logging event port trunk-status
udld enable
channel-group 200 mode active

interface Ethernet1/8
description to dc10-5020-6
switchport mode trunk
switchport trunk allowed vlan 200-202
spanning-tree port type network
spanning-tree guard loop
logging event port link-status
logging event port trunk-status
udld enable

interface Ethernet1/10
description to dca-asa2 Ten5/1
switchport mode trunk
switchport trunk allowed vlan 162
spanning-tree port type normal

interface Ethernet1/12
description to dca-asa2 Ten7/1
switchport mode trunk
switchport trunk allowed vlan 152
spanning-tree port type normal

interface Ethernet1/14
description ISL
switchport mode trunk
switchport trunk allowed vlan 15,50-51,98,141-142,152-153,162-164
switchport trunk allowed vlan add 166-169,171-172,180-183,191,200-202
switchport trunk allowed vlan add 300-399,999,3000-3003

```

```

channel-group 99 mode active

interface Ethernet1/16
description ISL
switchport mode trunk
switchport trunk allowed vlan 15,50-51,98,141-142,152-153,162-164
switchport trunk allowed vlan add 166-169,171-172,180-183,191,200-202
switchport trunk allowed vlan add 300-399,999,3000-3003
channel-group 99 mode active

interface Ethernet1/17
description dc20-4948-1
switchport mode trunk
switchport trunk allowed vlan 50-51,142
spanning-tree port type normal
spanning-tree guard root

interface Ethernet1/18
description dc07-3120-vbs Ten4/0/2
switchport mode trunk
switchport trunk allowed vlan 180-183
spanning-tree port type normal
spanning-tree guard root
channel-group 7 mode active

interface Ethernet1/19
description dc20-4948-2
switchport mode trunk
switchport trunk allowed vlan 50-51,142
spanning-tree port type normal
spanning-tree guard root

interface Ethernet1/20
description dc07-3120-vbs Ten2/0/1
switchport mode trunk
switchport trunk allowed vlan 180-183
spanning-tree port type normal
spanning-tree guard root
channel-group 7 mode active

interface Ethernet1/21

interface Ethernet1/22
description to dc10-5020-5
switchport mode trunk
switchport trunk allowed vlan 200-202
logging event port link-status
logging event port trunk-status
udld enable
channel-group 200 mode active

interface Ethernet1/23

interface Ethernet1/24

interface Ethernet1/25
description dca-vss-acc
switchport mode trunk
switchport trunk allowed vlan 15,142,180-183,300-399,3002-3003
spanning-tree port type network
spanning-tree guard root
logging event port link-status
logging event port trunk-status
channel-group 71 mode active

```

```

interface Ethernet1/26
  description dc10-5020-1
  switchport mode trunk
  switchport trunk allowed vlan 15,98,142,180-183,3000,3002-3003
  spanning-tree port type network
  spanning-tree guard root
  mtu 9216
  logging event port link-status
  logging event port trunk-status

interface Ethernet1/27
  description dca-vss-acc
  switchport mode trunk
  switchport trunk allowed vlan 15,142,180-183,300-399,3002-3003
  spanning-tree port type network
  spanning-tree guard root
  logging event port link-status
  logging event port trunk-status
  channel-group 71 mode active

interface Ethernet1/28
  description dc10.5020-2
  switchport mode trunk
  switchport trunk allowed vlan 15,98,142,180-183,3000,3002-3003
  spanning-tree port type network
  spanning-tree guard root
  mtu 9216
  logging event port link-status
  logging event port trunk-status

interface Ethernet1/29
  description to 6k access
  switchport mode trunk
  switchport trunk allowed vlan 128-133,164-169,180-183,300-399
  spanning-tree port type normal
  spanning-tree guard root

interface Ethernet1/30
  description dc10-5020-1
  switchport mode trunk
  switchport trunk allowed vlan 15,98,180-183
  spanning-tree port type network

interface Ethernet1/31
  description to 6k access
  switchport mode trunk
  switchport trunk allowed vlan 128-133,164-169,180-183,300-399
  spanning-tree port type normal
  spanning-tree guard root

interface Ethernet1/32
  description dc10-5020-1
  switchport mode trunk
  switchport trunk allowed vlan 15,98,180-183
  spanning-tree port type network

interface Ethernet2/1
  switchport access vlan 172
  spanning-tree port type normal

interface Ethernet2/3
  switchport access vlan 171
  spanning-tree port type normal

```

```
interface Ethernet2/5

interface Ethernet2/7

interface Ethernet2/9

interface Ethernet2/10

interface Ethernet2/11

interface Ethernet2/12

interface Ethernet2/13

interface Ethernet2/14

interface Ethernet2/15

interface Ethernet2/16

interface Ethernet2/17

interface Ethernet2/18

interface Ethernet2/19

interface Ethernet2/20

interface Ethernet2/21

interface Ethernet2/22

interface Ethernet2/23

interface Ethernet2/24

interface Ethernet2/25

interface Ethernet2/26

interface Ethernet2/27

interface Ethernet2/28

interface Ethernet2/29

interface Ethernet2/30

interface Ethernet2/31

interface Ethernet2/32

interface Ethernet2/33

interface Ethernet2/34

interface Ethernet2/35

interface Ethernet2/36

interface Ethernet2/37
  description ASA1 int g3/3
  switchport mode trunk
```

```

switchport trunk allowed vlan 142
spanning-tree port type normal
logging event port link-status
logging event port trunk-status

interface Ethernet2/38
description ASA int g3/2
switchport mode trunk
switchport trunk allowed vlan 141
spanning-tree port type normal
logging event port link-status
logging event port trunk-status

interface Ethernet2/39

interface Ethernet2/40

interface Ethernet2/41

interface Ethernet2/42

interface Ethernet2/43

interface Ethernet2/44

interface Ethernet2/45

interface Ethernet2/46

interface Ethernet2/47

interface Ethernet2/48

interface mgmt0
ip address x.26.146.138/23
clock timezone EDT -5 0
clock summer-time EDT 3 Sun Mar 00:00 3 Sunday Oct 00:00 60
cli alias name save copy runn start
line console
terminal length 30
router ospf 8
vrf servers1
router-id 4.4.4.1
area 81 nssa
area 0.0.0.81 authentication message-digest
timers throttle spf 10 100 5000
timers throttle lsa router 1000
timers throttle lsa network 1000
vrf servers2
router-id 5.5.5.1
area 81 nssa
area 0.0.0.81 authentication message-digest
timers throttle spf 10 100 5000
timers throttle lsa router 1000
timers throttle lsa network 1000
ip pim rp-address 10.8.20.1 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8
no system default switchport shutdown

switchback
dca-n7k1#

```

```

Nexus 7000 2
dca-n7k2# sh run vdc-all
!Running config for default vdc: dca-n7k2

version 4.1(2)
power redundancy-mode combined force

feature telnet
feature tacacs+
feature ospf
feature pim
feature private-vlan
feature udld
feature interface-vlan
feature netflow
feature hsrp
feature lacp

username admin password 5 <encrypted password>role network-admin
username dma password 5 <encrypted password>. role network-admin
username chris password 5 <encrypted password>. role network-admin
username dma1-ops password 5 <encrypted password>role network-operator
ntp server x.26.146.1 use-vrf management
ip domain-lookup
ip host dca-n7k2 x.26.146.204
ip host dca-n7k2 x.26.146.204
tacacs-server key 7 "<key>"
tacacs-server host x.26.191.94 key 7 "<key>"
aaa group server tacacs+ tacacs-group
    server x.26.191.94
    use-vrf management
hostname dca-n7k2
service unsupported-transceiver
ip access-list copp-system-acl-ftp
    10 permit tcp any any eq ftp-data
    20 permit tcp any any eq ftp
    30 permit tcp any eq ftp-data any
    40 permit tcp any eq ftp any
ip access-list copp-system-acl-bgp
    10 permit tcp any gt 1024 any eq bgp
    20 permit tcp any eq bgp any gt 1024
ip access-list copp-system-acl-rip
    10 permit udp any 224.0.0.0/24 eq rip
ip access-list copp-system-acl-vrrp
    10 permit 112 any 224.0.0.0/24
ip access-list 134
    10 permit ip x.26.146.204/32 x.26.0.0/16
    20 deny ip any any log
ip access-list copp-system-acl-igmp
    10 permit igmp any 224.0.0.0/24
ip access-list copp-system-acl-pim
    10 permit pim any 224.0.0.0/24
    20 permit udp any any eq pim-auto-rp
ip access-list copp-system-acl-msdp
    10 permit tcp any gt 1024 any eq 639
    20 permit tcp any eq 639 any gt 1024
ip access-list copp-system-acl-telnet
    10 permit tcp any any eq telnet
    20 permit tcp any any eq 107
    30 permit tcp any eq telnet any
    40 permit tcp any eq 107 any
ip access-list copp-system-acl-tftp
    10 permit udp any any eq tftp
    20 permit udp any any eq 1758

```



```

30 permit udp any eq tftp any
40 permit udp any eq 1758 any
ip access-list copp-system-acl-eigrp
10 permit eigrp any any
ip access-list copp-system-acl-ssh
10 permit tcp any any eq 22
20 permit tcp any eq 22 any
ip access-list copp-system-acl-glbp
10 permit udp any eq 3222 224.0.0.0/24 eq 3222
ip access-list copp-system-acl-snmp
10 permit udp any any eq snmp
20 permit udp any any eq snmptrap
ip access-list copp-system-acl-hsrp
10 permit udp any 224.0.0.0/24 eq 1985
ip access-list copp-system-acl-ospf
10 permit ospf any any
ip access-list copp-system-acl-sftp
10 permit tcp any any eq 115
20 permit tcp any eq 115 any
ip access-list copp-system-acl-tacacs
10 permit tcp any any eq tacacs
20 permit tcp any eq tacacs any
ip access-list 133
10 permit icmp x.26.0.0/16 x.26.146.204/32 ttl-exceeded
20 permit icmp x.26.0.0/16 x.26.146.204/32 port-unreachable
30 permit icmp x.26.0.0/16 x.26.146.204/32 echo-reply
40 permit icmp x.26.0.0/16 x.26.146.204/32 echo
50 permit tcp x.26.0.0/16 eq tacacs x.26.146.204/32 established
60 permit tcp x.26.0.0/16 x.26.146.204/32 eq tacacs
70 permit udp x.26.0.0/16 x.26.146.204/32 eq ntp
80 permit tcp x.26.0.0/16 x.26.146.204/32 eq 22
90 permit tcp x.26.0.0/16 eq ftp x.26.146.204/32 gt 1023 established
100 permit tcp x.26.0.0/16 eq ftp-data x.26.146.204/32 gt 1023
110 permit tcp x.26.0.0/16 gt 1023 x.26.146.204/32 gt 1023 established
120 permit udp x.26.0.0/16 gt 1023 x.26.146.204/32 gt 1023
130 permit udp x.26.191.99/32 x.26.146.204/32 eq snmp
140 deny ip any any log
ip access-list copp-system-acl-traceroute
10 permit icmp any any ttl-exceeded
20 permit icmp any any port-unreachable
ip access-list copp-system-acl-undesirable
10 permit udp any any eq 1434
ip access-list copp-system-acl-icmp
10 permit icmp any any echo
20 permit icmp any any echo-reply
ip access-list copp-system-acl-radius
10 permit udp any any eq 1812
20 permit udp any any eq 1813
30 permit udp any any eq 1645
40 permit udp any any eq 1646
50 permit udp any eq 1812 any
60 permit udp any eq 1813 any
70 permit udp any eq 1645 any
80 permit udp any eq 1646 any
ip access-list copp-system-acl-ntp
10 permit udp any any eq ntp
20 permit udp any eq ntp any
class-map type control-plane match-any copp-system-class-critical
match access-group name copp-system-acl-bgp
match access-group name copp-system-acl-eigrp
match access-group name copp-system-acl-igmp
match access-group name copp-system-acl-msdp
match access-group name copp-system-acl-ospf
match access-group name copp-system-acl-pim

```

```

    match access-group name copp-system-acl-rip
class-map type control-plane match-any copp-system-class-exception
    match exception ip option
    match exception ip icmp unreachable
class-map type control-plane match-any copp-system-class-important
    match access-group name copp-system-acl-glbp
    match access-group name copp-system-acl-hsrp
    match access-group name copp-system-acl-vrrp
class-map type control-plane match-any copp-system-class-management
    match access-group name copp-system-acl-ftp
    match access-group name copp-system-acl-ntp
    match access-group name copp-system-acl-radius
    match access-group name copp-system-acl-sftp
    match access-group name copp-system-acl-snmp
    match access-group name copp-system-acl-ssh
    match access-group name copp-system-acl-tacacs
    match access-group name copp-system-acl-telnet
    match access-group name copp-system-acl-tftp
class-map type control-plane match-any copp-system-class-monitoring
    match access-group name copp-system-acl-icmp
    match access-group name copp-system-acl-traceroute
class-map type control-plane match-any copp-system-class-normal
    match protocol arp
class-map type control-plane match-any copp-system-class-redirect
    match redirect dhcp-snoop
    match redirect arp-inspect
class-map type control-plane match-any copp-system-class-undesirable
    match access-group name copp-system-acl-undesirable
policy-map type control-plane copp-system-policy
    class copp-system-class-critical
        police cir 40900 kbps bc 250 ms conform transmit violate drop
    class copp-system-class-important
        police cir 1060 kbps bc 250 ms conform transmit violate drop
    class copp-system-class-management
        police cir 10000 kbps bc 250 ms conform transmit violate drop
    class copp-system-class-normal
        police cir 680 kbps bc 250 ms conform transmit violate drop
    class copp-system-class-redirect
        police cir 280 kbps bc 250 ms conform transmit violate drop
    class copp-system-class-monitoring
        police cir 100 kbps bc 250 ms conform transmit violate drop
    class copp-system-class-exception
        police cir 360 kbps bc 250 ms conform transmit violate drop
    class copp-system-class-undesirable
        police cir 32 kbps bc 250 ms conform drop violate drop
    class class-default
        police cir 100 kbps bc 250 ms conform transmit violate drop
control-plane
    service-policy input copp-system-policy
snmp-server user dma network-admin auth md5 0xb1f79b0d0c98a2387bb30043f9c8e5ce priv
0xb1f79b0d0c98a2387bb30043f9c8e5ce localizedkey
snmp-server user admin network-admin auth md5 0xb1f79b0d0c98a2387bb30043f9c8e5ce priv
0xb1f79b0d0c98a2387bb30043f9c8e5ce localizedkey
snmp-server user chris network-admin auth md5 0xb1f79b0d0c98a2387bb30043f9c8e5ce priv
0xb1f79b0d0c98a2387bb30043f9c8e5ce localizedkey
snmp-server user dm1-ops network-operator auth md5 0xb1f79b0d0c98a2387bb30043f9c8e5ce
priv 0xb1f79b0d0c98a2387bb30043f9c8e5ce localizedkey
snmp-server enable traps entity fru
aaa authentication login console group tacacs-group
aaa accounting default group tacacs-group
aaa authentication login error-enable

vrf context management
    ip route 0.0.0.0/0 x.26.146.1

```

```

vlan 1
vdc dca-n7k2 id 1
    limit-resource vlan minimum 16 maximum 4094
    limit-resource monitor-session minimum 0 maximum 2
    limit-resource vrf minimum 16 maximum 8192
    limit-resource port-channel minimum 0 maximum 192
    limit-resource u4route-mem minimum 32 maximum 32
    limit-resource u6route-mem minimum 16 maximum 16
    limit-resource m4route-mem minimum 48 maximum 48
    limit-resource m6route-mem minimum 8 maximum 8
vdc vdc1 id 2
    allocate interface
Ethernet1/1,Ethernet1/3,Ethernet1/5,Ethernet1/7,Ethernet1/9,Ethernet1/11,Ethernet1/13,Eth
ernet1/15
    allocate interface Ethernet2/2,Ethernet2/4,Ethernet2/6,Ethernet2/8
    limit-resource vlan minimum 16 maximum 4094
    limit-resource monitor-session minimum 0 maximum 2
    limit-resource vrf minimum 16 maximum 8192
    limit-resource port-channel minimum 0 maximum 192
    limit-resource u4route-mem minimum 8 maximum 8
    limit-resource u6route-mem minimum 4 maximum 4
    limit-resource m4route-mem minimum 8 maximum 8
    limit-resource m6route-mem minimum 2 maximum 2
vdc vdc2 id 3
    allocate interface
Ethernet1/2,Ethernet1/4,Ethernet1/6,Ethernet1/8,Ethernet1/10,Ethernet1/12,Ethernet1/14,Eth
ernet1/16-32
    allocate interface Ethernet2/1,Ethernet2/3,Ethernet2/5,Ethernet2/7,Ethernet2/9-48
    limit-resource vlan minimum 16 maximum 4094
    limit-resource monitor-session minimum 0 maximum 2
    limit-resource vrf minimum 16 maximum 8192
    limit-resource port-channel minimum 0 maximum 192
    limit-resource u4route-mem minimum 8 maximum 8
    limit-resource u6route-mem minimum 4 maximum 4
    limit-resource m4route-mem minimum 8 maximum 8
    limit-resource m6route-mem minimum 2 maximum 2

interface Vlan1

interface cmp-mgmt module 5
    ip address x.26.146.85 255.255.254.0
    ip default-gateway x.26.146.1
interface cmp-mgmt module 6
    ip address x.26.146.86 255.255.254.0
    ip default-gateway x.26.146.1

interface mgmt0
    description <<** Flash address **>>
    ip access-group 133 in
    ip access-group 134 out
    vrf member management
    ip address x.26.146.204/23
    no ip redirects
clock timezone EDT -5 0
clock summer-time EDT 3 Sun Mar 00:00 3 Sunday Oct 00:00 60
cli alias name save copy runn start vdc
line console
    terminal length 30
boot kickstart bootflash:/n7000-s1-kickstart.4.1.2.bin sup-1
boot system bootflash:/n7000-s1-dk9.4.1.2.bin sup-1
boot kickstart bootflash:/n7000-s1-kickstart.4.1.2.bin sup-2
boot system bootflash:/n7000-s1-dk9.4.1.2.bin sup-2

```

```
interface Ethernet10/1
interface Ethernet10/2
interface Ethernet10/3
interface Ethernet10/4
interface Ethernet10/5
interface Ethernet10/6
interface Ethernet10/7
interface Ethernet10/8
interface Ethernet10/9
interface Ethernet10/10
interface Ethernet10/11
interface Ethernet10/12
interface Ethernet10/13
interface Ethernet10/14
interface Ethernet10/15
interface Ethernet10/16
interface Ethernet10/17
interface Ethernet10/18
interface Ethernet10/19
interface Ethernet10/20
interface Ethernet10/21
interface Ethernet10/22
interface Ethernet10/23
interface Ethernet10/24
interface Ethernet10/25
interface Ethernet10/26
interface Ethernet10/27
interface Ethernet10/28
interface Ethernet10/29
interface Ethernet10/30
interface Ethernet10/31
interface Ethernet10/32
```

```

interface Ethernet10/33

interface Ethernet10/34

interface Ethernet10/35

interface Ethernet10/36

interface Ethernet10/37

interface Ethernet10/38

interface Ethernet10/39

interface Ethernet10/40

interface Ethernet10/41

interface Ethernet10/42

interface Ethernet10/43

interface Ethernet10/44

interface Ethernet10/45

interface Ethernet10/46

interface Ethernet10/47

interface Ethernet10/48
ip route x.26.0.0/16 x.26.146.1
no ip source-route
logging timestamp milliseconds

!Running config for vdc: vdc1

switchto vdc vdc1
version 4.1(2)
feature telnet
feature ospf
feature pim
feature private-vlan
feature udld
feature interface-vlan
feature hsrp
feature lacp

username admin password 5 <encrypted password>. role vdc-admin
ip domain-lookup
service unsupported-transceiver
snmp-server user admin vdc-admin auth md5 <encrypted password> priv
<encrypted password> localizedkey

vrf context management
    ip route 0.0.0.0/0 x.26.146.1
vlan 1,3
vlan 99
    name vmconsole
vlan 128-133
vlan 151
    name asa-vdc2-Outside

```

```

vlan 161
    name asa-vdc1-Outside
vlan 770-771
spanning-tree pathcost method long
spanning-tree port type network default
spanning-tree vlan 99,128,130,132,166,770-771 priority 28672
spanning-tree vlan 129,131,133 priority 24576

interface Vlan1

interface Vlan3
    no shutdown
    ip address 10.8.3.2/24
    ip ospf authentication message-digest
    ip ospf authentication-key 3 9125d59c18a9b015
    ip ospf dead-interval 3
    ip ospf hello-interval 1
    ip router ospf 8 area 0.0.0.0
    ip pim sparse-mode
    ip igmp version 3

interface Vlan99
    no shutdown
    ip address 10.8.99.2/24
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text c1sc0
        preempt delay minimum 180
        priority 10
        timers 1 3
        ip 10.8.99.1

interface Vlan128
    no shutdown
    ip address 10.8.128.2/24
    ip ospf passive-interface
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text c1sc0
        preempt delay minimum 180
        priority 10 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.128.1

interface Vlan129
    no shutdown
    ip address 10.8.129.2/24
    ip ospf passive-interface
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text c1sc0
        preempt delay minimum 180
        priority 20 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.129.1

interface Vlan130

```

```

no shutdown
ip address 10.8.130.2/24
ip ospf passive-interface
ip router ospf 8 area 0.0.0.81
ip pim sparse-mode
ip igmp version 3
hsrp 1
    authentication text c1sc0
    preempt delay minimum 180
    priority 10 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.130.1

interface Vlan131
no shutdown
ip address 10.8.131.2/24
ip ospf passive-interface
ip router ospf 8 area 0.0.0.81
ip pim sparse-mode
ip igmp version 3
hsrp 1
    authentication text c1sc0
    preempt delay minimum 180
    priority 20 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.131.1

interface Vlan132
no shutdown
ip address 10.8.132.2/24
ip ospf passive-interface
ip router ospf 8 area 0.0.0.81
ip pim sparse-mode
ip igmp version 3
hsrp 1
    authentication text c1sc0
    preempt delay minimum 180
    priority 10 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.132.1

interface Vlan133
no shutdown
ip address 10.8.133.2/24
ip ospf passive-interface
ip router ospf 8 area 0.0.0.81
ip pim sparse-mode
ip igmp version 3
hsrp 1
    authentication text c1sc0
    preempt delay minimum 180
    priority 20 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.133.1

interface Vlan151
no shutdown
ip address 10.8.152.2/24
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 3 b2255cb5a7107f1b
ip router ospf 8 area 0.0.0.81
ip pim sparse-mode
ip igmp version 3
hsrp 1

```

```

        authentication text clsc0
        preempt delay minimum 180
        priority 20 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.152.1

interface Vlan161
    no shutdown
    ip address 10.8.162.2/24
    ip ospf authentication message-digest
    ip ospf message-digest-key 1 md5 3 b2255cb5a7107f1b
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text clsc0
        preempt delay minimum 180
        priority 10 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.162.1

interface port-channel99
    description to dca-n7k1-vdc1
    switchport
    switchport mode trunk
    switchport trunk allowed vlan 3,50-51,99,128-133,151,161,770-771
    spanning-tree port type network
    logging event port link-status

interface Ethernet1/1
    description to dca-core2 Ten4/4
    ip address 10.8.2.2/24
    ip ospf authentication message-digest
    ip ospf message-digest-key 1 md5 3 9125d59c18a9b015
    ip ospf dead-interval 3
    ip ospf hello-interval 1
    ip router ospf 8 area 0.0.0.0
    ip pim sparse-mode
    ip igmp version 3
    no shutdown

interface Ethernet1/3
    description to dca-asa2 Ten5/0
    switchport
    switchport mode trunk
    switchport trunk allowed vlan 161
    spanning-tree port type normal
    no shutdown

interface Ethernet1/5
    description to dca-asa2 Ten7/0
    switchport
    switchport mode trunk
    switchport trunk allowed vlan 151
    spanning-tree port type normal
    no shutdown

interface Ethernet1/7
    no shutdown

interface Ethernet1/9

interface Ethernet1/11

```



```

interface Ethernet1/13
  description ISL
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 3,50-51,99,128-133,151,161,770-771
  channel-group 99 mode active
  no shutdown

interface Ethernet1/15
  description ISL
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 3,50-51,99,128-133,151,161,770-771
  channel-group 99 mode active
  no shutdown

interface Ethernet2/2
  description IXIA port 4/5
  switchport
  switchport access vlan 129
  spanning-tree port type edge
  no shutdown

interface Ethernet2/4
  description IXIA port 4/6
  switchport
  switchport access vlan 131
  spanning-tree port type edge
  no shutdown

interface Ethernet2/6
  description IXIA port 4/7
  switchport
  switchport access vlan 133
  spanning-tree port type edge
  no shutdown

interface Ethernet2/8
  description IXIA port 4/8

interface mgmt0
  ip address x.26.146.202/23
  clock timezone EDT -5 0
  clock summer-time EDT 3 Sun Mar 00:00 3 Sunday Oct 00:00 60
  cli alias name save copy runn start
  line console
    terminal length 0
  router ospf 8
    router-id 3.3.3.2
    area 81 nssa
    default-information originate
    area 0.0.0.0 range 10.8.0.0/24
    area 0.0.0.0 range 10.8.1.0/24
    area 0.0.0.0 range 10.8.2.0/24
    area 0.0.0.0 range 10.8.3.0/24
    area 0.0.0.81 range 10.8.128.0/18
    area 0.0.0.0 authentication message-digest
    area 0.0.0.81 authentication message-digest
    timers throttle spf 10 100 5000
    timers throttle lsa router 1000
    timers throttle lsa network 1000
    auto-cost reference-bandwidth 10000
  no ip source-route
  ip pim ssm range 232.0.0.0/8

```

```

switchback
!Running config for vdc: vdc2

switchto vdc vdc2
version 4.1(2)
feature ospf
feature pim
feature udld
feature interface-vlan
feature hsrp
feature lacp

logging level monitor 7
username admin password 5 <encrypted password> role vdc-admin
ssh key rsa 768
ip domain-lookup
switchname vdc2
system default switchport
logging event link-status default
logging event trunk-status default
service unsupported-transceiver
snmp-server user admin vdc-admin auth md5 <encrypted password> priv
<encrypted password> localizedkey

vrf context erspan
vrf context servers1
    ip route 0.0.0.0/0 10.8.162.1
vrf context servers2
    ip route 0.0.0.0/0 10.8.152.1
vrf context management
    ip route 0.0.0.0/0 x.26.146.1
vlan 1
vlan 15
    name vmkernel
vlan 50-51
vlan 98
    name serviceconsole
vlan 141-142,152-153,162-164,166-169
vlan 171
    name failover
vlan 172
    name state
vlan 180-183
vlan 191
    name waas
vlan 200
    name Mike-Server-1
vlan 201
    name Mike-Server-2
vlan 202
    name Mike-Server-3
vlan 300-399,999
vlan 3000
    name erspan
vlan 3001
    name erspan-ss1
vlan 3002
    name vemcontrol
vlan 3003
    name vempacket
spanning-tree pathcost method long

```

```
spanning-tree port type network default
spanning-tree vlan 1,15,98,142,166,168,180,182,200-202,300-399,3000,3002-3003 priority
28672
spanning-tree vlan 50-51,167,169,181,183 priority 24576
```

```
interface Vlan1
```

```
interface Vlan15
  no shutdown
  vrf member servers1
  ip address 10.8.15.2/24
  ip pim sparse-mode
  ip igmp version 3
  hsrp 1
    authentication text c1sc0
    preempt delay minimum 180
    priority 10
    timers 1 3
    ip 10.8.15.1
```

```
interface Vlan50
  no shutdown
  vrf member servers2
  ip address 10.8.50.2/24
  ip ospf passive-interface
  ip router ospf 8 area 0.0.0.81
  ip pim sparse-mode
  ip igmp version 3
  hsrp 1
    authentication text c1sc0
    preempt delay minimum 180
    priority 20 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.50.1
```

```
interface Vlan51
  no shutdown
  vrf member servers2
  ip address 10.8.51.2/24
  ip ospf passive-interface
  ip router ospf 8 area 0.0.0.81
  ip pim sparse-mode
  ip igmp version 3
  hsrp 1
    authentication text c1sc0
    preempt delay minimum 180
    priority 20 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.51.1
```

```
interface Vlan98
  no shutdown
  vrf member servers1
  ip address 10.8.98.2/24
  ip ospf passive-interface
  ip router ospf 8 area 0.0.0.81
  ip pim sparse-mode
  ip igmp version 3
  hsrp 1
    authentication text c1sc0
    preempt delay minimum 180
    priority 20
    timers 1 3
```

```

        ip 10.8.98.1

interface Vlan141
    vrf member servers1
    ip address 10.8.141.2/24
    ip ospf passive-interface
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text c1sc0
        preempt delay minimum 180
        priority 10 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.141.1

interface Vlan152
    no shutdown
    vrf member servers2
    ip address 10.8.152.6/24
    ip ospf authentication message-digest
    ip ospf message-digest-key 1 md5 3 b2255cb5a7107f1b
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 2
        authentication text c1sc0
        preempt delay minimum 180
        priority 20 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.152.7

interface Vlan153
    vrf member servers2
    ip address 10.8.152.6/24
    ip ospf authentication message-digest
    ip ospf message-digest-key 1 md5 3 b2255cb5a7107f1b
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 2
        authentication text c1sc0
        preempt delay minimum 180
        priority 20 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.152.7

interface Vlan164
    no shutdown
    vrf member servers1
    ip address 10.8.162.6/24
    ip ospf authentication message-digest
    ip ospf message-digest-key 1 md5 3 b2255cb5a7107f1b
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 2
        authentication text c1sc0
        preempt delay minimum 180
        priority 10 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.162.7

interface Vlan166

```

```

no shutdown
vrf member servers1
ip address 10.8.166.2/24
ip ospf passive-interface
ip router ospf 8 area 0.0.0.81
ip pim sparse-mode
ip igmp version 3
hsrp 1
    authentication text c1sc0
    preempt delay minimum 180
    priority 10 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.166.1

interface Vlan167
no shutdown
vrf member servers2
ip address 10.8.167.2/24
ip ospf passive-interface
ip router ospf 8 area 0.0.0.81
ip pim sparse-mode
ip igmp version 3
hsrp 1
    authentication text c1sc0
    preempt delay minimum 180
    priority 20 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.167.1

interface Vlan168
no shutdown
vrf member servers1
ip address 10.8.168.2/24
ip ospf passive-interface
ip router ospf 8 area 0.0.0.81
ip pim sparse-mode
ip igmp version 3
hsrp 1
    authentication text c1sc0
    preempt delay minimum 180
    priority 10 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.168.1

interface Vlan169
no shutdown
vrf member servers2
ip address 10.8.169.2/24
ip ospf passive-interface
ip router ospf 8 area 0.0.0.81
ip pim sparse-mode
ip igmp version 3
hsrp 1
    authentication text c1sc0
    preempt delay minimum 180
    priority 20 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.169.1

interface Vlan180
no shutdown
vrf member servers1
ip address 10.8.180.2/24
ip ospf passive-interface

```

```

ip router ospf 8 area 0.0.0.81
ip pim sparse-mode
ip igmp version 3
hsrp 1
    authentication text clsc0
    preempt delay minimum 180
    priority 10 forwarding-threshold lower 0 upper 0
    timers 1 3
    ip 10.8.180.1

interface Vlan181
    no shutdown
    vrf member servers2
    ip address 10.8.181.2/24
    ip ospf passive-interface
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text clsc0
        preempt delay minimum 180
        priority 20 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.181.1

interface Vlan182
    no shutdown
    vrf member servers1
    ip address 10.8.182.2/24
    ip ospf passive-interface
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text clsc0
        preempt delay minimum 180
        priority 10 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.182.1

interface Vlan183
    no shutdown
    vrf member servers2
    ip address 10.8.183.2/24
    ip ospf passive-interface
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text clsc0
        preempt delay minimum 180
        priority 20 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.183.1

interface Vlan200
    no shutdown
    vrf member servers2
    ip address 10.8.200.2/24
    ip ospf passive-interface
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1

```

```

        authentication text c1sc0
        preempt delay minimum 600 reload 300
        priority 10 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.200.1

interface Vlan201
    no shutdown
    vrf member servers2
    ip address 10.8.201.2/24
    ip ospf passive-interface
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text c1sc0
        preempt delay minimum 600 reload 300
        priority 10 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.201.1

interface Vlan202
    no shutdown
    vrf member servers2
    ip address 10.8.202.2/24
    ip ospf passive-interface
    ip router ospf 8 area 0.0.0.81
    ip pim sparse-mode
    ip igmp version 3
    hsrp 1
        authentication text c1sc0
        preempt delay minimum 600 reload 300
        priority 10 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.202.1

interface Vlan3000
    no shutdown
    ip address 10.8.3.2/24
    hsrp 1
        authentication text c1sc0
        preempt delay minimum 180
        priority 10 forwarding-threshold lower 0 upper 0
        timers 1 3
        ip 10.8.3.1

interface Vlan3001
    no shutdown
    ip address 10.8.33.2/24

interface port-channel8
    description to vbs
    switchport mode trunk
    switchport trunk allowed vlan 180-183
    spanning-tree port type normal
    spanning-tree guard root
    logging event port link-status
    logging event port trunk-status

interface port-channel72
    switchport mode trunk
    switchport trunk allowed vlan 15,142,180-183,300-399,3002-3003
    spanning-tree port type network
    spanning-tree guard root

```

```

logging event port link-status
logging event port trunk-status

interface port-channel99
  description ISL to dca-n7k1-vdc1
  switchport mode trunk
  switchport trunk allowed vlan 15,50-51,98,141-142,152-153,162-164
  switchport trunk allowed vlan add 166-169,171-172,180-183,191,200-202
  switchport trunk allowed vlan add 300-399,999,3000-3003
  spanning-tree cost 500
  spanning-tree port type network
  logging event port link-status

interface port-channel201
  switchport mode trunk
  switchport trunk allowed vlan 200-202
  spanning-tree port type network
  logging event port link-status
  logging event port trunk-status

interface Ethernet1/2
  description E1/2 to dca-newSS1 T1/1
  switchport mode trunk
  switchport trunk allowed vlan 152-153,162-164,191,999,3001
  spanning-tree port type network
  spanning-tree guard loop
  mtu 9216
  logging event port link-status
  logging event port trunk-status

interface Ethernet1/4
  description E1/4 to dca-newSS2 T1/2
  switchport mode trunk
  switchport trunk allowed vlan 152-153,162-164,191,999,3001
  spanning-tree port type network
  spanning-tree guard loop
  mtu 9216
  logging event port link-status
  logging event port trunk-status

interface Ethernet1/6
  description to dc10-5020-5
  switchport mode trunk
  switchport trunk allowed vlan 200-202
  logging event port link-status
  logging event port trunk-status
  udld enable
  channel-group 201 mode active

interface Ethernet1/8
  description to dc10-5020-6
  switchport mode trunk
  switchport trunk allowed vlan 200-202
  spanning-tree port type network
  spanning-tree guard loop
  logging event port link-status
  logging event port trunk-status
  udld enable

interface Ethernet1/10
  description to dca-asa2 Ten5/1
  switchport mode trunk
  switchport trunk allowed vlan 162
  spanning-tree port type normal

```



```

interface Ethernet1/12
  description to dca-asa2 Ten7/1
  switchport mode trunk
  switchport trunk allowed vlan 152
  spanning-tree port type normal

interface Ethernet1/14
  description ISL
  switchport mode trunk
  switchport trunk allowed vlan 15,50-51,98,141-142,152-153,162-164
  switchport trunk allowed vlan add 166-169,171-172,180-183,191,200-202
  switchport trunk allowed vlan add 300-399,999,3000-3003
  channel-group 99 mode active

interface Ethernet1/16
  description ISL
  switchport mode trunk
  switchport trunk allowed vlan 15,50-51,98,141-142,152-153,162-164
  switchport trunk allowed vlan add 166-169,171-172,180-183,191,200-202
  switchport trunk allowed vlan add 300-399,999,3000-3003
  channel-group 99 mode active

interface Ethernet1/17
  description dc20-4948-1
  switchport mode trunk
  switchport trunk allowed vlan 50-51,142
  spanning-tree port type normal
  spanning-tree guard root

interface Ethernet1/18
  description dc07-3120-vbs Ten4/0/2
  switchport mode trunk
  switchport trunk allowed vlan 180-183
  spanning-tree port type normal
  spanning-tree guard root
  channel-group 8 mode active

interface Ethernet1/19
  description dc20-4948-2
  switchport mode trunk
  switchport trunk allowed vlan 50-51,142
  spanning-tree port type normal
  spanning-tree guard root

interface Ethernet1/20
  description dc07-3120-vbs Ten2/0/2
  switchport mode trunk
  switchport trunk allowed vlan 180-183
  spanning-tree port type normal
  spanning-tree guard root
  channel-group 8 mode active

interface Ethernet1/21

interface Ethernet1/22
  switchport mode trunk
  switchport trunk allowed vlan 200-202
  logging event port link-status
  logging event port trunk-status
  uddl enable
  channel-group 201 mode active

interface Ethernet1/23

```

```

interface Ethernet1/24

interface Ethernet1/25
  description dca-vss-acc
  switchport mode trunk
  switchport trunk allowed vlan 15,142,180-183,300-399,3002-3003
  spanning-tree port type network
  spanning-tree guard root
  channel-group 72 mode active

interface Ethernet1/26
  description dc10-5020-1
  switchport mode trunk
  switchport trunk allowed vlan 15,98,142,180-183,3000,3002-3003
  spanning-tree port type network
  spanning-tree guard root
  mtu 9216
  logging event port link-status
  logging event port trunk-status

interface Ethernet1/27
  description dca-vss-acc
  switchport mode trunk
  switchport trunk allowed vlan 15,142,180-183,300-399,3002-3003
  spanning-tree port type network
  spanning-tree guard root
  channel-group 72 mode active

interface Ethernet1/28
  description dc10-5020-2
  switchport mode trunk
  switchport trunk allowed vlan 15,98,142,180-183,3000,3002-3003
  spanning-tree port type network
  spanning-tree guard root
  mtu 9216
  logging event port link-status
  logging event port trunk-status

interface Ethernet1/29
  description to 6k access
  switchport mode trunk
  switchport trunk allowed vlan 128-133,164-169,180-183,300-399
  spanning-tree port type normal
  spanning-tree guard root

interface Ethernet1/30
  description dc10-5020-3
  switchport mode trunk
  switchport trunk allowed vlan 15,98,180-183
  spanning-tree port type network

interface Ethernet1/31
  description to 6k access
  switchport mode trunk
  switchport trunk allowed vlan 128-133,164-169,180-183,300-399
  spanning-tree port type normal
  spanning-tree guard root

interface Ethernet1/32
  description dc10-5020-4
  switchport mode trunk
  switchport trunk allowed vlan 15,98,180-183
  spanning-tree port type network

```

```
interface Ethernet2/1
    switchport access vlan 172
    spanning-tree port type normal

interface Ethernet2/3
    switchport access vlan 171
    spanning-tree port type normal

interface Ethernet2/5
    spanning-tree port type normal

interface Ethernet2/7

interface Ethernet2/9

interface Ethernet2/10

interface Ethernet2/11

interface Ethernet2/12

interface Ethernet2/13

interface Ethernet2/14

interface Ethernet2/15

interface Ethernet2/16

interface Ethernet2/17

interface Ethernet2/18

interface Ethernet2/19

interface Ethernet2/20

interface Ethernet2/21

interface Ethernet2/22

interface Ethernet2/23

interface Ethernet2/24

interface Ethernet2/25

interface Ethernet2/26

interface Ethernet2/27

interface Ethernet2/28

interface Ethernet2/29

interface Ethernet2/30

interface Ethernet2/31

interface Ethernet2/32

interface Ethernet2/33
```

```

interface Ethernet2/34

interface Ethernet2/35

interface Ethernet2/36

interface Ethernet2/37
  description ASA1 int g3/3
  switchport mode trunk
  switchport trunk allowed vlan 142
  spanning-tree port type normal
  logging event port link-status
  logging event port trunk-status

interface Ethernet2/38
  description ASA int g3/2
  switchport mode trunk
  switchport trunk allowed vlan 141
  spanning-tree port type normal
  logging event port link-status
  logging event port trunk-status

interface Ethernet2/39

interface Ethernet2/40

interface Ethernet2/41

interface Ethernet2/42

interface Ethernet2/43

interface Ethernet2/44

interface Ethernet2/45

interface Ethernet2/46

interface Ethernet2/47

interface Ethernet2/48

interface mgmt0
  ip address x.26.146.203/23

interface loopback88
  vrf member test
clock timezone EDT -5 0
clock summer-time EDT 3 Sun Mar 00:00 3 Sunday Oct 00:00 60
cli alias name save copy runn start
line console
  terminal length 0
router ospf 8
  vrf servers1
    router-id 4.4.4.2
    area 81 nssa
    area 0.0.0.81 authentication message-digest
    timers throttle spf 10 100 5000
    timers throttle lsa router 1000
    timers throttle lsa network 1000
  vrf servers2
    router-id 5.5.5.2
    area 81 nssa
    area 0.0.0.81 authentication message-digest

```

```

timers throttle spf 10 100 5000
timers throttle lsa router 1000
timers throttle lsa network 1000
ip pim rp-address 10.8.20.1 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8
no system default switchport shutdown

```

```

switchback
dca-n7k2#

```

Services Layer Switch—Catalyst 6500

Service Switch 1

```

dca-newSS1#sh run
Building configuration...

Current configuration : 20243 bytes
!
! Last configuration change at 03:21:52 EST Fri May 1 2009 by chris
! NVRAM config last updated at 00:05:07 EST Thu May 14 2009
!
upgrade fpd auto
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service counters max age 5
!
hostname dca-newSS1
!
boot-start-marker
boot system flash bootflash:s72033-adventerprisek9_wan-mz.122-33.SXI.bin
boot-end-marker
!
enable secret 5 <encrypted password>
!
username admin privilege 15 secret 5 <encrypted password>
username dma-ops password 7 <encrypted password>
username chris-ops password 7 <encrypted password>
username martin password 7 <encrypted password>
aaa new-model
!
!
aaa group server tacacs+ tacacs-group
server x.26.191.94
!
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable
aaa authorization exec author-exec-list group tacacs-group if-authenticated
aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group tacacs-group
aaa accounting commands 15 default start-stop group tacacs-group
aaa accounting system default start-stop group tacacs-group
!
!
!

```

```

aaa session-id common
clock timezone EST -5
clock summer-time EST recurring
svclc autostate
svclc multiple-vlan-interfaces
svclc module 7 vlan-group 1
svclc module 8 vlan-group 1,2,150,160,190,999
svclc vlan-group 1 146
svclc vlan-group 2 170
svclc vlan-group 150 152,153
svclc vlan-group 160 162,163
svclc vlan-group 190 190,191
svclc vlan-group 999 999
firewall autostate
firewall multiple-vlan-interfaces
firewall module 7 vlan-group 1
analysis module 9 management-port access-vlan 146
ip subnet-zero
no ip source-route
!
!
!
ip ftp source-interface Vlan146
ip ftp username chrobrie
ip ftp password 7 <encrypted password>
no ip bootp server
ip ssh authentication-retries 2
ip ssh logging events
ip ssh version 2
ip scp server enable
ip domain-name cisco.com
ip name-server x.26.129.252
login block-for 100 attempts 5 within 50
login quiet-mode access-class 10
login on-failure log
vtp mode transparent
mls ip slb purge global
mls netflow interface
mls flow ip interface-full
no mls flow ipv6
mls nde sender version 5
mls qos
mls cef error action reset
!
!
!
!
!
!
!
!
!
archive
  path ftp://test:test@x.26.129.252/NexusDCPhase1/$h-$t
  write-memory
memory reserve critical 1000
memory free low-watermark processor 91492
memory free low-watermark IO 6710
!
spanning-tree mode rapid-pvst
spanning-tree portfast network default
spanning-tree extend system-id
spanning-tree pathcost method long
spanning-tree vlan 163,170-172,191,999,3001 priority 24576

```

```

diagnostic bootup level minimal
diagnostic cns publish cisco.cns.device.diag_results
diagnostic cns subscribe cisco.cns.device.diag_commands
fabric timer 15
fabric switching-mode allow truncated threshold 1
fabric switching-mode allow truncated
port-channel hash-distribution adaptive
!
redundancy
main-cpu
auto-sync running-config
mode sso
!
vlan internal allocation policy ascending
vlan access-log ratelimit 2000
!
vlan 146
name flash
!
vlan 152-153,162-164,170-172
!
vlan 190
name waflan
!
vlan 191
name waas
!
vlan 999
!
vlan 3001
name erspan
!
class-map match-all coppclass-igp
match access-group name coppacl-igp
class-map match-all coppclass-monitoring
match access-group name coppacl-monitoring
class-map match-all coppclass-filemanagement
match access-group name coppacl-filemanagement
class-map match-all coppclass-management
match access-group name coppacl-management
!
!
policy-map copp-policy
class coppclass-igp
police cir 300000 bc 3000 be 3000 conform-action transmit exceed-action drop
violate-action drop
class coppclass-filemanagement
police cir 6000000 bc 60000 be 60000 conform-action transmit exceed-action drop
violate-action drop
class coppclass-management
police cir 500000 bc 5000 be 5000 conform-action transmit exceed-action drop
violate-action drop
class coppclass-monitoring
police cir 900000 bc 9000 be 9000 conform-action transmit 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 Port-channel31
  switchport
  switchport access vlan 191
  switchport mode access
  logging event link-status
  spanning-tree portfast edge
!
interface Port-channel2
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 163,164
  switchport mode trunk
  switchport nonegotiate
  mtu 9216
!
interface Port-channel99
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 170-172
  switchport mode trunk
  logging event link-status
  logging event trunk-status
  logging event bundle-status
  logging event spanning-tree status
  spanning-tree portfast network
!
interface GigabitEthernet3/21
  description <<** G3/25 to dc-waecm G2/0 **>>
  switchport
  switchport access vlan 191
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 163,164
  switchport mode access
  logging event link-status
  spanning-tree portfast edge
!
interface GigabitEthernet3/23
  description <<** G3/23 to dc-wae2 G2/0 **>>
  switchport
  switchport access vlan 191
  switchport mode access
  logging event link-status
  spanning-tree portfast edge
  channel-group 31 mode on
!
interface GigabitEthernet3/24
  description <<** G3/23 to dc-wae1 G1/0 **>>
  switchport
  switchport access vlan 191
  switchport mode access
  logging event link-status
  spanning-tree portfast edge
  channel-group 31 mode on
!
interface GigabitEthernet3/25
  switchport
  switchport access vlan 191
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 163,164
  switchport mode trunk
  logging event link-status
  shutdown
  rmon collection stats 6028 owner monitor
  rmon collection stats 6032 owner monitor

```



```

spanning-tree portfast edge
!
interface TenGigabitEthernet1/1
description <<** T1/1 to dca-n7k2-vdc2 **>>
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 152,153,162-164,191,999,3001
switchport mode trunk
mtu 9216
logging event link-status
logging event trunk-status
logging event bundle-status
logging event spanning-tree status
rmon collection stats 6000 owner monitor
spanning-tree portfast network
!
interface TenGigabitEthernet1/2
description <<** T1/2 to dca-n7k1-vdc2 **>>
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 152,153,162-164,191,999,3001
switchport mode trunk
mtu 9216
logging event link-status
logging event trunk-status
logging event bundle-status
logging event spanning-tree status
rmon collection stats 6001 owner monitor
spanning-tree portfast network
!
interface TenGigabitEthernet1/3
description to ips2
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 163,164
switchport mode trunk
switchport nonegotiate
mtu 9216
logging event link-status
logging event trunk-status
logging event bundle-status
logging event spanning-tree status
shutdown
rmon collection stats 6002 owner monitor
channel-group 2 mode on
!
interface TenGigabitEthernet1/4
description to ips1 7/1
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 163,164
switchport mode trunk
switchport nonegotiate
mtu 9216
logging event link-status
logging event trunk-status
logging event bundle-status
logging event spanning-tree status
rmon collection stats 6003 owner monitor
channel-group 2 mode on
!
interface TenGigabitEthernet1/5
no ip address
rmon collection stats 6004 owner monitor

```

```

!
interface TenGigabitEthernet1/6
  no ip address
  rmon collection stats 6005 owner monitor
!
interface TenGigabitEthernet1/7
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 170-172
  switchport mode trunk
  logging event link-status
  logging event trunk-status
  logging event bundle-status
  logging event spanning-tree status
  rmon collection stats 6006 owner monitor
  channel-protocol lacp
  channel-group 99 mode active
!
interface TenGigabitEthernet1/8
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 170-172
  switchport mode trunk
  logging event link-status
  logging event trunk-status
  logging event bundle-status
  logging event spanning-tree status
  rmon collection stats 6007 owner monitor
  channel-protocol lacp
  channel-group 99 mode active
!
interface GigabitEthernet3/1
  no ip address
  no ip redirects
  no ip proxy-arp
  rmon collection stats 6008 owner monitor
!
interface GigabitEthernet3/2
  no ip address
  no ip redirects
  no ip proxy-arp
  rmon collection stats 6009 owner monitor
!
interface GigabitEthernet3/3
  no ip address
  no ip redirects
  no ip proxy-arp
  rmon collection stats 6010 owner monitor
!
interface GigabitEthernet3/4
  no ip address
  no ip redirects
  no ip proxy-arp
  rmon collection stats 6011 owner monitor
!
interface GigabitEthernet3/5
  no ip address
  no ip redirects
  no ip proxy-arp
  rmon collection stats 6012 owner monitor
!
interface GigabitEthernet3/6
  no ip address
  no ip redirects

```

```

no ip proxy-arp
rmon collection stats 6013 owner monitor
!
interface GigabitEthernet3/7
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6014 owner monitor
!
interface GigabitEthernet3/8
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6015 owner monitor
!
interface GigabitEthernet3/9
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6016 owner monitor
!
interface GigabitEthernet3/10
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6017 owner monitor
!
interface GigabitEthernet3/11
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6018 owner monitor
!
interface GigabitEthernet3/12
description to waf2 eth3
switchport
switchport access vlan 190
switchport mode access
rmon collection stats 6019 owner monitor
spanning-tree portfast edge
!
interface GigabitEthernet3/13
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6020 owner monitor
!
interface GigabitEthernet3/14
description to waf1 eth3
switchport
switchport access vlan 190
switchport mode access
rmon collection stats 6021 owner monitor
spanning-tree portfast edge
!
interface GigabitEthernet3/15
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6022 owner monitor
!
interface GigabitEthernet3/16
no ip address
no ip redirects

```

```
no ip proxy-arp
rmon collection stats 6023 owner monitor
!
interface GigabitEthernet3/17
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6024 owner monitor
!
interface GigabitEthernet3/18
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6025 owner monitor
!
interface GigabitEthernet3/19
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6026 owner monitor
!
interface GigabitEthernet3/20
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6027 owner monitor
!
interface GigabitEthernet3/22
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6029 owner monitor
!
interface GigabitEthernet3/26
description to IPS1 gig 3/3
switchport
switchport trunk encapsulation dot1q
switchport mode trunk
logging event link-status
logging event trunk-status
load-interval 30
rmon collection stats 6033 owner monitor
spanning-tree portfast edge trunk
!
interface GigabitEthernet3/27
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6034 owner monitor
!
interface GigabitEthernet3/28
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6035 owner monitor
!
interface GigabitEthernet3/29
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6036 owner monitor
!
interface GigabitEthernet3/30
no ip address
```

```

no ip redirects
no ip proxy-arp
rmon collection stats 6037 owner monitor
!
interface GigabitEthernet3/31
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6038 owner monitor
!
interface GigabitEthernet3/32
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6039 owner monitor
!
interface GigabitEthernet3/33
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6040 owner monitor
!
interface GigabitEthernet3/34
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6041 owner monitor
!
interface GigabitEthernet3/35
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6042 owner monitor
!
interface GigabitEthernet3/36
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6043 owner monitor
!
interface GigabitEthernet3/37
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 163,164
switchport mode trunk
shutdown
rmon collection stats 6044 owner monitor
!
interface GigabitEthernet3/38
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6045 owner monitor
!
interface GigabitEthernet3/39
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6046 owner monitor
!
interface GigabitEthernet3/40
no ip address
no ip redirects
no ip proxy-arp

```

```

rmon collection stats 6047 owner monitor
!
interface GigabitEthernet3/41
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6048 owner monitor
!
interface GigabitEthernet3/42
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6049 owner monitor
!
interface GigabitEthernet3/43
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6050 owner monitor
!
interface GigabitEthernet3/44
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6051 owner monitor
!
interface GigabitEthernet3/45
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6052 owner monitor
!
interface GigabitEthernet3/46
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6053 owner monitor
!
interface GigabitEthernet3/47
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6054 owner monitor
!
interface GigabitEthernet3/48
switchport
switchport access vlan 4000
switchport mode access
logging event link-status
logging event spanning-tree status
shutdown
rmon collection stats 6055 owner monitor
spanning-tree portfast edge trunk
!
interface GigabitEthernet5/1
description <*** to mgmt net ***>
switchport
switchport access vlan 146
switchport mode access
logging event link-status
logging event spanning-tree status
udld port
rmon collection stats 6056 owner monitor
!

```

```

interface GigabitEthernet5/2
  no ip address
  rmon collection stats 6057 owner monitor
!
interface GigabitEthernet5/3
  description To Mgmt Net
  no ip address
  speed 1000
  duplex full
  rmon collection stats 6058 owner monitor
!
interface TenGigabitEthernet5/4
  no ip address
  rmon collection stats 6059 owner monitor
!
interface TenGigabitEthernet5/5
  no ip address
  rmon collection stats 6060 owner monitor
!
interface Vlan191
  ip address 10.8.191.191 255.255.255.0
  ntp broadcast
!
interface Vlan1
  no ip address
  shutdown
!
interface Vlan146
  ip address x.26.147.209 255.255.254.0
  ip access-group 133 in
  ip access-group 134 out
  ip flow ingress
!
interface Vlan3001
  mtu 9216
  ip address 10.8.33.4 255.255.255.0
  load-interval 30
!
ip classless
ip route 0.0.0.0 0.0.0.0 x.26.146.1
ip route 10.8.0.0 255.255.0.0 10.8.33.2
ip route 10.8.0.0 255.255.0.0 10.8.33.3
!
ip flow-export destination x.26.147.230 3000
!
ip http server
ip http authentication local
no ip http secure-server
ip http path disk0:
ip tacacs source-interface Vlan146
!
ip access-list extended coppacl-monitoring
  remark CoPP monitoring traffic class
  permit icmp any any ttl-exceeded
  permit icmp any any port-unreachable
  permit icmp any any echo-reply
  permit icmp any any echo
ip access-list extended dma
  permit ip any host 10.8.180.153
!
kron occurrence daily-config-backup at 0:05 recurring
  policy-list backup-config
!
kron policy-list backup-config

```

```

cli write memory
!
logging trap critical
logging source-interface GigabitEthernet5/3
logging x.26.191.94
access-list 10 permit x.26.191.92
access-list 10 remark a 100-second quiet period if 5 failed login attempts is exceeded
access-list 111 remark ACL for SSH
access-list 111 permit tcp x.26.0.0 0.0.255.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host x.26.191.92 any eq 22
access-list 112 deny ip any any log-input
access-list 133 permit icmp x.26.0.0 0.0.255.255 host x.26.147.209 ttl-exceeded
access-list 133 permit icmp x.26.0.0 0.0.255.255 host x.26.147.209 port-unreachable
access-list 133 permit icmp x.26.0.0 0.0.255.255 host x.26.147.209 echo-reply
access-list 133 permit icmp x.26.0.0 0.0.255.255 host x.26.147.209 echo
access-list 133 permit tcp x.26.0.0 0.0.255.255 eq tacacs host x.26.147.209 established
access-list 133 permit tcp x.26.0.0 0.0.255.255 host x.26.147.209 eq tacacs
access-list 133 permit udp x.26.0.0 0.0.255.255 host x.26.147.209 eq ntp
access-list 133 permit tcp x.26.0.0 0.0.255.255 host x.26.147.209 eq 22
access-list 133 permit tcp x.26.0.0 0.0.255.255 eq ftp host x.26.147.209 gt 1023
established
access-list 133 permit tcp x.26.0.0 0.0.255.255 eq ftp-data host x.26.147.209 gt 1023
access-list 133 permit tcp x.26.0.0 0.0.255.255 gt 1023 host x.26.147.209 gt 1023
established
access-list 133 permit udp x.26.0.0 0.0.255.255 gt 1023 host x.26.147.209 gt 1023
access-list 134 permit ip host x.26.147.209 x.26.0.0 0.0.255.255
access-list 134 deny ip any any log
!
!
!
!
snmp-server engineID local 8000000903000021D72AC000
snmp-server enable traps cpu threshold
snmp-server host x.26.191.94 public cpu
tacacs-server host x.26.191.94 single-connection key 7 01100F175804575D72
tacacs-server directed-request
!
!
control-plane
service-policy input copp-policy
!
!
dial-peer cor custom
!
!
!
banner login ^C
UNAUTHORIZED ACCESS TO THIS DEVICE IS PROHIBITED
You must have explicit, authorized permission to access or configure this device.
Unauthorized attempts and actions to access or use this system may result in civil and/or
criminal penalties.
All activities performed on this device are logged and monitored.
^C
!
line con 0
login authentication authen-exec-list
line vty 0 3
exec-timeout 180 0
password 7 <encrypted password>
authorization commands 15 author-15-list
authorization exec author-exec-list
login authentication authen-exec-list

```



```

transport preferred none
transport input all
transport output none
line vty 4
exec-timeout 180 0
password 7 <encrypted password>
authorization commands 15 author-15-list
authorization exec author-exec-list
login authentication authen-exec-list
transport preferred none
transport input all
transport output none
line vty 5 15
login authentication authen-exec-list
no exec
transport input all
!
exception protocol ftp
exception dump x.26.129.252
!
monitor session 1 type erspan-source
description <** N1k ERSPAN - originating from dcesx4n1 monitor session 1 **>>
source vlan 3001
destination
  erspan-id 1
  ip address 10.8.33.4
!
!
monitor session 2 type erspan-source
description <** N1k ERSPAN - originating from dcesx4n1 monitor session 2 **>>
source vlan 3001
destination
  erspan-id 2
  ip address 10.8.33.4
!
!
monitor session 3 type erspan-destination
description <** N1k ERSPAN to NAM - originating from dcesx4n1 **>>
destination analysis-module 9 data-port 2
source
  erspan-id 1
  ip address 10.8.33.4
!
!
monitor session 4 type erspan-destination
description <** N1k ERSPAN to IDS-1 - originating from dcesx4n1 **>>
destination interface Gi3/26
source
  erspan-id 2
  ip address 10.8.33.4
!
!
process cpu threshold type total rising 80 interval 5 falling 20 interval 5
process cpu statistics limit entry-percentage 40 size 300
ntp clock-period 17179890
ntp server x.26.146.1
mac-address-table aging-time 480
!
end

dca-newSS1#

```

Service Switch 2

```

dca-newSS2>en
Password:
dca-newSS2#sh run
Building configuration...

Current configuration : 18580 bytes
!
! Last configuration change at 12:08:19 EST Wed Mar 25 2009 by chris
! NVRAM config last updated at 00:05:29 EST Thu May 14 2009
!
upgrade fpd auto
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service counters max age 5
!
hostname dca-newSS2
!
boot-start-marker
boot system flash bootflash:s72033-adventerprisek9_wan-mz.122-33.SXI.bin
boot-end-marker
!
enable secret 5 <encrypted password>
!
username admin privilege 15 secret 5 <encrypted password>
aaa new-model
!
!
aaa group server tacacs+ tacacs-group
    server x.26.191.94
!
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable
aaa authorization exec author-exec-list group tacacs-group if-authenticated
aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group tacacs-group
aaa accounting commands 15 default start-stop group tacacs-group
aaa accounting system default start-stop group tacacs-group
!
!
!
aaa session-id common
clock timezone EST -5
clock summer-time EST recurring
svcllc autostate
svcllc multiple-vlan-interfaces
svcllc module 7 vlan-group 1
svcllc module 8 vlan-group 1,2,150,160,190,999
svcllc vlan-group 1 146
svcllc vlan-group 2 170
svcllc vlan-group 150 152,153
svcllc vlan-group 160 162,163
svcllc vlan-group 190 190,191
svcllc vlan-group 999 999
firewall autostate
firewall multiple-vlan-interfaces
firewall module 7 vlan-group 1
analysis module 9 management-port access-vlan 146
ip subnet-zero
no ip source-route

```

```

!
!
!
ip ftp source-interface GigabitEthernet5/3
ip ftp username anonymous
ip ftp password 7 <encrypted password>
no ip bootp server
ip ssh authentication-retries 2
ip ssh version 2
no ip domain-lookup
ip domain-name cisco.com
ip name-server x.26.129.252
login block-for 100 attempts 5 within 50
login quiet-mode access-class 10
login on-failure log
vtp mode transparent
mls ip slb purge global
mls netflow interface
no mls flow ip
no mls flow ipv6
mls cef error action reset
!
!
!
!
!
!
!
!
archive
  path ftp://test:test@x.26.129.252/NexusDCPhase1/$h-$t
  write-memory
memory reserve critical 1000
memory free low-watermark processor 91492
memory free low-watermark IO 6710
!
spanning-tree mode rapid-pvst
spanning-tree portfast network default
spanning-tree extend system-id
spanning-tree pathcost method long
spanning-tree vlan 153 priority 24576
spanning-tree vlan 163,170-172,191,999 priority 28672
diagnostic bootup level minimal
diagnostic cns publish cisco.cns.device.diag_results
diagnostic cns subscribe cisco.cns.device.diag_commands
fabric timer 15
fabric switching-mode allow truncated threshold 1
fabric switching-mode allow truncated
port-channel hash-distribution adaptive
!
redundancy
  main-cpu
  auto-sync running-config
  mode sso
!
vlan internal allocation policy ascending
vlan access-log ratelimit 2000
!
vlan 146
  name flash
!
vlan 152-153,162-164,170-172
!

```

```

vlan 190
  name waf
!
vlan 191
  name waas
!
vlan 999
!
vlan 3001
  name erspan
!
!
!
!
!
interface Port-channel32
  switchport
  switchport access vlan 191
  switchport mode access
  logging event link-status
  spanning-tree portfast edge
!
interface Port-channel2
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 163,164
  switchport mode trunk
  switchport nonegotiate
  mtu 9216
!
interface Port-channel99
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 170-172
  switchport mode trunk
  logging event link-status
  logging event trunk-status
  logging event bundle-status
  logging event spanning-tree status
  spanning-tree portfast network
!
interface GigabitEthernet3/23
  description <<** G3/23 to dca-wae2 G1/0 **>>
  switchport
  switchport access vlan 191
  switchport mode access
  logging event link-status
  spanning-tree portfast edge
  channel-group 32 mode on
!
interface GigabitEthernet3/24
  description <<** G3/24 to dc-wae1 G2/0 **>>
  switchport
  switchport access vlan 191
  switchport mode access
  logging event link-status
  spanning-tree portfast edge
  channel-group 32 mode on
!
interface TenGigabitEthernet1/1
  description <<** T1/1 to dca-n7k1-vdc2 **>>
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 152,153,162-164,191,999,3001

```

```

switchport mode trunk
mtu 9216
logging event link-status
logging event trunk-status
logging event bundle-status
logging event spanning-tree status
rmon collection stats 6000 owner monitor
spanning-tree portfast network
!
interface TenGigabitEthernet1/2
description <<T1/2 to dca-n7k2-vdc2 >>
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 152,153,162-164,191,999,3001
switchport mode trunk
mtu 9216
logging event link-status
logging event trunk-status
logging event bundle-status
logging event spanning-tree status
rmon collection stats 6001 owner monitor
spanning-tree portfast network
!
interface TenGigabitEthernet1/3
description to ips2
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 163,164
switchport mode trunk
switchport nonegotiate
mtu 9216
logging event link-status
logging event trunk-status
logging event bundle-status
logging event spanning-tree status
rmon collection stats 6002 owner monitor
channel-group 2 mode on
!
interface TenGigabitEthernet1/4
description to ips1 7/0
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 163,164
switchport mode trunk
switchport nonegotiate
mtu 9216
logging event link-status
logging event trunk-status
logging event bundle-status
logging event spanning-tree status
shutdown
rmon collection stats 6003 owner monitor
channel-group 2 mode on
!
interface TenGigabitEthernet1/5
no ip address
rmon collection stats 6004 owner monitor
!
interface TenGigabitEthernet1/6
no ip address
rmon collection stats 6005 owner monitor
!
interface TenGigabitEthernet1/7
switchport

```

```

switchport trunk encapsulation dot1q
switchport trunk allowed vlan 170-172
switchport mode trunk
logging event link-status
logging event trunk-status
logging event bundle-status
logging event spanning-tree status
rmon collection stats 6006 owner monitor
spanning-tree portfast network
channel-protocol lacp
channel-group 99 mode active
!
interface TenGigabitEthernet1/8
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 170-172
switchport mode trunk
logging event link-status
logging event trunk-status
logging event bundle-status
logging event spanning-tree status
rmon collection stats 6007 owner monitor
spanning-tree portfast network
channel-protocol lacp
channel-group 99 mode active
!
interface GigabitEthernet3/1
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6008 owner monitor
!
interface GigabitEthernet3/2
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6009 owner monitor
!
interface GigabitEthernet3/3
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6010 owner monitor
!
interface GigabitEthernet3/4
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6011 owner monitor
!
interface GigabitEthernet3/5
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6012 owner monitor
!
interface GigabitEthernet3/6
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6013 owner monitor
!
interface GigabitEthernet3/7
no ip address

```

```

no ip redirects
no ip proxy-arp
rmon collection stats 6014 owner monitor
!
interface GigabitEthernet3/8
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6015 owner monitor
!
interface GigabitEthernet3/9
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6016 owner monitor
!
interface GigabitEthernet3/10
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6017 owner monitor
!
interface GigabitEthernet3/11
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6018 owner monitor
!
interface GigabitEthernet3/12
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6019 owner monitor
!
interface GigabitEthernet3/13
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6020 owner monitor
!
interface GigabitEthernet3/14
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6021 owner monitor
!
interface GigabitEthernet3/15
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6022 owner monitor
!
interface GigabitEthernet3/16
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6023 owner monitor
!
interface GigabitEthernet3/17
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6024 owner monitor
!

```

```
interface GigabitEthernet3/18
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6025 owner monitor
!
interface GigabitEthernet3/19
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6026 owner monitor
!
interface GigabitEthernet3/20
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6027 owner monitor
!
interface GigabitEthernet3/21
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6028 owner monitor
!
interface GigabitEthernet3/22
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6029 owner monitor
!
interface GigabitEthernet3/25
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6032 owner monitor
!
interface GigabitEthernet3/26
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6033 owner monitor
!
interface GigabitEthernet3/27
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6034 owner monitor
!
interface GigabitEthernet3/28
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6035 owner monitor
!
interface GigabitEthernet3/29
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6036 owner monitor
!
interface GigabitEthernet3/30
no ip address
no ip redirects
no ip proxy-arp
```



```

    rmon collection stats 6037 owner monitor
    !
interface GigabitEthernet3/31
    no ip address
    no ip redirects
    no ip proxy-arp
    rmon collection stats 6038 owner monitor
    !
interface GigabitEthernet3/32
    no ip address
    no ip redirects
    no ip proxy-arp
    rmon collection stats 6039 owner monitor
    !
interface GigabitEthernet3/33
    no ip address
    no ip redirects
    no ip proxy-arp
    rmon collection stats 6040 owner monitor
    !
interface GigabitEthernet3/34
    no ip address
    no ip redirects
    no ip proxy-arp
    rmon collection stats 6041 owner monitor
    !
interface GigabitEthernet3/35
    no ip address
    no ip redirects
    no ip proxy-arp
    rmon collection stats 6042 owner monitor
    !
interface GigabitEthernet3/36
    no ip address
    no ip redirects
    no ip proxy-arp
    rmon collection stats 6043 owner monitor
    !
interface GigabitEthernet3/37
    no ip address
    no ip redirects
    no ip proxy-arp
    rmon collection stats 6044 owner monitor
    !
interface GigabitEthernet3/38
    no ip address
    no ip redirects
    no ip proxy-arp
    rmon collection stats 6045 owner monitor
    !
interface GigabitEthernet3/39
    no ip address
    no ip redirects
    no ip proxy-arp
    rmon collection stats 6046 owner monitor
    !
interface GigabitEthernet3/40
    no ip address
    no ip redirects
    no ip proxy-arp
    rmon collection stats 6047 owner monitor
    !
interface GigabitEthernet3/41
    no ip address

```

```
no ip redirects
no ip proxy-arp
rmon collection stats 6048 owner monitor
!
interface GigabitEthernet3/42
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6049 owner monitor
!
interface GigabitEthernet3/43
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6050 owner monitor
!
interface GigabitEthernet3/44
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6051 owner monitor
!
interface GigabitEthernet3/45
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6052 owner monitor
!
interface GigabitEthernet3/46
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6053 owner monitor
!
interface GigabitEthernet3/47
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6054 owner monitor
!
interface GigabitEthernet3/48
no ip address
no ip redirects
no ip proxy-arp
rmon collection stats 6055 owner monitor
!
interface GigabitEthernet5/1
no ip address
shutdown
rmon collection stats 6056 owner monitor
!
interface GigabitEthernet5/2
no ip address
shutdown
rmon collection stats 6057 owner monitor
!
interface GigabitEthernet5/3
switchport
switchport access vlan 146
switchport mode access
speed 1000
duplex full
rmon collection stats 6058 owner monitor
!
```

```

interface TenGigabitEthernet5/4
  no ip address
  shutdown
  rmon collection stats 6059 owner monitor
!
interface TenGigabitEthernet5/5
  no ip address
  shutdown
  rmon collection stats 6060 owner monitor
!
interface Vlan1
  no ip address
  shutdown
!
interface Vlan146
  ip address x.26.147.210 255.255.254.0
  ip access-group 133 in
  ip access-group 134 out
!
interface Vlan3001
  mtu 9216
  ip address 10.8.33.5 255.255.255.0
!
ip classless
ip route 0.0.0.0 0.0.0.0 x.26.146.1
ip route 10.8.0.0 255.255.0.0 10.8.33.2
ip route 10.8.0.0 255.255.0.0 10.8.33.3
!
!
no ip http server
no ip http secure-server
ip tacacs source-interface GigabitEthernet5/3
!
ip access-list extended coppacl-filemanagement
  remark CoPP File transfer traffic class
  permit tcp x.26.0.0 0.0.255.255 eq ftp host x.26.146.210 gt 1023 established
  permit tcp x.26.0.0 0.0.255.255 eq ftp-data host x.26.146.210 gt 1023
  permit tcp x.26.0.0 0.0.255.255 gt 1023 host x.26.146.210 gt 1023 established
  permit udp x.26.0.0 0.0.255.255 gt 1023 host x.26.146.210 gt 1023
ip access-list extended coppacl-management
  remark CoPP management traffic class
  permit tcp x.26.0.0 0.0.255.255 eq tacacs host x.26.146.210 established
  permit tcp x.26.0.0 0.0.255.255 host x.26.146.210 eq 22
  permit tcp x.26.0.0 0.0.255.255 host x.26.146.210 eq telnet
  permit udp x.26.0.0 0.0.255.255 host x.26.146.210 eq snmp
  permit udp x.26.0.0 0.0.255.255 host x.26.146.210 eq ntp
!
kron occurrence daily-config-backup at 0:05 recurring
  policy-list backup-config
!
kron policy-list backup-config
  cli write memory
!
logging trap critical
logging source-interface GigabitEthernet5/3
logging x.26.191.94
access-list 10 permit x.26.191.92
access-list 10 remark a 100-second quiet period if 5 failed login attempts is exceeded
access-list 111 remark ACL for SSH
access-list 111 permit tcp x.26.0.0 0.0.255.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host x.26.191.92 any eq 22
access-list 112 deny ip any any log-input

```

```

access-list 133 permit icmp x.26.0.0 0.0.255.255 host x.26.147.210 ttl-exceeded
access-list 133 permit icmp x.26.0.0 0.0.255.255 host x.26.147.210 port-unreachable
access-list 133 permit icmp x.26.0.0 0.0.255.255 host x.26.147.210 echo-reply
access-list 133 permit icmp x.26.0.0 0.0.255.255 host x.26.147.210 echo
access-list 133 permit tcp x.26.0.0 0.0.255.255 eq tacacs host x.26.147.210 established
access-list 133 permit tcp x.26.0.0 0.0.255.255 host x.26.147.210 eq tacacs
access-list 133 permit udp x.26.0.0 0.0.255.255 host x.26.147.210 eq ntp
access-list 133 permit tcp x.26.0.0 0.0.255.255 host x.26.147.210 eq 22
access-list 133 permit tcp x.26.0.0 0.0.255.255 eq ftp host x.26.147.210 gt 1023
established
access-list 133 permit tcp x.26.0.0 0.0.255.255 eq ftp-data host x.26.147.210 gt 1023
access-list 133 permit tcp x.26.0.0 0.0.255.255 gt 1023 host x.26.147.210 gt 1023
established
access-list 133 permit udp x.26.0.0 0.0.255.255 gt 1023 host x.26.147.210 gt 1023
access-list 134 permit ip host x.26.147.210 x.26.0.0 0.0.255.255
access-list 134 deny ip any any log
!
!
!
!
snmp-server engineID local 8000000903000021D72C4400
snmp-server enable traps cpu threshold
snmp-server host x.26.191.94 public cpu
tacacs-server host x.26.191.94 single-connection key 7 104D000A061843595F
tacacs-server directed-request
!
!
control-plane
!
!
dial-peer cor custom
!
!
!
banner login ^C UNAUTHORIZED ACCESS TO THIS DEVICE IS PROHIBITED
You must have explicit, authorized permission to access or configure this device.
Unauthorized attempts and actions to access or use this system may result in civil and/or
criminal penalties.
All activities performed on this device are logged and monitored.
^C
!
line con 0
login authentication authen-exec-list
line vty 0 3
access-class 111 in
exec-timeout 0 0
password 7 <encrypted password>
authorization commands 15 author-15-list
authorization exec author-exec-list
login authentication authen-exec-list
transport preferred none
transport input ssh
transport output none
line vty 4
access-class 112 in
exec-timeout 0 0
password 7 <encrypted password>
authorization commands 15 author-15-list
authorization exec author-exec-list
login authentication authen-exec-list
transport preferred none
transport input ssh
transport output none
line vty 5 15

```

```

exec-timeout 0 0
transport input lat pad udptn telnet rlogin ssh
!
exception protocol ftp
exception dump x.26.129.252
!
monitor session 1 type erspan-source
shutdown
description <** N1k ERSPAN - originating from dcesx4n1 monitor session 1 **>>
source vlan 3001
destination
    erspan-id 1
    ip address 10.8.33.5
    origin ip address 10.8.3.100
!
!
monitor session 2 type erspan-source
shutdown
description <** N1k ERSPAN - originating from dcesx4n1 monitor session 2 **>>
source vlan 3001
destination
    erspan-id 2
    ip address 10.8.33.5
    origin ip address 10.8.3.100
!
!
monitor session 3 type erspan-destination
shutdown
description <** N1k ERSPAN to NAM - originating from dcesx4n1 **>>
destination analysis-module 9 data-port 2
source
    erspan-id 1
    ip address 10.8.33.5
!
!
monitor session 4 type erspan-destination
shutdown
description <** N1k ERSPAN to IDS-1 - originating from dcesx4n1 **>>
destination interface Gi3/26
source
    erspan-id 2
    ip address 10.8.33.5
!
!
process cpu threshold type total rising 80 interval 5 falling 20 interval 5
process cpu statistics limit entry-percentage 40 size 300
ntp clock-period 17179808
ntp server x.26.129.252
mac-address-table aging-time 480
!
end

```

Services Layer ACE

ACE 1

```

switch/Admin# sh run
Generating configuration....

logging enable
logging standby
logging timestamp
logging buffered 5

login timeout 0
boot system image:c6ace-t1k9-mz.A2_2_0.bin

resource-class dc-gold
  limit-resource all minimum 0.00 maximum unlimited
  limit-resource sticky minimum 10.00 maximum unlimited

clock timezone standard EST
clock summer-time standard EDT

access-list IPANYANY line 8 extended permit ip any any
access-list IPANYANY line 16 extended permit icmp any any
access-list ipanyany line 8 extended permit ip any any

probe icmp ICMPProbe
  description Ping probe

class-map type management match-any MANAGEMENT
  3 match protocol snmp any
  4 match protocol telnet any
  5 match protocol ssh any
  6 match protocol icmp any
  7 match protocol https any
  8 match protocol http any
class-map type management match-all class-Query
  2 match protocol icmp source-address 10.8.99.0 255.255.255.0

policy-map type management first-match MANAGEMENT
  class MANAGEMENT
    permit
policy-map type management first-match QUERY
  class class-Query
    permit

interface vlan 146
  ip address x.26.146.140 255.255.254.0
  peer ip address x.26.146.141 255.255.254.0
  service-policy input MANAGEMENT
  no shutdown

ft interface vlan 170
  ip address 10.8.170.1 255.255.255.0
  peer ip address 10.8.170.2 255.255.255.0
  no shutdown

ft peer 1

```

```

        heartbeat interval 100
        heartbeat count 10
        ft-interface vlan 170

ip route 0.0.0.0 0.0.0.0 x.26.146.1
ip route x.26.129.252 255.255.255.255 x.26.146.1

context dca-ace-one
    description ** ACE Transparent Mode - **
    allocate-interface vlan 146
    allocate-interface vlan 162-163
    allocate-interface vlan 190-191
    member dc-gold
context dca-ace-two
    description ** 2nd ACE Transp. context **
    allocate-interface vlan 146
    allocate-interface vlan 152-153

snmp-server contact "ANM"
snmp-server location "ANM"
snmp-server community public group Network-Monitor

ft group 1
    peer 1
    priority 150
    peer priority 50
ft group 2
    peer 1
    priority 150
    peer priority 50
    associate-context dca-ace-one
    inservice
ft group 3
    peer 1
    priority 50
    peer priority 150
    associate-context dca-ace-two
    inservice
username admin password 5 <encrypted password>. role Admin domain default-domain
username www password 5 <encrypted password> role Admin domain default-domain

switch/Admin#

switch/Admin# changeto dca-ace-one
switch/dca-ace-one# sh run
Generating configuration....

logging enable
logging standby
logging timestamp
logging buffered 5
switch-mode

crypto csr-params CSR_PARAMS_1
    country US
    state North Carolina
    locality RTP
    organization-name ESE

```

```

organization-unit BANK VAULT
common-name crackme.com
crypto csr-params CSR_ORACLE12i
country US
state North Carolina
locality RTP
organization-name ESE
organization-unit OracleApps
common-name oapp.eselab.com
access-list BPDU ethertype permit bpd

access-list ALLOW_TRAFFIC line 8 extended permit icmp any any
access-list ALLOW_TRAFFIC line 16 extended permit ospf any any
access-list ALLOW_TRAFFIC line 48 extended permit ip any any
access-list test line 2 extended permit tcp 10.7.53.0 255.255.255.0 any
access-list test line 3 extended permit tcp any 10.7.53.0 255.255.255.0

probe http 12i
description probes Oracle front end
port 8000
interval 5
passdetect interval 5
passdetect count 5
expect status 200 200
probe http CRACKME
port 81
interval 2
passdetect interval 5
request method get url /Kelev/view/home.php
expect status 200 200
probe icmp TrackHostProbe
description this is a ping probe
interval 2
faildetect 1
passdetect interval 2
passdetect count 1
receive 1
probe http UBER
port 8081
interval 2
passdetect interval 5
request method get url /Kelev/view/home.php
expect status 200 200

parameter-map type http PERSIST
persistence-rebalance
parameter-map type http cookiesecurity
case-insensitive
header modify per-request
set header-maxparse-length 65535
parameter-map type ssl test
session-cache timeout 1800
version TLS1

action-list type modify http HTTPONLY
header rewrite response Set-Cookie header-value "(.*)*secure*(.*)" replace "%1secure;
HTTPOnly;"

rserver redirect OAPP-Redirect
description Oracle Login Redirection
webhost-redirection https://oapp.eselab.com/OA_HTML/AppsLocalLogin.jsp
inservice

```



```

rserver host dc-wae1
  ip address 10.8.191.101
  inservice
rserver host dc-wae2
  ip address 10.8.191.102
  inservice
rserver host ix_server800
  ip address 10.8.180.100
  inservice
rserver host ix_server801
  ip address 10.8.180.101
  inservice
rserver host ix_server802
  ip address 10.8.180.102
  inservice
rserver host ix_server803
  ip address 10.8.180.103
  inservice
rserver host ix_server804
  ip address 10.8.180.104
  inservice
rserver host ix_server805
  ip address 10.8.180.105
  inservice
rserver host ix_server806
  ip address 10.8.180.106
  inservice
rserver host ix_server807
  ip address 10.8.180.107
  inservice
rserver host ix_server808
  ip address 10.8.180.108
  inservice
rserver host ix_server809
  ip address 10.8.180.109
  inservice
rserver host oelnode1
  ip address 10.8.180.250
  inservice
rserver host oelnode2
  ip address 10.8.180.252
  inservice
rserver host oelnode3
  ip address 10.8.180.253
  inservice
rserver host tbox1
  ip address 10.8.180.8
  inservice
rserver host uber0
  ip address 10.8.180.230
  inservice
rserver host uber1
  description USING 10.8.141.231 IP ADDRESS
  ip address 10.8.180.231
rserver host uber2
  ip address 10.8.180.232
rserver host uber3
  ip address 10.8.180.233
rserver host uber4
  ip address 10.8.180.234
rserver host uber5
  ip address 10.8.180.235
rserver host waf1
  ip address 10.8.190.210

```

```

    inservice
rserver host waf2
    ip address 10.8.190.211
    inservice
rserver host webserv1
    ip address 10.8.180.153
    inservice

ssl-proxy service SSL_OAPP
    key oappkey
    cert oapp-cert.pem
ssl-proxy service SSL_PSERVICE_CRACKME
    key my2048RSAkey.PEM
    cert crackme-cert.pem

serverfarm redirect sf-oapp-redirect
    rserver OAPP-Redirect
        inservice
serverfarm host sf_180
    rserver ix_server800
        inservice
    rserver ix_server801
        inservice
    rserver ix_server802
        inservice
    rserver ix_server803
        inservice
    rserver ix_server804
        inservice
    rserver ix_server805
        inservice
    rserver ix_server806
        inservice
    rserver ix_server807
        inservice
    rserver ix_server808
        inservice
    rserver ix_server809
        inservice
serverfarm host sf_bank
    rserver tbox1 8081
        inservice
    rserver uber0 8081
        inservice
    rserver uber1 8081
    rserver uber2 8081
        inservice
    rserver uber3 8081
        inservice
    rserver uber4 8081
        inservice
    rserver uber5 8081
        inservice
serverfarm host sf_books
    rserver uber0 8989
        inservice
serverfarm host sf_oapp
    predictor leastconns
    rserver oelnode1 8000
        inservice
    rserver oelnode2 8000
        inservice
    rserver oelnode3 8000
        inservice

```

```

serverfarm host sf_wae
  transparent
  predictor hash address source 255.255.255.255
  probe TrackHostProbe
  rserver dc-wae1
    inservice
  rserver dc-wae2
    inservice
serverfarm host sf_waf
  rserver waf1 81
    inservice
  rserver waf2 81
    probe TrackHostProbe
    inservice
serverfarm host sf_waf_books
  rserver waf1 82
  rserver waf2 82
    inservice

sticky http-cookie wafcookie wafstkygrp
  cookie insert
  replicate sticky
  serverfarm sf_waf
sticky http-cookie bankcookie bnkstkygrp
  cookie insert
  replicate sticky
  serverfarm sf_bank
sticky http-cookie oracookie oapp-stkygrp
  cookie insert
  timeout 720
  replicate sticky
  serverfarm sf_oapp

class-map type management match-any ANMManagement
  201 match protocol snmp any
  202 match protocol http any
  203 match protocol https any
  204 match protocol icmp any
  205 match protocol ssh any
  206 match protocol telnet any
class-map match-all ANY_TCP
  2 match virtual-address 0.0.0.0 0.0.0.0 tcp any
class-map match-all L4_HTTPS_VIP_ADDRESS
  2 match virtual-address 10.8.162.200 tcp eq https
class-map match-all L4_HTTP_VIP_ADDRESS
  2 match virtual-address 10.8.162.200 tcp eq www
class-map match-all L4_OAPP_VIP
  2 match virtual-address 10.8.162.250 tcp any
class-map match-all OELNODES
  2 match source-address 10.8.180.0 255.255.255.0
class-map match-all VIP_180
  description *VIP for VLAN 180*
  2 match virtual-address 10.8.162.100 any
class-map match-all cm-acl-tcp
  2 match access-list test

policy-map type management first-match ANMManagement
  class ANMManagement
    permit

policy-map type loadbalance first-match pm-forward
  class class-default
    forward
policy-map type loadbalance http first-match pm-oapp

```

```

class class-default
    sticky-serverfarm oapp-stkygrp
    action HTTPONLY
    insert-http ACEForwarded header-value "%is"
policy-map type loadbalance first-match pm-slb
    class class-default
        serverfarm sf_180
policy-map type loadbalance first-match pm-waas
    class class-default
        serverfarm sf_wae
policy-map type loadbalance http first-match pm-waf
    class class-default
        sticky-serverfarm wafstkygrp
        insert-http ACEForwarded header-value "%is"
policy-map type loadbalance http first-match pm-waf2
    class class-default
        serverfarm sf_waf_books
policy-map type loadbalance first-match pm-webbank
    class class-default
        sticky-serverfarm bnkstygrp
policy-map type loadbalance first-match pm_books
    class class-default
        serverfarm sf_books

policy-map multi-match L4_LB_VIP_HTTP_POLICY
    class L4_HTTP_VIP_ADDRESS
        loadbalance vip inservice
        loadbalance policy pm-webbank
        loadbalance vip icmp-reply
policy-map multi-match LB_WAAS_POLICY
    class ANY_TCP
        loadbalance vip inservice
        loadbalance policy pm-waas
        loadbalance vip icmp-reply
    class L4_HTTP_VIP_ADDRESS
        loadbalance vip inservice
        loadbalance policy pm-waas
    class L4_OAPP_VIP
        loadbalance vip inservice
        loadbalance policy pm-waas
        loadbalance vip icmp-reply
policy-map multi-match aggregate-slb-policy
    class VIP_180
        loadbalance vip inservice
        loadbalance policy pm-slb
        loadbalance vip icmp-reply
        loadbalance vip advertise active
    class L4_HTTP_VIP_ADDRESS
        loadbalance vip inservice
        loadbalance policy pm-waf
        loadbalance vip icmp-reply
    class L4_HTTPS_VIP_ADDRESS
        loadbalance vip inservice
        loadbalance policy pm-waf
        loadbalance vip icmp-reply
        ssl-proxy server SSL_PSERVICE_CRACKME
    class L4_OAPP_VIP
        loadbalance vip inservice
        loadbalance policy pm-oapp
        loadbalance vip icmp-reply
        appl-parameter http advanced-options cookiesecurity
        ssl-proxy server SSL_OAPP
    class ANY_TCP
        loadbalance vip inservice

```

```

loadbalance policy pm-forward

interface vlan 146
 ip address x.26.146.142 255.255.254.0
 peer ip address x.26.146.143 255.255.254.0
 service-policy input ANMManagement
 no shutdown
interface vlan 162
 description ** North Side facing FWSM **
 bridge-group 161
 no normalization
 mac-sticky enable
 no icmp-guard
 access-group input BPDU
 access-group input ALLOW_TRAFFIC
 service-policy input LB_WAAS_POLICY
 no shutdown
interface vlan 163
 description ** South Side facing Servers **
 bridge-group 161
 no normalization
 mac-sticky enable
 no icmp-guard
 access-group input BPDU
 access-group input ALLOW_TRAFFIC
 no shutdown
interface vlan 190
 ip address 10.8.190.2 255.255.255.0
 alias 10.8.190.1 255.255.255.0
 peer ip address 10.8.190.3 255.255.255.0
 no normalization
 mac-sticky enable
 no icmp-guard
 access-group input ALLOW_TRAFFIC
 service-policy input L4_LB_VIP_HTTP_POLICY
 service-policy input LB_WAAS_POLICY
 no shutdown
interface vlan 191
 description waas farm vlan 191
 ip address 10.8.191.2 255.255.255.0
 alias 10.8.191.1 255.255.255.0
 peer ip address 10.8.191.3 255.255.255.0
 no normalization
 mac-sticky enable
 no icmp-guard
 access-group input ALLOW_TRAFFIC
 service-policy input aggregate-slb-policy
 no shutdown

interface bvi 161
 ip address 10.8.162.20 255.255.255.0
 alias 10.8.162.22 255.255.255.0
 peer ip address 10.8.162.21 255.255.255.0
 no shutdown

ft track interface TrackVlan163
 track-interface vlan 163
 peer track-interface vlan 163
 priority 150
 peer priority 50

ip route 0.0.0.0 0.0.0.0 10.8.162.1
ip route 10.8.180.0 255.255.255.0 10.8.162.7

```

```
snmp-server contact "ANM"
snmp-server location "ANM"
snmp-server community public group Network-Monitor
```

```
snmp-server trap-source vlan 146
```

```
switch/dca-ace-two# sh run
Generating configuration....
```

```
logging enable
logging standby
logging timestamp
logging buffered 5
```

```
access-list BPDU ethertype permit bpu
```

```
access-list ALLOW_TRAFFIC line 8 extended permit icmp any any
access-list ALLOW_TRAFFIC line 16 extended permit ospf any any
access-list ALLOW_TRAFFIC line 48 extended permit ip any any
```

```
probe icmp TrackHostProbe
  description this is a ping probe
  interval 2
  faildetect 1
  passdetect interval 2
  passdetect count 1
  receive 1
```

```
rserver host ix_server810
  ip address 10.8.181.100
  inservice
rserver host ix_server811
  ip address 10.8.181.101
  inservice
rserver host ix_server812
  ip address 10.8.181.102
  inservice
rserver host ix_server813
  ip address 10.8.181.103
  inservice
rserver host ix_server814
  ip address 10.8.181.104
  inservice
rserver host ix_server815
  ip address 10.8.181.105
  inservice
rserver host ix_server816
  ip address 10.8.181.106
  inservice
rserver host ix_server817
  ip address 10.8.181.107
  inservice
rserver host ix_server818
  ip address 10.8.181.108
  inservice
rserver host ix_server819
  ip address 10.8.181.109
  inservice
```

```
serverfarm host sf_181
```

```

probe TrackHostProbe
rserver ix_server810
    inservice
rserver ix_server811
    inservice
rserver ix_server812
    inservice
rserver ix_server813
    inservice
rserver ix_server814
    inservice
rserver ix_server815
    inservice
rserver ix_server816
    inservice
rserver ix_server817
    inservice
rserver ix_server818
    inservice
rserver ix_server819
    inservice

class-map type management match-any ANMManagement
  201 match protocol snmp any
  202 match protocol http any
  203 match protocol https any
  204 match protocol icmp any
  205 match protocol ssh any
  206 match protocol telnet any
class-map match-all VIP_181
  description *VIP for VLAN 181*
  2 match virtual-address 10.8.152.100 any

policy-map type management first-match ANMManagement
  class ANMManagement
    permit

policy-map type loadbalance first-match pm-slb1
  class class-default
    serverfarm sf_181

policy-map multi-match aggregate-slb-policy
  class VIP_181
    loadbalance vip inservice
    loadbalance policy pm-slb1
    loadbalance vip icmp-reply
    loadbalance vip advertise active

interface vlan 146
  ip address x.26.146.252 255.255.254.0
  peer ip address x.26.146.253 255.255.254.0
  service-policy input ANMManagement
  no shutdown
interface vlan 152
  description ** North Side facing FWSM2 **
  bridge-group 151
  no normalization
  mac-sticky enable
  no icmp-guard
  access-group input BPDU
  access-group input ALLOW_TRAFFIC
  service-policy input aggregate-slb-policy
  no shutdown
interface vlan 153

```

```

description ** South Side facing Servers2 **
bridge-group 151
no normalization
mac-sticky enable
no icmp-guard
access-group input BPDU
access-group input ALLOW_TRAFFIC
no shutdown

interface bvi 151
ip address 10.8.152.20 255.255.255.0
alias 10.8.152.22 255.255.255.0
peer ip address 10.8.152.21 255.255.255.0
no shutdown

ft track interface TrackVlan153
track-interface vlan 153
peer track-interface vlan 153
priority 150
peer priority 50

ip route 10.8.181.0 255.255.255.0 10.8.152.7
ip route 0.0.0.0 0.0.0.0 10.8.152.1

snmp-server contact "ANM"
snmp-server location "ANM"
snmp-server community public group Network-Monitor

snmp-server trap-source vlan 146

ACE 2
switch/Admin# sh run
Generating configuration....

logging enable
logging standby
logging timestamp
logging buffered 5

boot system image:c6ace-t1k9-mz.A2_2_0.bin

resource-class dc-gold
limit-resource all minimum 0.00 maximum unlimited
limit-resource sticky minimum 10.00 maximum unlimited

clock timezone standard EST
clock summer-time standard EDT

access-list IPANYANY line 8 extended permit ip any any
access-list IPANYANY line 16 extended permit icmp any any
access-list ipanyany line 8 extended permit ip any any

probe icmp ICMPProbe
description Ping probe

class-map type management match-any MANAGEMENT
3 match protocol snmp any
4 match protocol telnet any
5 match protocol ssh any

```



```

6 match protocol icmp any
7 match protocol https any
8 match protocol http any
class-map type management match-all class-Query
  2 match protocol icmp source-address 10.8.99.0 255.255.255.0

policy-map type management first-match MANAGEMENT
  class MANAGEMENT
    permit
policy-map type management first-match QUERY
  class class-Query
    permit

interface vlan 146
  ip address x.26.146.141 255.255.254.0
  peer ip address x.26.146.140 255.255.254.0
  service-policy input MANAGEMENT
  no shutdown

ft interface vlan 170
  ip address 10.8.170.2 255.255.255.0
  peer ip address 10.8.170.1 255.255.255.0
  no shutdown

ft peer 1
  heartbeat interval 100
  heartbeat count 10
  ft-interface vlan 170
ft group 1
  peer 1
  priority 50
  peer priority 150
  associate-context Admin
  inservice

ip route 0.0.0.0 0.0.0.0 x.26.146.1
ip route x.26.129.252 255.255.255.255 x.26.146.1

context dca-ace-one
  description ** ACE Transparent Mode - **
  allocate-interface vlan 146
  allocate-interface vlan 162-163
  allocate-interface vlan 190-191
  member dc-gold
context dca-ace-two
  description ** 2nd ACE Transp. context **
  allocate-interface vlan 146
  allocate-interface vlan 152-153

snmp-server contact "ANM"
snmp-server location "ANM"
snmp-server community public group Network-Monitor

ft group 2
  peer 1
  priority 50
  peer priority 150
  associate-context dca-ace-one
  inservice
ft group 3
  peer 1
  priority 150
  peer priority 50

```

```

    associate-context dca-ace-two
    inservice
username admin password 5 <encrypted password> . role Admin domain default-domain
username www password 5 <encrypted password> role Admin domain default-domain

switch/Admin#

switch/dca-ace-one# sh run
Generating configuration....

logging enable
logging standby
logging timestamp
logging buffered 5
switch-mode

crypto csr-params CSR_PARAMS_1
    country US
    state North Carolina
    locality RTP
    organization-name ESE
    organization-unit BANK VAULT
    common-name crackme.com
crypto csr-params CSR_ORACLE12i
    country US
    state North Carolina
    locality RTP
    organization-name ESE
    organization-unit OracleApps
    common-name oapp.eselab.com
access-list BPDU ethertype permit bpd

access-list ALLOW_TRAFFIC line 8 extended permit icmp any any
access-list ALLOW_TRAFFIC line 16 extended permit ospf any any
access-list ALLOW_TRAFFIC line 48 extended permit ip any any
access-list test line 2 extended permit tcp 10.7.53.0 255.255.255.0 any
access-list test line 3 extended permit tcp any 10.7.53.0 255.255.255.0

probe http 12i
    description probes Oracle front end
    port 8000
    interval 5
    passdetect interval 5
    passdetect count 5
    expect status 200 200
probe http CRACKME
    port 81
    interval 2
    passdetect interval 5
    request method get url /Kelev/view/home.php
    expect status 200 200
probe icmp TrackHostProbe
    description this is a ping probe
    interval 2
    faildetect 1
    passdetect interval 2
    passdetect count 1
    receive 1
probe http UBER
    port 8081

```

```

interval 2
passdetect interval 5
request method get url /Kelev/view/home.php
expect status 200 200

parameter-map type http PERSIST
  persistence-rebalance
parameter-map type http cookiesecurity
  case-insensitive
  header modify per-request
  set header-maxparse-length 65535
parameter-map type ssl test
  session-cache timeout 1800
  version TLS1

action-list type modify http HTTPONLY
  header rewrite response Set-Cookie header-value "(.*)*secure*(.*)" replace "%1secure;
HTTPOnly;"

rserver redirect OAPP-Redirect
  description Oracle Login Redirection
  webhost-redirection https://oapp.eselab.com/OA_HTML/AppsLocalLogin.jsp
  inservice
rserver host dc-wae1
  ip address 10.8.191.101
  inservice
rserver host dc-wae2
  ip address 10.8.191.102
  inservice
rserver host ix_server800
  ip address 10.8.180.100
  inservice
rserver host ix_server801
  ip address 10.8.180.101
  inservice
rserver host ix_server802
  ip address 10.8.180.102
  inservice
rserver host ix_server803
  ip address 10.8.180.103
  inservice
rserver host ix_server804
  ip address 10.8.180.104
  inservice
rserver host ix_server805
  ip address 10.8.180.105
  inservice
rserver host ix_server806
  ip address 10.8.180.106
  inservice
rserver host ix_server807
  ip address 10.8.180.107
  inservice
rserver host ix_server808
  ip address 10.8.180.108
  inservice
rserver host ix_server809
  ip address 10.8.180.109
  inservice
rserver host oelnode1
  ip address 10.8.180.250
  inservice
rserver host oelnode2

```

```

    ip address 10.8.180.252
    inservice
rserver host oelnode3
    ip address 10.8.180.253
    inservice
rserver host tbox1
    ip address 10.8.180.8
    inservice
rserver host uber0
    ip address 10.8.180.230
    inservice
rserver host uber1
    description USING 10.8.141.231 IP ADDRESS
    ip address 10.8.180.231
rserver host uber2
    ip address 10.8.180.232
rserver host uber3
    ip address 10.8.180.233
rserver host uber4
    ip address 10.8.180.234
rserver host uber5
    ip address 10.8.180.235
rserver host waf1
    ip address 10.8.190.210
    inservice
rserver host waf2
    ip address 10.8.190.211
    inservice
rserver host webserv1
    ip address 10.8.180.153
    inservice

ssl-proxy service SSL_OAPP
    key oappkey
    cert oapp-cert.pem
ssl-proxy service SSL_PSERVICE_CRACKME
    key my2048RSAkey.PEM
    cert crackme-cert.pem

serverfarm redirect sf-oapp-redirect
    rserver OAPP-Redirect
    inservice
serverfarm host sf_180
    rserver ix_server800
    inservice
    rserver ix_server801
    inservice
    rserver ix_server802
    inservice
    rserver ix_server803
    inservice
    rserver ix_server804
    inservice
    rserver ix_server805
    inservice
    rserver ix_server806
    inservice
    rserver ix_server807
    inservice
    rserver ix_server808
    inservice
    rserver ix_server809
    inservice
serverfarm host sf_bank

```

```

rserver tbox1 8081
  inservice
rserver uber0 8081
  inservice
rserver uber1 8081
rserver uber2 8081
  inservice
rserver uber3 8081
  inservice
rserver uber4 8081
  inservice
rserver uber5 8081
  inservice
serverfarm host sf_books
  rserver uber0 8989
  inservice
serverfarm host sf_oapp
  predictor leastconns
  rserver oelnode1 8000
  inservice
  rserver oelnode2 8000
  inservice
  rserver oelnode3 8000
  inservice
serverfarm host sf_wae
  transparent
  predictor hash address source 255.255.255.255
  probe TrackHostProbe
  rserver dc-wae1
  inservice
  rserver dc-wae2
  inservice
serverfarm host sf_waf
  rserver waf1 81
  inservice
  rserver waf2 81
  probe TrackHostProbe
  inservice
serverfarm host sf_waf_books
  rserver waf1 82
  rserver waf2 82
  inservice

sticky http-cookie wafcookie wafstkygrp
  cookie insert
  replicate sticky
  serverfarm sf_waf
sticky http-cookie bankcookie bnkstkygrp
  cookie insert
  replicate sticky
  serverfarm sf_bank
sticky http-cookie oracookie oapp-stkygrp
  cookie insert
  timeout 720
  replicate sticky
  serverfarm sf_oapp

class-map type management match-any ANMManagement
  201 match protocol snmp any
  202 match protocol http any
  203 match protocol https any
  204 match protocol icmp any
  205 match protocol ssh any
  206 match protocol telnet any

```

```

class-map match-all ANY_TCP
  2 match virtual-address 0.0.0.0 0.0.0.0 tcp any
class-map match-all L4_HTTPS_VIP_ADDRESS
  2 match virtual-address 10.8.162.200 tcp eq https
class-map match-all L4_HTTP_VIP_ADDRESS
  2 match virtual-address 10.8.162.200 tcp eq www
class-map match-all L4_OAPP_VIP
  2 match virtual-address 10.8.162.250 tcp any
class-map match-all OELNODES
  2 match source-address 10.8.180.0 255.255.255.0
class-map match-all VIP_180
  description *VIP for VLAN 180*
  2 match virtual-address 10.8.162.100 any
class-map match-all cm-acl-tcp
  2 match access-list test

policy-map type management first-match ANMManagement
  class ANMManagement
    permit

policy-map type loadbalance first-match pm-forward
  class class-default
    forward

policy-map type loadbalance http first-match pm-oapp
  class class-default
    sticky-serverfarm oapp-stkygrp
    action HTTPONLY
    insert-http ACEForwarded header-value "%is"
policy-map type loadbalance first-match pm-slb
  class class-default
    serverfarm sf_180
policy-map type loadbalance first-match pm-waas
  class class-default
    serverfarm sf_wae
policy-map type loadbalance http first-match pm-waf
  class class-default
    sticky-serverfarm wafstkygrp
    insert-http ACEForwarded header-value "%is"
policy-map type loadbalance http first-match pm-waf2
  class class-default
    serverfarm sf_waf_books
policy-map type loadbalance first-match pm-webbank
  class class-default
    sticky-serverfarm bnkstkygrp
policy-map type loadbalance first-match pm_books
  class class-default
    serverfarm sf_books

policy-map multi-match L4_LB_VIP_HTTP_POLICY
  class L4_HTTP_VIP_ADDRESS
    loadbalance vip inservice
    loadbalance policy pm-webbank
    loadbalance vip icmp-reply
policy-map multi-match LB_WAAS_POLICY
  class ANY_TCP
    loadbalance vip inservice
    loadbalance policy pm-waas
    loadbalance vip icmp-reply
  class L4_HTTP_VIP_ADDRESS
    loadbalance vip inservice
    loadbalance policy pm-waas
  class L4_OAPP_VIP
    loadbalance vip inservice
    loadbalance policy pm-waas

```

```

        loadbalance vip icmp-reply
policy-map multi-match aggregate-slb-policy
class VIP_180
    loadbalance vip inservice
    loadbalance policy pm-slb
    loadbalance vip icmp-reply
    loadbalance vip advertise active
class L4_HTTP_VIP_ADDRESS
    loadbalance vip inservice
    loadbalance policy pm-waf
    loadbalance vip icmp-reply
class L4_HTTPS_VIP_ADDRESS
    loadbalance vip inservice
    loadbalance policy pm-waf
    loadbalance vip icmp-reply
    ssl-proxy server SSL_PSERVICE_CRACKME
class L4_OAPP_VIP
    loadbalance vip inservice
    loadbalance policy pm-oapp
    loadbalance vip icmp-reply
    appl-parameter http advanced-options cookiesecurity
    ssl-proxy server SSL_OAPP
class ANY_TCP
    loadbalance vip inservice
    loadbalance policy pm-forward

interface vlan 146
    ip address x.26.146.143 255.255.254.0
    peer ip address x.26.146.142 255.255.254.0
    service-policy input ANMManagement
    no shutdown
interface vlan 162
    description ** North Side facing FWSM **
    bridge-group 161
    no normalization
    mac-sticky enable
    no icmp-guard
    access-group input BPDU
    access-group input ALLOW_TRAFFIC
    service-policy input LB_WAAS_POLICY
    no shutdown
interface vlan 163
    description ** South Side facing Servers **
    bridge-group 161
    no normalization
    mac-sticky enable
    no icmp-guard
    access-group input BPDU
    access-group input ALLOW_TRAFFIC
    no shutdown
interface vlan 190
    ip address 10.8.190.3 255.255.255.0
    alias 10.8.190.1 255.255.255.0
    peer ip address 10.8.190.2 255.255.255.0
    no normalization
    mac-sticky enable
    no icmp-guard
    access-group input ALLOW_TRAFFIC
    service-policy input L4_LB_VIP_HTTP_POLICY
    service-policy input LB_WAAS_POLICY
    no shutdown
interface vlan 191
    description waas farm vlan 191
    ip address 10.8.191.3 255.255.255.0

```

```

alias 10.8.191.1 255.255.255.0
peer ip address 10.8.191.2 255.255.255.0
no normalization
mac-sticky enable
no icmp-guard
access-group input ALLOW_TRAFFIC
service-policy input aggregate-slb-policy
no shutdown

interface bvi 161
ip address 10.8.162.21 255.255.255.0
alias 10.8.162.22 255.255.255.0
peer ip address 10.8.162.20 255.255.255.0
no shutdown

ft track interface TrackVlan163
track-interface vlan 163
peer track-interface vlan 163
priority 50
peer priority 150

ip route 0.0.0.0 0.0.0.0 10.8.162.1
ip route 10.8.180.0 255.255.255.0 10.8.162.7

snmp-server contact "ANM"
snmp-server location "ANM"
snmp-server community public group Network-Monitor

snmp-server trap-source vlan 146

switch/dca-ace-two# sh run
Generating configuration....

logging enable
logging standby
logging timestamp
logging buffered 5

access-list BPDU ethertype permit bpd

access-list ALLOW_TRAFFIC line 8 extended permit icmp any any
access-list ALLOW_TRAFFIC line 16 extended permit ospf any any
access-list ALLOW_TRAFFIC line 48 extended permit ip any any

probe icmp TrackHostProbe
description this is a ping probe
interval 2
faildetect 1
passdetect interval 2
passdetect count 1
receive 1

rserver host ix_server810
ip address 10.8.181.100
inservice
rserver host ix_server811
ip address 10.8.181.101
inservice
rserver host ix_server812

```



```

        ip address 10.8.181.102
        inservice
    rserver host ix_server813
        ip address 10.8.181.103
        inservice
    rserver host ix_server814
        ip address 10.8.181.104
        inservice
    rserver host ix_server815
        ip address 10.8.181.105
        inservice
    rserver host ix_server816
        ip address 10.8.181.106
        inservice
    rserver host ix_server817
        ip address 10.8.181.107
        inservice
    rserver host ix_server818
        ip address 10.8.181.108
        inservice
    rserver host ix_server819
        ip address 10.8.181.109
        inservice

serverfarm host sf_181
    probe TrackHostProbe
    rserver ix_server810
        inservice
    rserver ix_server811
        inservice
    rserver ix_server812
        inservice
    rserver ix_server813
        inservice
    rserver ix_server814
        inservice
    rserver ix_server815
        inservice
    rserver ix_server816
        inservice
    rserver ix_server817
        inservice
    rserver ix_server818
        inservice
    rserver ix_server819
        inservice

class-map type management match-any ANMManagement
    201 match protocol snmp any
    202 match protocol http any
    203 match protocol https any
    204 match protocol icmp any
    205 match protocol ssh any
    206 match protocol telnet any
class-map match-all VIP_181
    description *VIP for VLAN 181*
    2 match virtual-address 10.8.152.100 any

policy-map type management first-match ANMManagement
    class ANMManagement
        permit

policy-map type loadbalance first-match pm-slb1
    class class-default

```

```

serverfarm sf_181

policy-map multi-match aggregate-slb-policy
class VIP_181
  loadbalance vip inservice
  loadbalance policy pm-slb1
  loadbalance vip icmp-reply
  loadbalance vip advertise active

interface vlan 146
  ip address x.26.146.253 255.255.254.0
  peer ip address x.26.146.252 255.255.254.0
  service-policy input ANMManagement
  no shutdown
interface vlan 152
  description ** North Side facing FWSM2 **
  bridge-group 151
  no normalization
  mac-sticky enable
  no icmp-guard
  access-group input BPDU
  access-group input ALLOW_TRAFFIC
  service-policy input aggregate-slb-policy
  no shutdown
interface vlan 153
  description ** South Side facing Servers2 **
  bridge-group 151
  no normalization
  mac-sticky enable
  no icmp-guard
  access-group input BPDU
  access-group input ALLOW_TRAFFIC
  no shutdown

interface bvi 151
  ip address 10.8.152.21 255.255.255.0
  alias 10.8.152.22 255.255.255.0
  peer ip address 10.8.152.20 255.255.255.0
  no shutdown

ft track interface TrackVlan153
  track-interface vlan 153
  peer track-interface vlan 153
  priority 50
  peer priority 150

ip route 10.8.181.0 255.255.255.0 10.8.152.7
ip route 0.0.0.0 0.0.0.0 10.8.152.1

snmp-server contact "ANM"
snmp-server location "ANM"
snmp-server community public group Network-Monitor

snmp-server trap-source vlan 146

switch/dca-ace-two#

```

Services Layer IPS

IPS 1

```
dca-ips1# sh configuration
! -----
! Current configuration last modified Thu Mar 05 14:27:20 2009
! -----
! Version 6.2(1)
! Host:
!   Realm Keys          key1.0
! Signature Definition:
!   Signature Update    S386.0    2009-03-09
!   Virus Update        V1.4      2007-03-02
! -----
service interface
physical-interfaces GigabitEthernet3/0
admin-state disabled
subinterface-type none
exit
physical-interfaces GigabitEthernet3/3
description to ssl gig3/26
admin-state enabled
duplex auto
speed auto
default-vlan 0
alt-tcp-reset-interface none
exit
physical-interfaces TenGigabitEthernet7/0
description to ss2
admin-state disabled
duplex auto
speed auto
default-vlan 0
alt-tcp-reset-interface none
subinterface-type inline-vlan-pair
subinterface 1
description to ss2
vlan1 163
vlan2 164
exit
exit
exit
physical-interfaces TenGigabitEthernet7/1
no description
admin-state enabled
duplex auto
speed auto
default-vlan 1
alt-tcp-reset-interface none
subinterface-type inline-vlan-pair
subinterface 1
description ss1
vlan1 163
vlan2 164
exit
exit
exit
bypass-mode auto
cdp-mode forward-cdp-packets
exit
! -----
service authentication
```

```

exit
! -----
service event-action-rules rules0
overrides deny-packet-inline
override-item-status Disabled
risk-rating-range 90-100
exit
overrides log-attacker-packets
override-item-status Enabled
risk-rating-range 90-100
exit
overrides log-victim-packets
override-item-status Enabled
risk-rating-range 90-100
exit
overrides log-pair-packets
override-item-status Enabled
risk-rating-range 90-100
exit
overrides produce-alert
override-item-status Enabled
risk-rating-range 90-100
exit
overrides produce-verbose-alert
override-item-status Enabled
risk-rating-range 1-69
exit
filters edit Q00000
signature-id-range 1301
subsignature-id-range 0
attacker-address-range 10.8.162.20
victim-address-range 10.8.180.232
victim-port-range 8081
actions-to-remove log-attacker-packets|produce-alert|produce-verbose-alert
os-relevance relevant|not-relevant|unknown
exit
filters move Q00000 begin
exit
! -----
service host
network-settings
host-ip x.26.146.87/24,x.26.146.1
host-name dca-ips1
telnet-option disabled
access-list 10.0.0.0/8
access-list 64.0.0.0/8
access-list x.0.0.0/8
exit
time-zone-settings
offset -300
standard-time-zone-name GMT-05:00
exit
ntp-option enabled
ntp-keys 10 md5-key cisco123
ntp-servers x.26.170.13 key-id 10
exit
summertime-option disabled
auto-upgrade
cisco-server enabled
schedule-option calendar-schedule
times-of-day 17:20:00
days-of-week monday
days-of-week tuesday
days-of-week wednesday

```

```

days-of-week thursday
days-of-week friday
exit
cisco-url https://198.133.219.25//cgi-bin/front.x/ida/locator/locator.pl
exit
exit
exit
! -----
service logger
exit
! -----
service network-access
general
block-enable false
exit
exit
! -----
service notification
exit
! -----
service signature-definition sig0
signatures 1301 0
engine normalizer
event-action produce-alert
exit
exit
signatures 1302 0
engine normalizer
event-action produce-alert
exit
exit
signatures 1303 0
engine normalizer
event-action produce-alert
exit
exit
signatures 1304 0
engine normalizer
event-action produce-alert
exit
exit
signatures 1305 0
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1306 1
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1306 2
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1306 3
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1306 4
engine normalizer
event-action produce-alert|modify-packet-inline

```

```

exit
exit
signatures 1306 5
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1306 6
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1312 0
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1313 0
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1316 0
engine normalizer
event-action produce-alert
exit
exit
signatures 1330 0
engine normalizer
event-action produce-alert|deny-packet-inline
exit
exit
signatures 1330 1
engine normalizer
event-action produce-alert|deny-packet-inline
exit
exit
signatures 1330 2
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1330 5
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1330 6
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1330 7
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1330 8
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1330 9
engine normalizer

```

```

event-action produce-alert|deny-packet-inline
exit
exit
signatures 1330 10
engine normalizer
event-action produce-alert|deny-packet-inline
exit
exit
signatures 1330 12
engine normalizer
event-action produce-alert
exit
exit
signatures 1330 17
engine normalizer
event-action produce-alert
exit
exit
signatures 1330 18
engine normalizer
event-action produce-alert|deny-packet-inline
exit
exit
signatures 1330 19
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1330 20
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1330 21
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 2000 0
status
enabled false
exit
exit
signatures 2004 0
status
enabled false
exit
exit
signatures 2007 0
status
enabled false
exit
exit
signatures 2008 0
status
enabled false
exit
exit
signatures 2100 0
status
enabled false
exit
exit
signatures 2151 0

```

```

status
enabled true
exit
exit
exit
! -----
service ssh-known-hosts
exit
! -----
service trusted-certificates
trusted-certificates x.26.191.99 certificate
MIICaDCCAdECBehdNM4wDQYJKoZIhvcNAQEEBQAwezELMAkGA1UEBhMCVVMxEzARBgNVBAGTCkNhbg1mb3JuaWEExET
APBgNVBACTCFNhbiBkb3NlMRYwFAYDVQQKEw1DaXNjbYBTeXN0ZW1zMQRwEgYDVQQLewtTVEcgQ1MtdUFSUzEWMBQG
A1UEAxMNd3d3LmNpc2NvLmNvbTAeFw0wODA2MjExNzA1MTA4MjYyMzA2MTgxNzA1MTA4MjYyMzA2MTgxNzA1MTA4MjYy
MwEQYDVQQLIEwpcDYWxpZm9ybmlhMREwDwYDVQQHEWhTYW4gSm9zZTEWMBQGA1UEChMNQ21zY28gU3lzdGVtczEUMBIG
A1UECXMlU1RHIENTLU1BU1MxXjFjAUBGNVBAMTDXdx3dy5jaXNjbY5jb20wgZ8wDQYJKoZIhvcNAQEEBQAAdgY0AMIGJAo
GBAM/IsMmkz4/gg6cuqu2CylSBqc+YlMELHTnU20Rfx05oaYil4YBFJwgQ9Y9w0G7N7LIjrmWwUCmwnwFshkn8BwLN
r5+qVCT6Y+5GXzD8zC2kdRud06T4n4150j1dfxb2GuMnYSK+tK00R1/fYIK5zvhyJ/8AVfRZ4okWdiGfu/EdAgMBAA
EwDQYJKoZIhvcNAQEEBQAAdgYEAtvqJE5f9XqDrSxTh5bL75A1/taePqpaYgpS4rLvP2OZ7Rf0tU7SCANS6OmykM5OB
xCpsdzoGreHymP7v4exnesJZp3ptCFNAW67COoWA29UfKYrIamXopBhltTWzI+3igrlyZnHEQVXgsHx9lbyHXGE/GV
7y0LrS4Qhr50PKjQk=
exit
! -----
service web-server
port 443
exit
! -----
service anomaly-detection ad0
ignore
source-ip-address-range 10.7.52.30
dest-ip-address-range 10.8.180.153,10.8.162.200
exit
exit
! -----
service external-product-interface
exit
! -----
service health-monitor
exit
! -----
service analysis-engine
virtual-sensor vs0
physical-interface TenGigabitEthernet7/0 subinterface-number 1
physical-interface TenGigabitEthernet7/1 subinterface-number 1
inline-TCP-session-tracking-mode virtual-sensor
inline-TCP-evasion-protection-mode strict
exit
virtual-sensor vs1
signature-definition sig0
event-action-rules rules0
anomaly-detection
anomaly-detection-name ad0
exit
physical-interface GigabitEthernet3/3 subinterface-number 0
exit
exit

IPS 2
dca-ips2# sh configuration
! -----
! Current configuration last modified Thu Mar 05 14:03:20 2009
! -----
! Version 6.2(1)

```



```

! Host:
!   Realm Keys          key1.0
! Signature Definition:
!   Signature Update    S386.0   2009-03-09
!   Virus Update        V1.4     2007-03-02
! -----
service interface
physical-interfaces TenGigabitEthernet7/0
admin-state enabled
subinterface-type inline-vlan-pair
subinterface 1
no description
vlan1 163
vlan2 164
exit
exit
exit
physical-interfaces TenGigabitEthernet7/1
description to ss2
admin-state enabled
duplex auto
speed auto
default-vlan 0
alt-tcp-reset-interface none
subinterface-type inline-vlan-pair
subinterface 1
description ss2
vlan1 163
vlan2 164
exit
exit
exit
bypass-mode auto
exit
! -----
service authentication
exit
! -----
service event-action-rules rules0
overrides deny-packet-inline
override-item-status Disabled
risk-rating-range 90-100
exit
exit
! -----
service host
network-settings
host-ip x.26.146.88/24,x.26.146.1
host-name dca-ips2
telnet-option disabled
access-list 10.0.0.0/8
access-list 64.0.0.0/8
access-list x.0.0.0/8
exit
time-zone-settings
offset -300
standard-time-zone-name GMT-05:00
exit
ntp-option enabled
ntp-keys 10 md5-key cisco123
ntp-servers x.26.170.13 key-id 10
exit
summertime-option recurring
summertime-zone-name GMT-05:00

```

```

exit
auto-upgrade
cisco-server enabled
schedule-option calendar-schedule
times-of-day 17:20:00
days-of-week monday
days-of-week tuesday
days-of-week wednesday
days-of-week thursday
days-of-week friday
exit
cisco-url https://198.133.219.25//cgi-bin/front.x/ida/locator/locator.pl
exit
exit
exit
! -----
service logger
exit
! -----
service network-access
exit
! -----
service notification
exit
! -----
service signature-definition sig0
signatures 1301 0
engine normalizer
event-action produce-alert
exit
exit
signatures 1302 0
engine normalizer
event-action produce-alert
exit
exit
signatures 1303 0
engine normalizer
event-action produce-alert
exit
exit
signatures 1304 0
engine normalizer
event-action produce-alert
exit
exit
signatures 1305 0
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1306 1
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1306 2
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1306 3
engine normalizer
event-action produce-alert|modify-packet-inline

```

```

exit
exit
signatures 1306 4
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1306 5
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1306 6
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1312 0
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1313 0
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1316 0
engine normalizer
event-action produce-alert
exit
exit
signatures 1330 0
engine normalizer
event-action produce-alert|deny-packet-inline
exit
exit
signatures 1330 1
engine normalizer
event-action produce-alert|deny-packet-inline
exit
exit
signatures 1330 2
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1330 5
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1330 6
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1330 7
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1330 8
engine normalizer

```

```

event-action produce-alert|modify-packet-inline
exit
exit
signatures 1330 9
engine normalizer
event-action produce-alert|deny-packet-inline
exit
exit
signatures 1330 10
engine normalizer
event-action produce-alert|deny-packet-inline
exit
exit
signatures 1330 12
engine normalizer
event-action produce-alert
exit
exit
signatures 1330 17
engine normalizer
event-action produce-alert
exit
exit
signatures 1330 18
engine normalizer
event-action produce-alert|deny-packet-inline
exit
exit
signatures 1330 19
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1330 20
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
signatures 1330 21
engine normalizer
event-action produce-alert|modify-packet-inline
exit
exit
exit
! -----
service ssh-known-hosts
exit
! -----
service trusted-certificates
trusted-certificates x.26.191.99 certificate
MIICaDCCAdECBEhdNM4wDQYJKoZIhvcNAQEEBQAwezELMAkGA1UEBhMCVVMxEzARBgNVBAGTCkNhbG1mb3JuaWEExET
APBgNVBAcTCFNhbiBkb3NlMRYwFAYDVQQKEw1DaXNjbyBTeXN0ZW1zMQRwEgYDVQQLEwtTVEcgQ1MtTUFUSUzEWMBQG
A1UEAxMNd3d3LmNpc2NvLmNvbTAeFw0wODA2MjExNzA1MTBaFw0yMzA2MTgxNzA1MTBhMHsxMzA1MTBhMHAwZDQwMTA1
MwEQYDVQIQIEwPDYXpZm9ybmlhMREwDwYDVQQHEWhTYW4gSm9zZTEWMBQGA1UEChMNQ21zY28gU3lzdGVtczEUMBIG
A1UECxMLU1RHIENTLU1BU1MxXjFjAUBGNVBAMTDXd3dy5jaXNjby5jb20wgZ8wDQYJKoZIhvcNAQEEBQADgY0AMIGJAo
GBAM/IsMmkz4/gg6cuqu2CylSBqc+YlMELHTnU20Rfx05oaYl14YBFJwgQ9Y9w0G7N7LIjxmWwUCmwnwFsHkn8BwLN
r5+qVCT6Y+5GXzD8zC2kdRud06T4n4150j1dfxb2GuMnYSK+tK00R1/fYIK5zvhYJ/8AVfRZ4okWdiGfu/EdAgMBAA
EwDQYJKoZIhvcNAQEEBQADgYEAtvqJE5f9XqDrSxTh5bL75A1/taePqpaYgpS4rLvP2OZ7Rf0tU7SCANS6OmykM5OB
xCPsdzoGreHymP7v4exnesJZp3ptCFNAW67COoWA29UfKYrIamXopBh1tTWzI+3igrlyZnHEQVXgsHx9lbyHXGE/GV
7y0LrS4Qhr50PKjQk=
exit
! -----
service web-server
exit

```

```

! -----
service anomaly-detection ad0
ignore
source-ip-address-range 10.7.52.30
dest-ip-address-range 10.8.180.153,10.8.162.200
exit
exit
! -----
service external-product-interface
exit
! -----
service health-monitor
exit
! -----
service analysis-engine
virtual-sensor vs0
physical-interface TenGigabitEthernet7/0 subinterface-number 1
physical-interface TenGigabitEthernet7/1 subinterface-number 1
inline-TCP-session-tracking-mode virtual-sensor
inline-TCP-evasion-protection-mode strict
exit
exit

```

Access Layer Nexus 5000

Nexus 5000 1

```

dc10-5020-1# sh run
version 4.0(1a)N1(1)
feature tacacs+
feature lacp
feature fcoe
username admin password 5 <encrypted password> role network-admin
username dma password 5 <encrypted password>/ role network-admin
username chris password 5 <encrypted password> role network-admin
ssh key rsa 2048 force
ntp server x.26.146.1 use-vrf management
ip host dc10-5020-1 x.26.146.191
tacacs-server key 7 "<key>"
tacacs-server host x.26.191.94 key 7 "<key>"
aaa group server tacacs+ tacacs-group
    server x.26.191.94
    use-vrf management
aaa group server tacacs+ tacacs
system default switchport
service unsupported-transceiver
ip access-list 134
    10 permit ip x.26.146.191/32 x.26.0.0/16
    20 deny ip any any
ip access-list 133
    10 permit icmp x.26.0.0/16 x.26.146.191/32 ttl-exceeded
    20 permit icmp x.26.0.0/16 x.26.146.191/32 port-unreachable
    30 permit icmp x.26.0.0/16 x.26.146.191/32 echo-reply
    40 permit icmp x.26.0.0/16 x.26.146.191/32 echo
    50 permit tcp x.26.0.0/16 eq tacacs x.26.146.191/32 established
    60 permit tcp x.26.0.0/16 x.26.146.191/32 eq tacacs
    70 permit udp x.26.0.0/16 x.26.146.191/32 eq ntp
    80 permit tcp x.26.0.0/16 x.26.146.191/32 eq 22
    90 permit tcp x.26.0.0/16 eq ftp x.26.146.191/32 gt 1023 established

```

```

100 permit tcp x.26.0.0/16 eq ftp-data x.26.146.191/32 gt 1023
110 permit tcp x.26.0.0/16 gt 1023 x.26.146.191/32 gt 1023 established
120 permit udp x.26.0.0/16 gt 1023 x.26.146.191/32 gt 1023
130 permit udp x.26.191.99/32 x.26.146.191/32 eq snmp
140 deny ip any any
snmp-server user dma network-admin auth md5 0x9087aa934c0a90dc2e7456b14f13cb31 p
riv 0x9087aa934c0a90dc2e7456b14f13cb31 localizedkey
snmp-server user admin network-admin auth md5 0x9087aa934c0a90dc2e7456b14f13cb31
priv 0x9087aa934c0a90dc2e7456b14f13cb31 localizedkey
snmp-server user chris network-admin auth md5 0x9087aa934c0a90dc2e7456b14f13cb31
priv 0x9087aa934c0a90dc2e7456b14f13cb31 localizedkey
snmp-server host 10.116.132.2 version 2c public udp-port 2162
snmp-server host 192.168.174.131 version 2c public udp-port 2162
aaa authentication login console group tacacs-group
aaa accounting default group tacacs-group
aaa authentication login error-enable
vrf context management
    ip route 0.0.0.0/0 x.26.146.1
    ip route x.26.0.0/16 x.26.146.1
switchname dc10-5020-1
vlan 1,15
vlan 98
    name serviceconsole
vlan 142
    name dbvlan
vlan 180-183
vlan 3000
    name erspan
vlan 3002
    name vemcontrol
vlan 3003
    name vempacket
spanning-tree pathcost method long
spanning-tree port type network default
vsan database
    vsan 60 name "SAN_VSAN"
class-map iSCSI
    match cos 2
class-map VMotion
    match cos 1
class-map Service-Console
    match cos 4
policy-map VMWare-Classes
    class class-default
    class class-fcoe
    class iSCSI
        pause no-drop
    class VMotion
    class Service-Console
policy-map jumbo
    class class-default
        mtu 9216
system qos
    service-policy jumbo

interface vfc1
    no shutdown
    bind interface Ethernet1/1

interface vfc2
    no shutdown
    bind interface Ethernet1/2

interface vfc3

```

```

no shutdown
bind interface Ethernet1/3

interface vfc4
no shutdown
bind interface Ethernet1/4

interface vfc5
no shutdown
bind interface Ethernet1/5

interface vfc6
no shutdown
bind interface Ethernet1/6
vsan database
vsan 60 interface vfc1
vsan 60 interface vfc2
vsan 60 interface vfc3
vsan 60 interface vfc4
vsan 60 interface vfc5
vsan 60 interface vfc6
vsan 60 interface fc2/1

interface fc2/1
no shutdown
switchport trunk allowed vsan 60

interface fc2/2

interface fc2/3

interface fc2/4

interface fc3/1

interface fc3/2

interface fc3/3

interface fc3/4

interface Ethernet1/1
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,142,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/2
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,142,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/3
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/4
switchport mode trunk

```

```
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/5
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,142,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/6
shutdown
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/7
shutdown
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/8
shutdown
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/9
shutdown
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/10
shutdown
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/11

interface Ethernet1/12

interface Ethernet1/13

interface Ethernet1/14

interface Ethernet1/15

interface Ethernet1/16
```



```
interface Ethernet1/17

interface Ethernet1/18

interface Ethernet1/19

interface Ethernet1/20

interface Ethernet1/21

interface Ethernet1/22

interface Ethernet1/23

interface Ethernet1/24

interface Ethernet1/25

interface Ethernet1/26

interface Ethernet1/27

interface Ethernet1/28

interface Ethernet1/29

interface Ethernet1/30

interface Ethernet1/31

interface Ethernet1/32

interface Ethernet1/33

interface Ethernet1/34

interface Ethernet1/35

interface Ethernet1/36

interface Ethernet1/37

interface Ethernet1/38

interface Ethernet1/39

interface Ethernet1/40

interface Ethernet2/1
    switchport mode trunk
    logging event port link-status
    logging event port trunk-status
    switchport trunk allowed vlan 15,98,142,180-183,3000,3002-3003
    spanning-tree port type network

interface Ethernet2/2

interface Ethernet2/3

interface Ethernet2/4

interface Ethernet3/1
    switchport mode trunk
    logging event port link-status
```

```

logging event port trunk-status
switchport trunk allowed vlan 15,98,142,180-183,3000,3002-3003
spanning-tree port type network

interface Ethernet3/2

interface Ethernet3/3

interface Ethernet3/4

interface mgmt0
  vrf member management
  ip address x.26.146.191/23
  no ip redirects
interface fc2/1
interface fc2/2
interface fc2/3
interface fc2/4
interface fc3/1
interface fc3/2
interface fc3/3
interface fc3/4
snmp-server enable traps entity fru
snmp-server enable traps license
boot kickstart bootflash:/n5000-uk9-kickstart.4.0.1a.N1.1.bin
boot system bootflash:/n5000-uk9.4.0.1a.N1.1.bin
device-alias database
  device-alias name Atto1 pwn 22:00:00:10:86:13:36:48
  device-alias name Atto2 pwn 22:00:00:10:86:13:36:40
  device-alias name HPBlade1 pwn 50:05:08:b2:00:b1:68:63
  device-alias name HPBlade2 pwn 50:05:08:b2:00:b0:d6:83
  device-alias name HPBlade3 pwn 50:05:08:b2:00:b1:66:93
  device-alias name DellBlade3 pwn 21:00:00:14:22:73:ce:c2
  device-alias name DellBlade5 pwn 21:00:00:14:22:73:ce:e4
  device-alias name dc-dl580-1 pwn 10:00:00:00:c9:57:fa:cc
  device-alias name dc-dl580-2 pwn 10:00:00:00:c9:57:fc:c6
  device-alias name dc-dl580-3 pwn 10:00:00:00:c9:57:e8:20
  device-alias name dc-dl580-4 pwn 10:00:00:00:c9:57:e7:b8
  device-alias name dc-dl580-5 pwn 10:00:00:00:c9:57:fb:d0
  device-alias name dc-dl580-6 pwn 10:00:00:00:c9:57:fd:ce

device-alias commit

ip route 0.0.0.0/23 x.26.146.1
ip route x.26.0.0/16 x.26.146.1
no system default switchport shutdown
zoneset activate name RTP-DataCenter1 vsan 1
zoneset activate name RTP-DataCenter1 vsan 60

Nexus 5000 2
dc10-5020-2# sh run
version 4.0(1a)N1(1)
feature tacacs+
feature udld
feature interface-vlan
feature lacp
feature fcoe
username admin password 5 <encrypted password>role network-admin
username chris password 5 <encrypted password>role network-admin
username dma password 5 <encrypted password>. role network-admin
ssh key rsa 2048 force
ntp server x.26.146.1 use-vrf management
tacacs-server key 7 "<key>"

```

```

tacacs-server host x.26.191.94 key 7 "<key>"
aaa group server tacacs+ tacacs-group
    server x.26.191.94
    use-vrf management
aaa group server tacacs+ tacacs
system default switchport
service unsupported-transceiver
snmp-server user dma network-admin auth md5 0x7f5109316dadcd2bd3322c3baa49167e p
riv 0x7f5109316dadcd2bd3322c3baa49167e localizedkey
snmp-server user admin network-admin auth md5 0x7f5109316dadcd2bd3322c3baa49167e
    priv 0x7f5109316dadcd2bd3322c3baa49167e localizedkey
snmp-server user chris network-admin auth md5 0x7f5109316dadcd2bd3322c3baa49167e
    priv 0x7f5109316dadcd2bd3322c3baa49167e localizedkey
snmp-server host 10.116.132.3 version 2c public udp-port 1163
snmp-server host 192.168.174.131 version 2c public udp-port 2162
aaa authentication login console group tacacs-group
aaa accounting default group tacacs-group
aaa authentication login error-enable
vrf context management
    ip route 0.0.0.0/0 x.26.146.1
switchname dc10-5020-2
vlan 1
vlan 15
    name vmkernel
vlan 98
    name vmprod
vlan 142
    name db
vlan 180-183
vlan 3000
    name erspan
vlan 3002
    name vemcontrol
vlan 3003
    name vempacket
spanning-tree pathcost method long
spanning-tree port type network default
policy-map jumbo
    class class-default
        mtu 9216
system qos
    service-policy jumbo

interface Vlan1

interface fc2/1

interface fc2/2

interface fc2/3

interface fc2/4

interface fc3/1

interface fc3/2

interface fc3/3

interface fc3/4

interface Ethernet1/1
    switchport mode trunk
    logging event port link-status

```

```
logging event port trunk-status
switchport trunk allowed vlan 15,98,142,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/2
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,142,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/3
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/4
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/5
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,142,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/6
shutdown
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/7
shutdown
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/8
shutdown
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,180-183,3000,3002-3003
spanning-tree port type edge trunk

interface Ethernet1/9
shutdown
switchport mode trunk
logging event port link-status
logging event port trunk-status
switchport trunk allowed vlan 15,98,180-183,3000,3002-3003
spanning-tree port type edge trunk
```

```
interface Ethernet1/10
  shutdown
  switchport mode trunk
  logging event port link-status
  logging event port trunk-status
  switchport trunk allowed vlan 15,98,180-183,3000,3002-3003
  spanning-tree port type edge trunk

interface Ethernet1/11

interface Ethernet1/12

interface Ethernet1/13

interface Ethernet1/14

interface Ethernet1/15

interface Ethernet1/16

interface Ethernet1/17

interface Ethernet1/18

interface Ethernet1/19

interface Ethernet1/20

interface Ethernet1/21

interface Ethernet1/22

interface Ethernet1/23

interface Ethernet1/24

interface Ethernet1/25

interface Ethernet1/26

interface Ethernet1/27

interface Ethernet1/28

interface Ethernet1/29

interface Ethernet1/30

interface Ethernet1/31

interface Ethernet1/32

interface Ethernet1/33

interface Ethernet1/34

interface Ethernet1/35

interface Ethernet1/36

interface Ethernet1/37

interface Ethernet1/38
```

```

interface Ethernet1/39

interface Ethernet1/40

interface Ethernet2/1
    switchport mode trunk
    description to dca-n7k1-vdc2 port 1/28
    logging event port link-status
    logging event port trunk-status
    switchport trunk allowed vlan 15,98,142,180-183,3000,3002-3003
    spanning-tree port type network

interface Ethernet2/2

interface Ethernet2/3

interface Ethernet2/4

interface Ethernet3/1
    switchport mode trunk
    logging event port link-status
    logging event port trunk-status
    switchport trunk allowed vlan 15,98,142,180-183,3000,3002-3003
    spanning-tree port type network

interface Ethernet3/2
    shutdown
    switchport mode trunk
    logging event port link-status
    logging event port trunk-status
    switchport trunk allowed vlan 15,98,180-183
    spanning-tree port type network

interface Ethernet3/3

interface Ethernet3/4

interface mgmt0
    vrf member management
    ip address x.26.146.192/23
clock timezone EST -5 0
clock summer-time EST 1 Sunday April 00:00 5 Saturday Oct 00:00 60
system default switchport trunk mode auto
interface fc2/1
interface fc2/2
interface fc2/3
interface fc2/4
interface fc3/1
interface fc3/2
interface fc3/3
interface fc3/4
snmp-server enable traps entity fru
snmp-server enable traps license
boot kickstart bootflash:/n5000-uk9-kickstart.4.0.1a.N1.1.bin
boot system bootflash:/n5000-uk9.4.0.1a.N1.1.bin
ip route 0.0.0.0/0 x.26.146.0/23
ip route 0.0.0.0/0 x.26.146.1
no system default switchport shutdown
monitor session 1

```

Access Layer Nexus 1000V

```
dcvsm# sh run
version 4.0(1)
feature port-security
username admin password 5 $<encrypted password>role network-admin
telnet server enable
ssh key rsa 1024 force
kernel core target 0.0.0.0
kernel core limit 1
system default switchport
mac access-list x.1
vem 3
    host vmware id <encrypted password>
vem 4
    host vmware id <encrypted password>
vem 5
    host vmware id <encrypted password>
vem 6
    host vmware id 4998d511-622d-da10-bd0c-0019bbe97d20
snmp-server user admin network-admin auth md5 <encrypted password> priv
<encrypted password> localizedkey
snmp-server enable traps license
vrf context management
    ip route 0.0.0.0/0 x.26.146.1
switchname dcvsm
flow exporter dc-mgmt
    description Netflow Collector v9
    destination x.26.146.164
    transport udp 3000
    source mgmt0
    version 9
        template data timeout 300
        option exporter-stats timeout 120
flow exporter lnxnf
    description Cisco Netflow Collector
    destination x.26.147.141
    transport udp 3000
    source mgmt0
    version 9
        template data timeout 300
        option exporter-stats timeout 120
flow monitor ESE-flow
    description Flow to Collector
    record netflow-original
    exporter lnxnf
    timeout active 1800
    cache size 4096
flow monitor test
    record ipv4 protocol-port
    exporter lnxnf
    timeout active 1800
    cache size 4096
vlan 15,98
vlan 180
    private-vlan primary
    private-vlan association 500-501
vlan 181-183
vlan 500
    private-vlan isolated
vlan 501
    private-vlan community
vlan 3000
```

```

    name erspan
vlan 3002
    name control
vlan 3003
    name packet
vdc dcvsd id 1
    limit-resource vlan minimum 16 maximum 256
    limit-resource monitor-session minimum 0 maximum 64
    limit-resource vrf minimum 16 maximum 8192
    limit-resource port-channel minimum 0 maximum 256
    limit-resource u4route-mem minimum 32 maximum 256
    limit-resource u6route-mem minimum 16 maximum 256
port-profile system-mgmt
    capability uplink
    vmware port-group SystemUplinks
    switchport mode trunk
    switchport trunk allowed vlan 15,98,180-183,3000,3002-3003
    switchport private-vlan mapping trunk 180 500-501
    channel-group auto mode on sub-group cdp
    ip flow monitor ESE-flow input
    ip flow monitor ESE-flow output
    no shutdown
    system vlan 3002-3003
    state enabled
port-profile vm180
    vmware port-group pg180
    switchport mode access
    switchport access vlan 180
    ip flow monitor ESE-flow input
    ip flow monitor ESE-flow output
    no shutdown
    state enabled
port-profile vmotion
    description VMOTION
    vmware port-group pgVM15
    switchport access vlan 15
    ip flow monitor ESE-flow input
    ip flow monitor ESE-flow output
    no shutdown
    state enabled
port-profile erspan
    capability l3control
    vmware port-group
    switchport access vlan 3000
    no shutdown
    system vlan 3000
    state enabled

interface port-channel1
    mtu 1500
    inherit port-profile system-mgmt

interface port-channel2
    inherit port-profile system-mgmt

interface port-channel3
    inherit port-profile system-mgmt

interface Ethernet3/3
    mtu 1500
    channel-group 1
    inherit port-profile system-mgmt

interface Ethernet3/4

```



```

mtu 1500
channel-group 1
inherit port-profile system-mgmt

interface Ethernet4/3
channel-group 2
inherit port-profile system-mgmt

interface Ethernet4/4
channel-group 2
inherit port-profile system-mgmt

interface Ethernet5/3
channel-group 3
inherit port-profile system-mgmt

interface Ethernet5/4
channel-group 3
inherit port-profile system-mgmt

interface mgmt0
ip address x.26.147.240/23

interface Vethernet1
inherit port-profile vm180

interface Vethernet2
inherit port-profile vmotion

interface Vethernet3
mtu 9216
inherit port-profile erspan

interface Vethernet4
inherit port-profile vmotion

interface Vethernet5
mtu 9216
inherit port-profile erspan

interface Vethernet6
inherit port-profile vmotion

interface Vethernet7
mtu 9216
inherit port-profile erspan

interface Vethernet8
switchport private-vlan host-association 180 500
no shutdown
inherit port-profile vm180

interface Vethernet9

interface Vethernet10

interface Vethernet11
inherit port-profile vm180

interface Vethernet12

interface Vethernet13

interface Vethernet14

```

```

interface Vethernet15

interface Vethernet16

interface Vethernet17
    inherit port-profile vm180

interface Vethernet18
    inherit port-profile vm180

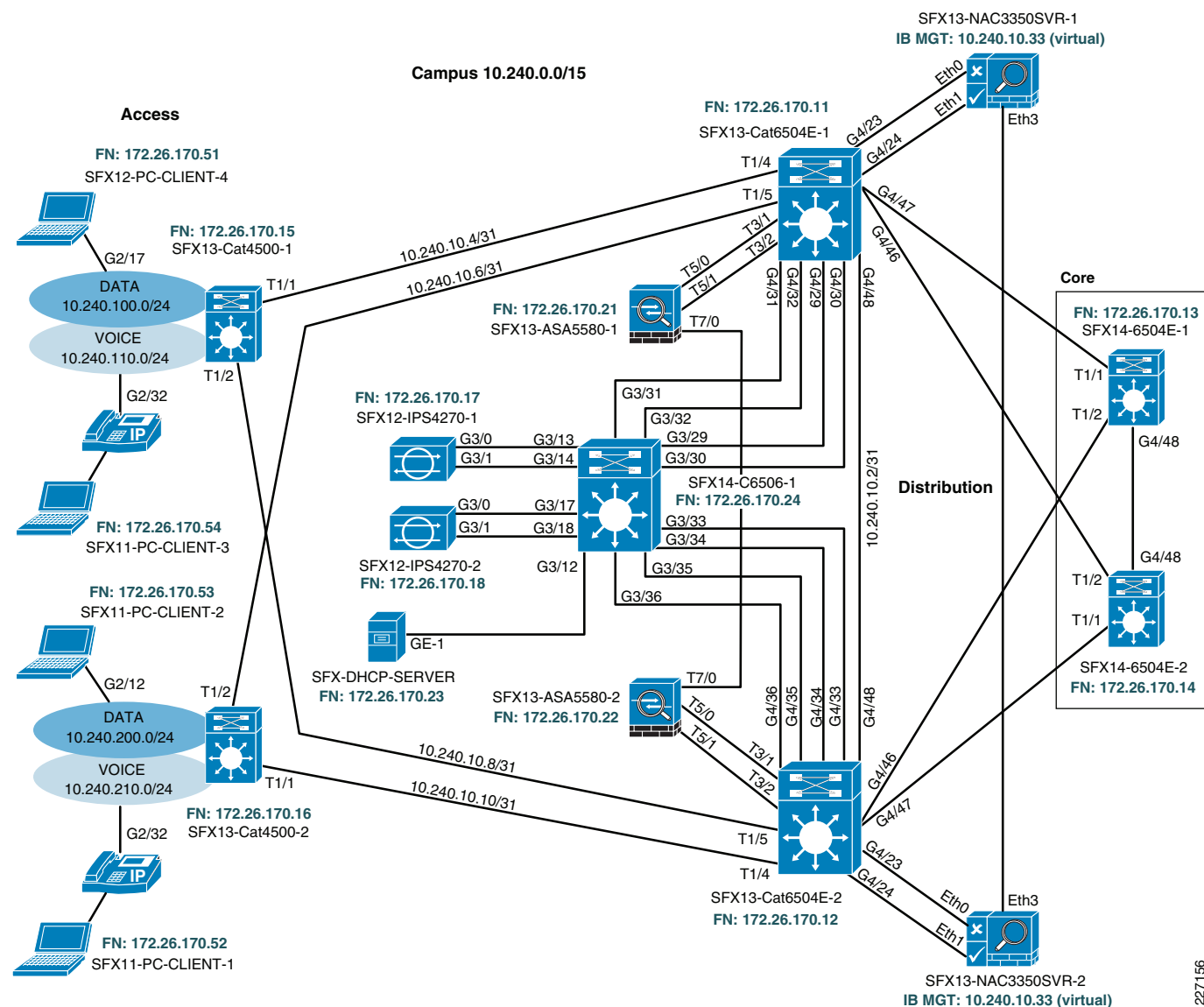
interface Vethernet19
    inherit port-profile vm180
boot kickstart bootflash:/nexus-1000v-kickstart-mz.4.0.1a.S1.0.149.bin sup-1
boot system bootflash:/nexus-1000v-mz.4.0.1a.S1.0.149.bin sup-1
boot kickstart bootflash:/nexus-1000v-kickstart-mz.4.0.1a.S1.0.149.bin sup-2
boot system bootflash:/nexus-1000v-mz.4.0.1a.S1.0.149.bin sup-2
monitor session 1 type erspan-source
    description - to SS1 NAM via VLAN 3000
    source interface Vethernet1 both
    source interface Vethernet8 both
    source interface Vethernet9 both
    source interface Vethernet10 both
    source interface Vethernet11 both
    source interface Vethernet12 both
    source interface Vethernet13 both
    destination ip 10.8.33.4
    erspan-id 1
    ip ttl 64
    ip prec 0
    ip dscp 0
    mtu 1500
    no shut
monitor session 2 type erspan-source
    description - to SS1 IDS1 via VLAN 3000
    source interface Vethernet1 both
    source interface Vethernet8 both
    source interface Vethernet9 both
    source interface Vethernet10 both
    source interface Vethernet11 both
    source interface Vethernet12 both
    source interface Vethernet13 both
    destination ip 10.8.33.4
    erspan-id 2
    ip ttl 64
    ip prec 0
    ip dscp 0
    mtu 1500
    no shut
svs-domain
    domain id 1
    control vlan 3002
    packet vlan 3003
svs connection VC
    protocol vmware-vim
    remote ip address x.26.146.133
    vmware dvs datacenter-name ESERTP
    connect

dcvsm#

```

Enterprise Campus

Figure 4 Enterprise Campus Network Diagram



227156

Core Switch—Catalyst 6500

See [Enterprise Core](#), page 8, for configurations.

Distribution Layer Switch – Catalyst 6500

```
Sfx13-Cat6504E-1
!
! Last configuration change at 20:15:03 GMT Wed Apr 1 2009 by danhamil-ops
! NVRAM config last updated at 20:22:35 GMT Wed Apr 1 2009 by danhamil-ops
!
```

```

upgrade fpd auto
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service counters max age 5
!
hostname SFX13-6504E-1
!
boot-start-marker
boot system flash sup-bootdisk:s72033-advipservicesk9_wan-mz.122-33.SXH4.bin
boot-end-marker
!
enable secret 5 <encrypted password>
!
username admin privilege 15 secret 5 <encrypted password>
aaa new-model
aaa group server tacacs+ tacacs-group
    server <tacacs+-server>
!
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable
aaa authorization exec author-exec-list group tacacs-group if-authenticated
aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group tacacs-group
aaa accounting commands 15 default start-stop group tacacs-group
aaa accounting system default start-stop group tacacs-group
!
aaa session-id common
clock timezone GMT 0
call-home
    alert-group configuration
    alert-group diagnostic
    alert-group environment
    alert-group inventory
    alert-group syslog
profile "CiscoTAC-1"
    no active
    no destination transport-method http
    destination transport-method email
    destination address email callhome@cisco.com
    destination address http https://tools.cisco.com/its/service/oddce/services/DDCEService
    subscribe-to-alert-group diagnostic severity minor
    subscribe-to-alert-group environment severity minor
    subscribe-to-alert-group syslog severity major pattern ".*"
    subscribe-to-alert-group configuration periodic monthly 23 11:17
    subscribe-to-alert-group inventory periodic monthly 23 11:02
ip subnet-zero
no ip source-route
!
!
!
ip ftp source-interface GigabitEthernet1/3
ip ftp username admin
ip ftp password 7 <encrypted password>
no ip bootp server
ip vrf access
    rd 13:1
    route-target export 13:1
    route-target import 13:1
!

```

```

ip ssh time-out 60
ip ssh authentication-retries 2
ip scp server enable
no ip domain-lookup
ip domain-name cisco.com
login block-for 100 attempts 5 within 50
login quiet-mode access-class 10
login on-failure log
!
!
mls ip slb purge global
mls netflow interface
mls flow ip interface-full
no mls flow ipv6
mls nde sender version 5
mls sampling packet-based 128 16000
mls qos
mls cef error action reset
!
flow-sampler-map csmars-sample
  mode random one-out-of 100
!
key chain eigrp-chain
  key 10
    key-string 7 <key>
!
!
!
!
!
!
!
!
!
memory reserve critical 1000
memory free low-watermark processor 91492
memory free low-watermark IO 6710
!
redundancy
  keepalive-enable
  mode sso
  main-cpu
    auto-sync running-config
spanning-tree mode pvst
spanning-tree extend system-id
diagnostic cns publish cisco.cns.device.diag_results
diagnostic cns subscribe cisco.cns.device.diag_commands
fabric timer 15
!
vlan internal allocation policy ascending
vlan access-log ratelimit 2000
!
class-map match-all coppclass-igp
  match access-group name coppacl-igp
class-map match-all coppclass-monitoring
  match access-group name coppacl-monitoring
class-map match-all coppclass-filemanagement
  match access-group name coppacl-filemanagement
class-map match-all coppclass-management
  match access-group name coppacl-management
!
!
policy-map copp-policy
  class coppclass-igp

```

```

        police cir 300000 bc 3000 be 3000    conform-action transmit    exceed-action drop
    violate-action drop
        class coppclass-filemanagement
        police cir 6000000 bc 60000 be 60000    conform-action transmit    exceed-action drop
    violate-action drop
        class coppclass-management
        police cir 500000 bc 5000 be 5000    conform-action transmit    exceed-action drop
    violate-action drop
        class coppclass-monitoring
        police cir 900000 bc 9000 be 9000    conform-action transmit    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 Port-channel1
    switchport
    switchport trunk encapsulation dot1q
    switchport trunk allowed vlan 12,13
    switchport mode trunk
    !
interface GigabitEthernet1/1
    no ip address
    !
interface GigabitEthernet1/2
    no ip address
    shutdown
    !
interface GigabitEthernet1/3
    description FLASH NET
    ip address <management IP> 255.255.254.0
    ip access-group 133 in
    ip access-group 134 out
    load-interval 60
    !
interface TenGigabitEthernet1/4
    description CAMPUS ACCESS SFX13-4500-1 Ten 1/1
    ip vrf forwarding access
    ip address 10.240.10.4 255.255.255.254
    ip hello-interval eigrp 1 1
    ip hold-time eigrp 1 3
    ip authentication mode eigrp 1 md5
    ip authentication key-chain eigrp 1 eigrp-chain
    ip policy route-map nac_redirect
    load-interval 60
    !
interface TenGigabitEthernet1/5
    description CAMPUS ACCESS SFX13-4500-2 Ten 1/2
    ip vrf forwarding access
    ip address 10.240.10.6 255.255.255.254
    ip hello-interval eigrp 1 1
    ip hold-time eigrp 1 3
    ip authentication mode eigrp 1 md5
    ip authentication key-chain eigrp 1 eigrp-chain
    ip policy route-map nac_redirect
    load-interval 60
    !
interface TenGigabitEthernet3/1
    description Connection to SFX13-ASA5580-1 T5/0

```

```

switchport
switchport access vlan 50
switchport mode access
load-interval 30
!
interface TenGigabitEthernet3/2
description Connection to SFX13-ASA5580-1 T5/1
switchport
switchport access vlan 16
switchport mode access
load-interval 30
!
interface TenGigabitEthernet3/3
no ip address
shutdown
!
interface TenGigabitEthernet3/4
no ip address
shutdown
!
interface TenGigabitEthernet3/5
no ip address
shutdown
!
interface TenGigabitEthernet3/6
no ip address
shutdown
!
interface TenGigabitEthernet3/7
no ip address
shutdown
!
interface TenGigabitEthernet3/8
no ip address
shutdown
!
interface TenGigabitEthernet3/9
no ip address
shutdown
!
interface TenGigabitEthernet3/10
no ip address
shutdown
!
interface TenGigabitEthernet3/11
no ip address
shutdown
!
interface TenGigabitEthernet3/12
no ip address
shutdown
!
interface TenGigabitEthernet3/13
no ip address
shutdown
!
interface TenGigabitEthernet3/14
no ip address
shutdown
!
interface TenGigabitEthernet3/15
no ip address
shutdown
!

```

```
interface TenGigabitEthernet3/16
  no ip address
  shutdown
!
interface GigabitEthernet4/1
  no ip address
  shutdown
!
interface GigabitEthernet4/2
  no ip address
  shutdown
!
interface GigabitEthernet4/3
  no ip address
  shutdown
!
interface GigabitEthernet4/4
  no ip address
  shutdown
!
interface GigabitEthernet4/5
  no ip address
  shutdown
!
interface GigabitEthernet4/6
  no ip address
  shutdown
!
interface GigabitEthernet4/7
  no ip address
  shutdown
!
interface GigabitEthernet4/8
  no ip address
  shutdown
!
interface GigabitEthernet4/9
  no ip address
  shutdown
!
interface GigabitEthernet4/10
  no ip address
  shutdown
!
interface GigabitEthernet4/11
  no ip address
  shutdown
!
interface GigabitEthernet4/12
  description IPS bypass
  switchport
  switchport access vlan 12
  switchport mode access
  shutdown
!
interface GigabitEthernet4/13
  description IPS bypass
  switchport
  switchport access vlan 13
  switchport mode access
  shutdown
!
interface GigabitEthernet4/14
  no ip address
```



```

shutdown
!
interface GigabitEthernet4/15
no ip address
shutdown
!
interface GigabitEthernet4/16
no ip address
shutdown
!
interface GigabitEthernet4/17
no ip address
shutdown
!
interface GigabitEthernet4/18
no ip address
shutdown
!
interface GigabitEthernet4/19
no ip address
shutdown
!
interface GigabitEthernet4/20
no ip address
shutdown
!
interface GigabitEthernet4/21
no ip address
shutdown
!
interface GigabitEthernet4/22
no ip address
shutdown
!
interface GigabitEthernet4/23
description description Connection to SFX13-CAS-1 Trusted port (eth0)
switchport
switchport access vlan 400
switchport mode access
!
interface GigabitEthernet4/24
description Connection to SFX13-CAS-1 untrusted port (eth1)
switchport
switchport access vlan 300
switchport mode access
!
interface GigabitEthernet4/25
no ip address
shutdown
!
interface GigabitEthernet4/26
no ip address
shutdown
!
interface GigabitEthernet4/27
no ip address
shutdown
!
interface GigabitEthernet4/28
no ip address
shutdown
!
interface GigabitEthernet4/29
description trunk to sfx14-c6506-1

```

```

switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 12,13
switchport mode trunk
channel-group 1 mode on
!
interface GigabitEthernet4/30
description trunk to sfx14-c6506-1
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 12,13
switchport mode trunk
channel-group 1 mode on
!
interface GigabitEthernet4/31
description trunk to sfx14-c6506-1
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 12,13
switchport mode trunk
channel-group 1 mode on
!
interface GigabitEthernet4/32
description trunk to sfx14-c6506-1
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 12,13
switchport mode trunk
channel-group 1 mode on
!
interface GigabitEthernet4/33
no ip address
shutdown
!
interface GigabitEthernet4/34
no ip address
shutdown
!
interface GigabitEthernet4/35
no ip address
shutdown
!
interface GigabitEthernet4/36
no ip address
shutdown
!
interface GigabitEthernet4/37
description Connection to sfx14-c6506-1 g3/37
switchport
switchport access vlan 50
switchport mode access
load-interval 30
!
interface GigabitEthernet4/38
no ip address
shutdown
!
interface GigabitEthernet4/39
no ip address
shutdown
!
interface GigabitEthernet4/40
no ip address
shutdown

```

```

!
interface GigabitEthernet4/41
  no ip address
  shutdown
!
interface GigabitEthernet4/42
  no ip address
  shutdown
!
interface GigabitEthernet4/43
  description connection to SFX-6504E-2 4/43 for CAS HA
  switchport
  switchport access vlan 300
  switchport mode access
!
interface GigabitEthernet4/44
  description RSPAN Connection to SFX13-6504E-2 port G4/44
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 500,501
  switchport mode trunk
  load-interval 60
!
interface GigabitEthernet4/45
  no ip address
!
interface GigabitEthernet4/46
  description SAFE CORE SFX14-6504E-2 Gig 4/46
  ip address 10.242.10.31 255.255.255.254
  ip flow ingress
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
  mls netflow sampling
  flow-sampler csmars-sample
!
interface GigabitEthernet4/47
  description SAFE CORE SFX14-6504E-1 Gig 4/47
  ip address 10.242.10.29 255.255.255.254
  ip flow ingress
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
  mls netflow sampling
  flow-sampler csmars-sample
!
interface GigabitEthernet4/48
  description trunk to SFX13-6504E-2 Gig 4/48
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 2,16,40,400
  switchport mode trunk
  load-interval 60
!
interface Vlan1
  no ip address
  shutdown
!
interface Vlan2
  description layer 3 connection to SFX13-6504E-2 Gig 4/48
  ip address 10.240.10.2 255.255.255.254
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60

```

```

!
interface Vlan12
  description Outside IPS
  mac-address 0000.0000.0012
  ip address 10.240.10.12 255.255.255.254
  ip flow ingress
  ip hello-interval eigrp 1 1
  ip hold-time eigrp 1 3
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  mls netflow sampling
  flow-sampler csmars-sample
!
interface Vlan13
  description Inside IPS
  mac-address 0000.0000.0013
  ip vrf forwarding access
  ip address 10.240.10.13 255.255.255.254
  ip hello-interval eigrp 1 1
  ip hold-time eigrp 1 3
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
!
interface Vlan16
  description Layer-3 connection to ASA Outside Interfaces
  ip address 10.240.10.17 255.255.255.248
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
!
interface Vlan40
  description trunk port to SFX13-6504E-1 for access VRF
  mac-address 0000.0000.0040
  ip vrf forwarding access
  ip address 10.240.10.40 255.255.255.254
!
interface Vlan300
  description Routing interface for NAC CAS untrusted VLAN interface
  mac-address 0000.0000.0300
  ip vrf forwarding access
  ip address 10.240.10.26 255.255.255.248
  standby 1 ip 10.240.10.25
  standby 1 priority 105
  standby 1 preempt
  standby 1 track TenGigabitEthernet1/4
  standby 1 track TenGigabitEthernet1/5
!
interface Vlan400
  description Routing interface for NAC CAS trusted VLAN interface
  ip address 10.240.10.34 255.255.255.248
!
router eigrp 1
  passive-interface Vlan300
  passive-interface Vlan400
  network 10.0.0.0
  auto-summary
!
  address-family ipv4 vrf access
    network 10.0.0.0
    auto-summary
    autonomous-system 1
  exit-address-family
!
ip classless
ip route 172.26.0.0 255.255.0.0 172.26.170.1

```

```

!
ip flow-export source GigabitEthernet1/3
ip flow-export version 5
ip flow-export destination <CS-MARS> 2055
!
no ip http server
no ip http secure-server
ip tacacs source-interface GigabitEthernet1/3
!
ip access-list extended coppacl-filemanagement
 remark CoPP File transfer traffic class
 permit tcp 172.26.0.0 0.0.255.255 eq ftp host <management IP> gt 1023 established
 permit tcp 172.26.0.0 0.0.255.255 eq ftp-data host <management IP> gt 1023
 permit tcp 172.26.0.0 0.0.255.255 gt 1023 host <management IP> gt 1023 established
 permit udp 172.26.0.0 0.0.255.255 gt 1023 host <management IP> gt 1023
ip access-list extended coppacl-igmp
 remark IGP traffic class
 permit eigrp any host 224.0.0.10
 permit eigrp 10.0.0.0 0.255.255.255 host <management IP>
ip access-list extended coppacl-management
 remark CoPP management traffic class
 permit tcp 172.26.0.0 0.0.255.255 eq tacacs host <management IP> established
 permit tcp 172.26.0.0 0.0.255.255 host <management IP> eq 22
 permit tcp 172.26.0.0 0.0.255.255 host <management IP> eq telnet
 permit udp 172.26.0.0 0.0.255.255 host <management IP> eq snmp
 permit udp 172.26.0.0 0.0.255.255 host <management IP> eq ntp
ip access-list extended coppacl-monitoring
 remark CoPP monitoring traffic class
 permit icmp any any ttl-exceeded
 permit icmp any any port-unreachable
 permit icmp any any echo-reply
 permit icmp any any echo
ip access-list extended nac_redirect_acl
 deny tcp 10.240.120.0 0.0.0.255 host 10.8.51.10 eq www
 deny tcp 10.240.220.0 0.0.0.255 host 10.8.51.10 eq www
 deny tcp 10.240.120.0 0.0.0.255 host 10.8.51.10 eq 443
 deny tcp 10.240.220.0 0.0.0.255 host 10.8.51.10 eq 443
 permit tcp 10.240.220.0 0.0.0.255 any eq www
 permit tcp 10.240.220.0 0.0.0.255 any eq 443
 permit tcp 10.240.120.0 0.0.0.255 any eq www
 permit tcp 10.240.120.0 0.0.0.255 any eq 443
!
logging trap critical
logging source-interface GigabitEthernet1/3
logging <CS-MARS>
access-list 10 permit 172.26.191.92
access-list 55 remark ACL for SNMP access to device
access-list 55 permit <CS-MARS>
access-list 55 deny any log
access-list 111 remark ACL for SSH
access-list 111 permit tcp 172.26.0.0 0.0.255.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host 172.26.191.92 any eq 22
access-list 112 permit tcp host <CS-MARS> any eq 22
access-list 112 deny ip any any log-input
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP> ttl-exceeded
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP> port-unreachable
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP> echo-reply
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP> echo
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq tacacs host <management IP>
established
access-list 133 permit tcp 172.26.0.0 0.0.255.255 host <management IP> eq tacacs
access-list 133 permit udp 172.26.0.0 0.0.255.255 host <management IP> eq ntp

```

```

access-list 133 permit tcp 172.26.0.0 0.0.255.255 host <management IP> eq 22
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp host <management IP> gt 1023
established
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp-data host <management IP> gt 1023
access-list 133 permit tcp 172.26.0.0 0.0.255.255 gt 1023 host <management IP> gt 1023
established
access-list 133 permit udp 172.26.0.0 0.0.255.255 gt 1023 host <management IP> gt 1023
access-list 133 permit udp host <CS-MARS> host <management IP> eq snmp
access-list 133 deny ip any any log
access-list 134 permit ip host <management IP> 172.26.0.0 0.0.255.255
access-list 134 deny ip any any log
!
route-map nac_redirect permit 10
match ip address nac_redirect_acl
set ip vrf access next-hop 10.240.10.30
!
snmp-server community csmars RO 55
snmp-server enable traps cpu threshold
snmp-server host <CS-MARS> csmars memory cpu
tacacs-server host <tacacs+-server> single-connection key 7 <secret-key>
tacacs-server directed-request
!
radius-server source-ports 1645-1646
!
control-plane
service-policy input copp-policy
!
!
dial-peer cor custom
!
!
!
banner login
UNAUTHORIZED ACCESS TO THIS DEVICE IS PROHIBITED
You must have explicit, authorized permission to access or configure this device.
Unauthorized attempts and actions to access or use this system may result in civil and/or
criminal penalties.
All activities performed on this device are logged and monitored.

!
line con 0
session-timeout 3
exec-timeout 3 0
login authentication authen-exec-list
line vty 0 3
session-timeout 3
access-class 111 in
exec-timeout 3 0
password 7 <encrypted password>
authorization commands 15 author-15-list
authorization exec author-exec-list
login authentication authen-exec-list
transport preferred none
transport input ssh
transport output none
line vty 4
session-timeout 3
access-class 112 in
exec-timeout 3 0
password 7 <encrypted password>
authorization commands 15 author-15-list
authorization exec author-exec-list
login authentication authen-exec-list
transport preferred none

```

```

transport input ssh
transport output none
line vty 5 15
  no exec
!
exception protocol ftp
exception dump <core-dump-host>
!
monitor session 1 source interface Tel/4 - 5
monitor session 1 destination interface Gi4/45
monitor session 2 destination interface Gi4/45
monitor session 2 source remote vlan 501
monitor session 3 source interface Tel/4 - 5
monitor session 3 destination remote vlan 500
process cpu threshold type total rising 80 interval 5 falling 20 interval 5
process cpu statistics limit entry-percentage 40 size 300
ntp authentication-key 10 md5 <encrypted password> 7
ntp authenticate
ntp trusted-key 10
ntp clock-period 17180041
ntp source GigabitEthernet1/3
ntp update-calendar
ntp server <server>
no event manager policy Mandatory.go_switchbus.tcl type system
!
end

Sfx13-Cat6504E-2
!
! Last configuration change at 15:38:25 GMT Tue Apr 28 2009 by mapuebla-ops
! NVRAM config last updated at 15:38:26 GMT Tue Apr 28 2009 by mapuebla-ops
!
upgrade fpd auto
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service counters max age 5
!
hostname SFX13-6504E-2
!
boot-start-marker
boot system flash sup-bootdisk:s72033-advipservicesk9_wan-mz.122-33.SXH4.bin
boot-end-marker
!
enable secret 5 <encrypted password>
!
username admin privilege 15 secret 5 <encrypted password>
aaa new-model
aaa group server tacacs+ tacacs-group
  server <tacacs+-server>
!
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable
aaa authorization exec author-exec-list group tacacs-group if-authenticated
aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group tacacs-group
aaa accounting commands 15 default start-stop group tacacs-group
aaa accounting system default start-stop group tacacs-group
!
aaa session-id common

```

```

clock timezone GMT 0
call-home
  alert-group configuration
  alert-group diagnostic
  alert-group environment
  alert-group inventory
  alert-group syslog
profile "CiscoTAC-1"
  no active
  no destination transport-method http
  destination transport-method email
  destination address email callhome@cisco.com
  destination address http https://tools.cisco.com/its/service/oddce/services/DDCEService
  subscribe-to-alert-group diagnostic severity minor
  subscribe-to-alert-group environment severity minor
  subscribe-to-alert-group syslog severity major pattern ".*"
  subscribe-to-alert-group configuration periodic monthly 8 16:30
  subscribe-to-alert-group inventory periodic monthly 8 16:15
ip subnet-zero
no ip source-route
!
!
!
ip ftp source-interface GigabitEthernet1/3
ip ftp username admin
ip ftp password 7 <encrypted password>
no ip bootp server
ip vrf access
  rd 15:1
  route-target export 15:1
  route-target import 15:1
!
ip vrf forwarding
!
ip ssh time-out 60
ip ssh authentication-retries 2
ip scp server enable
no ip domain-lookup
ip domain-name cisco.com
login block-for 100 attempts 5 within 50
login quiet-mode access-class 10
login on-failure log
!
!
mls ip slb purge global
mls netflow interface
mls flow ip interface-full
no mls flow ipv6
mls nde sender version 5
mls sampling packet-based 128 16000
mls qos
mls cef error action reset
!
flow-sampler-map csmars-sample
  mode random one-out-of 100
!
key chain eigrp-chain
  key 10
    key-string 7 <key>
!
!
!
!
!

```



```

!
!
!
!
memory reserve critical 1000
memory free low-watermark processor 91492
memory free low-watermark IO 6710
!
redundancy
  keepalive-enable
  mode sso
  main-cpu
    auto-sync running-config
spanning-tree mode pvst
spanning-tree extend system-id
diagnostic cns publish cisco.cns.device.diag_results
diagnostic cns subscribe cisco.cns.device.diag_commands
fabric timer 15
!
vlan internal allocation policy ascending
vlan access-log ratelimit 2000
!
class-map match-all coppclass-igp
  match access-group name coppacl-igp
class-map match-all coppclass-monitoring
  match access-group name coppacl-monitoring
class-map match-all coppclass-filemanagement
  match access-group name coppacl-filemanagement
class-map match-all coppclass-management
  match access-group name coppacl-management
!
!
policy-map copp-policy
  class coppclass-igp
    police cir 300000 bc 3000 be 3000    conform-action transmit    exceed-action drop
  violate-action drop
  class coppclass-filemanagement
    police cir 6000000 bc 60000 be 60000    conform-action transmit    exceed-action drop
  violate-action drop
  class coppclass-management
    police cir 500000 bc 5000 be 5000    conform-action transmit    exceed-action drop
  violate-action drop
  class coppclass-monitoring
    police cir 900000 bc 9000 be 9000    conform-action transmit    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 Port-channel2
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 14,15
  switchport mode trunk
!
interface GigabitEthernet1/1
  no ip address
!
interface GigabitEthernet1/2

```

```

no ip address
!
interface GigabitEthernet1/3
description FLASH NET
ip address <management IP> 255.255.254.0
ip access-group 133 in
ip access-group 134 out
load-interval 60
!
interface TenGigabitEthernet1/4
description CAMPUS ACCESS SFX13-4500-2 Ten 1/1
ip vrf forwarding access
ip address 10.240.10.10 255.255.255.254
ip hello-interval eigrp 1 1
ip hold-time eigrp 1 3
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
ip policy route-map nac_redirect
load-interval 60
!
interface TenGigabitEthernet1/5
description CAMPUS ACCESS SFX13-4500-1 Ten 1/2
ip vrf forwarding access
ip address 10.240.10.8 255.255.255.254
ip hello-interval eigrp 1 1
ip hold-time eigrp 1 3
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
ip policy route-map nac_redirect
load-interval 60
!
interface TenGigabitEthernet3/1
description connection to SFX13-ASA5580-2 T5/0
switchport
switchport access vlan 50
switchport mode access
load-interval 30
!
interface TenGigabitEthernet3/2
description connection to SFX13-ASA5580-2 T5/1
switchport
switchport access vlan 16
switchport mode access
load-interval 30
!
interface TenGigabitEthernet3/3
no ip address
shutdown
!
interface TenGigabitEthernet3/4
no ip address
shutdown
!
interface TenGigabitEthernet3/5
no ip address
shutdown
!
interface TenGigabitEthernet3/6
no ip address
shutdown
!
interface TenGigabitEthernet3/7
no ip address
shutdown

```

```

!
interface TenGigabitEthernet3/8
  no ip address
  shutdown
!
interface TenGigabitEthernet3/9
  no ip address
  shutdown
!
interface TenGigabitEthernet3/10
  no ip address
  shutdown
!
interface TenGigabitEthernet3/11
  no ip address
  shutdown
!
interface TenGigabitEthernet3/12
  no ip address
  shutdown
!
interface TenGigabitEthernet3/13
  no ip address
  shutdown
!
interface TenGigabitEthernet3/14
  no ip address
  shutdown
!
interface TenGigabitEthernet3/15
  no ip address
  shutdown
!
interface TenGigabitEthernet3/16
  no ip address
  shutdown
!
interface GigabitEthernet4/1
  no ip address
  shutdown
!
interface GigabitEthernet4/2
  no ip address
  shutdown
!
interface GigabitEthernet4/3
  no ip address
  shutdown
!
interface GigabitEthernet4/4
  no ip address
  shutdown
!
interface GigabitEthernet4/5
  no ip address
  shutdown
!
interface GigabitEthernet4/6
  no ip address
  shutdown
!
interface GigabitEthernet4/7
  no ip address
  shutdown

```

```
!  
interface GigabitEthernet4/8  
  no ip address  
  shutdown  
!  
interface GigabitEthernet4/9  
  no ip address  
  shutdown  
!  
interface GigabitEthernet4/10  
  no ip address  
  shutdown  
!  
interface GigabitEthernet4/11  
  no ip address  
  shutdown  
!  
interface GigabitEthernet4/12  
  no ip address  
  shutdown  
!  
interface GigabitEthernet4/13  
  no ip address  
  shutdown  
!  
interface GigabitEthernet4/14  
  description IPS bypass  
  switchport  
  switchport access vlan 14  
  switchport mode access  
  shutdown  
  no cdp enable  
!  
interface GigabitEthernet4/15  
  description IPS bypass  
  switchport  
  switchport access vlan 15  
  switchport mode access  
  shutdown  
  no cdp enable  
!  
interface GigabitEthernet4/16  
  no ip address  
  shutdown  
!  
interface GigabitEthernet4/17  
  no ip address  
  shutdown  
!  
interface GigabitEthernet4/18  
  no ip address  
  shutdown  
!  
interface GigabitEthernet4/19  
  no ip address  
  shutdown  
!  
interface GigabitEthernet4/20  
  no ip address  
  shutdown  
!  
interface GigabitEthernet4/21  
  no ip address  
  shutdown
```

```

!
interface GigabitEthernet4/22
  no ip address
  shutdown
!
interface GigabitEthernet4/23
  description Connection to SFX-CAS-2 Trusted port (eth0)
  switchport
  switchport access vlan 400
  switchport mode access
!
interface GigabitEthernet4/24
  description Connection to SFX13-CAS-2 untrusted port (eth1)
  switchport
  switchport access vlan 300
  switchport mode access
!
interface GigabitEthernet4/25
  no ip address
  shutdown
!
interface GigabitEthernet4/26
  no ip address
  shutdown
!
interface GigabitEthernet4/27
  no ip address
  shutdown
!
interface GigabitEthernet4/28
  no ip address
  shutdown
!
interface GigabitEthernet4/29
  no ip address
  shutdown
!
interface GigabitEthernet4/30
  no ip address
  shutdown
!
interface GigabitEthernet4/31
  no ip address
  shutdown
!
interface GigabitEthernet4/32
  no ip address
  shutdown
!
interface GigabitEthernet4/33
  description trunk to sfx14-c6506-1
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 14,15
  switchport mode trunk
  channel-group 2 mode on
!
interface GigabitEthernet4/34
  description trunk to sfx14-c6506-1
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 14,15
  switchport mode trunk
  channel-group 2 mode on

```

```

!
interface GigabitEthernet4/35
description trunk to sfx14-c6506-1
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 14,15
switchport mode trunk
channel-group 2 mode on
!
interface GigabitEthernet4/36
description trunk to sfx14-c6506-1
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 14,15
switchport mode trunk
channel-group 2 mode on
!
interface GigabitEthernet4/37
no ip address
shutdown
!
interface GigabitEthernet4/38
description connection to SFX14-C6506-1 G3/38
switchport
switchport access vlan 50
switchport mode access
load-interval 30
!
interface GigabitEthernet4/39
no ip address
shutdown
!
interface GigabitEthernet4/40
no ip address
shutdown
!
interface GigabitEthernet4/41
no ip address
shutdown
!
interface GigabitEthernet4/42
no ip address
shutdown
!
interface GigabitEthernet4/43
description connection to SFX-6504E-1 4/43 for CAS HA
switchport
switchport access vlan 300
switchport mode access
!
interface GigabitEthernet4/44
description RSPAN Connection to SFX13-6504E-1 port G4/44
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 500,501
switchport mode trunk
load-interval 60
!
interface GigabitEthernet4/45
no ip address
!
interface GigabitEthernet4/46
description SAFE CORE SFX14-6504E-1 Gig 4/46
ip address 10.242.10.33 255.255.255.254

```

```

ip flow ingress
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
load-interval 60
mls netflow sampling
flow-sampler csmars-sample
!
interface GigabitEthernet4/47
description SAFE CORE SFX14-6504E-2 Gig 4/47
ip address 10.242.10.35 255.255.255.254
ip flow ingress
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
load-interval 60
mls netflow sampling
flow-sampler csmars-sample
!
interface GigabitEthernet4/48
description trunk to SFX13-6504E-1 Gig 4/48
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 2,16,40,400
switchport mode trunk
load-interval 60
!
interface Vlan1
no ip address
shutdown
!
interface Vlan2
description Layer 3 link to SFX13-6504E-1
ip address 10.240.10.3 255.255.255.254
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
load-interval 60
!
interface Vlan12
no ip address
!
interface Vlan14
description Outside IPS
mac-address 0000.0000.0014
ip address 10.240.10.14 255.255.255.254
ip flow ingress
ip hello-interval eigrp 1 1
ip hold-time eigrp 1 3
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
mls netflow sampling
flow-sampler csmars-sample
!
interface Vlan15
description Inside IPS
mac-address 0000.0000.0015
ip vrf forwarding access
ip address 10.240.10.15 255.255.255.254
ip hello-interval eigrp 1 1
ip hold-time eigrp 1 3
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
!
interface Vlan16
description layer-3 Gateway for ASA outsided interface
ip address 10.240.10.18 255.255.255.248

```

```

ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
load-interval 60
!
interface Vlan40
description connection to SFX13-6504E-1 for trunking access VRF
ip vrf forwarding access
ip address 10.240.10.41 255.255.255.254
!
interface Vlan300
description Routing interface for NAC CAS untrusted VLAN interface
ip vrf forwarding access
ip address 10.240.10.27 255.255.255.248
standby 1 ip 10.240.10.25
standby 1 preempt
standby 1 track TenGigabitEthernet1/4
standby 1 track TenGigabitEthernet1/5
!
interface Vlan400
description Routing interface for NAC CAS trusted VLAN interface
ip address 10.240.10.35 255.255.255.248
!
router eigrp 1
passive-interface Vlan300
passive-interface Vlan400
network 10.0.0.0
auto-summary
!
address-family ipv4 vrf access
network 10.0.0.0
auto-summary
autonomous-system 1
exit-address-family
!
ip classless
ip route 172.26.0.0 255.255.0.0 172.26.170.1
!
ip flow-export source GigabitEthernet1/3
ip flow-export version 5
ip flow-export destination <CS-MARS> 2055
!
no ip http server
no ip http secure-server
ip tacacs source-interface GigabitEthernet1/3
!
ip access-list extended coppacl-filemanagement
remark CoPP File transfer traffic class
permit tcp 172.26.0.0 0.0.255.255 eq ftp host <management IP> gt 1023 established
permit tcp 172.26.0.0 0.0.255.255 eq ftp-data host <management IP> gt 1023
permit tcp 172.26.0.0 0.0.255.255 gt 1023 host <management IP> gt 1023 established
permit udp 172.26.0.0 0.0.255.255 gt 1023 host <management IP> gt 1023
ip access-list extended coppacl-igp
remark IGP traffic class
permit eigrp any host 224.0.0.10
permit eigrp 10.0.0.0 0.255.255.255 host <management IP>
ip access-list extended coppacl-management
remark CoPP management traffic class
permit tcp 172.26.0.0 0.0.255.255 eq tacacs host <management IP> established
permit tcp 172.26.0.0 0.0.255.255 host <management IP> eq 22
permit tcp 172.26.0.0 0.0.255.255 host <management IP> eq telnet
permit udp 172.26.0.0 0.0.255.255 host <management IP> eq snmp
permit udp 172.26.0.0 0.0.255.255 host <management IP> eq ntp
ip access-list extended coppacl-monitoring
remark CoPP monitoring traffic class

```



```

permit icmp any any ttl-exceeded
permit icmp any any port-unreachable
permit icmp any any echo-reply
permit icmp any any echo
ip access-list extended nac_redirect_acl
deny tcp 10.240.120.0 0.0.0.255 host 10.8.51.10 eq www
deny tcp 10.240.220.0 0.0.0.255 host 10.8.51.10 eq www
deny tcp 10.240.120.0 0.0.0.255 host 10.8.51.10 eq 443
deny tcp 10.240.220.0 0.0.0.255 host 10.8.51.10 eq 443
permit tcp 10.240.220.0 0.0.0.255 any eq www
permit tcp 10.240.220.0 0.0.0.255 any eq 443
permit tcp 10.240.120.0 0.0.0.255 any eq www
permit tcp 10.240.120.0 0.0.0.255 any eq 443
!
logging trap critical
logging source-interface GigabitEthernet1/3
logging <CS-MARS>
access-list 10 permit 172.26.191.92
access-list 55 remark ACL for SNMP access to device
access-list 55 permit <CS-MARS>
access-list 55 deny any log
access-list 111 remark ACL for SSH
access-list 111 permit tcp 172.26.0.0 0.0.255.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host 172.26.191.92 any eq 22
access-list 112 permit tcp host <CS-MARS> any eq 22
access-list 112 deny ip any any log-input
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP> ttl-exceeded
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP> port-unreachable
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP> echo-reply
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP> echo
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq tacacs host <management IP>
established
access-list 133 permit tcp 172.26.0.0 0.0.255.255 host <management IP> eq tacacs
access-list 133 permit udp 172.26.0.0 0.0.255.255 host <management IP> eq ntp
access-list 133 permit tcp 172.26.0.0 0.0.255.255 host <management IP> eq 22
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp host <management IP> gt 1023
established
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp-data host <management IP> gt 1023
access-list 133 permit tcp 172.26.0.0 0.0.255.255 gt 1023 host <management IP> gt 1023
established
access-list 133 permit udp 172.26.0.0 0.0.255.255 gt 1023 host <management IP> gt 1023
access-list 133 permit udp host <CS-MARS> host <management IP> eq snmp
access-list 133 deny ip any any log
access-list 134 permit ip host <management IP> 172.26.0.0 0.0.255.255
access-list 134 deny ip any any log
!
route-map nac_redirect permit 10
match ip address nac_redirect_acl
set ip vrf access next-hop 10.240.10.30
!
snmp-server community csmars RO 55
snmp-server enable traps cpu threshold
snmp-server host <tacacs+-server> public cpu
tacacs-server host <tacacs+-server> single-connection key 7 121A0C0411045D5679
tacacs-server directed-request
!
radius-server source-ports 1645-1646
!
control-plane
service-policy input copp-policy
!
!

```

```

dial-peer cor custom
!
!
!
banner login
UNAUTHORIZED ACCESS TO THIS DEVICE IS PROHIBITED
You must have explicit, authorized permission to access or configure this device.
Unauthorized attempts and actions to access or use this system may result in civil and/or
criminal penalties.
All activities performed on this device are logged and monitored.

!
line con 0
  session-timeout 3
  exec-timeout 3 0
  login authentication authen-exec-list
line vty 0 3
  session-timeout 3
  access-class 111 in
  exec-timeout 3 0
  password 7 <encrypted password>
  authorization commands 15 author-15-list
  authorization exec author-exec-list
  login authentication authen-exec-list
  transport preferred none
  transport input ssh
  transport output none
line vty 4
  session-timeout 3
  access-class 112 in
  exec-timeout 3 0
  password 7 <encrypted password>
  authorization commands 15 author-15-list
  authorization exec author-exec-list
  login authentication authen-exec-list
  transport preferred none
  transport input ssh
  transport output none
line vty 5 15
  no exec
!
exception protocol ftp
exception dump <core-dump-host>
!
monitor session 1 source interface Te1/4 - 5
monitor session 1 destination interface Gi4/45
monitor session 2 destination interface Gi4/45
monitor session 2 source remote vlan 500
monitor session 3 source interface Te1/4 - 5
monitor session 3 destination remote vlan 501
process cpu threshold type total rising 80 interval 5 falling 20 interval 5
process cpu statistics limit entry-percentage 40 size 300
ntp authentication-key 10 md5 <encrypted password> 7
ntp authenticate
ntp trusted-key 10
ntp clock-period 17179968
ntp source GigabitEthernet1/3
ntp update-calendar
ntp server <server>
no event manager policy Mandatory.go_switchbus.tcl type system
!
end

```

Services Block Switch – Catalyst 6500

```

Sfx14-C6506-1
!
! Last configuration change at 21:04:25 GMT Fri Mar 27 2009 by danhamil-ops
! NVRAM config last updated at 21:57:57 GMT Tue Feb 24 2009 by danhamil-ops
!
upgrade fpd auto
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service counters max age 5
!
hostname sfx14-c6506-1
!
boot-start-marker
boot system disk0:s72033-advipservicesk9_wan-mz.122-33.SXH4.bin
boot-end-marker
!
no logging console
enable secret 5 <encrypted password>
!
username admin privilege 15 secret 5 <encrypted password>
aaa new-model
aaa group server tacacs+ tacacs-group
    server <tacacs+ server>
!
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable
aaa authorization exec author-exec-list group tacacs-group if-authenticated
aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group tacacs-group
aaa accounting commands 15 default start-stop group tacacs-group
aaa accounting system default start-stop group tacacs-group
!
aaa session-id common
clock timezone GMT 0
call-home
    alert-group configuration
    alert-group diagnostic
    alert-group environment
    alert-group inventory
    alert-group syslog
profile "CiscoTAC-1"
    no active
    no destination transport-method http
    destination transport-method email
    destination address email callhome@cisco.com
    destination address http https://tools.cisco.com/its/service/oddce/services/DDCEService
    subscribe-to-alert-group diagnostic severity minor
    subscribe-to-alert-group environment severity minor
    subscribe-to-alert-group syslog severity major pattern ".*"
    subscribe-to-alert-group configuration periodic monthly 1 9:27
    subscribe-to-alert-group inventory periodic monthly 1 9:12
ip subnet-zero
no ip source-route
!
!
!

```

```

ip dhcp snooping
ip ftp username admin
ip ftp password 7 <encrypted password>
no ip bootp server
ip ssh time-out 60
ip ssh authentication-retries 2
ip scp server enable
ip domain-name cisco.com
login block-for 100 attempts 5 within 50
login quiet-mode access-class 10
login on-failure log
vtp domain Campus
vtp mode transparent
mls ip slb purge global
mls netflow interface
no mls flow ip
no mls flow ipv6
mls cef error action reset
!
!
!
!
!
!
!
!
memory reserve critical 1000
memory free low-watermark processor 37807
memory free low-watermark IO 6710
!
redundancy
  keepalive-enable
  mode sso
  main-cpu
  auto-sync running-config
spanning-tree mode pvst
diagnostic cns publish cisco.cns.device.diag_results
diagnostic cns subscribe cisco.cns.device.diag_commands
fabric timer 15
!
vlan internal allocation policy ascending
vlan access-log ratelimit 2000
!
vlan 2,12-16
!
vlan 50
  private-vlan primary
  private-vlan association 350,450
!
vlan 300
!
vlan 350
  private-vlan isolated
!
vlan 400
!
vlan 450
  private-vlan community
!
vlan 500
  remote-span
!
vlan 501

```

```

remote-span
!
!
!
!
!
interface Port-channel1
description trunk to SFX13-6504E-1
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 12,13
switchport mode trunk
!
interface Port-channel2
description trunk to SFX13-6504E-2
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 14,15
switchport mode trunk
!
interface Port-channel3
description VLAN12,VLAN13
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 12,13
switchport mode trunk
!
interface Port-channel4
description VLAN14,VLAN15
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 14,15
switchport mode trunk
!
interface GigabitEthernet2/1
no ip address
shutdown
!
interface GigabitEthernet2/2
no ip address
shutdown
!
interface GigabitEthernet2/3
no ip address
shutdown
!
interface GigabitEthernet2/4
no ip address
shutdown
!
interface GigabitEthernet2/5
no ip address
shutdown
!
interface GigabitEthernet2/6
no ip address
shutdown
!
interface GigabitEthernet2/7
no ip address
shutdown
!
interface GigabitEthernet2/8
no ip address

```

```
shutdown
!
interface GigabitEthernet2/9
no ip address
shutdown
!
interface GigabitEthernet2/10
no ip address
shutdown
!
interface GigabitEthernet2/11
no ip address
shutdown
!
interface GigabitEthernet2/12
no ip address
shutdown
!
interface GigabitEthernet2/13
no ip address
shutdown
!
interface GigabitEthernet2/14
no ip address
shutdown
!
interface GigabitEthernet2/15
no ip address
shutdown
!
interface GigabitEthernet2/16
no ip address
shutdown
!
interface GigabitEthernet3/1
no ip address
shutdown
!
interface GigabitEthernet3/2
no ip address
shutdown
!
interface GigabitEthernet3/3
no ip address
shutdown
!
interface GigabitEthernet3/4
no ip address
shutdown
!
interface GigabitEthernet3/5
no ip address
shutdown
!
interface GigabitEthernet3/6
no ip address
shutdown
!
interface GigabitEthernet3/7
no ip address
shutdown
!
interface GigabitEthernet3/8
no ip address
```

```

shutdown
!
interface GigabitEthernet3/9
no ip address
shutdown
!
interface GigabitEthernet3/10
switchport
switchport private-vlan host-association 50 450
switchport mode private-vlan host
!
interface GigabitEthernet3/11
switchport
switchport private-vlan host-association 50 450
switchport mode private-vlan host
!
interface GigabitEthernet3/12
switchport
switchport private-vlan host-association 50 350
switchport mode private-vlan host
switchport port-security
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
storm-control broadcast level 50.00
storm-control multicast level 50.00
storm-control unicast level 50.00
spanning-tree portfast
spanning-tree bpduguard enable
spanning-tree guard root
ip dhcp snooping limit rate 100
ip dhcp snooping trust
!
interface GigabitEthernet3/13
description VLAN12,VLAN13 SFX12-IPS4270-1
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 12,13
switchport mode trunk
load-interval 30
channel-group 3 mode on
!
interface GigabitEthernet3/14
description VLAN14,VLAN15 SFX12-IPS4270-1
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 14,15
switchport mode trunk
load-interval 30
channel-group 4 mode on
!
interface GigabitEthernet3/15
description SPAN 10 VLAN50 SFX12-IPS4270-1
switchport
switchport mode access
!
interface GigabitEthernet3/16
description VLAN15 SFX12-IPS4270-1
switchport
switchport mode access
shutdown
!
interface GigabitEthernet3/17
description VLAN12,VLAN13 SFX12-IPS4270-2

```

```

switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 12,13
switchport mode trunk
load-interval 30
channel-group 3 mode on
!
interface GigabitEthernet3/18
description VLAN14,VLAN15 SFX12-IPS4270-2
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 14,15
switchport mode trunk
load-interval 30
channel-group 4 mode on
!
interface GigabitEthernet3/19
description SPAN 10 VLAN50 SFX12-IPS4270-1
switchport
switchport mode access
!
interface GigabitEthernet3/20
description VLAN15 SFX12-IPS4270-2
switchport
switchport mode access
shutdown
!
interface GigabitEthernet3/21
no ip address
shutdown
!
interface GigabitEthernet3/22
no ip address
shutdown
!
interface GigabitEthernet3/23
no ip address
shutdown
!
interface GigabitEthernet3/24
no ip address
shutdown
!
interface GigabitEthernet3/25
no ip address
shutdown
!
interface GigabitEthernet3/26
no ip address
shutdown
!
interface GigabitEthernet3/27
no ip address
shutdown
!
interface GigabitEthernet3/28
no ip address
shutdown
!
interface GigabitEthernet3/29
description trunk to SFX13-6504E-1
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 12,13

```



```

switchport mode trunk
channel-group 1 mode on
!
interface GigabitEthernet3/30
description trunk to SFX13-6504E-1
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 12,13
switchport mode trunk
channel-group 1 mode on
!
interface GigabitEthernet3/31
description trunk to SFX13-6504E-1
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 12,13
switchport mode trunk
channel-group 1 mode on
!
interface GigabitEthernet3/32
description trunk to SFX13-6504E-1
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 12,13
switchport mode trunk
channel-group 1 mode on
!
interface GigabitEthernet3/33
description trunk to SFX13-6504E-2
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 14,15
switchport mode trunk
channel-group 2 mode on
!
interface GigabitEthernet3/34
description trunk to SFX13-6504E-2
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 14,15
switchport mode trunk
channel-group 2 mode on
!
interface GigabitEthernet3/35
description trunk to SFX13-6504E-2
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 14,15
switchport mode trunk
channel-group 2 mode on
!
interface GigabitEthernet3/36
description trunk to SFX13-6504E-2
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 14,15
switchport mode trunk
channel-group 2 mode on
!
interface GigabitEthernet3/37
switchport
switchport access vlan 50
switchport private-vlan mapping 50 350,450
switchport mode private-vlan promiscuous

```

```

!
interface GigabitEthernet3/38
  switchport
  switchport access vlan 50
  switchport private-vlan mapping 50 350,450
  switchport mode private-vlan promiscuous
!
interface GigabitEthernet3/39
  no ip address
  shutdown
!
interface GigabitEthernet3/40
  no ip address
  shutdown
!
interface GigabitEthernet3/41
  no ip address
  shutdown
!
interface GigabitEthernet3/42
  no ip address
  shutdown
!
interface GigabitEthernet3/43
  no ip address
  shutdown
!
interface GigabitEthernet3/44
  no ip address
  shutdown
!
interface GigabitEthernet3/45
  no ip address
  shutdown
!
interface GigabitEthernet3/46
  no ip address
  shutdown
!
interface GigabitEthernet3/47
  no ip address<management IP>
  shutdown
!
interface GigabitEthernet3/48
  description Connection to the FLASHNET
  ip address <management IP> 255.255.254.0
  ip access-group 133 in
  ip access-group 134 out
!
interface GigabitEthernet5/1
  no ip address
  shutdown
!
interface GigabitEthernet5/2
  no ip address
  shutdown
!
interface Vlan1
  no ip address
  shutdown
!
ip classless
ip route 172.26.0.0 255.255.0.0 172.26.170.1
!

```

```

!
no ip http server
no ip http secure-server
ip tacacs source-interface GigabitEthernet3/48
!
!
logging trap critical
logging source-interface GigabitEthernet3/48
logging <CS-MARS>
access-list 10 permit 172.26.191.92
access-list 111 remark ACL for SSH
access-list 111 permit tcp 172.26.0.0 0.0.255.255 any eq 22
access-list 111 deny ip any any log-input
access-list 111 permit ip any any log
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host 172.26.191.92 any eq 22
access-list 112 deny ip any any log-input
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP> ttl-exceeded
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP> port-unreachable
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP> echo-reply
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP> echo
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq tacacs host <management IP>
established
access-list 133 permit tcp 172.26.0.0 0.0.255.255 host <management IP> eq tacacs
access-list 133 permit udp 172.26.0.0 0.0.255.255 host <management IP> eq ntp
access-list 133 permit tcp 172.26.0.0 0.0.255.255 host <management IP> eq 22
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp host <management IP> gt 1023
established
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp-data host <management IP> gt 1023
access-list 133 permit tcp 172.26.0.0 0.0.255.255 gt 1023 host <management IP> gt 1023
es<tacacs+ server>ablished
access-list 133 permit udp 172.26.0.0 0.0.255.255 gt 1023 host <management IP> gt 1023
access-list 133 deny ip any any log
access-list 134 permit ip host <management IP> 172.26.0.0 0.0.255.255
access-list 134 deny ip any any log
!
snmp-server enable traps cpu threshold
snmp-server host <CS-MARS> public cpu
tacacs-server host <tacacs+ server> single-connection key 7 <key>
tacacs-server directed-request
!
radius-server source-ports 1645-1646
!
control-plane
!
!
dial-peer cor custom
!
!
!
banner login
UNAUTHORIZED ACCESS TO THIS DEVICE IS PROHIBITED
You must have explicit, authorized permission to access or configure this device.
Unauthorized attempts and actions to access or use this system may result in civil and/or
criminal penalties.
All activities performed on this device are logged and monitored.

!
line con 0
 session-timeout 3
 exec-timeout 3 0
 login authentication authen-exec-list
line vty 0 3
 session-timeout 3

```

```

access-class 111 in
exec-timeout 3 0
password 7 <encrypted password>
authorization commands 15 author-15-list
authorization exec author-exec-list
login authentication authen-exec-list
transport preferred none
transport input ssh
transport output none
line vty 4
session-timeout 3
access-class 112 in
exec-timeout 3 0
password 7 <encrypted password>
authorization commands 15 author-15-list
authorization exec author-exec-list
login authentication authen-exec-list
transport preferred none
transport input ssh
transport output none
line vty 5 15
no exec
!
exception protocol ftp
exception dump 172.26.129.252
!
monitor session 10 source vlan 50
monitor session 10 destination interface Gi3/15 , Gi3/19
process cpu threshold type total rising 80 interval 5 falling 20 interval 5
process cpu statistics limit entry-percentage 40 size 300
ntp authentication-key 10 md5 <key> 7
ntp authenticate
ntp trusted-key 10
ntp clock-period 17180159
ntp source GigabitEthernet3/48
ntp update-calendar
ntp server <ntp server>
!
end

```

Access Layer Switch—Catalyst 4500

```

Sfx13-4500-1
!
! Last configuration change at 19:24:10<CS-MARS> GMT Tue Apr 28 2009 by
danhamil-ops<management IP add>
! NVRAM config last updated at 19:31:44 GMT Tue Apr 28 2009 by danhamil-ops
!
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service compress-config
!
hostname SFX13-4500-1
!
boot-start-marker
boot-end-marker
!

```

```

no logging console
enable secret 5 <encrypted password>
!<tacacs+ server>
username admin privilege 15 secret 5 <encrypted password>
username csmars privilege 15 secret 5 <encrypted password>
aaa new-model
aaa group server tacacs+ tacacs-group
    server <tacacs+ server>
!
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable
aaa authorization exec author-exec-list group tacacs-group if-authenticated
aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group tacacs-group
aaa accounting commands 15 default start-stop group tacacs-group
aaa accounting system default start-stop group tacacs-group
!
aaa session-id common
clock timezone GMT 0
qos db1
qos map dscp 24 25 26 27 28 29 30 31 to tx-queue 4
qos map dscp 32 33 34 35 36 37 38 39 to tx-queue 4
qos map cos 5 to dscp 46
qos
storm-control broadcast include multicast
ip subnet-zero
no ip source-route
ip domain-name cisco.com
!
ip dhcp snooping vlan 100,110,120
no ip dhcp snooping information option
ip dhcp snooping
ip ftp username admin
ip ftp password 7 <encrypted password>
no ip bootp server
ip ssh time-out 60
ip ssh authentication-retries 2
ip scp server enable
ip arp inspection vlan 100,110,120
login block-for 100 attempts 5 within 50
login quiet-mode access-class 10
login on-failure log
vtp mode transparent
!
!
key chain eigrp-chain
    key 10
        key-string 7 <key>
!
!
!
!
macro global description system-cpp
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause arp-inspection
errdisable recovery interval 120
power redundancy-mode redundant
memory reserve critical 1000
memory free low-watermark processor 50008
no file verify auto
!
spanning-tree mode rapid-pvst
spanning-tree extend system-id

```

```

!
vlan internal allocation policy ascending
!
vlan 100,110,120,700
!
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 system-cpp-garp-range
  match access-group name system-cpp-garp-range
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-dot1x
  match access-group name system-cpp-dot1x
class-map match-all system-cpp-dhcp-ss
  match access-group name system-cpp-dhcp-ss
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 system-cpp-igmp
  match access-group name system-cpp-igmp
class-map match-all system-cpp-ip-mcast-linklocal
  match access-group name system-cpp-ip-mcast-linklocal
class-map match-all system-cpp-cgmp
  match access-group name system-cpp-cgmp
!
!
policy-map autoqos-voip-policy
  class class-default
    dbl
policy-map system-cpp-policy
  class system-cpp-dot1x
  class system-cpp-bpdu-range
  class system-cpp-cdp
  class system-cpp-garp-range
  class system-cpp-sstp
  class system-cpp-cgmp
  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
!
!
interface Loopback1
  description management loopback
  ip address 10.240.11.1 255.255.255.255

```

```

!
interface TenGigabitEthernet1/1
  description CAMPUS SFX13-6504E-1    Ten 1/4
  no switchport
  ip address 10.240.10.5 255.255.255.254
  ip hello-interval eigrp 1 1
  ip hold-time eigrp 1 3
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
!
interface TenGigabitEthernet1/2
  description CAMPUS SFX13-6504E-2    Ten 1/5
  no switchport
  ip address 10.240.10.9 255.255.255.254
  ip hello-interval eigrp 1 1
  ip hold-time eigrp 1 3
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
!
interface GigabitEthernet1/3
  switchport access vlan 700
  switchport mode access
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  shutdown
  snmp trap mac-notification change added
  storm-control broadcast level 10.00
  storm-control action trap
  spanning-tree portfast
  spanning-tree bpduguard enable
  ip verify source vlan dhcp-snooping
  ip dhcp snooping limit rate 15
!
interface GigabitEthernet1/4
  switchport access vlan 700
  switchport mode access
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  shutdown
  snmp trap mac-notification change added
  storm-control broadcast level 10.00
  storm-control action trap
  spanning-tree portfast
  spanning-tree bpduguard enable
  ip verify source vlan dhcp-snooping
  ip dhcp snooping limit rate 15
!
interface GigabitEthernet1/5
  switchport access vlan 700
  switchport mode access
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2
  switchport port-security violation restrict

```

```

switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet1/6
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/1
description FLASH NET
no switchport
ip address <management IP add> 255.255.254.0
ip access-group 133 in
ip access-group 134 out
load-interval 60
!
interface GigabitEthernet2/2
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/3
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100

```



```

shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/4
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/5
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/6
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/7

```

```

switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/8
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/9
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/10
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone

```

```

qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/11
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/12
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33

```

```

spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/13
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/14
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/15
switchport access vlan 120
switchport mode access
switchport voice vlan 110

```

```

switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/16
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/17
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone

```

```

auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/18
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/19
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy

```

```

ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/20
  switchport access vlan 120
  switchport mode access
  switchport voice vlan 110
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  qos trust device cisco-phone
  qos trust cos
  snmp trap mac-notification change added
  macro description cisco-phone
  auto qos voip cisco-phone
  storm-control broadcast level 10.00
  storm-control action trap
  tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
  spanning-tree portfast
  spanning-tree bpduguard enable
  service-policy output autoqos-voip-policy
  ip verify source vlan dhcp-snooping
  ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/21
  switchport access vlan 100
  switchport mode access
  switchport voice vlan 110
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  qos trust device cisco-phone
  qos trust cos
  snmp trap mac-notification change added
  macro description cisco-phone
  auto qos voip cisco-phone
  storm-control broadcast level 10.00
  storm-control action trap
  tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
  spanning-tree portfast
  spanning-tree bpduguard enable
  spanning-tree guard root
  service-policy output autoqos-voip-policy
  ip verify source vlan dhcp-snooping
  ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/22
  switchport access vlan 120
  switchport mode access
  switchport voice vlan 110
  switchport port-security
  switchport port-security maximum 3

```

```

switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/23
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/24
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00

```



```

storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/25
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/26
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15

```

```

!
interface GigabitEthernet2/27
  switchport access vlan 120
  switchport mode access
  switchport voice vlan 110
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  qos trust device cisco-phone
  qos trust cos
  snmp trap mac-notification change added
  macro description cisco-phone
  auto qos voip cisco-phone
  storm-control broadcast level 10.00
  storm-control action trap
  tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
  spanning-tree portfast
  spanning-tree bpduguard enable
  service-policy output autoqos-voip-policy
  ip verify source vlan dhcp-snooping
  ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/28
  switchport access vlan 120
  switchport mode access
  switchport voice vlan 110
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  qos trust device cisco-phone
  qos trust cos
  snmp trap mac-notification change added
  macro description cisco-phone
  auto qos voip cisco-phone
  storm-control broadcast level 10.00
  storm-control action trap
  tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
  spanning-tree portfast
  spanning-tree bpduguard enable
  service-policy output autoqos-voip-policy
  ip verify source vlan dhcp-snooping
  ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/29
  switchport access vlan 120
  switchport mode access
  switchport voice vlan 110
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2
  switchport port-security violation restrict
  switchport port-security aging type inactivity

```

```

ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/30
    switchport access vlan 120
    switchport mode access
    switchport voice vlan 110
    switchport port-security
    switchport port-security maximum 3
    switchport port-security aging time 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    qos trust device cisco-phone
    qos trust cos
    snmp trap mac-notification change added
    macro description cisco-phone
    auto qos voip cisco-phone
    storm-control broadcast level 10.00
    storm-control action trap
    tx-queue 3
        bandwidth percent 33
        priority high
        shape percent 33
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy output autoqos-voip-policy
    ip verify source vlan dhcp-snooping
    ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/31
    switchport access vlan 120
    switchport mode access
    switchport voice vlan 110
    switchport port-security
    switchport port-security maximum 3
    switchport port-security aging time 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    qos trust device cisco-phone
    qos trust cos
    snmp trap mac-notification change added
    macro description cisco-phone
    auto qos voip cisco-phone
    storm-control broadcast level 10.00
    storm-control action trap
    tx-queue 3
        bandwidth percent 33

```

```

        priority high
        shape percent 33
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy output autoqos-voip-policy
    ip verify source vlan dhcp-snooping
    ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/32
    switchport access vlan 120
    switchport mode access
    switchport voice vlan 110
    switchport port-security
    switchport port-security maximum 3
    switchport port-security aging time 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    qos trust device cisco-phone
    qos trust cos
    snmp trap mac-notification change added
    macro description cisco-phone | cisco-phone
    auto qos voip cisco-phone
    storm-control broadcast level 10.00
    storm-control action trap
    tx-queue 3
        bandwidth percent 33
        priority high
        shape percent 33
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy output autoqos-voip-policy
    ip verify source vlan dhcp-snooping
    ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/33
    switchport access vlan 120
    switchport mode access
    switchport voice vlan 110
    switchport port-security
    switchport port-security maximum 3
    switchport port-security aging time 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    qos trust device cisco-phone
    qos trust cos
    snmp trap mac-notification change added
    macro description cisco-phone
    auto qos voip cisco-phone
    storm-control broadcast level 10.00
    storm-control action trap
    tx-queue 3
        bandwidth percent 33
        priority high
        shape percent 33
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy output autoqos-voip-policy
    ip verify source vlan dhcp-snooping
    ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/34
    switchport access vlan 120

```

```

switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/35
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/36
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos

```

```

snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/37
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/38
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast

```

```

spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/39
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/40
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/41
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security

```

```

switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/42
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/43
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone

```



```

storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/44
    switchport access vlan 120
    switchport mode access
    switchport voice vlan 110
    switchport port-security
    switchport port-security maximum 3
    switchport port-security aging time 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    qos trust device cisco-phone
    qos trust cos
    snmp trap mac-notification change added
    macro description cisco-phone
    auto qos voip cisco-phone
    storm-control broadcast level 10.00
    storm-control action trap
    tx-queue 3
        bandwidth percent 33
        priority high
        shape percent 33
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy output autoqos-voip-policy
    ip verify source vlan dhcp-snooping
    ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/45
    switchport access vlan 120
    switchport mode access
    switchport voice vlan 110
    switchport port-security
    switchport port-security maximum 3
    switchport port-security aging time 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    qos trust device cisco-phone
    qos trust cos
    snmp trap mac-notification change added
    macro description cisco-phone
    auto qos voip cisco-phone
    storm-control broadcast level 10.00
    storm-control action trap
    tx-queue 3
        bandwidth percent 33
        priority high
        shape percent 33
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy output autoqos-voip-policy
    ip verify source vlan dhcp-snooping

```

```

ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/46
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/47
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/48
switchport access vlan 120
switchport mode access
switchport voice vlan 110
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict

```

```

switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface Vlan1
    no ip address
!
interface Vlan100
    description VLAN 100 DATA
    ip address 10.240.100.1 255.255.255.0
    ip access-group block_nac_login_on_access in
    ip helper-address 10.240.50.100
    no ip redirects
    no ip proxy-arp
!
interface Vlan110
    description VLAN 110 Voice
    ip address 10.240.110.1 255.255.255.0
    ip access-group iACL_voice in
    ip helper-address 10.240.50.100
    no ip redirects
    no ip proxy-arp
!
interface Vlan120
    description VLAN 120 AUTH VLAN
    ip address 10.240.120.1 255.255.255.0
    ip access-group nac_auth_acl in
    ip helper-address 10.240.50.100
!
router eigrp 1
    passive-interface default
    no passive-interface TenGigabitEthernet1/1
    no passive-interface TenGigabitEthernet1/2
    no passive-interface GigabitEthernet2/6
    network 10.0.0.0
    auto-summary
    eigrp stub connected static
!
ip route 172.26.0.0 255.255.0.0 172.26.170.1
ip http server
no ip http secure-server
!
!
ip tacacs source-interface GigabitEthernet2/1
!
ip access-list standard snmp-access
    permit 172.26.191.111
    permit 172.26.191.110
    permit 172.26.191.112

```

```

permit 10.240.10.36
permit 10.240.10.37
permit 10.240.10.38
!
ip access-list extended block_nac_login_on_access
deny ip any 172.26.0.0 0.0.255.255
deny udp 10.240.100.0 0.0.0.255 host 10.240.10.30 eq 8906
permit ip any any
ip access-list extended iACL_voice
deny ip any 172.26.0.0 0.0.255.255
permit ip any any
ip access-list extended nac_auth_acl
deny ip any 172.26.0.0 0.0.255.255
permit tcp 10.240.120.0 0.0.0.255 any eq www
permit tcp 10.240.120.0 0.0.0.255 any eq 443
permit udp 10.240.120.0 0.0.0.255 host 10.240.10.30 eq 8906
permit udp any host 255.255.255.255 eq bootps
permit udp 10.240.120.0 0.0.0.255 host 10.240.50.100 eq bootps
permit udp 10.240.120.0 0.0.0.255 host 10.244.30.10 eq domain
permit udp 10.240.120.0 0.0.0.255 host 64.102.6.247 eq domain
!
logging trap debugging
logging source-interface GigabitEthernet2/1
logging <CS-MARS>
access-list 10 permit 172.26.191.92
access-list 111 remark ACL for SSH
access-list 111 permit tcp 172.26.0.0 0.0.255.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host 172.26.191.92 any eq 22
access-list 112 deny ip any any log-input
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP add> ttl-exceeded
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP add>
port-unreachable
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP add> echo-reply
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP add> echo
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq tacacs host <management IP add>
established
access-list 133 permit tcp 172.26.0.0 0.0.255.255 host <management IP add> eq tacacs
access-list 133 permit udp 172.26.0.0 0.0.255.255 host <management IP add> eq ntp
access-list 133 permit tcp 172.26.0.0 0.0.255.255 host <management IP add> eq 22
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp host <management IP add> gt 1023
established
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp-data host <management IP add> gt
1023
access-list 133 permit tcp 172.26.0.0 0.0.255.255 gt 1023 host <management IP add> gt 1023
established
access-list 133 permit udp 172.26.0.0 0.0.255.255 gt 1023 host <management IP add> gt 1023
access-list 133 permit udp host 172.26.191.110 host <management IP add> eq snmp
access-list 133 permit udp host 172.26.191.111 host <management IP add> eq snmp
access-list 133 permit udp host 172.26.191.112 host <management IP add> eq snmp
access-list 133 permit udp host <CS-MARS> host <management IP add> eq snmp
access-list 133 deny ip any any log
access-list 134 permit ip host <management IP add> 172.26.0.0 0.0.255.255
access-list 144 permit ip any any log
!
arp access-list staticIP
permit ip host 10.240.100.1 mac host 0022.90e0.b67f
permit ip host 10.240.110.1 mac host 0022.90e0.b67f
permit ip host 10.240.120.1 mac host 0022.90e0.b67f
!
!
snmp-server community c4500_read RO snmp-access
snmp-server community c4500_write RW snmp-access

```

```

snmp-server location RTP-NOC
snmp-server contact Joe Noc 555-1212 jnoc@cisco.com
snmp-server enable traps snmp linkdown linkup
snmp-server enable traps cpu threshold
snmp-server enable traps port-security trap-rate 5
snmp-server enable traps mac-notification change move threshold
snmp-server host 10.240.10.36 version 2c c4500_read
snmp-server host 10.240.10.37 version 2c c4500_read
snmp-server host 172.26.191.110 version 2c cam_v2 mac-notification snmp
snmp-server host <CS-MARS> csmars cpu
tacacs-server host <tacacs+ server> single-connection key 7 <key>
tacacs-server directed-request
radius-server source-ports 1645-1646
!
control-plane
!
banner login
UNAUTHORIZED ACCESS TO THIS DEVICE IS PROHIBITED
You must have explicit, authorized permission to access or configure this device.
Unauthorized attempts and actions to access or use this system may result in civil and/or
criminal penalties.
All activities performed on this device are logged and monitored.

!
line con 0
 session-timeout 3
 exec-timeout 3 0
 login authentication authen-exec-list
 stopbits 1
line vty 0 3
 session-timeout 3
 access-class 111 in
 exec-timeout 3 0
 password 7 <encrypted password>
 authorization commands 15 author-15-list
 authorization exec author-exec-list
 login authentication authen-exec-list
 length 0
 transport preferred none
 transport input ssh
 transport output none
line vty 4
 session-timeout 3
 access-class 112 in
 exec-timeout 3 0
 password 7 <encrypted password>
 authorization commands 15 author-15-list
 authorization exec author-exec-list
 login authentication authen-exec-list
 transport preferred none
 transport input ssh
 transport output none
!
process cpu threshold type total rising 80 interval 5 falling 20 interval 5
process cpu statistics limit entry-percentage 40 size 300
mac-address-table notification change interval 0
mac-address-table notification change
mac-address-table aging-time 3600
ntp authentication-key 10 md5 <key> 7
ntp authenticate
ntp trusted-key 10
ntp clock-period 17180886
ntp source GigabitEthernet2/1
ntp update-calendar

```

```

ntp server <ntp server>
end

Sfx13-4500-2
!
! Last configura<management IP add>tion change at 20:06:09 GMT Tue Apr 28 2009 by
mapuebla-ops
! NVRAM config last upd<CS-MARS>ated at 19:42:54 GMT Tue Apr 28 2009 by danhamil-ops
!
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service compress-config
!
hostname SFX13-4500-2
!
boot-start-marker
boot system flash bootdisk:cat4500-entservicesk9-mz.122-31.SGA8.bin
boot system flash bootdisk:cat4500-ipbasek9-mz.122-31.SGA7.bin
boot-end-marker
!
enable secret 5 <encrypted password>
!
username admin privilege 15 secret 5 <encrypted password>
username csmars privilege 15 secret 5 <encrypted password>
aaa new-model
aaa group server tacacs+ tacacs-group
server <tacacs+ server>
!
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable
aaa authorization console
aaa authorization exec author-exec-list group tacacs-group if-authenticated
aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group tacacs-group
aaa accounting commands 15 default start-stop group tacacs-group
aaa accounting system default start-stop group tacacs-group
!
aaa session-id common
clock timezone GMT 0
qos db1
qos map dscp 24 25 26 27 28 29 30 31 to tx-queue 4
qos map dscp 32 33 34 35 36 37 38 39 to tx-queue 4
qos map cos 5 to dscp 46
qos
storm-control broadcast include multicast
ip subnet-zero
no ip source-route
ip domain-name cisco.com
!
ip dhcp snooping vlan 200,210,220
no ip dhcp snooping information option
ip dhcp snooping
ip ftp username admin
ip ftp password 7 <encrypted password>
no ip bootp server
ip ssh time-out 60
ip ssh authentication-retries 2
ip scp server enable
ip arp inspection vlan 200,210,220

```

```

login block-for 100 attempts 5 within 50
login quiet-mode access-class 10
login on-failure log
vtp mode transparent
!
!
key chain eigrp-chain
  key 10
    key-string 7 <key>
!
!
!
!
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause arp-inspection
errdisable recovery interval 120
power redundancy-mode redundant
memory free low-watermark processor 50008
no file verify auto
!
spanning-tree mode rapid-pvst
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 200,210,220,700
!
policy-map autoqos-voip-policy
  class class-default
    dbl
!
!
interface Loopback1
  ip address 10.240.11.2 255.255.255.255
!
interface TenGigabitEthernet1/1
  description CAMPUS DIST SFX13-6504E-2  ten 1/4
  no switchport
  ip address 10.240.10.11 255.255.255.254
  ip hello-interval eigrp 1 1
  ip hold-time eigrp 1 3
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
!
interface TenGigabitEthernet1/2
  description CAMPUS DIST SFX13-6504E-1  ten 1/5
  no switchport
  ip address 10.240.10.7 255.255.255.254
  ip hello-interval eigrp 1 1
  ip hold-time eigrp 1 3
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
  load-interval 60
!
interface GigabitEthernet1/3
  switchport access vlan 700
  switchport mode access
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100

```

```

shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet1/4
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet1/5
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet1/6
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/1

```



```

description FLASH NET
no switchport
ip address <management IP add> 255.255.254.0
ip access-group 133 in
ip access-group 134 out
load-interval 60
!
interface GigabitEthernet2/2
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/3
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/4
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/5
switchport access vlan 700
switchport mode access

```

```

switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/6
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/7
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/8
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap

```

```

spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/9
switchport access vlan 700
switchport mode access
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
shutdown
snmp trap mac-notification change added
storm-control broadcast level 10.00
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/10
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone | cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/11
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone | cisco-phone

```

```

auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/12
    switchport access vlan 220
    switchport mode access
    switchport voice vlan 210
    switchport port-security
    switchport port-security maximum 3
    switchport port-security aging time 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    qos trust device cisco-phone
    qos trust cos
    snmp trap mac-notification change added
    macro description cisco-phone | cisco-phone
    auto qos voip cisco-phone
    storm-control broadcast level 10.00
    storm-control action trap
    tx-queue 3
        bandwidth percent 33
        priority high
        shape percent 33
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy output autoqos-voip-policy
    ip verify source vlan dhcp-snooping
    ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/13
    switchport access vlan 220
    switchport mode access
    switchport voice vlan 210
    switchport port-security
    switchport port-security maximum 3
    switchport port-security aging time 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    qos trust device cisco-phone
    qos trust cos
    snmp trap mac-notification change added
    macro description cisco-phone
    auto qos voip cisco-phone
    storm-control broadcast level 10.00
    storm-control action trap
    tx-queue 3
        bandwidth percent 33
        priority high
        shape percent 33
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy output autoqos-voip-policy

```

```

ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/14
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/15
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/16
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2

```

```

switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/17
switchport access vlan 200
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone | cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
spanning-tree guard root
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/18
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00

```

```

storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/19
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/20
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15

```

```

!
interface GigabitEthernet2/21
  switchport access vlan 220
  switchport mode access
  switchport voice vlan 210
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  qos trust device cisco-phone
  qos trust cos
  snmp trap mac-notification change added
  macro description cisco-phone
  auto qos voip cisco-phone
  storm-control broadcast level 10.00
  storm-control action trap
  tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
  spanning-tree portfast
  spanning-tree bpduguard enable
  service-policy output autoqos-voip-policy
  ip verify source vlan dhcp-snooping
  ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/22
  switchport access vlan 220
  switchport mode access
  switchport voice vlan 210
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  qos trust device cisco-phone
  qos trust cos
  snmp trap mac-notification change added
  macro description cisco-phone
  auto qos voip cisco-phone
  storm-control broadcast level 10.00
  storm-control action trap
  tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
  spanning-tree portfast
  spanning-tree bpduguard enable
  service-policy output autoqos-voip-policy
  ip verify source vlan dhcp-snooping
  ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/23
  switchport access vlan 220
  switchport mode access
  switchport voice vlan 210
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2
  switchport port-security violation restrict
  switchport port-security aging type inactivity

```



```

ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/24
    switchport access vlan 220
    switchport mode access
    switchport voice vlan 210
    switchport port-security
    switchport port-security maximum 3
    switchport port-security aging time 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    qos trust device cisco-phone
    qos trust cos
    snmp trap mac-notification change added
    macro description cisco-phone
    auto qos voip cisco-phone
    storm-control broadcast level 10.00
    storm-control action trap
    tx-queue 3
        bandwidth percent 33
        priority high
        shape percent 33
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy output autoqos-voip-policy
    ip verify source vlan dhcp-snooping
    ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/25
    switchport access vlan 220
    switchport mode access
    switchport voice vlan 210
    switchport port-security
    switchport port-security maximum 3
    switchport port-security aging time 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    qos trust device cisco-phone
    qos trust cos
    snmp trap mac-notification change added
    macro description cisco-phone
    auto qos voip cisco-phone
    storm-control broadcast level 10.00
    storm-control action trap
    tx-queue 3
        bandwidth percent 33

```

```

        priority high
        shape percent 33
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy output autoqos-voip-policy
    ip verify source vlan dhcp-snooping
    ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/26
    switchport access vlan 220
    switchport mode access
    switchport voice vlan 210
    switchport port-security
    switchport port-security maximum 3
    switchport port-security aging time 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    qos trust device cisco-phone
    qos trust cos
    snmp trap mac-notification change added
    macro description cisco-phone
    auto qos voip cisco-phone
    storm-control broadcast level 10.00
    storm-control action trap
    tx-queue 3
        bandwidth percent 33
        priority high
        shape percent 33
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy output autoqos-voip-policy
    ip verify source vlan dhcp-snooping
    ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/27
    switchport access vlan 220
    switchport mode access
    switchport voice vlan 210
    switchport port-security
    switchport port-security maximum 3
    switchport port-security aging time 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    qos trust device cisco-phone
    qos trust cos
    snmp trap mac-notification change added
    macro description cisco-phone
    auto qos voip cisco-phone
    storm-control broadcast level 10.00
    storm-control action trap
    tx-queue 3
        bandwidth percent 33
        priority high
        shape percent 33
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy output autoqos-voip-policy
    ip verify source vlan dhcp-snooping
    ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/28
    switchport access vlan 220

```

```

switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/29
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/30
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos

```

```

snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/31
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/32
switchport access vlan 200
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone | cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast

```

```

spanning-tree bpduguard enable
spanning-tree guard root
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/33
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/34
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/35
switchport access vlan 220
switchport mode access
switchport voice vlan 210

```

```

switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/36
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/37
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone

```

```

auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/38
    switchport access vlan 220
    switchport mode access
    switchport voice vlan 210
    switchport port-security
    switchport port-security maximum 3
    switchport port-security aging time 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    qos trust device cisco-phone
    qos trust cos
    snmp trap mac-notification change added
    macro description cisco-phone
    auto qos voip cisco-phone
    storm-control broadcast level 10.00
    storm-control action trap
    tx-queue 3
        bandwidth percent 33
        priority high
        shape percent 33
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy output autoqos-voip-policy
    ip verify source vlan dhcp-snooping
    ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/39
    switchport access vlan 220
    switchport mode access
    switchport voice vlan 210
    switchport port-security
    switchport port-security maximum 3
    switchport port-security aging time 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    qos trust device cisco-phone
    qos trust cos
    snmp trap mac-notification change added
    macro description cisco-phone
    auto qos voip cisco-phone
    storm-control broadcast level 10.00
    storm-control action trap
    tx-queue 3
        bandwidth percent 33
        priority high
        shape percent 33
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy output autoqos-voip-policy

```

```

ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/40
  switchport access vlan 220
  switchport mode access
  switchport voice vlan 210
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  qos trust device cisco-phone
  qos trust cos
  snmp trap mac-notification change added
  macro description cisco-phone
  auto qos voip cisco-phone
  storm-control broadcast level 10.00
  storm-control action trap
  tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
  spanning-tree portfast
  spanning-tree bpduguard enable
  service-policy output autoqos-voip-policy
  ip verify source vlan dhcp-snooping
  ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/41
  switchport access vlan 220
  switchport mode access
  switchport voice vlan 210
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  qos trust device cisco-phone
  qos trust cos
  snmp trap mac-notification change added
  macro description cisco-phone
  auto qos voip cisco-phone
  storm-control broadcast level 10.00
  storm-control action trap
  tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
  spanning-tree portfast
  spanning-tree bpduguard enable
  service-policy output autoqos-voip-policy
  ip verify source vlan dhcp-snooping
  ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/42
  switchport access vlan 220
  switchport mode access
  switchport voice vlan 210
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2

```



```

switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/43
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap
tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/44
switchport access vlan 220
switchport mode access
switchport voice vlan 210
switchport port-security
switchport port-security maximum 3
switchport port-security aging time 2
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
qos trust device cisco-phone
qos trust cos
snmp trap mac-notification change added
macro description cisco-phone
auto qos voip cisco-phone
storm-control broadcast level 10.00
storm-control action trap

```

```

tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
spanning-tree portfast
spanning-tree bpduguard enable
service-policy output autoqos-voip-policy
ip verify source vlan dhcp-snooping
ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/45
    switchport access vlan 220
    switchport mode access
    switchport voice vlan 210
    switchport port-security
    switchport port-security maximum 3
    switchport port-security aging time 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    qos trust device cisco-phone
    qos trust cos
    snmp trap mac-notification change added
    macro description cisco-phone
    auto qos voip cisco-phone
    storm-control broadcast level 10.00
    storm-control action trap
    tx-queue 3
        bandwidth percent 33
        priority high
        shape percent 33
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy output autoqos-voip-policy
    ip verify source vlan dhcp-snooping
    ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/46
    switchport access vlan 220
    switchport mode access
    switchport voice vlan 210
    switchport port-security
    switchport port-security maximum 3
    switchport port-security aging time 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    ip arp inspection limit rate 100
    qos trust device cisco-phone
    qos trust cos
    snmp trap mac-notification change added
    macro description cisco-phone
    auto qos voip cisco-phone
    storm-control broadcast level 10.00
    storm-control action trap
    tx-queue 3
        bandwidth percent 33
        priority high
        shape percent 33
    spanning-tree portfast
    spanning-tree bpduguard enable
    service-policy output autoqos-voip-policy
    ip verify source vlan dhcp-snooping
    ip dhcp snooping limit rate 15
!

```

```

interface GigabitEthernet2/47
  switchport access vlan 220
  switchport mode access
  switchport voice vlan 210
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  qos trust device cisco-phone
  qos trust cos
  snmp trap mac-notification change added
  macro description cisco-phone
  auto qos voip cisco-phone
  storm-control broadcast level 10.00
  storm-control action trap
  tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
  spanning-tree portfast
  spanning-tree bpduguard enable
  service-policy output autoqos-voip-policy
  ip verify source vlan dhcp-snooping
  ip dhcp snooping limit rate 15
!
interface GigabitEthernet2/48
  switchport access vlan 220
  switchport mode access
  switchport voice vlan 210
  switchport port-security
  switchport port-security maximum 3
  switchport port-security aging time 2
  switchport port-security violation restrict
  switchport port-security aging type inactivity
  ip arp inspection limit rate 100
  qos trust device cisco-phone
  qos trust cos
  snmp trap mac-notification change added
  macro description cisco-phone
  auto qos voip cisco-phone
  storm-control broadcast level 10.00
  storm-control action trap
  tx-queue 3
    bandwidth percent 33
    priority high
    shape percent 33
  spanning-tree portfast
  spanning-tree bpduguard enable
  service-policy output autoqos-voip-policy
  ip verify source vlan dhcp-snooping
  ip dhcp snooping limit rate 15
!
interface Vlan1
  no ip address
!
interface Vlan200
  description VLAN 200 DATA
  ip address 10.240.200.1 255.255.255.0
  ip access-group block_nac_login_on_access in
  ip helper-address 10.240.50.100
  no ip redirects
  no ip proxy-arp

```

```

!
interface Vlan210
  description VLAN 210 VOICE
  ip address 10.240.210.1 255.255.255.0
  ip access-group iACL_voice in
  ip helper-address 10.240.50.100
  no ip redirects
  no ip proxy-arp
!
interface Vlan220
  description VLAN 220 AUTH VLAN
  ip address 10.240.220.1 255.255.255.0
  ip access-group nac_auth_acl in
  ip helper-address 10.240.50.100
!
router eigrp 1
  passive-interface default
  no passive-interface TenGigabitEthernet1/1
  no passive-interface TenGigabitEthernet1/2
  network 10.0.0.0
  auto-summary
  eigrp stub connected static
!
ip route 172.26.0.0 255.255.0.0 172.26.170.1
ip http server
no ip http secure-server
!
!
ip tacacs source-interface GigabitEthernet2/1
!
ip access-list standard snmp-access
  permit 172.26.191.111
  permit 172.26.191.110
  permit 172.26.191.112
  permit 10.240.10.36
  permit 10.240.10.37
  permit 10.240.10.38
!
ip access-list extended block_nac_login_on_access
  deny ip any 172.26.0.0 0.0.255.255
  deny udp 10.240.200.0 0.0.0.255 host 10.240.10.30 eq 8906
  permit ip any any
ip access-list extended iACL_voice
  deny ip any 172.26.0.0 0.0.255.255
  permit ip any any
ip access-list extended match_acl
  permit tcp 10.240.220.0 0.0.0.255 any eq www
  permit tcp 10.240.220.0 0.0.0.255 any eq 443
ip access-list extended nac_auth_acl
  deny ip any 172.26.0.0 0.0.255.255
  permit tcp 10.240.220.0 0.0.0.255 any eq www
  permit tcp 10.240.220.0 0.0.0.255 any eq 443
  permit udp 10.240.220.0 0.0.0.255 host 10.240.10.30 eq 8906
  permit udp any host 255.255.255.255 eq bootps
  permit udp 10.240.220.0 0.0.0.255 host 10.240.50.100 eq bootps
  permit udp 10.240.220.0 0.0.0.255 host 10.244.30.10 eq domain
  permit udp 10.240.220.0 0.0.0.255 host 64.102.6.247 eq domain
!
logging trap debugging
logging source-interface GigabitEthernet2/1
logging <CS-MARS>
access-list 10 permit 172.26.191.92
access-list 111 remark ACL for SSH
access-list 111 permit tcp 172.26.0.0 0.0.255.255 any eq 22

```

```

access-list 111 deny ip any any log-input
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host 172.26.191.92 any eq 22
access-list 112 deny ip any any log-input
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP add> ttl-exceeded
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP add>
port-unreachable
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP add> echo-reply
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host <management IP add> echo
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq tacacs host <management IP add>
established
access-list 133 permit tcp 172.26.0.0 0.0.255.255 host <management IP add> eq tacacs
access-list 133 permit udp 172.26.0.0 0.0.255.255 host <management IP add> eq ntp
access-list 133 permit tcp 172.26.0.0 0.0.255.255 host <management IP add> eq 22
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp host <management IP add> gt 1023
established
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp-data host <management IP add> gt
1023
access-list 133 permit tcp 172.26.0.0 0.0.255.255 gt 1023 host <management IP add> gt 1023
established
access-list 133 permit udp 172.26.0.0 0.0.255.255 gt 1023 host <management IP add> gt 1023
access-list 133 permit udp host 172.26.191.110 host <management IP add> eq snmp
access-list 133 permit udp host 172.26.191.111 host <management IP add> eq snmp
access-list 133 permit udp host 172.26.191.112 host <management IP add> eq snmp
access-list 133 permit udp host <CS-MARS> host <management IP add> eq snmp
access-list 133 deny ip any any log
access-list 134 permit ip host <management IP add> 172.26.0.0 0.0.255.255
!
arp access-list staticIP
permit ip host 10.240.200.1 mac host 0022.90e0.b5ff
permit ip host 10.240.210.1 mac host 0022.90e0.b5ff
permit ip host 10.240.220.1 mac host 0022.90e0.b5ff
!
route-map redirect_to_cas permit 10
match ip address match_acl
set ip next-hop 10.240.10.30
!
!
snmp-server community c4500_read RO snmp-access
snmp-server community c4500_write RW snmp-access
snmp-server location RTP-NOC
snmp-server contact Joe Noc 555-1212 jnoc@cisco.com
snmp-server enable traps snmp linkdown linkup
snmp-server enable traps cpu threshold
snmp-server enable traps port-security trap-rate 5
snmp-server enable traps mac-notification change move threshold
snmp-server host 10.240.10.36 version 2c c4500_read
snmp-server host 10.240.10.37 version 2c c4500_read
snmp-server host 172.26.191.110 version 2c cam_v2 mac-notification snmp
snmp-server host <CS-MARS> csmars
tacacs-server host <tacacs+ server> single-connection key 7 <key>
no tacacs-server directed-request
radius-server source-ports 1645-1646
!
control-plane
!
banner login
UNAUTHORIZED ACCESS TO THIS DEVICE IS PROHIBITED
You must have explicit, authorized permission to access or configure this device.
Unauthorized attempts and actions to access or use this system may result in civil and/or
criminal penalties.
All activities performed on this device are logged and monitored.
!

```

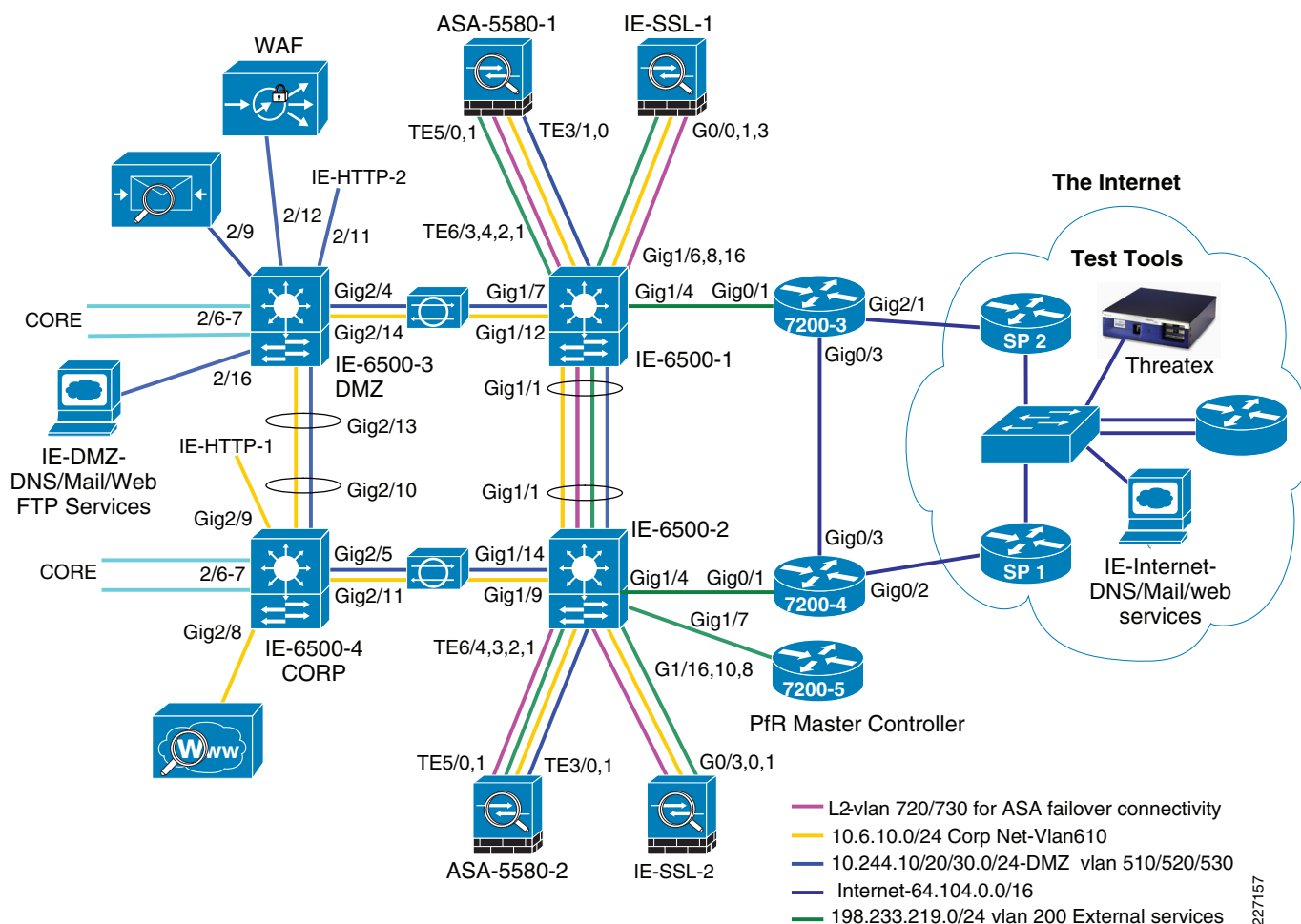
```

line con 0
  session-timeout 3
  exec-timeout 3 0
  login authentication authen-exec-list
  stopbits 1
line vty 0 3
  session-timeout 3
  access-class 111 in
  exec-timeout 3 0
  password 7 <encrypted password>
  authorization commands 15 author-15-list
  authorization exec author-exec-list
  login authentication authen-exec-list
  length 0
  transport preferred none
  transport input ssh
  transport output none
line vty 4
  session-timeout 3
  access-class 112 in
  exec-timeout 3 0
  password 7 <encrypted password>
  authorization commands 15 author-15-list
  authorization exec author-exec-list
  login authentication authen-exec-list
  transport preferred none
  transport input ssh
  transport output none
!
process cpu threshold type total rising 80 interval 5 falling 20 interval 5
process cpu statistics limit entry-percentage 40 size 300
mac-address-table notification change interval 0
mac-address-table notification change
mac-address-table aging-time 3600
ntp authentication-key 10 md5 <key> 7
ntp authenticate
ntp trusted-key 10
ntp clock-period 17181107
ntp source GigabitEthernet2/1
ntp update-calendar
ntp server <ntp server>
end

```

Enterprise Internet Edge

Figure 5 Enterprise Internet Edge Network Diagram



Outer Switches Catalyst 6500

```

ie-6500-1
Current configuration : 11176 bytes
!
! Last configuration change at 09:42:41 EST Thu Apr 16 2009 by admin
! NVRAM config last updated at 09:33:06 EST Thu Apr 16 2009 by admin
!
upgrade fpd auto
version 12.2
service timestamps debug uptime
service timestamps log uptime
service password-encryption
service counters max age 10
!
hostname IE-6500-1
!
boot-start-marker

```

```

boot system flash disk0:s72033-adventerprisek9_wan-mz.122-33.SXH4
boot system flash bootflash:s72033-ps-mz.122-18.SXD7.bin
boot-end-marker
!
enable secret 5 <encrypted password>
!
username csmars privilege 15 secret 5 <encrypted password>
aaa new-model
aaa group server tacacs+ tacacs-group
  server 10.242.51.94
!
aaa authentication login no-auth none
aaa authentication login admin group adminAAAGroup local-case
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable
aaa authorization exec admin group adminAAAGroup if-authenticated
aaa authorization exec author-exec-list group tacacs-group if-authenticated
aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group tacacs-group
aaa accounting exec admin start-stop group adminAAAGroup
aaa accounting commands 15 default start-stop group tacacs-group
aaa accounting system default start-stop group tacacs-group
!
aaa session-id common
clock timezone EST -5
call-home
  alert-group configuration
  alert-group diagnostic
  alert-group environment
  alert-group inventory
  alert-group syslog
profile "CiscoTAC-1"
  no active
  no destination transport-method http
  destination transport-method email
  destination address email callhome@cisco.com
  destination address http https://tools.cisco.com/its/service/oddce/services/D
DCEService
  subscribe-to-alert-group diagnostic severity minor
  subscribe-to-alert-group environment severity minor
  subscribe-to-alert-group syslog severity major pattern ".*"
  subscribe-to-alert-group configuration periodic monthly 10 10:40
  subscribe-to-alert-group inventory periodic monthly 10 10:25
ip subnet-zero
no ip source-route
!
!
!
ip ftp username anadimi
ip ftp password 7 <encrypted password>
no ip bootp server
ip domain-name cisco.com
mls ip slb purge global
mls netflow interface
no mls flow ip
no mls flow ipv6
mls qos
mls cef error action freeze
!
!
!
!
!

```



```

!
!
!
!
memory reserve critical 1000
memory free low-watermark processor 98831
!
redundancy
  keepalive-enable
  mode sso
  main-cpu
  auto-sync running-config
!
spanning-tree mode rapid-pvst
no spanning-tree optimize bpdu transmission
spanning-tree extend system-id
spanning-tree vlan 520 priority 24576
spanning-tree vlan 530 priority 4096
spanning-tree vlan 610 priority 12288
diagnostic cns publish cisco.cns.device.diag_results
diagnostic cns subscribe cisco.cns.device.diag_commands
!
power redundancy-mode combined
fabric timer 15
!
vlan internal allocation policy ascending
vlan access-log ratelimit 2000
!
class-map match-all coppclass-igp
  match access-group name coppacl-igp
class-map match-all coppclass-monitoring
  match access-group name coppacl-monitor
class-map match-all coppclass-filemanagement
  match access-group name coppacl-filemanagement
class-map match-all coppclass-management
  match access-group name coppacl-management
!
!
policy-map copp-policy
  class coppclass-filemanagement
    police 6000000 60000 60000    conform-action transmit    exceed-action drop
    violate-action drop
  class coppclass-management
    police 500000 5000 5000    conform-action transmit    exceed-action drop
    violate-action drop
  class coppclass-monitoring
    police 900000 9000 9000    conform-action transmit    exceed-action drop
    violate-action drop
  class class-default
    police 500000 5000 5000    conform-action transmit    exceed-action drop
    violate-action drop
!
!
!
!
!
!
interface Tunnel0
  no ip address
!
interface GigabitEthernet1/1
  description Trunk to IE-6500-2  Ge1/1
  switchport
  switchport trunk encapsulation dot1q

```

```

switchport trunk allowed vlan 200,210,520,530,610,720,730
switchport mode trunk
!
interface GigabitEthernet1/2
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 610
switchport mode trunk
!
interface GigabitEthernet1/3
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 510,520,530
switchport mode trunk
shutdown
!
interface GigabitEthernet1/4
switchport
switchport access vlan 200
switchport mode access
!
interface GigabitEthernet1/5
no ip address
!
interface GigabitEthernet1/6
description link to IE-SSL-1 gi0/0
switchport
switchport access vlan 200
!
interface GigabitEthernet1/7
switchport
switchport access vlan 22
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 510,520,530
switchport mode trunk
!
interface GigabitEthernet1/8
switchport
switchport access vlan 610
switchport mode access
!
interface GigabitEthernet1/9
switchport
switchport access vlan 610
!
interface GigabitEthernet1/10
no ip address
!
interface GigabitEthernet1/11
switchport
switchport access vlan 200
switchport mode access
!
interface GigabitEthernet1/12
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 610
switchport mode trunk
!
interface GigabitEthernet1/13
switchport
switchport access vlan 510
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 510,520,530

```

```

switchport mode trunk
shutdown
!
interface GigabitEthernet1/14
switchport
switchport access vlan 610
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 610
switchport mode trunk
shutdown
!
interface GigabitEthernet1/15
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 200,220
switchport mode trunk
shutdown
!
interface GigabitEthernet1/16
switchport
switchport access vlan 720
!
interface GigabitEthernet5/1
no ip address
shutdown
!
interface GigabitEthernet5/2
ip address 10.242.51.75 255.255.255.0
ip access-group 133 in
ip access-group 134 out
media-type rj45
speed 100
duplex full
!
interface TenGigabitEthernet6/1
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 510,520,530
switchport mode trunk
!
interface TenGigabitEthernet6/2
switchport
switchport access vlan 610
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 610
switchport mode trunk
!
interface TenGigabitEthernet6/3
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 200
switchport mode trunk
!
interface TenGigabitEthernet6/4
switchport
switchport access vlan 730
switchport mode access
!
interface Vlan1
no ip address
shutdown
!
interface Vlan10
no ip address

```

```

shutdown
!
interface Vlan210
 ip address 11.1.1.1 255.255.255.0
 shutdown
 standby ip 11.1.1.3
 standby preempt
!
interface Vlan510
 no ip address
!
interface Vlan520
 no ip address
!
interface Vlan530
 no ip address
!
interface Vlan610
 no ip address
!
interface Group-Async11
 physical-layer async
 no ip address
 encapsulation slip
!
ip classless
ip route 0.0.0.0 0.0.0.0 10.242.51.1

no ip http server
no ip http secure-server
ip tacacs source-interface GigabitEthernet5/2
!
ip access-list extended coppacl-filemanagement
 permit tcp 10.242.0.0 0.0.255.255 eq ftp host 10.242.51.75 gt 1023 established
 permit tcp 10.242.0.0 0.0.255.255 eq ftp-data host 10.242.51.75 established
 permit tcp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.75 gt 1023 established
 permit tcp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.75 gt 1023
ip access-list extended coppacl-igp
 remark IGP traffic class
 permit eigrp any host 224.0.0.10
 permit eigrp 10.0.0.0 0.255.255.255 host 172.26.191.75
ip access-list extended coppacl-management
 remark CoPP management traffic class
 permit tcp 10.242.0.0 0.0.255.255 eq tacacs host 10.242.51.75 established
 permit tcp 10.242.0.0 0.0.255.255 host 10.242.51.75 eq 22
 permit tcp 10.242.0.0 0.0.255.255 host 10.242.51.75 eq telnet
ip access-list extended coppacl-monitoring
 remark CoPP monitoring traffic class
 permit icmp any any ttl-exceeded
 permit icmp any any port-unreachable
 permit icmp any any echo-reply
 permit icmp any any echo
!
logging trap critical
access-list 10 permit 10.242.51.92
access-list 55 remark ACL for SNMP access to device
access-list 55 permit 10.242.51.99
access-list 55 deny any log
access-list 111 remark ACL for SSH
access-list 111 permit tcp 10.242.0.0 0.0.255.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host 10.242.51.92 any eq 22
access-list 133 permit icmp 10.242.0.0 0.0.255.255 host 10.242.51.75 ttl-exceede

```

```

d
access-list 133 permit icmp 10.242.0.0 0.0.255.255 host 10.242.51.75 port-unreac
hable
access-list 133 permit icmp 10.242.0.0 0.0.255.255 host 10.242.51.75 echo-reply
access-list 133 permit icmp 10.242.0.0 0.0.255.255 host 10.242.51.75 echo
access-list 133 permit tcp 10.242.0.0 0.0.255.255 host 10.242.51.75 eq tacacs
access-list 133 permit udp 10.242.0.0 0.0.255.255 host 10.242.51.75 eq ntp
access-list 133 permit tcp 10.242.0.0 0.0.255.255 host 10.242.51.75 eq 22
access-list 133 permit tcp 10.242.0.0 0.0.255.255 eq ftp host 10.242.51.75
access-list 133 permit tcp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.75
access-list 133 permit udp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.75
access-list 133 permit tcp 10.242.0.0 0.0.255.255 eq tacacs host 10.242.51.75 gt
1023 established
access-list 133 permit tcp 10.242.0.0 0.0.255.255 eq ftp host 10.242.51.75 gt 10
23 established
access-list 133 permit udp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.75 gt 1
023
access-list 133 permit tcp 10.242.0.0 0.0.255.255 eq ftp-data host 10.242.51.75
gt 1023
access-list 133 deny ip any any log
access-list 134 permit ip host 10.242.51.75 10.242.0.0 0.0.255.255
access-list 134 deny ip any any log
no cdp run
!
snmp-server community csmars RO 55
snmp-server enable traps cpu threshold
snmp-server host 10.242.51.99 csmars
snmp-server host 10.242.51.99 public cpu
tacacs-server host 10.242.51.94
tacacs-server directed-request
tacacs-server key 7 01100F175804
!
radius-server source-ports 1645-1646
!
control-plane
service-policy input copp-policy
!
!
dial-peer cor custom
!
!
!
!
line con 0
session-timeout 3
exec-timeout 0 0
login authentication authen-exec-list
line vty 0 3
session-timeout 3
access-class 111 in
password 7 <encrypted password>
authorization commands 15 author-15-list
authorization exec author-exec-list
login authentication authen-exec-list
transport preferred ssh
transport input ssh
transport output none
line vty 4
session-timeout 3
access-class 112 in
password 7 <encrypted password>
authorization commands 15 author-15-list
authorization exec author-exec-list
login authentication authen-exec-list

```

```

transport preferred none
transport output none
line vty 5 15
no exec
!
exception protocol ftp
exception dump 172.26.129.252
ntp authentication-key 10 md5 <encrypted password>
ntp trusted-key 10
ntp clock-period 17179860
ntp source GigabitEthernet5/2
ntp server 10.242.51.45
!
end

ie-6500-2
upgrade fpd auto
version 12.2
service timestamps debug uptime
service timestamps log uptime
service password-encryption
service counters max age 10
!
hostname IE-6500-2
!
boot-start-marker
boot-end-marker
!
enable secret 5 <encrypted password>
!
username csmars privilege 15 secret 5<encrypted password>
aaa new-model
aaa group server tacacs+ tacacs-group
server 10.242.51.94
!
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable
aaa authorization exec author-exec-list group tacacs-group if-authenticated
aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting exec default start-stop group tacacs-group
aaa accounting commands 15 default start-stop group tacacs-group
aaa accounting system default start-stop group tacacs-group
!
aaa session-id common
call-home
alert-group configuration
alert-group diagnostic
alert-group environment
alert-group inventory
alert-group syslog
profile "CiscoTAC-1"
no active
no destination transport-method http
destination transport-method email
destination address email callhome@cisco.com
destination address http https://tools.cisco.com/its/service/oddce/services/D
DCEService
subscribe-to-alert-group diagnostic severity minor
subscribe-to-alert-group environment severity minor
subscribe-to-alert-group syslog severity major pattern ".*"
subscribe-to-alert-group configuration periodic monthly 4 12:34
subscribe-to-alert-group inventory periodic monthly 4 12:19
ip subnet-zero
!

```

```

!
!
ip domain-name cisco.com
ipv6 mfib hardware-switching replication-mode ingress
vtp mode transparent
mls ip slb purge global
no mls acl tcam share-global
mls netflow interface
no mls flow ip
no mls flow ipv6
mls cef error action freeze
!
!
!
!
!
!
!
!
!
memory reserve critical 1000
memory free low-watermark processor 98831
!
redundancy
  keepalive-enable
  mode sso
  main-cpu
    auto-sync running-config
!
spanning-tree mode rapid-pvst
no spanning-tree optimize bpdu transmission
spanning-tree vlan 530,610 priority 16384
diagnostic cns publish cisco.cns.device.diag_results
diagnostic cns subscribe cisco.cns.device.diag_commands
fabric timer 15
!
vlan internal allocation policy ascending
vlan access-log ratelimit 2000
!
vlan 10-11,50,200,210,510,520,530,610,720,730
!
class-map match-all coppclass-igmp
  match access-group name coppacl-igmp
class-map match-all coppclass-monitoring
  match access-group name coppacl-monitor
class-map match-all coppclass-filemanagement
  match access-group name coppacl-filemanagement
class-map match-all coppclass-management
  match access-group name coppacl-management
!
!
policy-map copp-policy
  class coppclass-filemanagement
    police 6000000 60000 60000    conform-action transmit    exceed-action drop
    violate-action drop
  class coppclass-management
    police 500000 5000 5000    conform-action transmit    exceed-action drop
    violate-action drop
  class coppclass-monitoring
    police 900000 9000 9000    conform-action transmit    exceed-action drop
    violate-action drop
  class class-default
    police 500000 5000 5000    conform-action transmit    exceed-action drop
    violate-action drop

```

```

!
!
!
!
!
!
interface GigabitEthernet1/1
  description Trunk to IE-6500-2  Ge1/1
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 200,210,520,530,610,720,730
  switchport mode trunk
!
interface GigabitEthernet1/2
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 610
  switchport mode trunk
!
interface GigabitEthernet1/3
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 510,520,530
  switchport mode trunk
  shutdown
!
interface GigabitEthernet1/4
  switchport
  switchport access vlan 200
  switchport mode access
!
interface GigabitEthernet1/5
  no ip address
!
interface GigabitEthernet1/6
  no ip address
  shutdown
!
interface GigabitEthernet1/7
  description link to IE-7200-5 MC gi0/1
  switchport
  switchport access vlan 200
  switchport mode access
!
interface GigabitEthernet1/8
  description connection to IE-SSL-2 gi0/0
  switchport
  switchport access vlan 200
  switchport mode access
!
interface GigabitEthernet1/9
  switchport
  switchport access vlan 610
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 610
  switchport mode trunk
!
interface GigabitEthernet1/10
  description connection IE-SSL-2 g0/1
  switchport
  switchport access vlan 610
  switchport mode access
!
interface GigabitEthernet1/11

```



```

    no ip address
    shutdown
    !
interface GigabitEthernet1/12
    switchport
    switchport access vlan 610
    switchport trunk encapsulation dot1q
    switchport trunk allowed vlan 510,520,530
    switchport mode trunk
    !
interface GigabitEthernet1/13
    switchport
    switchport trunk encapsulation dot1q
    switchport trunk allowed vlan 510,520,530
    switchport mode trunk
    shutdown
    !
interface GigabitEthernet1/14
    switchport
    switchport access vlan 610
    switchport trunk encapsulation dot1q
    switchport trunk allowed vlan 610
    switchport mode trunk
    shutdown
    !
interface GigabitEthernet1/15
    switchport
    switchport trunk encapsulation dot1q
    switchport trunk allowed vlan 200
    switchport mode trunk
    shutdown
    !
interface GigabitEthernet1/16
    switchport
    switchport access vlan 720
    !
interface GigabitEthernet5/1
    no ip address
    shutdown
    !
interface GigabitEthernet5/2
    description OOB IE-sw-5 f0/5
    ip address 10.242.51.76 255.255.255.0
    ip access-group 133 in
    ip access-group 134 out
    media-type rj45
    speed 100
    duplex full
    !
interface TenGigabitEthernet6/1
    switchport
    switchport trunk encapsulation dot1q
    switchport trunk allowed vlan 510,520,530
    switchport mode trunk
    !
interface TenGigabitEthernet6/2
    switchport
    switchport access vlan 610
    switchport trunk encapsulation dot1q
    switchport trunk allowed vlan 610
    switchport mode trunk
    !
interface TenGigabitEthernet6/3
    switchport

```

```

switchport trunk encapsulation dot1q
switchport trunk allowed vlan 200
switchport mode trunk
!
interface TenGigabitEthernet6/4
switchport
switchport access vlan 730
switchport mode access
!
interface Vlan1
no ip address
shutdown
!
interface Vlan10
no ip address
shutdown
!
interface Vlan210
no ip address
shutdown
standby ip 11.1.1.3
standby priority 50
standby preempt
!
interface Vlan510
no ip address
!
interface Vlan520
no ip address
!
interface Vlan530
no ip address
!
interface Vlan610
no ip address
!
ip classless
ip route 0.0.0.0 0.0.0.0 10.242.51.1
!
!
no ip http server
no ip http secure-server
ip tacacs source-interface GigabitEthernet5/2
!
ip access-list extended coppacl-filemanagement
permit tcp 10.242.0.0 0.0.255.255 eq ftp host 10.242.51.76 gt 1023 established
permit tcp 10.242.0.0 0.0.255.255 eq ftp-data host 10.242.51.76 established
permit tcp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.76 gt 1023 established
permit tcp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.76 gt 1023
ip access-list extended coppacl-igp
remark IGP traffic class
permit eigrp any host 224.0.0.10
permit eigrp 10.0.0.0 0.255.255.255 host 172.26.191.76
ip access-list extended coppacl-management
remark CoPP management traffic class
permit tcp 10.242.0.0 0.0.255.255 eq tacacs host 10.242.51.76 established
permit tcp 10.242.0.0 0.0.255.255 host 10.242.51.76 eq 22
permit tcp 10.242.0.0 0.0.255.255 host 10.242.51.76 eq telnet
ip access-list extended coppacl-monitoring
remark CoPP monitoring traffic class
permit icmp any any port-unreachable
permit icmp any any echo-reply
permit icmp any any echo
permit icmp any any ttl-exceeded

```

```

!
logging trap critical
access-list 55 remark ACL for SNMP access to device
access-list 55 permit 10.242.51.99
access-list 55 deny any log
access-list 111 remark ACL for SSH
access-list 111 permit tcp 10.242.0.0 0.0.255.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host 10.242.51.94 any eq 22
access-list 133 permit icmp 10.242.0.0 0.0.255.255 host 10.242.51.76 ttl-exceede
d
access-list 133 permit icmp 10.242.0.0 0.0.255.255 host 10.242.51.76 port-unreac
hable
access-list 133 permit icmp 10.242.0.0 0.0.255.255 host 10.242.51.76 echo-reply
access-list 133 permit icmp 10.242.0.0 0.0.255.255 host 10.242.51.76 echo
access-list 133 permit tcp 10.242.0.0 0.0.255.255 host 10.242.51.76 eq tacacs
access-list 133 permit udp 10.242.0.0 0.0.255.255 host 10.242.51.76 eq ntp
access-list 133 permit tcp 10.242.0.0 0.0.255.255 host 10.242.51.76 eq 22
access-list 133 permit tcp 10.242.0.0 0.0.255.255 eq ftp host 10.242.51.76
access-list 133 permit tcp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.76
access-list 133 permit udp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.76
access-list 133 permit tcp 10.242.0.0 0.0.255.255 eq tacacs host 10.242.51.76 gt
1023 established
access-list 133 permit tcp 10.242.0.0 0.0.255.255 eq ftp host 10.242.51.76 gt 10
23 established
access-list 133 permit udp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.76 gt 1
023
access-list 133 permit tcp 10.242.0.0 0.0.255.255 eq ftp-data host 10.242.51.76
gt 1023
access-list 133 deny ip any any log
access-list 134 permit ip host 10.242.51.76 10.242.0.0 0.0.255.255
access-list 134 deny ip any any log
no cdp run
!
snmp-server community csmars RO 55
snmp-server enable traps cpu threshold
snmp-server host 10.242.51.99 csmars
snmp-server host 10.242.51.99 public cpu
tacacs-server host 10.242.51.94
tacacs-server directed-request
tacacs-server key 7 104D000A0618
!
radius-server source-ports 1645-1646
!
control-plane
!
!
dial-peer cor custom
!
!
!
!
line con 0
exec-timeout 0 0
login authentication authen-exec-list
line vty 0 3
session-timeout 3
access-class 111 in
password 7 <encrypted password>
authorization commands 15 author-15-list
authorization exec author-exec-list
login authentication authen-exec-list
transport preferred ssh

```

```

transport input ssh
transport output none
line vty 4
  session-timeout 3
  access-class 112 in
  password 7 <encrypted password>
  authorization commands 15 author-15-list
  authorization exec author-exec-list
  login authentication authen-exec-list
  transport preferred none
  transport output none
line vty 5 15
  no exec
!
exception protocol ftp
ntp authentication-key 10 md5 <encrypted password>
ntp trusted-key 10
ntp clock-period 17179922
ntp server 10.242.51.45
!
end

```

Inner Switches Catalyst 6500

```

ie-6500-3    (dmz)
Current configuration : 13345 bytes
!
! Last configuration change at 09:32:02 EST Thu Apr 16 2009 by admin
! NVRAM config last updated at 15:50:19 EST Fri May 15 2009 by admin
!
upgrade fpd auto
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service counters max age 5
!
hostname IE-6500-3
!
boot system flash disk0:s32p3-ipbasek9-mz.122-18.ZYA.1
logging rate-limit all 10
no logging console
enable secret 5 <encrypted password>.
!
username admin privilege 15 secret 5 <encrypted password>
aaa new-model
aaa group server tacacs+ tacacs-group
  server 172.26.191.94
  server 172.26.191.96
!
aaa authentication login no-auth none
aaa authentication login admin group adminAAAgrou local-case
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable
aaa authorization exec author-exec-list group tacacs-group if-authenticated
aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group tacacs-group
aaa accounting commands 15 default start-stop group tacacs-group

```

```

aaa accounting system default start-stop group tacacs-group
!
aaa session-id common
clock timezone EST -5
ip subnet-zero
no ip source-route
!
ip ftp username stenneti
ip ftp password 7 <encrypted password>
no ip bootp server
ip ssh time-out 60
ip ssh authentication-retries 2
ip domain-name cisco.com
!
!
ipv6 mfib hardware-switching replication-mode ingress
mls ip multicast flow-stat-timer 9
no mls flow ip
no mls flow ipv6
mls qos
no mls acl tcam share-global
mls cef error action freeze
!
key chain eigrp-chain
  key 10
    key-string 7 01100F175804575D72
!
!
!
!
!
!
!
memory reserve critical 1000
memory free low-watermark processor 98831
!
redundancy
  mode sso
  main-cpu
    auto-sync running-config
!
spanning-tree mode rapid-pvst
system flowcontrol bus auto
diagnostic cns publish cisco.cns.device.diag_results
diagnostic cns subscribe cisco.cns.device.diag_commands
!
vlan internal allocation policy ascending
vlan access-log ratelimit 2000
!
class-map match-all coppclass-igp
  match access-group name coppacl-igp
class-map match-all coppclass-monitoring
  match access-group name coppacl-monitor
class-map match-all coppclass-filemanagement
  match access-group name coppacl-filemanagement
class-map match-all coppclass-management
  match access-group name coppacl-management
!
!
policy-map copp-policy
  class coppclass-filemanagement
    police cir 6000000 bc 60000 be 60000 conform-action transmit exceed-action d
  op violate-action drop
  class coppclass-management

```

```

    police cir 500000 bc 5000 be 5000 conform-action transmit exceed-action drop
violate-action drop
    class coppclass-monitoring
    police cir 900000 bc 9000 be 9000 conform-action transmit 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 Port-channel256
mtu 4160
no ip address
load-interval 30
speed nonegotiate
mls qos trust cos
flowcontrol receive on
flowcontrol send on
pisa-channel
!
interface GigabitEthernet2/1
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 510,520,530
switchport mode trunk
no ip address
shutdown
!
interface GigabitEthernet2/2
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 510,520,530
switchport mode trunk
no ip address
shutdown
!
interface GigabitEthernet2/3
switchport
switchport access vlan 530
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 510,520,530
switchport mode trunk
no ip address
!
interface GigabitEthernet2/4
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 510,520,530
switchport mode trunk
no ip address
!
interface GigabitEthernet2/5
no ip address
shutdown
!
interface GigabitEthernet2/6
description SAFE CORE SFX14-6504E-1
ip address 10.242.10.13 255.255.255.254
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
!
```

```

interface GigabitEthernet2/7
description SAFE CORE SFX14-6504E-2
ip address 10.242.10.17 255.255.255.254
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-chain
!
interface GigabitEthernet2/8
switchport
switchport access vlan 530
switchport mode access
no ip address
!
interface GigabitEthernet2/9
description ironport email-appliance
switchport
switchport access vlan 530
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address 0019.b9d4.106c
no ip address
!
interface GigabitEthernet2/10
switchport
switchport access vlan 520
switchport mode access
no ip address
!
interface GigabitEthernet2/11
switchport
switchport access vlan 520
switchport mode access
no ip address
!
interface GigabitEthernet2/12
switchport
switchport access vlan 520
switchport mode access
no ip address
!
interface GigabitEthernet2/13
description connection to 6500-4
switchport
switchport access vlan 530
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 510,520,530,610
switchport mode trunk
no ip address
!
interface GigabitEthernet2/14
switchport
switchport access vlan 520
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 610
switchport mode trunk
no ip address
!
interface GigabitEthernet2/15
switchport
switchport access vlan 520
no ip address
!
interface GigabitEthernet2/16
switchport
switchport access vlan 530

```

```
no ip address
!
interface FastEthernet4/1
switchport
switchport access vlan 530
switchport mode access
no ip address
speed 100
duplex full
!
interface FastEthernet4/2
no ip address
shutdown
!
interface FastEthernet4/3
no ip address
shutdown
!
interface FastEthernet4/4
no ip address
shutdown
!
interface FastEthernet4/5
no ip address
shutdown
!
interface FastEthernet4/6
no ip address
shutdown
!
interface FastEthernet4/7
no ip address
shutdown
!
interface FastEthernet4/8
no ip address
shutdown
!
interface FastEthernet4/9
no ip address
shutdown
!
interface FastEthernet4/10
no ip address
shutdown
!
interface FastEthernet4/11
no ip address
shutdown
!
interface FastEthernet4/12
no ip address
shutdown
!
interface FastEthernet4/13
no ip address
shutdown
!
interface FastEthernet4/14
no ip address
shutdown
!
interface FastEthernet4/15
no ip address
```



```

        shutdown
    !
interface FastEthernet4/16
    no ip address
    shutdown
interface FastEthernet4/17
    no ip address
    shutdown
!
interface FastEthernet4/18
    no ip address
    shutdown
!
interface FastEthernet4/19
    no ip address
    shutdown
!
interface FastEthernet4/20
    no ip address
    shutdown
!
interface FastEthernet4/21
    no ip address
    shutdown
!
interface FastEthernet4/22
    no ip address
    shutdown
!
interface FastEthernet4/23
    no ip address
    shutdown
!
interface FastEthernet4/24
    no ip address
    shutdown
!
interface FastEthernet4/25
    no ip address
    shutdown
!
interface FastEthernet4/26
    no ip address
    shutdown
interface FastEthernet4/27
    no ip address
    shutdown
!
interface FastEthernet4/28
    no ip address
    shutdown
!
interface FastEthernet4/29
    no ip address
    shutdown
!
interface FastEthernet4/30
    no ip address
    shutdown
!
interface FastEthernet4/31
    no ip address
    shutdown
!

```

```
interface FastEthernet4/32
  no ip address
  shutdown
!
interface FastEthernet4/33
  no ip address
  shutdown
!
interface FastEthernet4/34
  no ip address
  shutdown
!
interface FastEthernet4/35
  no ip address
  shutdown
!
interface FastEthernet4/36
  no ip address
  shutdown
!
interface FastEthernet4/37
  no ip address
  shutdown
!
interface FastEthernet4/38
  no ip address
  shutdown
!
interface FastEthernet4/39
  no ip address
  shutdown
!
interface FastEthernet4/40
  no ip address
  shutdown
!
interface FastEthernet4/41
  no ip address
  shutdown
!
interface FastEthernet4/42
  no ip address
  shutdown
!
interface FastEthernet4/43
  no ip address
  shutdown
!
interface FastEthernet4/44
  no ip address
  shutdown
!
interface FastEthernet4/45
  no ip address
  shutdown
!
interface FastEthernet4/46
  no ip address
  shutdown
!
interface FastEthernet4/47
  no ip address
  shutdown
!
```

```

interface FastEthernet4/48
  no ip address
  shutdown
!
interface TenGigabitEthernet5/1
  no ip address
  shutdown
!
interface TenGigabitEthernet5/2
  no ip address
  shutdown
!
interface GigabitEthernet5/3
  description OOB IE-SW-5 Fast46
  ip address 172.26.191.77 255.255.255.0
  ip access-group 133 in
  ip access-group 134 out
  load-interval 60
  no cdp enable
!
interface Vlan1
  no ip address
  shutdown
!
interface Vlan510
  ip address 10.244.10.1 255.255.255.0
!
interface Vlan520
  ip address 10.244.20.1 255.255.255.0
!
interface Vlan530
  ip address 10.244.30.1 255.255.255.0
!
router eigrp 1
  network 10.242.10.12 0.0.0.1
  network 10.242.10.16 0.0.0.1
  network 10.244.10.0 0.0.0.255
  network 10.244.20.0 0.0.0.255
  network 10.244.30.0 0.0.0.255
  network 10.247.10.0 0.0.0.255
  no auto-summary
!
ip classless
ip route 0.0.0.0 0.0.0.0 10.244.30.20
ip route 172.18.2.15 255.255.255.255 172.26.191.1
ip route 172.26.129.252 255.255.255.255 172.26.191.1
!
no ip http server
ip tacacs source-interface GigabitEthernet5/3
!
ip access-list extended coppacl-filemanagement
  permit tcp 172.26.0.0 0.0.255.255 eq ftp host 172.26.191.77 gt 1023 established
  permit tcp 172.26.0.0 0.0.255.255 eq ftp-data host 172.26.191.77 established
  permit tcp 172.26.0.0 0.0.255.255 gt 1023 host 172.27.191.77 gt 1023 establishe
d
  permit tcp 172.26.0.0 0.0.255.255 gt 1023 host 172.27.191.77 gt 1023
ip access-list extended coppacl-igmp
  remark IGP traffic class
  permit eigrp any host 224.0.0.10
  permit eigrp 10.0.0.0 0.255.255.255 host 172.26.191.77
ip access-list extended coppacl-management
  remark CoPP management traffic class
  permit tcp 172.26.0.0 0.0.255.255 eq tacacs host 172.26.191.77 established
  permit tcp 172.26.0.0 0.0.255.255 host 172.26.191.77 eq 22

```

```

    permit tcp 172.26.0.0 0.0.255.255 host 172.26.191.77 eq telnet
ip access-list extended coppacl-monitoring
    remark CoPP monitoring traffic class
    permit icmp any any ttl-exceeded
    permit icmp any any port-unreachable
    permit icmp any any echo-reply
    permit icmp any any echo
!
logging trap critical
logging source-interface GigabitEthernet5/3
logging 172.26.191.94
access-list 10 permit 172.26.191.92
access-list 111 remark ACL for SSH
access-list 111 permit tcp 172.26.0.0 0.0.255.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host 172.26.191.92 any eq 22
access-list 112 permit tcp host 172.26.191.99 any eq 22
access-list 112 deny ip any any log-input
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host 172.26.191.77 ttl-exceed
ed
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host 172.26.191.77 port-unrea
chable
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host 172.26.191.77 echo-reply
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host 172.26.191.77 echo
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq tacacs host 172.26.191.77 e
stablished
access-list 133 permit tcp 172.26.0.0 0.0.255.255 host 172.26.191.77 eq tacacs
access-list 133 permit udp 172.26.0.0 0.0.255.255 host 172.26.191.77 eq ntp
access-list 133 permit tcp 172.26.0.0 0.0.255.255 host 172.26.191.77 eq 22
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp host 172.26.191.77 gt 1
023 established
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp-data host 172.26.191.77
gt 1023
access-list 133 permit tcp 172.26.0.0 0.0.255.255 gt 1023 host 172.26.191.77 gt
1023
access-list 133 permit ip any any log
access-list 134 permit ip host 172.26.191.77 172.26.0.0 0.0.255.255
access-list 134 deny ip any any log
no cdp run
!
tacacs-server host 172.26.191.94 key 7 0822455D0A16
tacacs-server directed-request
tacacs-server key 7 060506324F41
!
radius-server source-ports 1645-1646
!
control-plane
!
service-policy input copp-policy
!
banner login ^C
UNAUTHORIZED ACCESS TO THIS DEVICE IS PROHIBITED
You must have explicit, authorized permission to access or configure this device
.
Unauthorized attempts and actions to access or use this system may result in civ
il and/or criminal penalties.
All activities performed on this device are logged and monitored.
^C
!
line con 0
    session-timeout 3
    exec-timeout 0 0
    login authentication authen-exec-list

```

```

line vty 0 3
  session-timeout 3
  access-class 111 in
  password 7 <encrypted password>
  authorization commands 15 author-15-list
  authorization exec author-exec-list
  login authentication authen-exec-list
  transport preferred none
  transport input ssh
  transport output none
line vty 4
  session-timeout 3
  access-class 112 in
  password 7 <encrypted password>
  authorization commands 15 author-15-list
  authorization exec author-exec-list
  login authentication authen-exec-list
  transport preferred none
  transport input ssh
  transport output none
line vty 5 15
  no exec
!
exception protocol ftp
exception dump 172.26.129.252
ntp clock-period 17180118
ntp server 172.26.129.252
mac-address-table static 000f.20d1.e707 vlan 520 interface GigabitEthernet2/11
mac-address-table static 001f.2959.aa36 vlan 520 interface GigabitEthernet2/12
no cns aaa enable
end

ie-6500-4 (corp)
upgrade fpd auto
version 12.2
service timestamps debug uptime
service timestamps log uptime
service password-encryption
service counters max age 5
!
hostname IE-6500-4
!
boot system flash disk0:s32p3-ipbasek9-mz.122-18.ZYA.1
boot system flash sup-bootdisk:
enable secret 5 <encrypted password>.
!
aaa new-model
aaa group server tacacs+ tacacs-group
  server 172.26.191.94
!
aaa authentication login no-auth none
aaa authentication login admin group adminAAAgroup local-case
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable
aaa authorization exec author-exec-list group tacacs-group if-authenticated
aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group tacacs-group
aaa accounting commands 15 default start-stop group tacacs-group
aaa accounting system default start-stop group tacacs-group
!
aaa session-id common
ip subnet-zero
!

```

```

no ip domain-lookup
ip domain-name cisco.com
!
!
ipv6 mfib hardware-switching replication-mode ingress
mls ip multicast flow-stat-timer 9
no mls flow ip
no mls flow ipv6
no mls acl tcam share-global
mls cef error action freeze
!
key chain eigrp-chain
  key 10
    key-string 7 094F471A1A0A464058
!
!
!
!
!
!
!
!
redundancy
  mode sso
  main-cpu
    auto-sync running-config
!
spanning-tree mode rapid-pvst
spanning-tree vlan 510,520,530 priority 16384
!
no power enable module 1
system flowcontrol bus auto
diagnostic cns publish cisco.cns.device.diag_results
diagnostic cns subscribe cisco.cns.device.diag_commands
!
vlan internal allocation policy ascending
vlan access-log ratelimit 2000
!
class-map match-all coppclass-igp
  match access-group name coppacl-igp
class-map match-all coppclass-monitoring
  match access-group name coppacl-monitoring
class-map match-all coppclass-filemanagement
  match access-group name coppacl-filemanagement
class-map match-all coppclass-management
  match access-group name coppacl-management
!
!
policy-map copp-policy
  class coppclass-igp
    police cir 300000 bc 3000 be 3000 conform-action transmit exceed-action drop
  violate-action drop
  class coppclass-filemanagement
    police cir 6000000 bc 60000 be 60000 conform-action transmit exceed-action dr
  op violate-action drop
  class coppclass-management
    police cir 500000 bc 5000 be 5000 conform-action transmit exceed-action drop
  violate-action drop
  class coppclass-monitoring
    police cir 900000 bc 9000 be 9000 conform-action transmit 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 Port-channel256
  mtu 4160
  no ip address
  load-interval 30
  speed nonegotiate
  mls qos trust cos
  flowcontrol receive on
  flowcontrol send on
  pisa-channel
!
interface GigabitEthernet2/1
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 610
  switchport mode trunk
  no ip address
  shutdown
!
interface GigabitEthernet2/2
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 610
  switchport mode trunk
  no ip address
  shutdown
!
interface GigabitEthernet2/3
  description link to spirent port 7
  switchport
  switchport access vlan 610
  no ip address
!
interface GigabitEthernet2/4
  switchport
  switchport access vlan 610
  switchport mode access
  no ip address
!
interface GigabitEthernet2/5
  description connection to 6500-2
  switchport
  switchport access vlan 530
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 510,520,530
  switchport mode trunk
  no ip address
  spanning-tree cost 10000
!
interface GigabitEthernet2/6
  description SAFE CORE SFX-6504E-2 Gig4/1
  ip address 10.242.10.15 255.255.255.254
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
!
interface GigabitEthernet2/7
  description SAFE CORE SFX-6504E-1 Gig4/1
  ip address 10.242.10.11 255.255.255.254
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain

```

```

!
interface GigabitEthernet2/8
  switchport
  switchport access vlan 610
  switchport mode access
  no ip address
!
interface GigabitEthernet2/9
  no ip address
!
interface GigabitEthernet2/10
  description connection to 6500-3
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 510,520,530,610
  switchport mode trunk
  no ip address
!
interface GigabitEthernet2/11
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 610
  switchport mode trunk
  no ip address
  spanning-tree cost 10000
!
interface GigabitEthernet2/12
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 610
  switchport mode trunk
  no ip address
!
interface GigabitEthernet2/13
  no ip address
  shutdown
!
interface GigabitEthernet2/14
  no ip address
  shutdown
!
interface GigabitEthernet2/15
  no ip address
  shutdown
!
interface GigabitEthernet2/16
  no ip address
  shutdown
!
interface TenGigabitEthernet5/1
  no ip address
  shutdown
!
interface TenGigabitEthernet5/2
  no ip address
  shutdown
!
interface GigabitEthernet5/3
  description OOB IE-SW4 Eth47
  ip address 172.26.191.78 255.255.255.0
  ip access-group 133 in
  ip access-group 134 out
  load-interval 60
  no cdp enable

```



```

!
interface Vlan1
  no ip address
  shutdown
!
interface Vlan610
  ip address 10.245.10.253 255.255.0.0
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-chain
!
router eigrp 1
  redistribute static
  network 10.242.10.10 0.0.0.1
  network 10.242.10.14 0.0.0.1
  network 10.245.0.0 0.0.255.255
  no auto-summary
!
ip classless
ip route 0.0.0.0 0.0.0.0 10.245.255.254
!
no ip http server
ip tacacs source-interface GigabitEthernet5/3
!
ip access-list extended coppacl-filemanagement
  remark CoPP File transfer traffic class
  permit tcp 172.26.0.0 0.0.255.255 eq ftp host 172.26.191.78 gt 1023 established
  permit tcp 172.26.0.0 0.0.255.255 eq ftp-data host 172.26.191.78 gt 1023
  permit tcp 172.26.0.0 0.0.255.255 gt 1023 host 172.26.191.78 gt 1023 establishe
d
  permit udp 172.26.0.0 0.0.255.255 gt 1023 host 172.26.191.78 gt 1023
ip access-list extended coppacl-igp
  remark IGP traffic class
  permit eigrp any host 224.0.0.10
  permit eigrp 10.0.0.0 0.255.255.255 host 172.26.191.78
ip access-list extended coppacl-management
  remark CoPP management traffic class
  permit tcp 172.26.0.0 0.0.255.255 eq tacacs host 172.26.191.78 established
  permit tcp 172.26.0.0 0.0.255.255 host 172.26.191.78 eq 22
  permit tcp 172.26.0.0 0.0.255.255 host 172.26.191.78 eq telnet
  permit udp 172.26.0.0 0.0.255.255 host 172.26.191.78 eq snmp
  permit udp 172.26.0.0 0.0.255.255 host 172.26.191.78 eq ntp
ip access-list extended coppacl-monitoring
  remark CoPP monitoring traffic class
  permit icmp any any ttl-exceeded
  permit icmp any any port-unreachable
  permit icmp any any echo-reply
!
logging trap errors
logging 172.26.191.94
access-list 111 remark ACL for SSH
access-list 111 permit tcp 172.26.0.0 0.0.255.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host 172.26.191.92 any eq 22
access-list 112 permit tcp host 172.26.191.99 any eq 22
access-list 112 deny ip any any log-input
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host 172.26.191.78 ttl-exceed
ed
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host 172.26.191.78 port-unrea
chable
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host 172.26.191.78 echo-reply
access-list 133 permit icmp 172.26.0.0 0.0.255.255 host 172.26.191.78 echo
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq tacacs host 172.26.191.78 e
stablished

```

```

access-list 133 permit tcp 172.26.0.0 0.0.255.255 host 172.26.191.78 eq tacacs
access-list 133 permit udp 172.26.0.0 0.0.255.255 host 172.26.191.78 eq ntp
access-list 133 permit tcp 172.26.0.0 0.0.255.255 host 172.26.191.78 eq 22
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp host 172.26.191.78 gt 1
023 established
access-list 133 permit tcp 172.26.0.0 0.0.255.255 eq ftp-data host 172.26.191.78
gt 1023
access-list 133 permit udp 172.26.0.0 0.0.255.255 gt 1023 host 172.26.191.78 gt
1023
access-list 133 permit ip any any log
access-list 134 permit ip host 172.26.191.78 172.26.0.0 0.0.255.255
access-list 134 deny ip any any log
no cdp run
!
tacacs-server host 172.26.191.94 key 7 030752180500701E1D
tacacs-server directed-request
tacacs-server key 7 070C285F4D06
!
radius-server source-ports 1645-1646
!
control-plane
!
!
banner login ^CC
UNAUTHORIZED ACCESS TO THIS DEVICE IS PROHIBITED
You must have explicit, authorized permission to access or configure this device
.
Unauthorized attempts and actions to access or use this system may result in civ
il and/or criminal penalties.
All activities performed on this device are logged and monitored.
^C
!
line con 0
 session-timeout 3
 exec-timeout 3 0
 login authentication authen-exec-list
line vty 0 3
 session-timeout 3
 access-class 111 in
 exec-timeout 3 0
 password 7 <encrypted password>
 authorization commands 15 author-15-list
 authorization exec author-exec-list
 login authentication authen-exec-list
 transport preferred none
 transport input ssh
 transport output none
line vty 4
 session-timeout 3
 access-class 112 in
 exec-timeout 3 0
 password 7 <encrypted password>
 authorization commands 15 author-15-list
 authorization exec author-exec-list
 login authentication authen-exec-list
 transport preferred none
 transport input ssh
 transport output none
!
ntp authentication-key 10 md5 <encrypted password>
ntp authenticate
ntp trusted-key 10
ntp clock-period 17180036
ntp source GigabitEthernet1/3

```

```

ntp update-calendar
ntp server 172.26.129.252
ntp server 10.242.51.45
no cns aaa enable
end

```

Firewall ASA 5580

```

asa-5580
ASA-5580-1# sh runn
ASA-5580-1# sh running-config
: Saved
:
ASA Version 8.1(1)
!
hostname ASA-5580-1
domain-name cisco.com
enable password <encrypted password> encrypted
passwd <encrypted password>encrypted
names
!
interface Management0/0
 nameif management
 security-level 100
 ip address 172.26.191.200 255.255.255.0 standby 172.26.191.201
 management-only
!
interface Management0/1
 shutdown
 no nameif
 no security-level
 no ip address
 management-only
!
interface TenGigabitEthernet3/0
 no nameif
 no security-level
 no ip address
!
interface TenGigabitEthernet3/0.2
 description dmz-internet edge
 vlan 520
 nameif dmz2
 security-level 5
 ip address 10.244.20.20 255.255.255.0
!
interface TenGigabitEthernet3/0.3
 description inside interface for e-mail services
 vlan 530
 nameif emailservices
 security-level 10
 ip address 10.244.30.20 255.255.255.0
!
interface TenGigabitEthernet3/1
 no nameif
 no security-level
 no ip address
!
interface TenGigabitEthernet3/1.1
 description inside interface for corporate users
 vlan 610
 nameif corpnet

```

```

security-level 10
ip address 10.245.255.254 255.255.0.0
authentication key eigrp 1 <removed> key-id 10
authentication mode eigrp 1 md5
!
interface TenGigabitEthernet5/0
no nameif
no security-level
no ip address
!
interface TenGigabitEthernet5/0.1
vlan 200
nameif externalservices
security-level 0
ip address 198.133.219.20 255.255.255.0
!
interface TenGigabitEthernet5/0.2
vlan 220
nameif VPN-termination
security-level 10
ip address 10.246.10.20 255.255.255.0
!
interface TenGigabitEthernet5/1
description LAN/STATE Failover Interface
!
interface TenGigabitEthernet5/1.3
no vlan
!
interface TenGigabitEthernet7/0
shutdown
no nameif
no security-level
no ip address
!
interface TenGigabitEthernet7/1
shutdown
no nameif
no security-level
no ip address
!
interface TenGigabitEthernet8/0
shutdown
no nameif
no security-level
no ip address
!
interface TenGigabitEthernet8/1
shutdown
no nameif
no security-level
no ip address
!
ftp mode passive
dns server-group DefaultDNS
domain-name cisco.com
same-security-traffic permit inter-interface
same-security-traffic permit intra-interface
object-group network NETWORK_APPLICATION_HOSTS
network-object 198.133.219.55 255.255.255.255
network-object 198.133.219.59 255.255.255.255
object-group protocol NETWORK_APPLICATION_PROTOCOL
protocol-object tcp
protocol-object udp
object-group service services1 tcp-udp

```

```

description DNS Group
port-object eq domain
object-group service services2 tcp
port-object eq www
port-object eq https
port-object eq smtp
object-group icmp-type ICMP_TRAFFIC
icmp-object echo-reply
icmp-object time-exceeded
icmp-object unreachable
icmp-object echo
object-group service ICMP_TRAFFIC_1
description (Generated by Cisco SM from Object "ICMP_TRAFFIC")
service-object icmp echo
service-object icmp unreachable
service-object icmp time-exceeded
service-object icmp echo-reply
access-list corp-net extended permit ip 10.0.0.0 255.0.0.0 any
access-list 100 extended permit ip 10.245.0.0 255.255.0.0 any
access-list OUTSIDE_IN extended permit tcp any object-group NETWORK_APPLICATION_
HOSTS eq domain
access-list OUTSIDE_IN extended permit tcp any object-group NETWORK_APPLICATION_
HOSTS object-group services2
access-list OUTSIDE_IN extended permit icmp any any object-group ICMP_TRAFFIC
access-list WEB_ACCESS extended permit tcp host 10.245.255.250 any eq www
access-list WEB_ACCESS extended deny tcp any any eq www
access-list WEB_ACCESS extended permit ip any any
pager lines 24
logging enable
logging buffered debugging
logging trap debugging
logging asdm informational
logging host emailservices 10.244.30.50
logging host management 172.26.191.99
flow-export destination management 172.26.191.99 2055
flow-export template timeout-rate 1
flow-export enable
mtu management 1500
mtu dmz2 1500
mtu emailservices 1500
mtu corpnet 1500
mtu externalservices 1500
mtu VPN-termination 1500
ip local pool MYPOOL 12.1.1.1
ip verify reverse-path interface dmz2
ip verify reverse-path interface emailservices
failover
failover lan unit primary
failover lan interface failover-int TenGigabitEthernet5/1
failover polltime unit 8 holdtime 24
failover polltime interface 8 holdtime 40
failover link failover-int TenGigabitEthernet5/1
failover interface ip failover-int 10.1.1.1 255.255.255.0 standby 10.1.1.2
monitor-interface dmz2
monitor-interface emailservices
monitor-interface corpnet
monitor-interface externalservices
icmp unreachable rate-limit 1 burst-size 1
icmp permit any management
asdm image disk0:/asdm-611.bin
no asdm history enable
arp timeout 14400
global (externalservices) 20 198.133.219.129-198.133.219.254 netmask 255.255.255
.128

```

```

global (externalservices) 2 198.133.219.52 netmask 255.255.255.255
global (externalservices) 20 198.133.219.128 netmask 255.255.255.255
nat (corpnet) 20 access-list corp-net
nat (VPN-termination) 2 10.246.10.0 255.255.255.0
static (dmz2,externalservices) tcp 198.133.219.59 www 10.244.20.110 www netmask
255.255.255.255
static (emailservices,externalservices) 198.133.219.55 10.244.30.11 netmask 255.
255.255.255
access-group OUTSIDE_IN in interface externalservices
!
router eigrp 1
  network 10.245.0.0 255.255.0.0
!
route externalservices 0.0.0.0 0.0.0.0 198.133.219.100 1
route dmz2 10.244.0.0 255.255.0.0 10.244.20.1 1
route management 172.26.0.0 255.255.0.0 172.26.191.1 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
dynamic-access-policy-record DfltAccessPolicy
aaa-server dmz-aaa protocol radius
aaa-server dmz-aaa (emailservices) host 10.244.30.50
aaa-server ACS-Admin protocol tacacs+
aaa-server ACS-Admin (management) host 172.26.191.94
  key cisco
aaa authentication telnet console ACS-Admin LOCAL
aaa authentication serial console ACS-Admin LOCAL
aaa authentication http console ACS-Admin LOCAL
aaa authentication ssh console ACS-Admin LOCAL
aaa authentication enable console ACS-Admin LOCAL
aaa authorization command LOCAL
aaa accounting enable console ACS-Admin
aaa accounting serial console ACS-Admin
aaa accounting telnet console ACS-Admin
aaa accounting command ACS-Admin
aaa accounting ssh console ACS-Admin
aaa authorization exec authentication-server
http server enable
http 172.26.191.0 255.255.255.0 management
http 172.26.0.0 255.255.0.0 management
http 192.168.1.0 255.255.255.0 management
snmp-server host management 172.26.191.99 poll community csmars
no snmp-server location
no snmp-server contact
snmp-server community csmars
snmp-server enable traps snmp authentication linkup linkdown coldstart
service resetoutside
crypto ipsec transform-set IE-800-1 esp-des esp-md5-hmac
crypto dynamic-map IE-800-1-DYNMAP 10 set transform-set IE-800-1
crypto map IE-800-1-MAP 10 ipsec-isakmp dynamic IE-800-1-DYNMAP
crypto map IE-800-1-MAP interface externalservices
crypto isakmp enable externalservices
crypto isakmp policy 1
  authentication pre-share
  encryption des
  hash md5
  group 2
  lifetime 86400
crypto isakmp policy 20
  authentication pre-share
  encryption des
  hash sha

```

```

group 2
  lifetime 86400
no crypto isakmp nat-traversal
telnet timeout 5
ssh 172.26.191.0 255.255.255.0 management
ssh timeout 5
console timeout 0
threat-detection basic-threat
threat-detection statistics access-list
ntp server 172.26.129.252 source management
webvpn
  enable externalservices
group-policy branch-tele internal
group-policy branch-tele attributes
  vpn-session-timeout 15000
username csmars password <encrypted password>encrypted privilege 15
username admin password e<encrypted password> encrypted privilege 15
username cisco password <encrypted password> encrypted
tunnel-group eztunnel type remote-access
tunnel-group eztunnel general-attributes
  address-pool MYPOOL
  authentication-server-group dmz-aaa
  default-group-policy branch-tele
tunnel-group eztunnel ipsec-attributes
  pre-shared-key *
!
class-map inspection_default
  match default-inspection-traffic
!
!
policy-map type inspect dns preset_dns_map
  parameters
    message-length maximum 512
policy-map global_policy
  class inspection_default
    inspect dns preset_dns_map
    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
!
service-policy global_policy global
prompt hostname context
Cryptochecksum:fa72dbcb202c3854b655ffa4a555b6de
: end

```

Remote-Access Termination ASA 5520

```

ie-ssl
hostname IE-SSL-1
domain-name cisco.com
enable password <encrypted password> encrypted
passwd <encrypted password> encrypted

```

```

names
!
interface GigabitEthernet0/0
  nameif VPN-termination
  security-level 0
  ip address 198.133.219.40 255.255.255.0 standby 198.133.219.41
!
interface GigabitEthernet0/1
  mac-address 0003.fd22.e001
  nameif inside
  security-level 10
  ip address 10.245.40.20 255.255.0.0 standby 10.245.40.21
  authentication key eigrp 1 <removed> key-id 10
  authentication mode eigrp 1 md5
!
interface GigabitEthernet0/2
  no nameif
  no security-level
  no ip address
!
interface GigabitEthernet0/3
  description LAN/STATE Failover Interface
!
interface Management0/0
  nameif management
  security-level 100
  ip address 172.26.191.81 255.255.255.0 standby 172.26.191.82
  management-only
!
boot system disk0:/asa804-k8.bin
ftp mode passive
dns domain-lookup inside
dns server-group DefaultDNS
  name-server 10.244.30.10
  domain-name cisco.com
pager lines 24
logging enable
logging buffered debugging
logging trap debugging
logging asdm informational
logging host management 172.26.191.99
mtu VPN-termination 1500
mtu inside 1500
mtu management 1500
failover
failover lan unit primary
failover lan interface failover-int GigabitEthernet0/3
failover polltime unit 8 holdtime 24
failover polltime interface 8 holdtime 40
failover link failover-int GigabitEthernet0/3
failover interface ip failover-int 10.1.1.1 255.255.255.0 standby 10.1.1.2
icmp unreachable rate-limit 1 burst-size 1
asdm image disk0:/asdm-61551.bin
no asdm history enable
arp timeout 14400
!
router eigrp 1
  network 10.0.0.0 255.0.0.0
!
route VPN-termination 0.0.0.0 0.0.0.0 198.133.219.100 1
route management 172.26.0.0 255.255.0.0 172.26.191.1 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
dynamic-access-policy-record DfltAccessPolicy
aaa-server ACS-Admin protocol tacacs+
aaa-server ACS-Admin (management) host 172.26.191.94
    key cisco
aaa authentication telnet console ACS-Admin LOCAL
aaa authentication serial console ACS-Admin LOCAL
aaa authentication enable console ACS-Admin LOCAL
aaa authentication ssh console ACS-Admin LOCAL
aaa accounting enable console ACS-Admin
aaa accounting serial console ACS-Admin
aaa accounting telnet console ACS-Admin
aaa accounting command ACS-Admin
aaa authorization exec authentication-server
http server enable
http 172.26.0.0 255.255.0.0 management
http 192.168.1.0 255.255.255.0 management
http 172.26.191.95 255.255.255.255 management
http redirect management 445
snmp-server host management 172.26.191.99 poll community csmars
no snmp-server location
no snmp-server contact
snmp-server community csmars
snmp-server enable traps snmp authentication linkup linkdown coldstart
service resetoutside
crypto ipsec security-association lifetime seconds 28800
crypto ipsec security-association lifetime kilobytes 4608000
crypto ca trustpoint LOCAL-TP
    revocation-check crl none
    enrollment self
    fqdn IE-SSL-1.ourcompany.com
    subject-name CN=198.133.219.40
    serial-number
    ip-address 198.133.219.40
    crl configure
telnet timeout 5
ssh 172.26.191.0 255.255.255.0 management
ssh timeout 5
console timeout 0
threat-detection basic-threat
threat-detection statistics access-list
no threat-detection statistics tcp-intercept
webvpn
    enable VPN-termination
group-policy executive internal
group-policy executive attributes
    vpn-simultaneous-logins 25
    vpn-tunnel-protocol webvpn
    default-domain value ourcompany.com
username csmars password <encrypted password>encrypted privilege 15
username admin password <encrypted password> encrypted
tunnel-group executive-tunnel type remote-access
tunnel-group executive-tunnel general-attributes
    default-group-policy executive
tunnel-group executive-tunnel webvpn-attributes
    group-alias executive enable
!
class-map inspection_default
    match default-inspection-traffic
!
!
policy-map type inspect dns preset_dns_map
    parameters

```

```

    message-length maximum 512
policy-map global_policy
  class inspection_default
    inspect dns preset_dns_map
    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
  !
service-policy global_policy global
prompt hostname context
Cryptochecksum:6b897c02fc3011b67d584ff6f3b55334
: end
IE-SSL-1#

```

Border Router

```

7200-3
!upgrade fpd auto
version 12.4
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
!
hostname IE-7200-3
!
boot-start-marker
boot system disk2:c7200-adventerprisek9-mz.124-20.T1
boot-end-marker
!
logging message-counter syslog
logging rate-limit 1 except errors
enable secret 5 <encrypted password>/
!
aaa new-model
!
!
aaa group server tacacs+ tacacs-group
  server 10.242.51.94
!
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable
aaa authorization exec author-exec-list group tacacs-group if-authenticated
aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group tacacs-group
aaa accounting commands 15 default start-stop group tacacs-group
aaa accounting system default start-stop group tacacs-group
!
!

```

```

aaa session-id common
clock timezone EST -4
no ip source-route
ip cef
!
!
!
no ip bootp server
ip domain name cisco.com
login block-for 100 attempts 5 within 50
login quiet-mode access-class 10
login on-failure log
login on-success log
no ipv6 cef
!
multilink bundle-name authenticated
!
flow-sampler-map csmars-sample
mode random one-out-of 100
!
!
key chain zebra
key 1
key-string 7 02160249
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
oer border
logging
local GigabitEthernet0/1
master 198.133.219.5 key-chain zebra
!
!
memory reserve critical 1000
memory free low-watermark processor 88000
memory free low-watermark IO 6710
username admin privilege 15 secret 5 <encrypted password>
username csmars privilege 15 secret 5 <encrypted password>.
archive
log config
hidekeys
!
!
!
!
!
controller ISA 4/1
!
ip ftp source-interface Ethernet1/0
ip ftp username stenneti
ip ftp password 7 <encrypted password>
ip ssh time-out 60
ip ssh authentication-retries 2

```

```

ip ssh source-interface Ethernet1/7
ip scp server enable
!
class-map match-all coppclass-critical-app
  match access-group name coppacl-critical-app
class-map match-all coppclass-bgp
  match access-group name coppacl-bgp
class-map match-all coppclass-monitoring
  match access-group name coppacl-monitoring
class-map match-all coppclass-filemanagement
  match access-group name coppacl-filemanagement
class-map match-all coppclass-management
  match access-group name coppacl-management
!
!
policy-map copp-policy
  class coppclass-filemanagement
  class coppclass-bgp
    police cir 80000 bc 8000 be 8000
    conform-action transmit
    exceed-action drop
  class coppclass-management
    police cir 10000000 bc 100000 be 100000
    conform-action transmit
    exceed-action drop
  class coppclass-monitoring
    police cir 500000 bc 5000 be 5000
    conform-action transmit
    exceed-action drop
  class coppclass-critical-app
    police cir 500000 bc 5000 be 5000
    conform-action transmit
    exceed-action drop
  class class-default
--More--
May 13 20:18:16.964: %OER_BR-5-NOTICE: Prefix Learni  police cir 10000000 bc 10
0000 be 100000
    conform-action transmit
    exceed-action drop
!
!interface GigabitEthernet0/1
ip address 198.133.219.2 255.255.255.0
ip flow ingress
load-interval 60
duplex auto
speed auto
media-type rj45
no negotiation auto
flow-sampler csmars-sample
standby 0 ip 198.133.219.100
standby 0 preempt
!
interface GigabitEthernet0/2
description link to SP1 IE-7200-6
ip address 64.104.10.113 255.255.255.252
--More--
May 13 20:18:18.068: %OER_BR-5-NOTICE: Prefix Learni ip access-group 110 in
no ip redirects
no ip proxy-arp
ip flow ingress
load-interval 60
duplex auto
speed auto
media-type rj45

```

```

no negotiation auto
flow-sampler csmars-sample
no mop enabled
!
interface GigabitEthernet0/3
ip address 64.104.20.3 255.255.255.0
ip access-group 113 in
no ip redirects
no ip proxy-arp
ip flow ingress
load-interval 60
duplex auto
speed auto
media-type rj45
no negotiation auto
flow-sampler csmars-sample
no mop enabled
!
interface Ethernet1/0
no ip address
load-interval 60
shutdown
duplex half
!
interface Ethernet1/1
no ip address
shutdown
duplex half
!
interface Ethernet1/2
no ip address
shutdown
duplex half
!
interface Ethernet1/3
no ip address
shutdown
duplex half
!
interface Ethernet1/4
no ip address
shutdown
duplex half
!
interface Ethernet1/5
no ip address
shutdown
duplex half
!
interface Ethernet1/6
no ip address
shutdown
duplex half
!
interface Ethernet1/7
ip address 10.242.51.73 255.255.255.0
ip access-group 133 in
ip access-group 134 out
duplex full
!
interface FastEthernet2/0
no ip address
shutdown
duplex half

```

```

!
router bgp 30000
  bgp log-neighbor-changes
  neighbor 64.104.10.114 remote-as 30001
  neighbor 64.104.10.114 ttl-security hops 2
  neighbor 64.104.10.114 password 7 <encrypted password>
  neighbor 64.104.20.4 remote-as 30000
  maximum-paths ibgp 3
!
address-family ipv4
  neighbor 64.104.10.114 activate
  neighbor 64.104.10.114 route-map my_routes out
  neighbor 64.104.20.4 activate
  neighbor 64.104.20.4 next-hop-self
  maximum-paths ibgp 3
  no auto-summary
  no synchronization
  network 198.133.219.0
exit-address-family
!
address-family nsap
  maximum-paths 3
  no synchronization
exit-address-family
!
ip forward-protocol nd
ip route 198.133.219.0 255.255.255.0 Null0
no ip http server
no ip http secure-server
!
ip as-path access-list 20 permit ^$
ip as-path access-list 20 deny .*
ip flow-cache timeout active 1
ip flow-export source Ethernet1/7
ip flow-export version 5
ip flow-export destination 10.242.51.99 2055
!
ip tacacs source-interface Ethernet1/7
!
ip access-list extended coppacl-bgp
  remark BGP traffic class
  permit tcp host 64.104.10.114 host 64.104.10.113 eq bgp
  permit tcp host 64.104.10.114 eq bgp host 64.104.10.113
ip access-list extended coppacl-critical-app
  remark CoPP critical apps traffic class
  permit ip 10.242.0.0 0.0.255.255 host 224.0.0.2
ip access-list extended coppacl-filemanagement
  remark CoPP File transfer traffic class
  permit tcp any eq ftp host 10.242.51.73 gt 1023 established
  permit tcp 10.242.0.0 0.0.255.255 eq ftp-data host 10.242.51.73 gt 1023
  permit tcp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.73 gt 1023 established
  permit udp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.73 gt 1023
ip access-list extended coppacl-management
  remark CoPP management traffic class
  permit tcp 10.242.0.0 0.0.255.255 eq tacacs any established
  permit tcp 10.242.0.0 0.0.255.255 any eq 22
  permit tcp 10.242.0.0 0.0.255.255 any eq telnet
  permit udp 10.242.0.0 0.0.255.255 host 10.242.51.73 eq snmp
  permit udp host 10.242.51.45 host 10.242.51.73 eq ntp
ip access-list extended coppacl-monitoring
  remark CoPP monitoring traffic class
  permit icmp 10.242.0.0 0.0.255.255 any ttl-exceeded
  permit icmp 10.242.0.0 0.0.255.255 any port-unreachable
  permit icmp 10.242.0.0 0.0.255.255 any echo-reply

```

```

permit icmp 10.242.0.0 0.0.255.255 any echo
permit icmp 198.133.219.0 0.0.0.255 any ttl-exceeded
permit icmp 198.133.219.0 0.0.0.255 any echo-reply
permit icmp 198.133.219.0 0.0.0.255 any echo
!
logging alarm informational
logging trap errors
logging facility local6
logging 10.242.51.99
access-list 10 permit 10.242.51.92
access-list 55 remark ACL for SNMP access to device
access-list 55 permit 10.242.51.99
access-list 55 deny any log
access-list 110 deny tcp any 198.133.219.0 0.0.0.255 fragments
access-list 110 deny udp any 198.133.219.0 0.0.0.255 fragments
access-list 110 deny icmp any 198.133.219.0 0.0.0.255 fragments
access-list 110 deny ip host 0.0.0.0 any
access-list 110 deny ip 127.0.0.0 0.255.255.255 any
access-list 110 deny ip 192.0.2.0 0.0.0.255 any
access-list 110 deny ip 224.0.0.0 31.255.255.255 any
access-list 110 deny ip 10.0.0.0 0.255.255.255 any
access-list 110 deny ip 192.168.0.0 0.0.255.255 any
access-list 110 permit tcp host 64.104.10.114 host 64.104.10.113 eq bgp
access-list 110 permit tcp host 64.104.10.114 eq bgp host 64.104.10.113
--More--
May 13 20:19:18.964: %OER_BR-5-NOTICE: Prefix Learnia
access-list 110 deny ip
8.133.219.0 0.0.0.255 any
access-list 110 deny ip 10.240.0.0 0.15.255.255 any
access-list 110 permit ip any any
access-list 111 remark ACL for SSH
access-list 111 permit tcp 10.242.0.0 0.0.255.255 any eq 22
access-list 111 deny ip any any log
access-list 112 permit tcp host 10.242.51.95 any eq 22
access-list 112 deny ip any any log-input
access-list 113 deny tcp any 198.133.219.0 0.0.0.255 fragments
access-list 113 deny icmp any 198.133.219.0 0.0.0.255 fragments
access-list 113 deny ip host 0.0.0.0 any
access-list 113 deny ip 127.0.0.0 0.255.255.255 any
access-list 113 deny ip 192.0.2.0 0.0.0.255 any
access-list 113 deny ip 224.0.0.0 31.255.255.255 any
access-list 113 deny ip 10.0.0.0 0.255.255.255 any
access-list 113 deny ip 172.16.0.0 0.15.255.255 any
access-list 113 deny ip 192.168.0.0 0.0.255.255 any
access-list 113 permit tcp host 64.104.20.4 host 64.104.20.3 eq bgp
access-list 113 permit tcp host 64.104.20.4 eq bgp host 64.104.20.3
access-list 113 deny ip 198.133.219.0 0.0.0.255 any
access-list 113 permit ip any any
access-list 113 deny udp any 198.133.219.0 0.0.0.255 fragments
access-list 133 permit icmp 10.242.0.0 0.0.255.255 host 10.242.51.73 ttl-exce
d
access-list 133 permit icmp 10.242.0.0 0.0.255.255 host 10.242.51.73 port-unr
hable
access-list 133 permit icmp 10.242.0.0 0.0.255.255 host 10.242.51.73 echo-rep
access-list 133 permit icmp 10.242.0.0 0.0.255.255 host 10.242.51.73 echo
access-list 133 permit tcp 10.242.0.0 0.0.255.255 eq tacacs host 10.242.51.73
tablished
access-list 133 permit tcp 10.242.0.0 0.0.255.255 host 10.242.51.73 eq tacacs
access-list 133 permit udp 10.242.0.0 0.0.255.255 host 10.242.51.73 eq ntp
access-list 133 permit tcp 10.242.0.0 0.0.255.255 host 10.242.51.73 eq 22
access-list 133 permit tcp 10.242.0.0 0.0.255.255 eq ftp host 10.242.51.73 gt
23 established
access-list 133 permit tcp 10.242.0.0 0.0.255.255 eq ftp-data host 10.242.51.
gt 1023
access-list 133 permit tcp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.73 g

```

```

023 established
access-list 133 permit udp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.73 g
023
access-list 133 permit udp host 10.242.51.99 host 10.242.51.73 eq snmp
access-list 133 deny ip any any log
access-list 134 permit ip host 10.242.51.73 10.242.0.0 0.0.255.255
access-list 134 deny ip any any log
access-list 199 remark log for spoofed packets
access-list 199 deny ip any any log
snmp-server community csmars RO 55
snmp-server ifindex persist
snmp-server enable traps cpu threshold
snmp-server host 10.242.51.99 csmars cpu
no cdp run

!
!
!
!
route-map my_routes permit 10
  match as-path 20
!
!
!
tacacs-server host 10.242.51.94 single-connection key 7 02050D4808095E731F
tacacs-server key 7 030752180500
control-plane host
  management-interface Ethernet1/7 allow ftp http https ssh tftp snmp
!
control-plane
  service-policy input copp-policy
--More--
May 13 20:20:20.124: %OER_BR-5-NOTICE: Prefix Learn!          D
!
7200-3
!
!
!
gatekeeper
  shutdown
!
banner login ^C
UNAUTHORIZED ACCESS TO THIS DEVICE IS PROHIBITED
You must have explicit, authorized permission to access or configure this device
.
Unauthorized attempts and actions to access or use this system may result in civil and/or criminal penalties.
All activities performed on this device are logged and monitored.^C
!
line con 0
  session-timeout 3
  exec-timeout 3 0
  login authentication authen-exec-list
  transport output all
  stopbits 1
line aux 0
  transport output all
  stopbits 1
line vty 0 3
  session-timeout 3
  access-class 111 in
  exec-timeout 3 0
  password 7 <encrypted password>
  authorization commands 15 author-15-list

```



```

authorization exec author-exec-list
login authentication authen-exec-list
transport preferred none
transport input ssh
transport output none
line vty 4
 session-timeout 3
 access-class 112 in
 exec-timeout 3 0
 password 7 <encrypted password>
 authorization commands 15 author-15-list
 authorization exec author-exec-list
 login authentication authen-exec-list
 transport preferred none
 transport input ssh
 transport output none
line vty 5 15
 no exec
!
exception protocol ftp
exception dump 172.26.129.252
process cpu threshold type total rising 80 interval 5 falling 20 interval 5
process cpu statistics limit entry-percentage 40 size 300
ntp authentication-key 10 md5 <encrypted password>
ntp authenticate
ntp source Ethernet1/7
ntp server 10.242.51.45
end!
!
!
!

7200-4
Current configuration : 11692 bytes
!
! Last configuration change at 10:27:52 EST Tue Mar 10 2009 by admin
! NVRAM config last updated at 17:50:29 EST Fri Feb 27 2009 by admin
!
upgrade fpd auto
version 12.4
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
!
hostname IE-7200-4
!
boot-start-marker
boot system disk2:c7200-adventerprisek9-mz.124-20.T1
boot-end-marker
!
logging message-counter syslog
logging rate-limit 1 except errors
no logging console
enable secret 5 <encrypted password>.
!
aaa new-model
!
!
aaa group server tacacs+ tacacs-group
 server 10.242.51.94
!
aaa authentication login authen-exec-list group tacacs-group local-case
aaa authentication enable default group tacacs-group enable

```

```
aaa authorization exec author-exec-list group tacacs-group if-authenticated
aaa authorization commands 15 author-15-list group tacacs-group none
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group tacacs-group
aaa accounting commands 15 default start-stop group tacacs-group
aaa accounting system default start-stop group tacacs-group
!
!
aaa session-id common
clock timezone EST -4
no ip source-route
ip cef
!
!
!
!
no ip bootp server
ip domain name cisco.com
no ipv6 cef
!
multilink bundle-name authenticated
!
flow-sampler-map csmars-sample
mode random one-out-of 100
!
!
key chain Internet
key 10
key-string 7 110A1016141D
key chain zebra
key 1
key-string 7 02160249
!
!
!
!
!
!
!
!
!
!
!
!
oer border
logging
local GigabitEthernet0/1
master 198.133.219.5 key-chain zebra
!
!
memory reserve critical 1000
memory free low-watermark processor 91492
memory free low-watermark IO 6710
username admin privilege 15 secret 5 <encrypted password>
username csmars privilege 15 secret 5 <encrypted password>
archive
log config
hidekeys
!
!
!
!
!
```

```

ip ftp username stenneti
ip ftp password 7 <encrypted password>
ip ssh source-interface FastEthernet6/0
!
class-map match-all coppclass-critical-app
  match access-group name coppacl-critical-app
class-map match-all coppclass-bgp
  match access-group name coppacl-bgp
class-map match-all coppclass-monitoring
  match access-group name coppacl-monitoring
class-map match-all coppclass-filemanagement
  match access-group name coppacl-filemanagement
class-map match-all coppclass-management
  match access-group name coppacl-management
!
!
policy-map copp-policy
  class coppclass-filemanagement
  class coppclass-bgp
    police cir 80000 bc 8000 be 8000
      conform-action transmit
      exceed-action drop
  class coppclass-management
    police cir 10000000 bc 100000 be 100000
      conform-action transmit
      exceed-action drop
  class coppclass-monitoring
    police cir 500000 bc 5000 be 5000
      conform-action transmit
      exceed-action drop
  class coppclass-critical-app
    police cir 500000 bc 5000 be 5000
      conform-action transmit
      exceed-action drop
  class class-default
    police cir 10000000 bc 100000 be 100000
      conform-action transmit
      exceed-action drop
!
!
!
!
!
interface GigabitEthernet0/1
  ip address 198.133.219.3 255.255.255.0
  ip flow ingress
  duplex auto
  speed auto
  media-type rj45
  no negotiation auto
  flow-sampler csmars-sample
  standby 0 ip 198.133.219.100
  standby 0 priority 90
  standby 0 preempt
!
interface GigabitEthernet0/2
  description link to SP2 IE-7200-7
  ip address 64.104.10.125 255.255.255.252
  ip access-group 110 in
  no ip redirects
  no ip proxy-arp
  ip flow ingress
  load-interval 60
  duplex auto

```

```

speed auto
media-type rj45
no negotiation auto
flow-sampler csmars-sample
no cdp enable
no mop enabled
!
interface GigabitEthernet0/3
ip address 64.104.20.4 255.255.255.0
ip flow ingress
load-interval 30
duplex auto
speed auto
media-type rj45
no negotiation auto
flow-sampler csmars-sample
!
interface Ethernet1/0
description OOB IE-SW-6 fast 1
no ip address
shutdown
duplex half
!
interface Ethernet1/1
no ip address
duplex half
!
interface Ethernet1/1.102
!
interface Ethernet1/1.103
encapsulation dot1Q 103
ip address 64.104.10.114 255.255.255.252
!
interface Ethernet1/2
no ip address
shutdown
duplex half
!
interface Ethernet1/3
no ip address
shutdown
duplex half
!
interface Ethernet1/4
no ip address
shutdown
duplex half
!
interface Ethernet1/5
no ip address
shutdown
duplex half
!
interface Ethernet1/6
no ip address
shutdown
duplex half
!
interface Ethernet1/7
no ip address
duplex full
!
interface Ethernet5/0
no ip address

```

```

shutdown
duplex half
!
interface Ethernet5/1
no ip address
shutdown
duplex half
!
interface Ethernet5/2
no ip address
shutdown
duplex half
!
interface Ethernet5/3
no ip address
shutdown
duplex half
!
interface Ethernet5/4
no ip address
shutdown
duplex half
!
interface Ethernet5/5
no ip address
shutdown
duplex half
!
interface Ethernet5/6
no ip address
shutdown
duplex half
!
interface Ethernet5/7
no ip address
duplex full
!
interface FastEthernet6/0
ip address 10.242.51.74 255.255.255.0
ip access-group 133 in
ip access-group 134 out
duplex full
!
router bgp 30000
bgp log-neighbor-changes
bgp bestpath as-path multipath-relax
neighbor 64.104.10.126 remote-as 30002
neighbor 64.104.10.126 ttl-security hops 1
neighbor 64.104.10.126 password 7 <encrypted password>
neighbor 64.104.20.3 remote-as 30000
maximum-paths 3
maximum-paths ibgp 3
address-family ipv4
neighbor 64.104.10.126 activate
neighbor 64.104.10.126 route-map my_routes out
neighbor 64.104.20.3 activate
neighbor 64.104.20.3 next-hop-self
maximum-paths 3
maximum-paths ibgp 3
no auto-summary
no synchronization
network 198.133.219.0
exit-address-family
!

```

```

address-family nsap
  maximum-paths 3
  no synchronization
exit-address-family
!
ip forward-protocol nd
ip route 198.133.219.0 255.255.255.0 Null0
no ip http server
no ip http secure-server
!
ip as-path access-list 20 permit ^$
ip as-path access-list 20 deny .*
ip flow-cache timeout active 1
ip flow-export source FastEthernet6/0
ip flow-export version 5
ip flow-export destination 10.242.51.99 2055
!
ip tacacs source-interface FastEthernet6/0
!
ip access-list extended coppacl-bgp
  remark BGP traffic class
  permit tcp host 64.104.10.126 host 64.104.10.125 eq bgp
  permit tcp host 64.104.10.126 eq bgp host 64.104.10.125
ip access-list extended coppacl-filemanagement
  remark CoPP File transfer traffic class
  permit tcp any eq ftp host 10.242.51.74 gt 1023 established
  permit tcp 10.242.0.0 0.0.255.255 eq ftp-data host 10.242.51.74 gt 1023
  permit tcp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.74 gt 1023 established
  permit udp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.74 gt 1023
ip access-list extended coppacl-management
  remark CoPP management traffic class
  permit tcp 10.242.0.0 0.0.255.255 eq tacacs any established
  permit tcp 10.242.0.0 0.0.255.255 any eq 22
  permit tcp 10.242.0.0 0.0.255.255 any eq telnet
  permit udp 10.242.0.0 0.0.255.255 host 10.242.51.74 eq snmp
  permit udp host 10.242.151.45 host 10.242.51.74 eq ntp
ip access-list extended coppacl-monitoring
  remark CoPP monitoring traffic class
  permit icmp 10.242.0.0 0.0.255.255 any ttl-exceeded
  permit icmp 10.242.0.0 0.0.255.255 any port-unreachable
  permit icmp 10.242.0.0 0.0.255.255 any echo-reply
  permit icmp 10.242.0.0 0.0.255.255 any echo
!
logging alarm informational
logging trap critical
logging facility local6
logging 10.242.51.99
access-list 55 remark ACL for SNMP access to device
access-list 55 permit 10.242.51.99
access-list 55 deny any log
access-list 110 deny tcp any 198.133.219.0 0.0.0.255 fragments
access-list 110 deny udp any 198.133.219.0 0.0.0.255 fragments
access-list 110 deny icmp any 198.133.219.0 0.0.0.255 fragments
access-list 110 deny ip host 0.0.0.0 any
access-list 110 deny ip 127.0.0.0 0.255.255.255 any
access-list 110 deny ip 192.0.2.0 0.0.0.255 any
access-list 110 deny ip 224.0.0.0 31.255.255.255 any
access-list 110 deny ip 10.0.0.0 0.255.255.255 any
access-list 110 deny ip 172.16.0.0 0.15.255.255 any
access-list 110 deny ip 192.168.0.0 0.0.255.255 any
access-list 110 permit tcp host 64.104.10.126 host 64.104.10.125 eq bgp
access-list 110 permit tcp host 64.104.10.126 eq bgp host 64.104.10.125
access-list 110 deny ip 198.133.219.0 0.0.0.255 any
access-list 110 permit ip any any

```

```

access-list 111 remark ACL for SSH
access-list 111 permit tcp 10.242.0.0 0.0.255.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 permit tcp host 10.242.51.94 any eq 22
access-list 112 deny ip any any log-input
access-list 133 permit icmp 10.242.0.0 0.0.255.255 host 10.242.51.74 ttl-exceede
d
access-list 133 permit icmp 10.242.0.0 0.0.255.255 host 10.242.51.74 port-unreac
hable
access-list 133 permit icmp 10.242.0.0 0.0.255.255 host 10.242.51.74 echo-reply
access-list 133 permit icmp 10.242.0.0 0.0.255.255 host 10.242.51.74 echo
access-list 133 permit tcp 10.242.0.0 0.0.255.255 eq tacacs host 10.242.51.74 es
tablished
access-list 133 permit tcp 10.242.0.0 0.0.255.255 host 10.242.51.74 eq tacacs
access-list 133 permit udp 10.242.0.0 0.0.255.255 host 10.242.51.74 eq ntp
access-list 133 permit tcp 10.242.0.0 0.0.255.255 host 10.242.51.74 eq 22
access-list 133 permit tcp 10.242.0.0 0.0.255.255 eq ftp host 10.242.51.74 gt 10
23 established
access-list 133 permit tcp 10.242.0.0 0.0.255.255 eq ftp-data host 10.242.51.74
gt 1023
access-list 133 permit tcp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.74 gt 1
023 established
access-list 133 permit udp 10.242.0.0 0.0.255.255 gt 1023 host 10.242.51.74 gt 1
023
access-list 133 permit udp host 10.242.51.99 host 10.242.51.74 eq snmp
access-list 133 deny ip any any log
access-list 134 permit ip host 10.242.51.74 10.242.0.0 0.0.255.255
access-list 134 deny ip any any log
access-list 199 remark logging for spoofed packets
access-list 199 deny ip any any log
snmp-server community csmars RO 55
snmp-server ifindex persist
snmp-server enable traps cpu threshold
snmp-server host 10.242.51.74 csmars cpu
snmp-server host 10.242.51.99 csmars cpu
no cdp run

!
!
!
!
route-map my_routes permit 10
match as-path 20
!
!
!
tacacs-server host 10.242.51.94 single-connection key 7 110A1016141D5A5E57
control-plane host
management-interface FastEthernet6/0 allow ftp http https ssh tftp snmp
!
!
control-plane
service-policy input copp-policy
!
!
!
!
!
!
!
gatekeeper
shutdown
!
banner login ^CC

```

```

UNAUTHORIZED ACCESS TO THIS DEVICE IS PROHIBITED
You must have explicit, authorized permission to access or configure this device
.
Unauthorized attempts and actions to access or use this system may result in civil and/or criminal penalties.
All activities performed on this device are logged and monitored.
^C
!
line con 0
  session-timeout 3
  exec-timeout 3 0
  login authentication authen-exec-list
  transport output all
  stopbits 1
line aux 0
  transport output all
  stopbits 1
line vty 0 3
  session-timeout 10
  access-class 111 in
  password 7 <encrypted password>
  authorization commands 15 author-15-list
  authorization exec author-exec-list
  login authentication authen-exec-list
  transport preferred none
  transport input ssh
  transport output none
line vty 4
  session-timeout 3
  access-class 112 in
  password 7 <encrypted password>
  authorization commands 15 author-15-list
  authorization exec author-exec-list
  login authentication authen-exec-list
  transport preferred none
  transport input ssh
  transport output none
line vty 5 15
  no exec
!
process cpu threshold type total rising 80 interval 5 falling 20 interval 5
process cpu statistics limit entry-percentage 40 size 300
ntp authentication-key 10 md5 <encrypted password>
ntp trusted-key 10
ntp source FastEthernet6/0
ntp server 10.242.51.45
end

IE-7200-4#

```

PfR Master Controller

```

7200-5
Current configuration : 7359 bytes
!
! Last configuration change at 10:27:58 EST Mon Apr 27 2009
! NVRAM config last updated at 10:33:20 EST Fri Feb 27 2009
!
upgrade fpd auto
version 12.4
service tcp-keepalives-in
service timestamps debug datetime msec

```



```
service timestamps log datetime msec
service password-encryption
!
hostname IE-7200-5
!
boot-start-marker
boot system disk2:c7200p-adventerprisek9-mz.124-20.T1
boot system flash bootflash:c7200p-adventerprisek9-mz.124-20.T1
boot-end-marker
!
logging message-counter syslog
enable secret 5 <encrypted password>
!
aaa new-model
!
!
!
!
!
aaa session-id common
clock timezone EST -5
ip source-route
ip cef
!
!
!
!
no ip bootp server
ip domain name cisco.com
login block-for 100 attempts 5 within 50
login quiet-mode access-class 10
login on-failure log
login on-success log
no ipv6 cef
!
multilink bundle-name authenticated
!
!
key chain zebra
  key 1
    key-string 7 06160933
!
!
!
!
!
!
!
!
!
!
!
oer master
no keepalive
!
border 198.133.219.2 key-chain zebra
  interface GigabitEthernet0/1 internal
  interface GigabitEthernet0/2 external
  interface GigabitEthernet0/3 external
!
border 198.133.219.3 key-chain zebra
  interface GigabitEthernet0/3 external
  interface GigabitEthernet0/1 internal
  interface GigabitEthernet0/2 external
```

```

!
learn
  throughput
  delay
  periodic-interval 0
  monitor-period 1
  aggregation-type prefix-length 32
no max range receive
mode route control
mode monitor passive
mode select-exit best
!
!
!
memory reserve critical 1000
memory free low-watermark processor 88000
memory free low-watermark IO 6710
username admin privilege 15 password 7 <encrypted password>
archive
  log config
  hidekeys
!
!
!
!
!
ip ssh time-out 60
ip ssh authentication-retries 2
ip scp server enable
!
class-map match-all coppclass-critical-app
  match access-group name coppacl-critical-app
class-map match-all coppclass-bgp
  match access-group name coppacl-bgp
class-map match-all coppclass-monitoring
  match access-group name coppacl-monitoring
class-map match-all coppclass-filemanagement
  match access-group name coppacl-filemanagement
class-map match-all coppclass-management
  match access-group name coppacl-management
!
!
policy-map copp-policy
  class coppclass-filemanagement
  class coppclass-bgp
    police cir 80000 bc 8000 be 8000
      conform-action transmit
      exceed-action drop
  class coppclass-management
    police cir 10000000 bc 100000 be 100000
      conform-action transmit
      exceed-action drop
  class coppclass-monitoring
    police cir 500000 bc 5000 be 5000
      conform-action transmit
      exceed-action drop
  class coppclass-critical-app
    police cir 500000 bc 5000 be 5000
      conform-action transmit
      exceed-action drop
  class class-default
    police cir 10000000 bc 100000 be 100000
      conform-action transmit
      exceed-action drop

```

```

!
!
!
!
!
interface Loopback0
 ip address 100.100.100.100 255.255.255.255
!
interface GigabitEthernet0/1
 ip address 198.133.219.5 255.255.255.0
 duplex auto
 speed auto
 media-type rj45
 negotiation auto
!
interface FastEthernet0/2
 no ip address
 duplex auto
 speed auto
!
interface GigabitEthernet0/2
 ip address 10.1.2.1 255.255.255.0
 duplex auto
 speed auto
 media-type rj45
 negotiation auto
!
interface GigabitEthernet0/3
 ip address 172.26.191.175 255.255.255.0
 duplex auto
 speed auto
 media-type rj45
 negotiation auto
!
interface FastEthernet1/0
 no ip address
 duplex half
!
interface Ethernet2/0
 no ip address
 shutdown
 duplex half
!
interface Ethernet2/1
 no ip address
 shutdown
 duplex half
!
interface Ethernet2/2
 no ip address
 shutdown
 duplex half
!
interface Ethernet2/3
 no ip address
 shutdown
 duplex half
!
interface Ethernet2/4
 no ip address
 shutdown
 duplex half
!
interface Ethernet2/5

```

```

no ip address
shutdown
duplex half
!
interface Ethernet2/6
no ip address
shutdown
duplex half
!
interface Ethernet2/7
no ip address
shutdown
duplex half
!
ip forward-protocol nd
ip route 64.0.0.0 255.0.0.0 198.133.219.2
ip route 64.104.10.124 255.255.255.252 198.133.219.3
ip route 172.0.0.0 255.0.0.0 172.26.191.1
no ip http server
no ip http secure-server
!
!
!
ip access-list extended coppacl-critical-app
remark CoPP critical apps traffic class
permit ip 172.26.0.0 0.0.255.255 host 224.0.0.2
ip access-list extended coppacl-filemanagement
remark CoPP File transfer traffic class
permit tcp any eq ftp host 172.26.191.175 gt 1023 established
permit tcp 172.26.0.0 0.0.255.255 eq ftp-data host 172.26.191.175 gt 1023
permit tcp 172.26.0.0 0.0.255.255 gt 1023 host 172.26.191.175 gt 1023 establish
ed
permit udp 172.26.0.0 0.0.255.255 gt 1023 host 172.26.191.175 gt 1023
ip access-list extended coppacl-management
remark CoPP management traffic class
permit tcp 172.26.0.0 0.0.255.255 eq tacacs any established
permit tcp 172.26.0.0 0.0.255.255 any eq 22
permit tcp 172.26.0.0 0.0.255.255 any eq telnet
permit udp 172.26.0.0 0.0.255.255 host 172.26.191.175 eq snmp
permit udp host 172.26.129.252 host 172.26.191.175 eq ntp
ip access-list extended coppacl-monitoring
remark CoPP monitoring traffic class
permit icmp 172.26.0.0 0.0.255.255 any ttl-exceeded
permit icmp 172.26.0.0 0.0.255.255 any port-unreachable
permit icmp 172.26.0.0 0.0.255.255 any echo-reply
permit icmp 172.26.0.0 0.0.255.255 any echo
permit icmp 198.133.219.0 0.0.0.255 any ttl-exceeded
permit icmp 198.133.219.0 0.0.0.255 any port-unreachable
permit icmp 198.133.219.0 0.0.0.255 any echo-reply
permit icmp 198.133.219.0 0.0.0.255 any echo
!
logging alarm informational
logging trap errors
logging facility local6
logging 172.26.191.94
access-list 10 permit 172.26.191.92
access-list 110 deny tcp any 198.133.219.0 0.0.0.255 fragments
access-list 110 deny udp any 198.133.219.0 0.0.0.255 fragments
access-list 110 deny icmp any 198.133.219.0 0.0.0.255 fragments
access-list 110 deny ip host 0.0.0.0 any
access-list 110 deny ip 127.0.0.0 0.255.255.255 any
access-list 110 deny ip 192.0.2.0 0.0.0.255 any
access-list 110 deny ip 224.0.0.0 31.255.255.255 any
access-list 110 deny ip 10.0.0.0 0.255.255.255 any

```

```

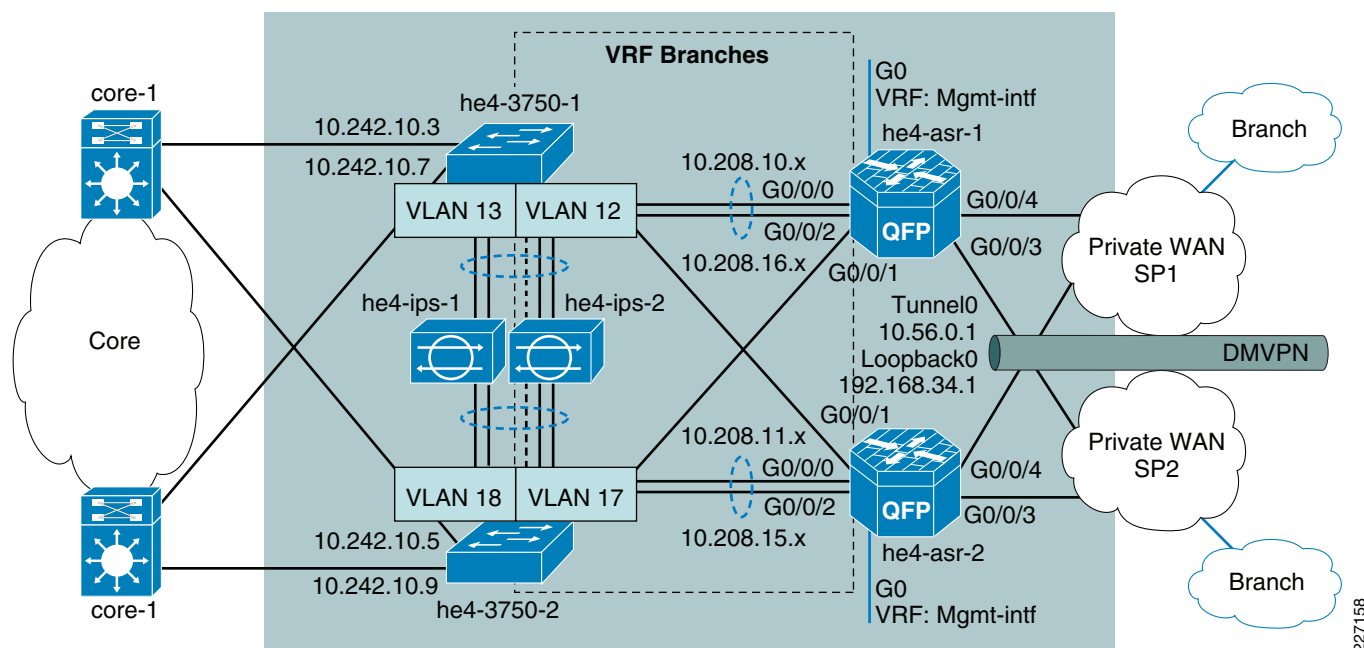
access-list 110 deny ip 172.16.0.0 0.15.255.255 any
access-list 110 deny ip 192.168.0.0 0.0.255.255 any
access-list 110 permit ip any any
access-list 111 remark ACL for SSH
access-list 111 permit tcp 172.26.0.0 0.0.255.255 any eq 22
access-list 112 permit tcp host 172.26.191.92 any eq 22
access-list 112 deny ip any any log
access-list 199 remark log for spoofed packets
access-list 199 deny ip any any log
snmp-server ifindex persist
snmp-server enable traps cpu threshold
snmp-server host 172.26.191.94 public cpu
no cdp run

!
!
!
!
!
!
tacacs-server host 172.26.191.94
tacacs-server key 7 <encrypted password>
control-plane host
    management-interface GigabitEthernet0/3 allow ftp http https ssh tftp snmp beep
    telnet t11
!
!
control-plane
    service-policy input copp-policy
!
!
!line con 0
    stopbits 1
line aux 0
    stopbits 1
line vty 0 4
    password 7 <encrypted password>
    transport input ssh
    transport output none
!
ntp server 172.26.129.252
end

```

Enterprise WAN Edge

Figure 6 Enterprise WAN Edge Network Diagram



227158

Unified WAN Platform ASR1004

```

He4-asr-1
he4-asr-1#sh run
Building configuration...

Current configuration : 344477 bytes
!
! Last configuration change at 15:31:48 UTC Wed Jun 10 2009 by sherelle-admin
! NVRAM config last updated at 15:32:33 UTC Wed Jun 10 2009 by sherelle-admin
!
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service compress-config
!
hostname he4-asr-1
!
boot-start-marker
boot system flash bootflash:asr1000rp1-adventerprisek9.02.03.00.122-33.XNC.bin
boot config bootflash:he4-asr-1-config
boot-end-marker
!
vrf definition Mgmt-intf
!
address-family ipv4
exit-address-family
!

```

```

address-family ipv6
exit-address-family
!
logging buffered 65535
logging rate-limit all 10
no logging console
enable secret <strong-secret>
!
aaa new-model
!
!
aaa group server tacacs+ Admin-TAC+
server-private <AAA-Server-IP> single-connection timeout 1 key <strong-key>
ip vrf forwarding Mgmt-intf
!
aaa authentication login AuthenExec group Admin-TAC+ local-case
aaa authentication enable default group Admin-TAC+ enable
aaa authorization console
aaa authorization exec AuthorExec group Admin-TAC+ if-authenticated
aaa authorization commands 15 default group Admin-TAC+ if-authenticated
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group Admin-TAC+
aaa accounting commands 15 default start-stop group Admin-TAC+
aaa accounting system default start-stop group Admin-TAC+
!
!
!
!
!
aaa session-id common
process cpu threshold type total rising 65 interval 5
process cpu statistics limit entry-percentage 40 size 300
ip subnet-zero
no ip source-route
no ip bootp server
no ip domain lookup
ip domain name cisco.com
ip host a-subca 10.204.0.4
ip host b-subca 10.204.0.5
!
!
login block-for 100 attempts 5 within 50
login delay 1
login quiet-mode access-class 10
login on-failure log
l2tp congestion-control
!
!
!
!
flow-sampler-map CSMARS-SAMPLE
mode random one-out-of 100
multilink bundle-name authenticated
!
key chain eigrp-auth
key 10
key-string <strong-key>
call admission limit 70000
!
crypto pki trustpoint b-subca
enrollment url http://b-subca:12345
revocation-check crl
auto-enroll 70
storage bootflash:

```

```

!
crypto pki trustpoint a-subca
  enrollment url http://a-subca:12345
  revocation-check crl
  auto-enroll 70
  storage bootflash:
!
!
crypto pki certificate chain b-subca
certificate 04CE
  308201FC 30820165 A0030201 02020204 CE300D06 092A8648 86F70D01 01040500
  30123110 300E0603 55040313 07622D73 75626361 301E170D 30393033 30393139
  30333530 5A170D31 32303330 35313731 3230365A 30243122 30200609 2A864886
  F70D0109 02161368 65342D61 73722D31 2E636973 636F2E63 6F6D3081 9F300D06
  092A8648 86F70D01 01010500 03818D00 30818902 818100BE 67052AB8 F4F92FAB
  3A6F2D54 F5309889 9D837D63 92778331 942D179F B22AA182 5E3281F6 1F510894
  F0E9CDC7 F0287D28 ACA1DB03 55E7F9C7 2E0E9C4B A2F7876E 31B643D1 08675119
  26B4F9EB 368D1087 C39322EF 9B7F41F3 50B1BD94 9BED00BC B349CFA8 0A381FAA
  EB1D67F5 0F3B0484 A54AFA70 65486655 B5E42C78 C79B6B02 03010001 A34F304D
  300B0603 551D0F04 04030205 A0301F06 03551D23 04183016 80149432 4DB8DB89
  8B01E7B7 F9AE2FC7 324AA2DD 0E45301D 0603551D 0E041604 140ED020 7D1DBD63
  06C82378 09BF93F5 561ACD50 5B300D06 092A8648 86F70D01 01040500 03818100
  2D236C82 3CE98F0C B13E30CE BD2965A4 E0BDB070 5CFCD04C 35535245 720D5FEE
  F8211725 D710F337 BC8C21B0 517BBD0E C871A29C 06AF0D6F 2AF5F758 9C484E0F
  FA3EF830 4D850545 2C177FCB 180F4384 E7B4390B AAF4CB65 568A8CF3 35CD1019
  D843C681 6088CCFC D3199CED 4CD88FC2 2899817A CCA840B7 ED9C95BE 0CE4659B
    quit
certificate ca 07
  3082023D 308201A6 A0030201 02020107 300D0609 2A864886 F70D0101 04050030
  12311030 0E060355 04031307 726F6F74 2D636130 1E170D30 39303330 36313731
  3230365A 170D3132 30333035 31373132 30365A30 12311030 0E060355 04031307
  622D7375 62636130 819F300D 06092A86 4886F70D 01010105 0003818D 00308189
  02818100 B345E7D2 3235F2B7 FAEF339A 9C1EB12B 632E02F8 2B71E797 6DDDD37E
  78497F4E 61E872EC C7CFC691 65DC896F 788517A9 F5235D23 A4B809CF CC6A98DE
  4AA451EC 893FB141 C65A1B30 8EB4DF84 367E92D9 BBAFEDCB 14DEF557 B9DFB3E7
  1F564D6F 469BE4B5 6525EEA0 B0F33875 1DAA34DF 9E3F6CAB 2E46E9BB 3598957D
  5EB832EB 02030100 01A381A2 30819F30 3F060355 1D1F0438 30363034 A032A030
  862E6874 74703A2F 2F313732 2E32362E 3138302E 31302F73 6F6C7574 696F6E73
  2F76706E 2F726F6F 742D6361 2E63726C 300F0603 551D1301 01FF0405 30030101
  FF300B06 03551D0F 04040302 0780301F 0603551D 23041830 168014F9 401E5590
  5FE7B694 B778040C BFC8D53C 5A52FB30 1D060355 1D0E0416 04149432 4DB8DB89
  8B01E7B7 F9AE2FC7 324AA2DD 0E45300D 06092A86 4886F70D 01010405 00038181
  00895749 ECA7E549 346056D6 6BDF3CA5 1EFC1844 5194AB78 FA4110D7 BEFFC46E
  84449F57 32B48BC0 F327C683 93A232C2 9CB3971B 17EEE640 71E6E292 83BAE11E
  A777070E 1FAA369D 18C38E2A 95FE4072 773E2130 05A535FA 786051B4 37D0638A
  4B1904FC C782FBC2 6F02EADF 73A4DC0C D541C6E9 A24F0EF9 658EB77A 005781C5 32
    quit
crypto pki certificate chain a-subca
certificate 0339
  308201FC 30820165 A0030201 02020203 39300D06 092A8648 86F70D01 01040500
  30123110 300E0603 55040313 07612D73 75626361 301E170D 30393033 30393135
  31373536 5A170D31 32303330 35313531 3831355A 30243122 30200609 2A864886
  F70D0109 02161368 65342D61 73722D31 2E636973 636F2E63 6F6D3081 9F300D06
  092A8648 86F70D01 01010500 03818D00 30818902 818100BE 67052AB8 F4F92FAB
  3A6F2D54 F5309889 9D837D63 92778331 942D179F B22AA182 5E3281F6 1F510894
  F0E9CDC7 F0287D28 ACA1DB03 55E7F9C7 2E0E9C4B A2F7876E 31B643D1 08675119
  26B4F9EB 368D1087 C39322EF 9B7F41F3 50B1BD94 9BED00BC B349CFA8 0A381FAA
  EB1D67F5 0F3B0484 A54AFA70 65486655 B5E42C78 C79B6B02 03010001 A34F304D
  300B0603 551D0F04 04030205 A0301F06 03551D23 04183016 8014B905 2A3DFD58
  6A41C4F7 2CB07891 9FFDF860 CD7A301D 0603551D 0E041604 140ED020 7D1DBD63
  06C82378 09BF93F5 561ACD50 5B300D06 092A8648 86F70D01 01040500 03818100
  5128F79F 50BAA82B 34B11ED1 F6080A2C 3F6DD371 A2A0AD41 B50B2C85 4361307E
  3BD97878 D07FF5FD 97F1B247 33CD1E23 ACF07841 A06A85B9 5A38CD0C 1496DEA2
  23BF1963 99A71175 D153FDF3 475B766B 5B329FF1 22F3C43A E572F191 8D9FB0E0

```



```

AB1E01A3 4DF485A4 EA5E24EB 8B0EF05D 55801FA2 431B69FC 655D6C44 9ED8519D
quit
certificate ca 06
3082023D 308201A6 A0030201 02020106 300D0609 2A864886 F70D0101 04050030
12311030 0E060355 04031307 726F6F74 2D636130 1E170D30 39303330 36313531
3831355A 170D3132 30333035 31353138 31355A30 12311030 0E060355 04031307
612D7375 62636130 819F300D 06092A86 4886F70D 01010105 0003818D 00308189
02818100 B1B50AFC EBF7AA1F AC357241 B19557E7 51AF1FD3 C3C3FFCD 8D7649D9
37F14D98 8E00522A 2EDC1E20 3573EF8F E247FBC1 D886492C 13A10F56 0752DFA2
97BF5AB4 0B895B2B 39406CD7 960AD8ED 2984C640 F07951DD B719BD55 E102F558
B914E4C2 B870DED2 4B3AD1CB 5950533B 59286F8D 75F5224B 502A2752 06FA4D27
23C7B4FD 02030100 01A381A2 30819F30 3F060355 1D1F0438 30363034 A032A030
862E6874 74703A2F 2F313732 2E32362E 3138302E 31302F73 6F6C7574 696F6E73
2F76706E 2F726F6F 742D6361 2E63726C 300F0603 551D1301 01FF0405 30030101
FF300B06 03551D0F 04040302 0780301F 0603551D 23041830 168014F9 401E5590
5FE7B694 B778040C BFC8D53C 5A52FB30 1D060355 1D0E0416 0414B905 2A3DFD58
6A41C4F7 2CB07891 9FFDF860 CD7A300D 06092A86 4886F70D 01010405 00038181
001E6FAF D365A1B6 B50F36B5 91B64B40 9CA2B106 791BA8BC B226AD43 D8B063F2
F6974216 2C046899 AA855258 4698F9E5 7A63ECC0 7C9F0571 AD46EB20 F5C39CF5
F128964F B3E47ADE 00B9D82D C461F392 BCF6371B 4F384E60 3C325181 8243548A
48F99471 8DF2201A 7413969F BCF22EB6 E6BB66C0 DF7264FA C1D03F96 F4A0DF53 99
quit
crypto pki certificate storage bootflash:
memory reserve critical 1000
memory free low-watermark processor 181193
username admin privilege 15 secret <strong-secret>
username csmars privilege 15 secret <strong-secret>
!
redundancy
mode none
!
!
crypto isakmp policy 10
encr aes 256
group 2
!
crypto isakmp policy 20
encr aes 256
authentication pre-share
group 2
crypto isakmp key <strong-key> address 0.0.0.0 0.0.0.0
crypto isakmp keepalive 10
!
!
crypto ipsec transform-set vpn-test esp-aes esp-sha-hmac
!
crypto ipsec profile vpn-dmvpn
set transform-set vpn-test
!
!
crypto call admission limit ike sa 500
!
crypto call admission limit ike in-negotiation-sa 500
!
!
!
ip ftp source-interface GigabitEthernet0
ip ftp password <strong-password>
ip tftp source-interface GigabitEthernet0
ip ssh time-out 60
ip ssh authentication-retries 2
ip ssh source-interface GigabitEthernet0
ip scp server enable
!

```

```

class-map type inspect match-any frm-branch-class
  match access-group 102
class-map match-all coppclass-critical-app
  match access-group name coppacl-critical-app
class-map match-all coppclass-vpn
  match access-group name coppacl-vpn
class-map match-all Bulk-Data
  match ip dscp af11 af12
class-map match-all coppclass-igp
  match access-group name coppacl-igp
class-map match-all Interactive-Video
  match ip dscp af41 af42
class-map match-any Network-Control
  match ip dscp cs6
  match ip dscp cs2
class-map match-all Critical-Data
  match ip dscp af21 af22
class-map match-all r18-8-0517
  match access-group name r18-8-0517
class-map match-all r21-4-0603
  match access-group name r21-4-0603
class-map match-all r22-4-0633
  match access-group name r22-4-0633
class-map match-all r23-2-0661
  match access-group name r23-2-0661
class-map match-all r23-6-0665
  match access-group name r23-6-0665
class-map match-all r28-1-0810
  match access-group name r28-1-0810
class-map match-all r28-3-0812
  match access-group name r28-3-0812
class-map match-all r28-5-0814
  match access-group name r28-5-0814
class-map match-all r28-7-0816
  match access-group name r28-7-0816
class-map match-all r28-9-0818
  match access-group name r28-9-0818
class-map match-all r4-14-0103
  match access-group name r4-14-0103
class-map match-all r10-4-0273
  match access-group name r10-4-0273
class-map match-all r25-1-0720
  match access-group name r25-1-0720
class-map match-all r25-3-0722
  match access-group name r25-3-0722
class-map match-all r25-5-0724
  match access-group name r25-5-0724
class-map match-all r25-7-0726
  match access-group name r25-7-0726
class-map match-all r25-9-0728
  match access-group name r25-9-0728
class-map match-all r30-8-0877
  match access-group name r30-8-0877
class-map match-all r0
class-map match-all r13-4-0363
  match access-group name r13-4-0363
class-map match-all r14-8-0397
  match access-group name r14-8-0397
class-map match-all r23-1-0660
  match access-group name r23-1-0660
class-map match-all r23-3-0662
  match access-group name r23-3-0662
class-map match-all r23-5-0664
  match access-group name r23-5-0664

```

```

class-map match-all r23-7-0666
  match access-group name r23-7-0666
class-map match-all r23-9-0668
  match access-group name r23-9-0668
class-map match-all r28-2-0811
  match access-group name r28-2-0811
class-map match-all r28-6-0815
  match access-group name r28-6-0815
class-map match-all r29-4-0843
  match access-group name r29-4-0843
class-map match-all r4-24-0113
  match access-group name r4-24-0113
class-map match-all r25-2-0721
  match access-group name r25-2-0721
class-map match-all r25-6-0725
  match access-group name r25-6-0725
class-map match-all r26-4-0753
  match access-group name r26-4-0753
class-map match-all coppclass-monitoring
  match access-group name coppacl-monitoring
class-map match-all r3-12-0071
  match access-group name r3-12-0071
class-map match-all r13-1-0360
  match access-group name r13-1-0360
class-map match-all r13-3-0362
  match access-group name r13-3-0362
class-map match-all r13-5-0364
  match access-group name r13-5-0364
class-map match-all r13-7-0366
  match access-group name r13-7-0366
class-map match-all r13-9-0368
  match access-group name r13-9-0368
class-map match-all r19-8-0547
  match access-group name r19-8-0547
class-map match-all r21-2-0601
  match access-group name r21-2-0601
class-map match-all r21-6-0605
  match access-group name r21-6-0605
class-map match-all r22-2-0631
  match access-group name r22-2-0631
class-map match-all r22-6-0635
  match access-group name r22-6-0635
class-map match-all r23-4-0663
  match access-group name r23-4-0663
class-map match-all r24-8-0697
  match access-group name r24-8-0697
class-map match-all r29-1-0840
  match access-group name r29-1-0840
class-map match-all r29-3-0842
  match access-group name r29-3-0842
class-map match-all r29-5-0844
  match access-group name r29-5-0844
class-map match-all r29-7-0846
  match access-group name r29-7-0846
class-map match-all r29-9-0848
  match access-group name r29-9-0848
class-map match-all r4-12-0101
  match access-group name r4-12-0101
class-map match-all r4-16-0105
  match access-group name r4-16-0105
class-map match-all r4-21-0110
  match access-group name r4-21-0110
class-map match-all r4-23-0112
  match access-group name r4-23-0112

```

```
class-map match-all r4-25-0114
  match access-group name r4-25-0114
class-map match-all r4-27-0116
  match access-group name r4-27-0116
class-map match-all r4-29-0118
  match access-group name r4-29-0118
class-map match-all r10-2-0271
  match access-group name r10-2-0271
class-map match-all r10-6-0275
  match access-group name r10-6-0275
class-map match-all r26-1-0750
  match access-group name r26-1-0750
class-map match-all r26-3-0752
  match access-group name r26-3-0752
class-map match-all r26-5-0754
  match access-group name r26-5-0754
class-map match-all r26-7-0756
  match access-group name r26-7-0756
class-map match-all r26-9-0758
  match access-group name r26-9-0758
class-map match-all r3-11-0070
  match access-group name r3-11-0070
class-map match-all r13-2-0361
  match access-group name r13-2-0361
class-map match-all r13-6-0365
  match access-group name r13-6-0365
class-map match-all r21-1-0600
  match access-group name r21-1-0600
class-map match-all r21-3-0602
  match access-group name r21-3-0602
class-map match-all r21-5-0604
  match access-group name r21-5-0604
class-map match-all r21-7-0606
  match access-group name r21-7-0606
class-map match-all r21-9-0608
  match access-group name r21-9-0608
class-map match-all r22-1-0630
  match access-group name r22-1-0630
class-map match-all r22-3-0632
  match access-group name r22-3-0632
class-map match-all r22-5-0634
  match access-group name r22-5-0634
class-map match-all r22-7-0636
  match access-group name r22-7-0636
class-map match-all r22-9-0638
  match access-group name r22-9-0638
class-map match-all r29-2-0841
  match access-group name r29-2-0841
class-map match-all r29-6-0845
  match access-group name r29-6-0845
class-map match-all r4-10-0099
  match access-group name r4-10-0099
class-map match-all r4-11-0100
  match access-group name r4-11-0100
class-map match-all r4-13-0102
  match access-group name r4-13-0102
class-map match-all r4-15-0104
  match access-group name r4-15-0104
class-map match-all r4-17-0106
  match access-group name r4-17-0106
class-map match-all r4-19-0108
  match access-group name r4-19-0108
class-map match-all r4-22-0111
  match access-group name r4-22-0111
```

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class-map match-all r4-26-0115
  match access-group name r4-26-0115
class-map match-all r10-1-0270
  match access-group name r10-1-0270
class-map match-all r10-3-0272
  match access-group name r10-3-0272
class-map match-all r10-5-0274
  match access-group name r10-5-0274
class-map match-all r10-7-0276
  match access-group name r10-7-0276
class-map match-all r10-9-0278
  match access-group name r10-9-0278
class-map match-all r17-8-0487
  match access-group name r17-8-0487
class-map match-all r25-4-0723
  match access-group name r25-4-0723
class-map match-all r26-2-0751
  match access-group name r26-2-0751
class-map match-all r26-6-0755
  match access-group name r26-6-0755
class-map match-all r27-8-0787
  match access-group name r27-8-0787
class-map match-all r18-4-0513
  match access-group name r18-4-0513
class-map match-all r19-2-0541
  match access-group name r19-2-0541
class-map match-all r19-6-0545
  match access-group name r19-6-0545
class-map match-all r21-8-0607
  match access-group name r21-8-0607
class-map match-all r22-8-0637
  match access-group name r22-8-0637
class-map match-all r24-2-0691
  match access-group name r24-2-0691
class-map match-all r24-6-0695
  match access-group name r24-6-0695
class-map match-all r4-18-0107
  match access-group name r4-18-0107
class-map match-all r10-8-0277
  match access-group name r10-8-0277
class-map match-all r17-1-0480
  match access-group name r17-1-0480
class-map match-all r17-3-0482
  match access-group name r17-3-0482
class-map match-all r17-5-0484
  match access-group name r17-5-0484
class-map match-all r17-7-0486
  match access-group name r17-7-0486
class-map match-all r17-9-0488
  match access-group name r17-9-0488
class-map match-all r27-1-0780
  match access-group name r27-1-0780
class-map match-all r27-3-0782
  match access-group name r27-3-0782
class-map match-all r27-5-0784
  match access-group name r27-5-0784
class-map match-all r27-7-0786
  match access-group name r27-7-0786
class-map match-all r27-9-0788
  match access-group name r27-9-0788
class-map match-all r30-4-0873
  match access-group name r30-4-0873
class-map match-all r13-8-0367
  match access-group name r13-8-0367

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class-map match-all r14-4-0393
  match access-group name r14-4-0393
class-map match-all r19-1-0540
  match access-group name r19-1-0540
class-map match-all r19-3-0542
  match access-group name r19-3-0542
class-map match-all r19-5-0544
  match access-group name r19-5-0544
class-map match-all r19-7-0546
  match access-group name r19-7-0546
class-map match-all r19-9-0548
  match access-group name r19-9-0548
class-map match-all r24-1-0690
  match access-group name r24-1-0690
class-map match-all r24-3-0692
  match access-group name r24-3-0692
class-map match-all r24-5-0694
  match access-group name r24-5-0694
class-map match-all r24-7-0696
  match access-group name r24-7-0696
class-map match-all r24-9-0698
  match access-group name r24-9-0698
class-map match-all r29-8-0847
  match access-group name r29-8-0847
class-map match-all r4-28-0117
  match access-group name r4-28-0117
class-map match-all r17-2-0481
  match access-group name r17-2-0481
class-map match-all r17-6-0485
  match access-group name r17-6-0485
class-map match-all r26-8-0757
  match access-group name r26-8-0757
class-map match-all r27-2-0781
  match access-group name r27-2-0781
class-map match-all r27-6-0785
  match access-group name r27-6-0785
class-map match-all r4-20-0109
  match access-group name r4-20-0109
class-map match-all r4-30-0119
  match access-group name r4-30-0119
class-map match-all r14-1-0390
  match access-group name r14-1-0390
class-map match-all r14-3-0392
  match access-group name r14-3-0392
class-map match-all r14-5-0394
  match access-group name r14-5-0394
class-map match-all r14-7-0396
  match access-group name r14-7-0396
class-map match-all r14-9-0398
  match access-group name r14-9-0398
class-map match-all r18-2-0511
  match access-group name r18-2-0511
class-map match-all r18-6-0515
  match access-group name r18-6-0515
class-map match-all r19-4-0543
  match access-group name r19-4-0543
class-map match-all r23-8-0667
  match access-group name r23-8-0667
class-map match-all r24-4-0693
  match access-group name r24-4-0693
class-map match-all r30-2-0871
  match access-group name r30-2-0871
class-map match-all r30-6-0875
  match access-group name r30-6-0875
```

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class-map match-all r14-2-0391
  match access-group name r14-2-0391
class-map match-all r14-6-0395
  match access-group name r14-6-0395
class-map match-all r18-1-0510
  match access-group name r18-1-0510
class-map match-all r18-3-0512
  match access-group name r18-3-0512
class-map match-all r18-5-0514
  match access-group name r18-5-0514
class-map match-all r18-7-0516
  match access-group name r18-7-0516
class-map match-all r18-9-0518
  match access-group name r18-9-0518
class-map match-all r28-8-0817
  match access-group name r28-8-0817
class-map match-all r3-10-0069
  match access-group name r3-10-0069
class-map match-all r17-4-0483
  match access-group name r17-4-0483
class-map match-all r25-8-0727
  match access-group name r25-8-0727
class-map match-all r27-4-0783
  match access-group name r27-4-0783
class-map match-all r30-1-0870
  match access-group name r30-1-0870
class-map match-all r30-3-0872
  match access-group name r30-3-0872
class-map match-all r30-5-0874
  match access-group name r30-5-0874
class-map match-all r30-7-0876
  match access-group name r30-7-0876
class-map match-all r30-9-0878
  match access-group name r30-9-0878
class-map match-any Call-Signaling
  match ip dscp cs3
  match ip dscp af31
class-map match-any Voice
  match ip dscp ef
  match ip dscp cs5
class-map match-all coppclass-filemanagement
  match access-group name coppacl-filemanagement
class-map match-all Scavenger
  match ip dscp cs1
class-map match-all coppclass-management
  match access-group name coppacl-management
class-map type inspect match-any to-branch-class
  match access-group 101
class-map match-all r3-4-0063
  match access-group name r3-4-0063
class-map match-all r4-8-0097
  match access-group name r4-8-0097
class-map match-all r17-10-0489
  match access-group name r17-10-0489
class-map match-all r17-22-0501
  match access-group name r17-22-0501
class-map match-all r17-26-0505
  match access-group name r17-26-0505
class-map match-all r18-28-0537
  match access-group name r18-28-0537
class-map match-all r21-14-0613
  match access-group name r21-14-0613
class-map match-all r21-24-0623
  match access-group name r21-24-0623

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class-map match-all r22-11-0640
  match access-group name r22-11-0640
class-map match-all r22-13-0642
  match access-group name r22-13-0642
class-map match-all r22-15-0644
  match access-group name r22-15-0644
class-map match-all r22-17-0646
  match access-group name r22-17-0646
class-map match-all r22-19-0648
  match access-group name r22-19-0648
class-map match-all r22-22-0651
  match access-group name r22-22-0651
class-map match-all r22-26-0655
  match access-group name r22-26-0655
class-map match-all r23-12-0671
  match access-group name r23-12-0671
class-map match-all r23-16-0675
  match access-group name r23-16-0675
class-map match-all r23-28-0687
  match access-group name r23-28-0687
class-map match-all r27-10-0789
  match access-group name r27-10-0789
class-map match-all r28-12-0821
  match access-group name r28-12-0821
class-map match-all r28-16-0825
  match access-group name r28-16-0825
class-map match-all r28-21-0830
  match access-group name r28-21-0830
class-map match-all r28-23-0832
  match access-group name r28-23-0832
class-map match-all r28-27-0836
  match access-group name r28-27-0836
class-map match-all r28-29-0838
  match access-group name r28-29-0838
class-map match-all r13-30-0389
  match access-group name r13-30-0389
class-map match-all r14-12-0401
  match access-group name r14-12-0401
class-map match-all r14-16-0405
  match access-group name r14-16-0405
class-map match-all r14-21-0410
  match access-group name r14-21-0410
class-map match-all r14-23-0412
  match access-group name r14-23-0412
class-map match-all r14-25-0414
  match access-group name r14-25-0414
class-map match-all r14-27-0416
  match access-group name r14-27-0416
class-map match-all r14-29-0418
  match access-group name r14-29-0418
class-map match-all r19-20-0559
  match access-group name r19-20-0559
class-map match-all r24-12-0701
  match access-group name r24-12-0701
class-map match-all r24-16-0705
  match access-group name r24-16-0705
class-map match-all r24-21-0710
  match access-group name r24-21-0710
class-map match-all r24-23-0712
  match access-group name r24-23-0712
class-map match-all r24-25-0714
  match access-group name r24-25-0714
class-map match-all r24-27-0716
  match access-group name r24-27-0716
```



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class-map match-all r24-29-0718
  match access-group name r24-29-0718
class-map match-all r25-11-0730
  match access-group name r25-11-0730
class-map match-all r25-13-0732
  match access-group name r25-13-0732
class-map match-all r25-15-0734
  match access-group name r25-15-0734
class-map match-all r25-17-0736
  match access-group name r25-17-0736
class-map match-all r25-19-0738
  match access-group name r25-19-0738
class-map match-all r26-14-0763
  match access-group name r26-14-0763
class-map match-all r30-11-0880
  match access-group name r30-11-0880
class-map match-all r30-13-0882
  match access-group name r30-13-0882
class-map match-all r30-15-0884
  match access-group name r30-15-0884
class-map match-all r10-20-0289
  match access-group name r10-20-0289
class-map match-all r10-30-0299
  match access-group name r10-30-0299
class-map match-all r13-14-0373
  match access-group name r13-14-0373
class-map match-all r17-20-0499
  match access-group name r17-20-0499
class-map match-all r17-21-0500
  match access-group name r17-21-0500
class-map match-all r17-23-0502
  match access-group name r17-23-0502
class-map match-all r17-25-0504
  match access-group name r17-25-0504
class-map match-all r17-27-0506
  match access-group name r17-27-0506
class-map match-all r17-29-0508
  match access-group name r17-29-0508
class-map match-all r18-18-0527
  match access-group name r18-18-0527
class-map match-all r22-12-0641
  match access-group name r22-12-0641
class-map match-all r22-16-0645
  match access-group name r22-16-0645
class-map match-all r22-21-0650
  match access-group name r22-21-0650
class-map match-all r22-23-0652
  match access-group name r22-23-0652
class-map match-all r22-25-0654
  match access-group name r22-25-0654
class-map match-all r22-27-0656
  match access-group name r22-27-0656
class-map match-all r22-29-0658
  match access-group name r22-29-0658
class-map match-all r23-11-0670
  match access-group name r23-11-0670
class-map match-all r23-13-0672
  match access-group name r23-13-0672
class-map match-all r23-15-0674
  match access-group name r23-15-0674
class-map match-all r23-17-0676
  match access-group name r23-17-0676
class-map match-all r23-19-0678
  match access-group name r23-19-0678

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```
class-map match-all r27-20-0799
  match access-group name r27-20-0799
class-map match-all r27-28-0807
  match access-group name r27-28-0807
class-map match-all r28-11-0820
  match access-group name r28-11-0820
class-map match-all r28-13-0822
  match access-group name r28-13-0822
class-map match-all r28-15-0824
  match access-group name r28-15-0824
class-map match-all r28-17-0826
  match access-group name r28-17-0826
class-map match-all r28-22-0831
  match access-group name r28-22-0831
class-map match-all r28-26-0835
  match access-group name r28-26-0835
class-map match-all r29-14-0853
  match access-group name r29-14-0853
class-map match-all r29-24-0863
  match access-group name r29-24-0863
class-map match-all r14-11-0400
  match access-group name r14-11-0400
class-map match-all r14-13-0402
  match access-group name r14-13-0402
class-map match-all r14-15-0404
  match access-group name r14-15-0404
class-map match-all r14-17-0406
  match access-group name r14-17-0406
class-map match-all r14-19-0408
  match access-group name r14-19-0408
class-map match-all r14-22-0411
  match access-group name r14-22-0411
class-map match-all r14-26-0415
  match access-group name r14-26-0415
class-map match-all r19-10-0549
  match access-group name r19-10-0549
class-map match-all r19-30-0569
  match access-group name r19-30-0569
class-map match-all r24-10-0699
  match access-group name r24-10-0699
class-map match-all r24-11-0700
  match access-group name r24-11-0700
class-map match-all r24-13-0702
  match access-group name r24-13-0702
class-map match-all r24-15-0704
  match access-group name r24-15-0704
class-map match-all r24-17-0706
  match access-group name r24-17-0706
class-map match-all r24-19-0708
  match access-group name r24-19-0708
class-map match-all r24-22-0711
  match access-group name r24-22-0711
class-map match-all r24-26-0715
  match access-group name r24-26-0715
class-map match-all r25-12-0731
  match access-group name r25-12-0731
class-map match-all r25-16-0735
  match access-group name r25-16-0735
class-map match-all r25-24-0743
  match access-group name r25-24-0743
class-map match-all r26-24-0773
  match access-group name r26-24-0773
class-map match-all r30-12-0881
  match access-group name r30-12-0881
```

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class-map match-all r3-2-0061
  match access-group name r3-2-0061
class-map match-all r3-6-0065
  match access-group name r3-6-0065
class-map match-all r13-11-0370
  match access-group name r13-11-0370
class-map match-all r13-13-0372
  match access-group name r13-13-0372
class-map match-all r13-15-0374
  match access-group name r13-15-0374
class-map match-all r13-17-0376
  match access-group name r13-17-0376
class-map match-all r13-19-0378
  match access-group name r13-19-0378
class-map match-all r17-24-0503
  match access-group name r17-24-0503
class-map match-all r19-18-0557
  match access-group name r19-18-0557
class-map match-all r19-28-0567
  match access-group name r19-28-0567
class-map match-all r21-12-0611
  match access-group name r21-12-0611
class-map match-all r21-16-0615
  match access-group name r21-16-0615
class-map match-all r21-22-0621
  match access-group name r21-22-0621
class-map match-all r21-26-0625
  match access-group name r21-26-0625
class-map match-all r22-24-0653
  match access-group name r22-24-0653
class-map match-all r23-14-0673
  match access-group name r23-14-0673
class-map match-all r28-14-0823
  match access-group name r28-14-0823
class-map match-all r29-11-0850
  match access-group name r29-11-0850
class-map match-all r29-13-0852
  match access-group name r29-13-0852
class-map match-all r29-15-0854
  match access-group name r29-15-0854
class-map match-all r29-17-0856
  match access-group name r29-17-0856
class-map match-all r29-19-0858
  match access-group name r29-19-0858
class-map match-all r29-21-0860
  match access-group name r29-21-0860
class-map match-all r29-23-0862
  match access-group name r29-23-0862
class-map match-all r29-25-0864
  match access-group name r29-25-0864
class-map match-all r29-27-0866
  match access-group name r29-27-0866
class-map match-all r29-29-0868
  match access-group name r29-29-0868
class-map match-all r10-28-0297
  match access-group name r10-28-0297
class-map match-all r14-10-0399
  match access-group name r14-10-0399
class-map match-all r14-14-0403
  match access-group name r14-14-0403
class-map match-all r24-14-0703
  match access-group name r24-14-0703
class-map match-all r25-21-0740
  match access-group name r25-21-0740

```

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class-map match-all r25-23-0742
  match access-group name r25-23-0742
class-map match-all r25-25-0744
  match access-group name r25-25-0744
class-map match-all r25-27-0746
  match access-group name r25-27-0746
class-map match-all r25-29-0748
  match access-group name r25-29-0748
class-map match-all r26-12-0761
  match access-group name r26-12-0761
class-map match-all r26-21-0770
  match access-group name r26-21-0770
class-map match-all r26-23-0772
  match access-group name r26-23-0772
class-map match-all r26-25-0774
  match access-group name r26-25-0774
class-map match-all r26-27-0776
  match access-group name r26-27-0776
class-map match-all r26-29-0778
  match access-group name r26-29-0778
class-map match-all r27-30-0809
  match access-group name r27-30-0809
class-map match-all r3-1-0060
  match access-group name r3-1-0060
class-map match-all r3-3-0062
  match access-group name r3-3-0062
class-map match-all r3-5-0064
  match access-group name r3-5-0064
class-map match-all r3-7-0066
  match access-group name r3-7-0066
class-map match-all r3-9-0068
  match access-group name r3-9-0068
class-map match-all r13-12-0371
  match access-group name r13-12-0371
class-map match-all r13-16-0375
  match access-group name r13-16-0375
class-map match-all r13-28-0387
  match access-group name r13-28-0387
class-map match-all r21-11-0610
  match access-group name r21-11-0610
class-map match-all r21-13-0612
  match access-group name r21-13-0612
class-map match-all r21-15-0614
  match access-group name r21-15-0614
class-map match-all r21-17-0616
  match access-group name r21-17-0616
class-map match-all r21-19-0618
  match access-group name r21-19-0618
class-map match-all r21-21-0620
  match access-group name r21-21-0620
class-map match-all r21-23-0622
  match access-group name r21-23-0622
class-map match-all r21-25-0624
  match access-group name r21-25-0624
class-map match-all r21-27-0626
  match access-group name r21-27-0626
class-map match-all r21-29-0628
  match access-group name r21-29-0628
class-map match-all r22-14-0643
  match access-group name r22-14-0643
class-map match-all r28-24-0833
  match access-group name r28-24-0833
class-map match-all r29-12-0851
  match access-group name r29-12-0851

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class-map match-all r29-16-0855
  match access-group name r29-16-0855
class-map match-all r29-22-0861
  match access-group name r29-22-0861
class-map match-all r29-26-0865
  match access-group name r29-26-0865
class-map match-all r30-10-0879
  match access-group name r30-10-0879
class-map match-all r10-18-0287
  match access-group name r10-18-0287
class-map match-all r14-24-0413
  match access-group name r14-24-0413
class-map match-all r17-18-0497
  match access-group name r17-18-0497
class-map match-all r18-10-0519
  match access-group name r18-10-0519
class-map match-all r18-20-0529
  match access-group name r18-20-0529
class-map match-all r18-30-0539
  match access-group name r18-30-0539
class-map match-all r23-30-0689
  match access-group name r23-30-0689
class-map match-all r24-24-0713
  match access-group name r24-24-0713
class-map match-all r25-14-0733
  match access-group name r25-14-0733
class-map match-all r25-22-0741
  match access-group name r25-22-0741
class-map match-all r25-26-0745
  match access-group name r25-26-0745
class-map match-all r26-11-0760
  match access-group name r26-11-0760
class-map match-all r26-13-0762
  match access-group name r26-13-0762
class-map match-all r26-15-0764
  match access-group name r26-15-0764
class-map match-all r26-17-0766
  match access-group name r26-17-0766
class-map match-all r26-19-0768
  match access-group name r26-19-0768
class-map match-all r26-22-0771
  match access-group name r26-22-0771
class-map match-all r26-26-0775
  match access-group name r26-26-0775
class-map match-all r27-18-0797
  match access-group name r27-18-0797
class-map match-all r30-14-0883
  match access-group name r30-14-0883
class-map match-all r3-8-0067
  match access-group name r3-8-0067
class-map match-all r13-21-0380
  match access-group name r13-21-0380
class-map match-all r13-23-0382
  match access-group name r13-23-0382
class-map match-all r13-25-0384
  match access-group name r13-25-0384
class-map match-all r13-27-0386
  match access-group name r13-27-0386
class-map match-all r13-29-0388
  match access-group name r13-29-0388
class-map match-all r14-20-0409
  match access-group name r14-20-0409
class-map match-all r14-30-0419
  match access-group name r14-30-0419

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class-map match-all r18-24-0533
  match access-group name r18-24-0533
class-map match-all r19-12-0551
  match access-group name r19-12-0551
class-map match-all r19-16-0555
  match access-group name r19-16-0555
class-map match-all r19-22-0561
  match access-group name r19-22-0561
class-map match-all r19-26-0565
  match access-group name r19-26-0565
class-map match-all r21-18-0617
  match access-group name r21-18-0617
class-map match-all r21-28-0627
  match access-group name r21-28-0627
class-map match-all r23-24-0683
  match access-group name r23-24-0683
class-map match-all r24-20-0709
  match access-group name r24-20-0709
class-map match-all r24-30-0719
  match access-group name r24-30-0719
class-map match-all r25-10-0729
  match access-group name r25-10-0729
class-map match-all r10-11-0280
  match access-group name r10-11-0280
class-map match-all r10-13-0282
  match access-group name r10-13-0282
class-map match-all r10-15-0284
  match access-group name r10-15-0284
class-map match-all r10-17-0286
  match access-group name r10-17-0286
class-map match-all r10-19-0288
  match access-group name r10-19-0288
class-map match-all r10-22-0291
  match access-group name r10-22-0291
class-map match-all r10-26-0295
  match access-group name r10-26-0295
class-map match-all r17-11-0490
  match access-group name r17-11-0490
class-map match-all r17-13-0492
  match access-group name r17-13-0492
class-map match-all r17-15-0494
  match access-group name r17-15-0494
class-map match-all r17-17-0496
  match access-group name r17-17-0496
class-map match-all r17-19-0498
  match access-group name r17-19-0498
class-map match-all r23-20-0679
  match access-group name r23-20-0679
class-map match-all r26-18-0767
  match access-group name r26-18-0767
class-map match-all r27-11-0790
  match access-group name r27-11-0790
class-map match-all r27-13-0792
  match access-group name r27-13-0792
class-map match-all r27-15-0794
  match access-group name r27-15-0794
class-map match-all r27-17-0796
  match access-group name r27-17-0796
class-map match-all r27-19-0798
  match access-group name r27-19-0798
class-map match-all r28-10-0819
  match access-group name r28-10-0819
class-map match-all r28-20-0829
  match access-group name r28-20-0829

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class-map match-all r28-30-0839
  match access-group name r28-30-0839
class-map match-all r13-18-0377
  match access-group name r13-18-0377
class-map match-all r13-22-0381
  match access-group name r13-22-0381
class-map match-all r13-26-0385
  match access-group name r13-26-0385
class-map match-all r18-14-0523
  match access-group name r18-14-0523
class-map match-all r19-11-0550
  match access-group name r19-11-0550
class-map match-all r19-13-0552
  match access-group name r19-13-0552
class-map match-all r19-15-0554
  match access-group name r19-15-0554
class-map match-all r19-17-0556
  match access-group name r19-17-0556
class-map match-all r19-19-0558
  match access-group name r19-19-0558
class-map match-all r19-21-0560
  match access-group name r19-21-0560
class-map match-all r19-23-0562
  match access-group name r19-23-0562
class-map match-all r19-25-0564
  match access-group name r19-25-0564
class-map match-all r19-27-0566
  match access-group name r19-27-0566
class-map match-all r19-29-0568
  match access-group name r19-29-0568
class-map match-all r25-20-0739
  match access-group name r25-20-0739
class-map match-all r27-24-0803
  match access-group name r27-24-0803
class-map match-all r29-18-0857
  match access-group name r29-18-0857
class-map match-all r29-28-0867
  match access-group name r29-28-0867
class-map match-all r10-12-0281
  match access-group name r10-12-0281
class-map match-all r10-16-0285
  match access-group name r10-16-0285
class-map match-all r10-21-0290
  match access-group name r10-21-0290
class-map match-all r10-23-0292
  match access-group name r10-23-0292
class-map match-all r10-25-0294
  match access-group name r10-25-0294
class-map match-all r10-27-0296
  match access-group name r10-27-0296
class-map match-all r10-29-0298
  match access-group name r10-29-0298
class-map match-all r17-12-0491
  match access-group name r17-12-0491
class-map match-all r17-16-0495
  match access-group name r17-16-0495
class-map match-all r17-30-0509
  match access-group name r17-30-0509
class-map match-all r22-20-0649
  match access-group name r22-20-0649
class-map match-all r22-30-0659
  match access-group name r22-30-0659
class-map match-all r23-10-0669
  match access-group name r23-10-0669

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```
class-map match-all r25-28-0747
  match access-group name r25-28-0747
class-map match-all r26-28-0777
  match access-group name r26-28-0777
class-map match-all r27-12-0791
  match access-group name r27-12-0791
class-map match-all r27-16-0795
  match access-group name r27-16-0795
class-map match-all r17-28-0507
  match access-group name r17-28-0507
class-map match-all r18-11-0520
  match access-group name r18-11-0520
class-map match-all r18-13-0522
  match access-group name r18-13-0522
class-map match-all r18-15-0524
  match access-group name r18-15-0524
class-map match-all r18-17-0526
  match access-group name r18-17-0526
class-map match-all r18-19-0528
  match access-group name r18-19-0528
class-map match-all r18-22-0531
  match access-group name r18-22-0531
class-map match-all r18-26-0535
  match access-group name r18-26-0535
class-map match-all r19-14-0553
  match access-group name r19-14-0553
class-map match-all r19-24-0563
  match access-group name r19-24-0563
class-map match-all r22-28-0657
  match access-group name r22-28-0657
class-map match-all r23-18-0677
  match access-group name r23-18-0677
class-map match-all r23-22-0681
  match access-group name r23-22-0681
class-map match-all r23-26-0685
  match access-group name r23-26-0685
class-map match-all r25-30-0749
  match access-group name r25-30-0749
class-map match-all r26-10-0759
  match access-group name r26-10-0759
class-map match-all r26-20-0769
  match access-group name r26-20-0769
class-map match-all r26-30-0779
  match access-group name r26-30-0779
class-map match-all r27-21-0800
  match access-group name r27-21-0800
class-map match-all r27-23-0802
  match access-group name r27-23-0802
class-map match-all r27-25-0804
  match access-group name r27-25-0804
class-map match-all r27-27-0806
  match access-group name r27-27-0806
class-map match-all r27-29-0808
  match access-group name r27-29-0808
class-map match-all r28-18-0827
  match access-group name r28-18-0827
class-map match-all r10-24-0293
  match access-group name r10-24-0293
class-map match-all r13-10-0369
  match access-group name r13-10-0369
class-map match-all r14-18-0407
  match access-group name r14-18-0407
class-map match-all r21-20-0619
  match access-group name r21-20-0619
```



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class-map match-all r24-18-0707
  match access-group name r24-18-0707
class-map match-all r29-10-0849
  match access-group name r29-10-0849
class-map match-all r29-30-0869
  match access-group name r29-30-0869
class-map match-all r4-7-0096
  match access-group name r4-7-0096
class-map match-all r4-9-0098
  match access-group name r4-9-0098
class-map match-all r10-10-0279
  match access-group name r10-10-0279
class-map match-all r13-24-0383
  match access-group name r13-24-0383
class-map match-all r18-12-0521
  match access-group name r18-12-0521
class-map match-all r18-16-0525
  match access-group name r18-16-0525
class-map match-all r18-21-0530
  match access-group name r18-21-0530
class-map match-all r18-23-0532
  match access-group name r18-23-0532
class-map match-all r18-25-0534
  match access-group name r18-25-0534
class-map match-all r18-27-0536
  match access-group name r18-27-0536
class-map match-all r18-29-0538
  match access-group name r18-29-0538
class-map match-all r22-18-0647
  match access-group name r22-18-0647
class-map match-all r23-21-0680
  match access-group name r23-21-0680
class-map match-all r23-23-0682
  match access-group name r23-23-0682
class-map match-all r23-25-0684
  match access-group name r23-25-0684
class-map match-all r23-27-0686
  match access-group name r23-27-0686
class-map match-all r23-29-0688
  match access-group name r23-29-0688
class-map match-all r27-22-0801
  match access-group name r27-22-0801
class-map match-all r27-26-0805
  match access-group name r27-26-0805
class-map match-all r10-14-0283
  match access-group name r10-14-0283
class-map match-all r13-20-0379
  match access-group name r13-20-0379
class-map match-all r14-28-0417
  match access-group name r14-28-0417
class-map match-all r17-14-0493
  match access-group name r17-14-0493
class-map match-all r21-10-0609
  match access-group name r21-10-0609
class-map match-all r21-30-0629
  match access-group name r21-30-0629
class-map match-all r22-10-0639
  match access-group name r22-10-0639
class-map match-all r24-28-0717
  match access-group name r24-28-0717
class-map match-all r25-18-0737
  match access-group name r25-18-0737
class-map match-all r27-14-0793
  match access-group name r27-14-0793

```

```

class-map match-all r29-20-0859
  match access-group name r29-20-0859
!
policy-map child_r13-1-0360
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-7-0396
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-11-0640
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-9-0818

```

```

class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r19-4-0543
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-24-0113
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-27-0716
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15

```

```

class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r29-30-0869
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r17-28-0507
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r22-24-0653
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5

```

```

class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-22-0801
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-8-0847
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-29-0418
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

```

```

        bandwidth percent 4
        random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-30-0539
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-4-0753
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-26-0535
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1

```

```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-27-0536
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-4-0603
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-9-0608
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-27-0686

```

```

class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-2-0691
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-11-0100
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-6-0395
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15

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class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-11-0670
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-5-0634
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-9-0278
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5

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```

class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-27-0506
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-19-0618
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-18-0677
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

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        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r26-20-0769
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r30-8-0877
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r29-21-0860
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1

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class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-15-0284
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-21-0290
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-10-0399
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-20-0559

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class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r30-7-0876
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-15-0614
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-24-0803
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15

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class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r14-21-0410
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r17-16-0495
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r25-25-0744
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5

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class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-13-0522
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-3-0542
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-11-0820
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

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        bandwidth percent 4
        random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-13-0762
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-29-0508
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-19-0678
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1

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class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-30-0389
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-10-0729
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-14-0823
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-22-0771

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class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r26-26-0775
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r27-12-0791
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r27-14-0793
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15

```

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class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-18-0797
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-22-0561
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-6-0515
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5

```

```

class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-21-0110
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-17-0496
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-30-0629
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

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        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r25-7-0726
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r4-7-0096
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r13-22-0381
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1

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```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-4-0513
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-23-0772
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-27-0776
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-3-0362

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```

class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r14-5-0394
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-7-0846
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-23-0742
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15

```

```

class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r4-19-0108
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r14-20-0409
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r23-17-0676
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5

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class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r25-5-0724
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r10-20-0289
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r18-19-0528
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data

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```

        bandwidth percent 4
        random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-24-0533
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-12-0551
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-15-0704
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1

```

```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-6-0875
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-1-0390
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-12-0641
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-27-0746

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class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-6-0545
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-23-0832
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-18-0857
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15

```

```

class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-11-0760
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-9-0368
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-25-0534
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5

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```

class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-13-0792
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-28-0657
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-7-0486
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

```

```

        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r17-12-0491
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r25-4-0723
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r23-21-0680
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1

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```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-25-0114
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-22-0861
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-27-0866
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-24-0743

```



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class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r13-29-0388
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-1-0540
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-9-0548
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15

```

```

class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r21-27-0626
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r28-24-0833
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r4-10-0099
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5

```

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class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-27-0806
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-29-0748
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-23-0532
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

```

```

        bandwidth percent 4
        random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-18-0557
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-20-0709
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-23-0112
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1

```

```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-29-0118
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-27-0296
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-18-0497
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-1-0750

```

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class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-16-0555
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-18-0827
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map copp-policy
class coppclass-igp
    police cir 300000 bc 3000 be 3000 conform-action transmit exceed-action drop
    violate-action drop
class coppclass-filemanagement

```

```

    police cir 80000 bc 8000 be 8000
      conform-action transmit
      exceed-action drop
      violate-action drop
class coppclass-management
  police cir 10000000 bc 100000 be 100000
    conform-action transmit
    exceed-action drop
    violate-action drop
class coppclass-monitoring
  police cir 500000 bc 5000 be 5000
    conform-action transmit
    exceed-action drop
    violate-action drop
class coppclass-critical-app
  police cir 500000 bc 5000 be 5000
    conform-action transmit
    exceed-action drop
    violate-action drop
class coppclass-vpn
  police cir 6000000 bc 60000 be 60000 conform-action transmit exceed-action dr
op violate-action drop
class class-default
  police cir 10000000 bc 100000 be 100000
    conform-action transmit
    exceed-action drop
    violate-action drop
policy-map child_r24-23-0712
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r27-30-0809
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1

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```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-20-0859
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-26-0415
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-23-0382
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-2-0541

```



```

class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r28-13-0822
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-19-0738
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-2-0391
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15

```

```

class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-13-0672
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-15-0674
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-24-0413
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5

```

```

class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-13-0492
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-1-0630
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-11-0280
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

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```

        bandwidth percent 4
        random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-7-0366
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-4-0843
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-17-0406
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1

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```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-6-0695
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-17-0376
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-25-0504
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-3-0062

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class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-9-0098
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-21-0530
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-8-0547
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15

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class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-22-0621
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-24-0623
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-29-0298
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5

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class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-30-0569
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-11-0790
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-29-0568
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

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        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r29-5-0844
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r14-22-0411
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r17-15-0494
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1

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```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-20-0679
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-2-0511
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-4-0693
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-20-0739

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class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-15-0824
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-21-0830
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-15-0734
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15

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```

class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r26-12-0761
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r17-21-0500
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r29-26-0865
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5

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class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-4-0783
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-9-0068
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-23-0622
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

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```

        bandwidth percent 4
        random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-2-0661
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-13-0402
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-2-0721
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1

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```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-16-0375
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-25-0654
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-10-0369
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-9-0488

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class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r18-8-0517
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r23-4-0663
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r14-4-0393
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15

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class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-30-0779
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-8-0097
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-24-0683
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5

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```

class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-3-0272
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-10-0549
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-13-0732
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

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```

        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r21-16-0615
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r22-27-0656
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r14-19-0408
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1

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```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-14-0493
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-21-0380
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-15-0524
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-28-0537

```

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class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r23-9-0668
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-17-0856
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-19-0288
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15

```

```

class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r24-12-0701
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r24-24-0713
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r21-11-0610
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5

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class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r22-26-0655
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r23-12-0671
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r18-7-0516
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data

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        bandwidth percent 4
        random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-16-0525
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-11-0550
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-14-0553
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1

```



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class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-7-0696
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-5-0874
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-7-0816
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-15-0404

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class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r17-1-0480
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r25-1-0720
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r21-28-0627
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15

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class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-8-0637
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-12-0821
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-26-0115
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5

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class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-11-0700
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-17-0706
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-8-0727
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

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        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r25-17-0736
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r26-15-0764
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r22-15-0644
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1

```

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class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-30-0719
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-8-0787
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-5-0514
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-13-0552

```

```

class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r22-6-0635
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-22-0291
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-25-0294
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15

```

```

class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r18-20-0529
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r24-13-0702
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r13-14-0373
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5

```



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class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r14-9-0398
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r22-18-0647
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map type inspect hq-branch-policy
class type inspect to-branch-class
  pass
class class-default
  drop log
policy-map child_r26-2-0751
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control

```

```

        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r21-3-0602
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r25-30-0749
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r10-7-0276
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based

```

```

class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-14-0763
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-12-0371
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-22-0501
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger

```

```

        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r14-27-0416
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r14-28-0417
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r26-3-0752
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect

```

```

policy-map child_r18-14-0523
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-26-0625
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-7-0666
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-19-0858
  class Voice
    priority percent 18
  class Interactive-Video

```

```

        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r4-16-0105
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r4-28-0117
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r24-18-0707
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control

```

```

        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r27-17-0796
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r19-21-0560
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r27-25-0804
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based

```

```

class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-11-0490
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-8-0067
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-12-0521
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger

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```

        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r23-26-0685
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r24-9-0698
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r28-17-0826
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect

```

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policy-map child_r28-29-0838
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-16-0735
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-10-0489
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-2-0481
  class Voice
    priority percent 18
  class Interactive-Video

```

```

        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r25-3-0722
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r25-28-0747
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r27-2-0781
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control

```

```

        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map type inspect branch-hq-policy
    class type inspect frm-branch-class
        pass
    class class-default
        drop log
policy-map child_r29-3-0842
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r18-10-0519
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r18-22-0531
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-3-0392
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-13-0642
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-19-0648
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r22-23-0652
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r19-17-0556
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r4-12-0101
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-10-0699
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-29-0718
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-21-0770
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r26-29-0778
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-15-0794
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-14-0673
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-16-0675
  class Voice
    priority percent 18

```



```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r14-25-0414
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r17-3-0482
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r28-30-0839
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-1-0600
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-20-0799
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-16-0855
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r4-17-0106
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r10-14-0283
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r22-29-0658
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

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```

class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r23-10-0669
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r3-5-0064
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r18-1-0510
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25

```

```

        random-detect
policy-map child_r22-9-0638
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-5-0664
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-6-0665
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-16-0795
  class Voice
    priority percent 18

```

```

class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-21-0800
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-6-0725
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-10-0819
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5

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class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-6-0065
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-5-0604
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-28-0687
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

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        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r4-13-0102
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r4-15-0104
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r10-23-0292
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

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class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-24-0293
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-28-0297
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-18-0737
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

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        random-detect
policy-map child_r30-1-0870
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-9-0878
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-12-0881
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-8-0817
  class Voice
    priority percent 18

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class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r17-6-0485
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r22-7-0636
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r23-8-0667
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

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```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-26-0835
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-19-0708
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-18-0377
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

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        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r17-20-0499
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r19-26-0565
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r26-6-0755
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

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class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r27-9-0788
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r3-2-0061
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r13-27-0386
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25

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        random-detect
policy-map child_r18-3-0512
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-6-0605
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-7-0606
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-29-0688
  class Voice
    priority percent 18

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class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-3-0692
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-8-0277
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-23-0562
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5

```



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class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-10-0759
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-2-0811
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-10-0069
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

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        random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-26-0385
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-11-0520
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-5-0544
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based

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class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-25-0624
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-26-0715
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-8-0397
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

    random-detect
policy-map child_r22-16-0645
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-26-0805
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-4-0483
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-3-0782
  class Voice
    priority percent 18

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class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r19-15-0554
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r19-19-0558
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r23-25-0684
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-10-0789
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-4-0873
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-29-0868
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r14-12-0401
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r3-7-0066
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r18-18-0527
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-3-0632
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-2-0871
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-19-0498
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```



```

        random-detect
policy-map child_r13-28-0387
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-27-0836
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-26-0505
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-28-0567
  class Voice
    priority percent 18

```

```

class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-17-0646
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-23-0862
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-24-0863
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-11-0400
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-29-0628
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-18-0107
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r10-1-0270
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r24-14-0703
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r10-10-0279
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-25-0564
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-14-0643
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-28-0807
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r17-8-0487
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-5-0784
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-4-0063
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-23-0682
  class Voice
    priority percent 18

```

```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r25-14-0733
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r13-5-0364
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r13-13-0372
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-18-0617
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-30-0689
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-7-0756
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```



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        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r24-16-0705
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r26-25-0774
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r3-11-0070
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-6-0365
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-24-0503
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-1-0690
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r19-27-0566
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-21-0650
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-5-0484
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-1-0060
  class Voice
    priority percent 18

```

```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r21-21-0620
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r29-13-0852
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r4-14-0103
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-22-0711
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-20-0829
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-12-0071
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r13-2-0361
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r29-1-0840
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r29-9-0848
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-17-0526
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-8-0607
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-5-0694
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r24-8-0697
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-12-0851
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-19-0768
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-30-0119
  class Voice
    priority percent 18

```



```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r28-1-0810
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r28-3-0812
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r30-10-0879
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-20-0649
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-9-0728
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-5-0754
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

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```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r26-9-0758
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r22-4-0633
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r10-6-0275
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-26-0295
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-19-0798
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-15-0374
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r29-2-0841
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-14-0403
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-10-0609
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-1-0780
  class Voice
    priority percent 18

```

```

class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-20-0109
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-24-0383
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-13-0282
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-17-0286
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-30-0659
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-10-0849
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

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```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r13-4-0363
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r13-8-0367
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r29-28-0867
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

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```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-9-0518
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-2-0631
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-1-0660
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

    random-detect
policy-map child_r17-30-0509
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-24-0773
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-11-0370
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-13-0612
  class Voice
    priority percent 18

```

```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r29-6-0845
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r13-20-0379
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r21-20-0619
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-8-0757
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-22-0681
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-4-0273
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r26-17-0766
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r28-5-0814
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r29-25-0864
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

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```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-25-0384
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-22-0831
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-22-0111
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r10-2-0271
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-25-0714
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-30-0299
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-18-0407
  class Voice
    priority percent 18

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```

class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-14-0853
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-18-0287
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-12-0731
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5

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```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-18-0767
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-24-0563
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-12-0611
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-6-0815
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-16-0405
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-23-0412
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-22-0741
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-26-0745
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-6-0785
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r28-16-0825
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-16-0285
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-10-0639
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-28-0717
  class Voice
    priority percent 18

```

```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r30-11-0880
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r30-14-0883
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r30-15-0884
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-19-0378
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-21-0740
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-13-0882
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r21-14-0613
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r4-27-0116
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r10-5-0274
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-12-0281
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-30-0419
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-23-0502
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```



```

        random-detect
policy-map child_r18-29-0538
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-7-0546
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-2-0601
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-17-0616
  class Voice
    priority percent 18

```

```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map HUB-A
class r3-1-0060
  shape average 1310000 13100
  service-policy child_r3-1-0060
class r3-2-0061
  shape average 1310000 13100
  service-policy child_r3-2-0061
class r3-3-0062
  shape average 1310000 13100
  service-policy child_r3-3-0062
class r3-4-0063
  shape average 1310000 13100
  service-policy child_r3-4-0063
class r3-5-0064
  shape average 1310000 13100
  service-policy child_r3-5-0064
class r3-6-0065
  shape average 1310000 13100
  service-policy child_r3-6-0065
class r3-7-0066
  shape average 1310000 13100
  service-policy child_r3-7-0066
class r3-8-0067
  shape average 1310000 13100
  service-policy child_r3-8-0067
class r3-9-0068
  shape average 1310000 13100
  service-policy child_r3-9-0068
class r3-10-0069
  shape average 1310000 13100
  service-policy child_r3-10-0069
class r3-11-0070
  shape average 1310000 13100
  service-policy child_r3-11-0070
class r3-12-0071
  shape average 1310000 13100
  service-policy child_r3-12-0071
class r4-7-0096
  shape average 1310000 13100
  service-policy child_r4-7-0096
class r4-8-0097
  shape average 1310000 13100
  service-policy child_r4-8-0097
class r4-9-0098
  shape average 1310000 13100
  service-policy child_r4-9-0098
class r4-10-0099

```

```

    shape average 1310000 13100
    service-policy child_r4-10-0099
class r4-11-0100
    shape average 1310000 13100
    service-policy child_r4-11-0100
class r4-12-0101
    shape average 1310000 13100
    service-policy child_r4-12-0101
class r4-13-0102
    shape average 1310000 13100
    service-policy child_r4-13-0102
class r4-14-0103
    shape average 1310000 13100
    service-policy child_r4-14-0103
class r4-15-0104
    shape average 1310000 13100
    service-policy child_r4-15-0104
class r4-16-0105
    shape average 1310000 13100
    service-policy child_r4-16-0105
class r4-17-0106
    shape average 1310000 13100
    service-policy child_r4-17-0106
class r4-18-0107
    shape average 1310000 13100
    service-policy child_r4-18-0107
class r4-19-0108
    shape average 1310000 13100
    service-policy child_r4-19-0108
class r4-20-0109
    shape average 1310000 13100
    service-policy child_r4-20-0109
class r4-21-0110
    shape average 1310000 13100
    service-policy child_r4-21-0110
class r4-22-0111
    shape average 1310000 13100
    service-policy child_r4-22-0111
class r4-23-0112
    shape average 1310000 13100
    service-policy child_r4-23-0112
class r4-24-0113
    shape average 1310000 13100
    service-policy child_r4-24-0113
class r4-25-0114
    shape average 1310000 13100
    service-policy child_r4-25-0114
class r4-26-0115
    shape average 1310000 13100
    service-policy child_r4-26-0115
class r4-27-0116
    shape average 1310000 13100
    service-policy child_r4-27-0116
class r4-28-0117
    shape average 1310000 13100
    service-policy child_r4-28-0117
class r4-29-0118
    shape average 1310000 13100
    service-policy child_r4-29-0118
class r4-30-0119
    shape average 1310000 13100
    service-policy child_r4-30-0119
class r10-1-0270
    shape average 1310000 13100

```

```

    service-policy child_r10-1-0270
class r10-2-0271
    shape average 1310000 13100
    service-policy child_r10-2-0271
class r10-3-0272
    shape average 1310000 13100
    service-policy child_r10-3-0272
class r10-4-0273
    shape average 1310000 13100
    service-policy child_r10-4-0273
class r10-5-0274
    shape average 1310000 13100
    service-policy child_r10-5-0274
class r10-6-0275
    shape average 1310000 13100
    service-policy child_r10-6-0275
class r10-7-0276
    shape average 1310000 13100
    service-policy child_r10-7-0276
class r10-8-0277
    shape average 1310000 13100
    service-policy child_r10-8-0277
class r10-9-0278
    shape average 1310000 13100
    service-policy child_r10-9-0278
class r10-10-0279
    shape average 1310000 13100
    service-policy child_r10-10-0279
class r10-11-0280
    shape average 1310000 13100
    service-policy child_r10-11-0280
class r10-12-0281
    shape average 1310000 13100
    service-policy child_r10-12-0281
class r10-13-0282
    shape average 1310000 13100
    service-policy child_r10-13-0282
class r10-14-0283
    shape average 1310000 13100
    service-policy child_r10-14-0283
class r10-15-0284
    shape average 1310000 13100
    service-policy child_r10-15-0284
class r10-16-0285
    shape average 1310000 13100
    service-policy child_r10-16-0285
class r10-17-0286
    shape average 1310000 13100
    service-policy child_r10-17-0286
class r10-18-0287
    shape average 1310000 13100
    service-policy child_r10-18-0287
class r10-19-0288
    shape average 1310000 13100
    service-policy child_r10-19-0288
class r10-20-0289
    shape average 1310000 13100
    service-policy child_r10-20-0289
class r10-21-0290
    shape average 1310000 13100
    service-policy child_r10-21-0290
class r10-22-0291
    shape average 1310000 13100
    service-policy child_r10-22-0291

```

```

class r10-23-0292
    shape average 1310000 13100
    service-policy child_r10-23-0292
class r10-24-0293
    shape average 1310000 13100
    service-policy child_r10-24-0293
class r10-25-0294
    shape average 1310000 13100
    service-policy child_r10-25-0294
class r10-26-0295
    shape average 1310000 13100
    service-policy child_r10-26-0295
class r10-27-0296
    shape average 1310000 13100
    service-policy child_r10-27-0296
class r10-28-0297
    shape average 1310000 13100
    service-policy child_r10-28-0297
class r10-29-0298
    shape average 1310000 13100
    service-policy child_r10-29-0298
class r10-30-0299
    shape average 1310000 13100
    service-policy child_r10-30-0299
class r13-1-0360
    shape average 1310000 13100
    service-policy child_r13-1-0360
class r13-2-0361
    shape average 1310000 13100
    service-policy child_r13-2-0361
class r13-3-0362
    shape average 1310000 13100
    service-policy child_r13-3-0362
class r13-4-0363
    shape average 1310000 13100
    service-policy child_r13-4-0363
class r13-5-0364
    shape average 1310000 13100
    service-policy child_r13-5-0364
class r13-6-0365
    shape average 1310000 13100
    service-policy child_r13-6-0365
class r13-7-0366
    shape average 1310000 13100
    service-policy child_r13-7-0366
class r13-8-0367
    shape average 1310000 13100
    service-policy child_r13-8-0367
class r13-9-0368
    shape average 1310000 13100
    service-policy child_r13-9-0368
class r13-10-0369
    shape average 1310000 13100
    service-policy child_r13-10-0369
class r13-11-0370
    shape average 1310000 13100
    service-policy child_r13-11-0370
class r13-12-0371
    shape average 1310000 13100
    service-policy child_r13-12-0371
class r13-13-0372
    shape average 1310000 13100
    service-policy child_r13-13-0372
class r13-14-0373

```

```

    shape average 1310000 13100
    service-policy child_r13-14-0373
class r13-15-0374
    shape average 1310000 13100
    service-policy child_r13-15-0374
class r13-16-0375
    shape average 1310000 13100
    service-policy child_r13-16-0375
class r13-17-0376
    shape average 1310000 13100
    service-policy child_r13-17-0376
class r13-18-0377
    shape average 1310000 13100
    service-policy child_r13-18-0377
class r13-19-0378
    shape average 1310000 13100
    service-policy child_r13-19-0378
class r13-20-0379
    shape average 1310000 13100
    service-policy child_r13-20-0379
class r13-21-0380
    shape average 1310000 13100
    service-policy child_r13-21-0380
class r13-22-0381
    shape average 1310000 13100
    service-policy child_r13-22-0381
class r13-23-0382
    shape average 1310000 13100
    service-policy child_r13-23-0382
class r13-24-0383
    shape average 1310000 13100
    service-policy child_r13-24-0383
class r13-25-0384
    shape average 1310000 13100
    service-policy child_r13-25-0384
class r13-26-0385
    shape average 1310000 13100
    service-policy child_r13-26-0385
class r13-27-0386
    shape average 1310000 13100
    service-policy child_r13-27-0386
class r13-28-0387
    shape average 1310000 13100
    service-policy child_r13-28-0387
class r13-29-0388
    shape average 1310000 13100
    service-policy child_r13-29-0388
class r13-30-0389
    shape average 1310000 13100
    service-policy child_r13-30-0389
class r14-1-0390
    shape average 1310000 13100
    service-policy child_r14-1-0390
class r14-2-0391
    shape average 1310000 13100
    service-policy child_r14-2-0391
class r14-3-0392
    shape average 1310000 13100
    service-policy child_r14-3-0392
class r14-4-0393
    shape average 1310000 13100
    service-policy child_r14-4-0393
class r14-5-0394
    shape average 1310000 13100

```

```

    service-policy child_r14-5-0394
class r14-6-0395
    shape average 1310000 13100
    service-policy child_r14-6-0395
class r14-7-0396
    shape average 1310000 13100
    service-policy child_r14-7-0396
class r14-8-0397
    shape average 1310000 13100
    service-policy child_r14-8-0397
class r14-9-0398
    shape average 1310000 13100
    service-policy child_r14-9-0398
class r14-10-0399
    shape average 1310000 13100
    service-policy child_r14-10-0399
class r14-11-0400
    shape average 1310000 13100
    service-policy child_r14-11-0400
class r14-12-0401
    shape average 1310000 13100
    service-policy child_r14-12-0401
class r14-13-0402
    shape average 1310000 13100
    service-policy child_r14-13-0402
class r14-14-0403
    shape average 1310000 13100
    service-policy child_r14-14-0403
class r14-15-0404
    shape average 1310000 13100
    service-policy child_r14-15-0404
class r14-16-0405
    shape average 1310000 13100
    service-policy child_r14-16-0405
class r14-17-0406
    shape average 1310000 13100
    service-policy child_r14-17-0406
class r14-18-0407
    shape average 1310000 13100
    service-policy child_r14-18-0407
class r14-19-0408
    shape average 1310000 13100
    service-policy child_r14-19-0408
class r14-20-0409
    shape average 1310000 13100
    service-policy child_r14-20-0409
class r14-21-0410
    shape average 1310000 13100
    service-policy child_r14-21-0410
class r14-22-0411
    shape average 1310000 13100
    service-policy child_r14-22-0411
class r14-23-0412
    shape average 1310000 13100
    service-policy child_r14-23-0412
class r14-24-0413
    shape average 1310000 13100
    service-policy child_r14-24-0413
class r14-25-0414
    shape average 1310000 13100
    service-policy child_r14-25-0414
class r14-26-0415
    shape average 1310000 13100
    service-policy child_r14-26-0415

```

```

class r14-27-0416
    shape average 1310000 13100
    service-policy child_r14-27-0416
class r14-28-0417
    shape average 1310000 13100
    service-policy child_r14-28-0417
class r14-29-0418
    shape average 1310000 13100
    service-policy child_r14-29-0418
class r14-30-0419
    shape average 1310000 13100
    service-policy child_r14-30-0419
class r17-1-0480
    shape average 1310000 13100
    service-policy child_r17-1-0480
class r17-2-0481
    shape average 1310000 13100
    service-policy child_r17-2-0481
class r17-3-0482
    shape average 1310000 13100
    service-policy child_r17-3-0482
class r17-4-0483
    shape average 1310000 13100
    service-policy child_r17-4-0483
class r17-5-0484
    shape average 1310000 13100
    service-policy child_r17-5-0484
class r17-6-0485
    shape average 1310000 13100
    service-policy child_r17-6-0485
class r17-7-0486
    shape average 1310000 13100
    service-policy child_r17-7-0486
class r17-8-0487
    shape average 1310000 13100
    service-policy child_r17-8-0487
class r17-9-0488
    shape average 1310000 13100
    service-policy child_r17-9-0488
class r17-10-0489
    shape average 1310000 13100
    service-policy child_r17-10-0489
class r17-11-0490
    shape average 1310000 13100
    service-policy child_r17-11-0490
class r17-12-0491
    shape average 1310000 13100
    service-policy child_r17-12-0491
class r17-13-0492
    shape average 1310000 13100
    service-policy child_r17-13-0492
class r17-14-0493
    shape average 1310000 13100
    service-policy child_r17-14-0493
class r17-15-0494
    shape average 1310000 13100
    service-policy child_r17-15-0494
class r17-16-0495
    shape average 1310000 13100
    service-policy child_r17-16-0495
class r17-17-0496
    shape average 1310000 13100
    service-policy child_r17-17-0496
class r17-18-0497

```



```

    shape average 1310000 13100
    service-policy child_r17-18-0497
class r17-19-0498
    shape average 1310000 13100
    service-policy child_r17-19-0498
class r17-20-0499
    shape average 1310000 13100
    service-policy child_r17-20-0499
class r17-21-0500
    shape average 1310000 13100
    service-policy child_r17-21-0500
class r17-22-0501
    shape average 1310000 13100
    service-policy child_r17-22-0501
class r17-23-0502
    shape average 1310000 13100
    service-policy child_r17-23-0502
class r17-24-0503
    shape average 1310000 13100
    service-policy child_r17-24-0503
class r17-25-0504
    shape average 1310000 13100
    service-policy child_r17-25-0504
class r17-26-0505
    shape average 1310000 13100
    service-policy child_r17-26-0505
class r17-27-0506
    shape average 1310000 13100
    service-policy child_r17-27-0506
class r17-28-0507
    shape average 1310000 13100
    service-policy child_r17-28-0507
class r17-29-0508
    shape average 1310000 13100
    service-policy child_r17-29-0508
class r17-30-0509
    shape average 1310000 13100
    service-policy child_r17-30-0509
class r18-1-0510
    shape average 1310000 13100
    service-policy child_r18-1-0510
class r18-2-0511
    shape average 1310000 13100
    service-policy child_r18-2-0511
class r18-3-0512
    shape average 1310000 13100
    service-policy child_r18-3-0512
class r18-4-0513
    shape average 1310000 13100
    service-policy child_r18-4-0513
class r18-5-0514
    shape average 1310000 13100
    service-policy child_r18-5-0514
class r18-6-0515
    shape average 1310000 13100
    service-policy child_r18-6-0515
class r18-7-0516
    shape average 1310000 13100
    service-policy child_r18-7-0516
class r18-8-0517
    shape average 1310000 13100
    service-policy child_r18-8-0517
class r18-9-0518
    shape average 1310000 13100

```

```

    service-policy child_r18-9-0518
class r18-10-0519
    shape average 1310000 13100
    service-policy child_r18-10-0519
class r18-11-0520
    shape average 1310000 13100
    service-policy child_r18-11-0520
class r18-12-0521
    shape average 1310000 13100
    service-policy child_r18-12-0521
class r18-13-0522
    shape average 1310000 13100
    service-policy child_r18-13-0522
class r18-14-0523
    shape average 1310000 13100
    service-policy child_r18-14-0523
class r18-15-0524
    shape average 1310000 13100
    service-policy child_r18-15-0524
class r18-16-0525
    shape average 1310000 13100
    service-policy child_r18-16-0525
class r18-17-0526
    shape average 1310000 13100
    service-policy child_r18-17-0526
class r18-18-0527
    shape average 1310000 13100
    service-policy child_r18-18-0527
class r18-19-0528
    shape average 1310000 13100
    service-policy child_r18-19-0528
class r18-20-0529
    shape average 1310000 13100
    service-policy child_r18-20-0529
class r18-21-0530
    shape average 1310000 13100
    service-policy child_r18-21-0530
class r18-22-0531
    shape average 1310000 13100
    service-policy child_r18-22-0531
class r18-23-0532
    shape average 1310000 13100
    service-policy child_r18-23-0532
class r18-24-0533
    shape average 1310000 13100
    service-policy child_r18-24-0533
class r18-25-0534
    shape average 1310000 13100
    service-policy child_r18-25-0534
class r18-26-0535
    shape average 1310000 13100
    service-policy child_r18-26-0535
class r18-27-0536
    shape average 1310000 13100
    service-policy child_r18-27-0536
class r18-28-0537
    shape average 1310000 13100
    service-policy child_r18-28-0537
class r18-29-0538
    shape average 1310000 13100
    service-policy child_r18-29-0538
class r18-30-0539
    shape average 1310000 13100
    service-policy child_r18-30-0539

```

```

class r19-1-0540
    shape average 1310000 13100
    service-policy child_r19-1-0540
class r19-2-0541
    shape average 1310000 13100
    service-policy child_r19-2-0541
class r19-3-0542
    shape average 1310000 13100
    service-policy child_r19-3-0542
class r19-4-0543
    shape average 1310000 13100
    service-policy child_r19-4-0543
class r19-5-0544
    shape average 1310000 13100
    service-policy child_r19-5-0544
class r19-6-0545
    shape average 1310000 13100
    service-policy child_r19-6-0545
class r19-7-0546
    shape average 1310000 13100
    service-policy child_r19-7-0546
class r19-8-0547
    shape average 1310000 13100
    service-policy child_r19-8-0547
class r19-9-0548
    shape average 1310000 13100
    service-policy child_r19-9-0548
class r19-10-0549
    shape average 1310000 13100
    service-policy child_r19-10-0549
class r19-11-0550
    shape average 1310000 13100
    service-policy child_r19-11-0550
class r19-12-0551
    shape average 1310000 13100
    service-policy child_r19-12-0551
class r19-13-0552
    shape average 1310000 13100
    service-policy child_r19-13-0552
class r19-14-0553
    shape average 1310000 13100
    service-policy child_r19-14-0553
class r19-15-0554
    shape average 1310000 13100
    service-policy child_r19-15-0554
class r19-16-0555
    shape average 1310000 13100
    service-policy child_r19-16-0555
class r19-17-0556
    shape average 1310000 13100
    service-policy child_r19-17-0556
class r19-18-0557
    shape average 1310000 13100
    service-policy child_r19-18-0557
class r19-19-0558
    shape average 1310000 13100
    service-policy child_r19-19-0558
class r19-20-0559
    shape average 1310000 13100
    service-policy child_r19-20-0559
class r19-21-0560
    shape average 1310000 13100
    service-policy child_r19-21-0560
class r19-22-0561

```

```

    shape average 1310000 13100
    service-policy child_r19-22-0561
class r19-23-0562
    shape average 1310000 13100
    service-policy child_r19-23-0562
class r19-24-0563
    shape average 1310000 13100
    service-policy child_r19-24-0563
class r19-25-0564
    shape average 1310000 13100
    service-policy child_r19-25-0564
class r19-26-0565
    shape average 1310000 13100
    service-policy child_r19-26-0565
class r19-27-0566
    shape average 1310000 13100
    service-policy child_r19-27-0566
class r19-28-0567
    shape average 1310000 13100
    service-policy child_r19-28-0567
class r19-29-0568
    shape average 1310000 13100
    service-policy child_r19-29-0568
class r19-30-0569
    shape average 1310000 13100
    service-policy child_r19-30-0569
class r21-1-0600
    shape average 1310000 13100
    service-policy child_r21-1-0600
class r21-2-0601
    shape average 1310000 13100
    service-policy child_r21-2-0601
class r21-3-0602
    shape average 1310000 13100
    service-policy child_r21-3-0602
class r21-4-0603
    shape average 1310000 13100
    service-policy child_r21-4-0603
class r21-5-0604
    shape average 1310000 13100
    service-policy child_r21-5-0604
class r21-6-0605
    shape average 1310000 13100
    service-policy child_r21-6-0605
class r21-7-0606
    shape average 1310000 13100
    service-policy child_r21-7-0606
class r21-8-0607
    shape average 1310000 13100
    service-policy child_r21-8-0607
class r21-9-0608
    shape average 1310000 13100
    service-policy child_r21-9-0608
class r21-10-0609
    shape average 1310000 13100
    service-policy child_r21-10-0609
class r21-11-0610
    shape average 1310000 13100
    service-policy child_r21-11-0610
class r21-12-0611
    shape average 1310000 13100
    service-policy child_r21-12-0611
class r21-13-0612
    shape average 1310000 13100

```

```

    service-policy child_r21-13-0612
class r21-14-0613
    shape average 1310000 13100
    service-policy child_r21-14-0613
class r21-15-0614
    shape average 1310000 13100
    service-policy child_r21-15-0614
class r21-16-0615
    shape average 1310000 13100
    service-policy child_r21-16-0615
class r21-17-0616
    shape average 1310000 13100
    service-policy child_r21-17-0616
class r21-18-0617
    shape average 1310000 13100
    service-policy child_r21-18-0617
class r21-19-0618
    shape average 1310000 13100
    service-policy child_r21-19-0618
class r21-20-0619
    shape average 1310000 13100
    service-policy child_r21-20-0619
class r21-21-0620
    shape average 1310000 13100
    service-policy child_r21-21-0620
class r21-22-0621
    shape average 1310000 13100
    service-policy child_r21-22-0621
class r21-23-0622
    shape average 1310000 13100
    service-policy child_r21-23-0622
class r21-24-0623
    shape average 1310000 13100
    service-policy child_r21-24-0623
class r21-25-0624
    shape average 1310000 13100
    service-policy child_r21-25-0624
class r21-26-0625
    shape average 1310000 13100
    service-policy child_r21-26-0625
class r21-27-0626
    shape average 1310000 13100
    service-policy child_r21-27-0626
class r21-28-0627
    shape average 1310000 13100
    service-policy child_r21-28-0627
class r21-29-0628
    shape average 1310000 13100
    service-policy child_r21-29-0628
class r21-30-0629
    shape average 1310000 13100
    service-policy child_r21-30-0629
policy-map child_r23-3-0662
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based

```

```

class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-11-0850
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-15-0854
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-21-0710
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger

```

```

        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map HUB-B
    class r22-1-0630
        shape average 1310000 13100
    class r22-2-0631
        shape average 1310000 13100
    class r22-3-0632
        shape average 1310000 13100
    class r22-4-0633
        shape average 1310000 13100
    class r22-5-0634
        shape average 1310000 13100
    class r22-6-0635
        shape average 1310000 13100
    class r22-7-0636
        shape average 1310000 13100
policy-map child_r27-23-0802
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r27-7-0786
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r25-11-0730
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15

```

```

class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r26-28-0777
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r30-3-0872
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r22-22-0651
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5

```



```

class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-29-0808
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
!
zone security vpn
    description VPN to Branches
zone security corp
    description Corporate Network
zone-pair security hq-branch source corp destination vpn
    service-policy type inspect hq-branch-policy
zone-pair security branch-hq source vpn destination corp
    service-policy type inspect branch-hq-policy
!
buffers tune automatic
!
!
!
interface Tunnel0
    description Tunnel0
    bandwidth 1000000
    ip address 10.56.0.1 255.255.248.0
    no ip redirects
    ip mtu 1400
    ip hold-time eigrp 1 35
    no ip next-hop-self eigrp 1
    ip authentication mode eigrp 1 md5
    ip authentication key-chain eigrp 1 eigrp-auth
    ip flow ingress
    ip nhrp authentication <strong-key>
    ip nhrp map multicast dynamic
    ip nhrp network-id 105600
    ip nhrp holdtime 1800
    ip nhrp max-send 1000 every 10
    ip nhrp registration timeout 120
    no ip split-horizon eigrp 1
    ip summary-address eigrp 1 10.204.0.0 255.252.0.0 5

```

```

load-interval 60
flow-sampler CSMARS-SAMPLE
qos pre-classify
tunnel source Loopback0
tunnel mode gre multipoint
tunnel key 105600
tunnel protection ipsec profile vpn-dmvpn
!
interface Loopback0
ip address 192.168.34.1 255.255.255.255
no ip proxy-arp
load-interval 60
!
interface Loopback1
ip address 10.208.32.1 255.255.255.252
no ip proxy-arp
load-interval 60
!

interface GigabitEthernet0/0/0
description To switch-1
no ip address
no ip redirects
no ip proxy-arp
load-interval 60
negotiation auto
no mop enabled
!
interface GigabitEthernet0/0/0.10
description To switch-1
encapsulation dot1Q 10
ip address 10.208.10.2 255.255.255.252
no ip redirects
no ip proxy-arp
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
!
interface GigabitEthernet0/0/0.999
description Battleship
encapsulation dot1Q 999
ip address 10.204.0.6 255.252.0.0
no ip redirects
no ip proxy-arp
no cdp enable
!
interface GigabitEthernet0/0/1
description To switch-2
no ip address
no ip redirects
no ip proxy-arp
load-interval 60
negotiation auto
no mop enabled
!
interface GigabitEthernet0/0/1.16
description To switch-2
encapsulation dot1Q 16
ip address 10.208.16.2 255.255.255.252
no ip redirects
no ip proxy-arp
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
!
interface GigabitEthernet0/0/1.21

```

```

description Planned for WAE-2
shutdown
!
interface GigabitEthernet0/0/2
description EC to switch-1
no ip address
load-interval 60
shutdown
negotiation auto
no cdp enable
no mop enabled
!
interface GigabitEthernet0/0/3
description WAN: MPLS A
ip address 192.168.160.114 255.255.255.248
ip access-group 120 in
ip verify unicast source reachable-via any
no ip redirects
no ip proxy-arp
ip flow ingress
load-interval 30
negotiation auto
snmp trap ip verify drop-rate
flow-sampler CSMARS-SAMPLE
no cdp enable
no mop enabled
!
interface GigabitEthernet0/0/4
description WAN: MPLS B
ip address 192.168.188.10 255.255.255.248
ip access-group 121 in
ip verify unicast source reachable-via any
no ip redirects
no ip proxy-arp
ip flow ingress
load-interval 30
shutdown
negotiation auto
snmp trap ip verify drop-rate
flow-sampler CSMARS-SAMPLE
no cdp enable
no mop enabled
!
interface GigabitEthernet0
description OOB Mgmt
vrf forwarding Mgmt-intf
ip address <OOB-IP> <mask>
ip access-group 133 in
ip access-group 134 out
no ip redirects
no ip proxy-arp
load-interval 60
negotiation auto
no mop enabled
!
router eigrp 1
network 10.56.0.0 0.0.255.255
network 10.0.0.0
no auto-summary
passive-interface default
no passive-interface GigabitEthernet0/0/1.16
no passive-interface Tunnel0
offset-list 0 out 50 GigabitEthernet0/0/1.16
!

```

```

router eigrp 100
 network 192.168.0.0 0.0.255.255
 no auto-summary
 distribute-list DMVPNHUB out
 passive-interface default
 no passive-interface GigabitEthernet0/0/3
 no passive-interface GigabitEthernet0/0/4
 offset-list 0 out 50 GigabitEthernet0/0/4
!
ip classless
ip route vrf Mgmt-intf <OOB-Net> <inverse-mask> <OOB-GW>
!
ip flow-export source Loopback1
ip flow-export destination <CS-MARS-IP> <port#>
no ip http server
no ip http secure-server
!
ip access-list standard DMVPNHUB
 permit 192.168.34.1
!
ip access-list extended coppacl-critical-app
 remark CoPP critical apps traffic class
 permit ip <OOB-net> <inverse-mask> host 224.0.0.2
ip access-list extended coppacl-filemanagement
 remark CoPP File transfer traffic class
 permit tcp any eq ftp host <OOB-IP> gt 1023 established
 permit tcp <OOB-net> <inverse-mask> eq ftp-data host <OOB-IP> gt 1023
 permit tcp <OOB-net> <inverse-mask> gt 1023 host <OOB-IP> gt 1023 established
 permit udp <OOB-net> <inverse-mask> gt 1023 host <OOB-IP> gt 1023
ip access-list extended coppacl-igmp
 remark IGP traffic class
 permit eigrp any any
ip access-list extended coppacl-management
 remark CoPP management traffic class
 permit tcp <OOB-net> <inverse-mask> eq tacacs any established
 permit tcp <OOB-net> <inverse-mask> any eq 22
 permit tcp <OOB-net> <inverse-mask> any eq telnet
 permit udp <OOB-net> <inverse-mask> host <OOB-IP> eq snmp
 permit udp host <NTP-Server1> host <OOB-IP> eq ntp
 permit udp host <NTP-Server2> host <OOB-IP> eq ntp
 permit udp host <NTP-Peer> host <OOB-IP> eq ntp
ip access-list extended coppacl-monitoring
 remark CoPP monitoring traffic class
 permit icmp any any ttl-exceeded
 permit icmp any any port-unreachable
 permit icmp any any echo-reply
 permit icmp any any echo
ip access-list extended coppacl-vpn
 remark CoPP VPN and GRE class
 permit gre any host 192.168.34.1
 permit udp any host 192.168.34.1 eq isakmp
 permit udp any host 192.168.34.1 eq non500-isakmp
ip access-list extended r10-1-0270
 permit ip any 10.194.0.0 0.0.0.255
ip access-list extended r10-10-0279
 permit ip any 10.194.9.0 0.0.0.255
ip access-list extended r10-11-0280
 permit ip any 10.194.10.0 0.0.0.255
ip access-list extended r10-12-0281
 permit ip any 10.194.11.0 0.0.0.255
ip access-list extended r10-13-0282
 permit ip any 10.194.12.0 0.0.0.255
ip access-list extended r10-14-0283
 permit ip any 10.194.13.0 0.0.0.255

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ip access-list extended r10-15-0284
  permit ip any 10.194.14.0 0.0.0.255
ip access-list extended r10-16-0285
  permit ip any 10.194.15.0 0.0.0.255
ip access-list extended r10-17-0286
  permit ip any 10.194.16.0 0.0.0.255
ip access-list extended r10-18-0287
  permit ip any 10.194.17.0 0.0.0.255
ip access-list extended r10-19-0288
  permit ip any 10.194.18.0 0.0.0.255
ip access-list extended r10-2-0271
  permit ip any 10.194.1.0 0.0.0.255
ip access-list extended r10-20-0289
  permit ip any 10.194.19.0 0.0.0.255
ip access-list extended r10-21-0290
  permit ip any 10.194.20.0 0.0.0.255
ip access-list extended r10-22-0291
  permit ip any 10.194.21.0 0.0.0.255
ip access-list extended r10-23-0292
  permit ip any 10.194.22.0 0.0.0.255
ip access-list extended r10-24-0293
  permit ip any 10.194.23.0 0.0.0.255
ip access-list extended r10-25-0294
  permit ip any 10.194.24.0 0.0.0.255
ip access-list extended r10-26-0295
  permit ip any 10.194.25.0 0.0.0.255
ip access-list extended r10-27-0296
  permit ip any 10.194.26.0 0.0.0.255
ip access-list extended r10-28-0297
  permit ip any 10.194.27.0 0.0.0.255
ip access-list extended r10-29-0298
  permit ip any 10.194.28.0 0.0.0.255
ip access-list extended r10-3-0272
  permit ip any 10.194.2.0 0.0.0.255
ip access-list extended r10-30-0299
  permit ip any 10.194.29.0 0.0.0.255
ip access-list extended r10-4-0273
  permit ip any 10.194.3.0 0.0.0.255
ip access-list extended r10-5-0274
  permit ip any 10.194.4.0 0.0.0.255
ip access-list extended r10-6-0275
  permit ip any 10.194.5.0 0.0.0.255
ip access-list extended r10-7-0276
  permit ip any 10.194.6.0 0.0.0.255
ip access-list extended r10-8-0277
  permit ip any 10.194.7.0 0.0.0.255
ip access-list extended r10-9-0278
  permit ip any 10.194.8.0 0.0.0.255
ip access-list extended r13-1-0360
  permit ip any 10.194.128.0 0.0.0.255
ip access-list extended r13-10-0369
  permit ip any 10.194.137.0 0.0.0.255
ip access-list extended r13-11-0370
  permit ip any 10.194.138.0 0.0.0.255
ip access-list extended r13-12-0371
  permit ip any 10.194.139.0 0.0.0.255
ip access-list extended r13-13-0372
  permit ip any 10.194.140.0 0.0.0.255
ip access-list extended r13-14-0373
  permit ip any 10.194.141.0 0.0.0.255
ip access-list extended r13-15-0374
  permit ip any 10.194.142.0 0.0.0.255
ip access-list extended r13-16-0375
  permit ip any 10.194.143.0 0.0.0.255

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ip access-list extended r13-17-0376
  permit ip any 10.194.144.0 0.0.0.255
ip access-list extended r13-18-0377
  permit ip any 10.194.145.0 0.0.0.255
ip access-list extended r13-19-0378
  permit ip any 10.194.146.0 0.0.0.255
ip access-list extended r13-2-0361
  permit ip any 10.194.129.0 0.0.0.255
ip access-list extended r13-20-0379
  permit ip any 10.194.147.0 0.0.0.255
ip access-list extended r13-21-0380
  permit ip any 10.194.148.0 0.0.0.255
ip access-list extended r13-22-0381
  permit ip any 10.194.149.0 0.0.0.255
ip access-list extended r13-23-0382
  permit ip any 10.194.150.0 0.0.0.255
ip access-list extended r13-24-0383
  permit ip any 10.194.151.0 0.0.0.255
ip access-list extended r13-25-0384
  permit ip any 10.194.152.0 0.0.0.255
ip access-list extended r13-26-0385
  permit ip any 10.194.153.0 0.0.0.255
ip access-list extended r13-27-0386
  permit ip any 10.194.154.0 0.0.0.255
ip access-list extended r13-28-0387
  permit ip any 10.194.155.0 0.0.0.255
ip access-list extended r13-29-0388
  permit ip any 10.194.156.0 0.0.0.255
ip access-list extended r13-3-0362
  permit ip any 10.194.130.0 0.0.0.255
ip access-list extended r13-30-0389
  permit ip any 10.194.157.0 0.0.0.255
ip access-list extended r13-4-0363
  permit ip any 10.194.131.0 0.0.0.255
ip access-list extended r13-5-0364
  permit ip any 10.194.132.0 0.0.0.255
ip access-list extended r13-6-0365
  permit ip any 10.194.133.0 0.0.0.255
ip access-list extended r13-7-0366
  permit ip any 10.194.134.0 0.0.0.255
ip access-list extended r13-8-0367
  permit ip any 10.194.135.0 0.0.0.255
ip access-list extended r13-9-0368
  permit ip any 10.194.136.0 0.0.0.255
ip access-list extended r14-1-0390
  permit ip any 10.194.160.0 0.0.0.255
ip access-list extended r14-10-0399
  permit ip any 10.194.169.0 0.0.0.255
ip access-list extended r14-11-0400
  permit ip any 10.194.170.0 0.0.0.255
ip access-list extended r14-12-0401
  permit ip any 10.194.171.0 0.0.0.255
ip access-list extended r14-13-0402
  permit ip any 10.194.172.0 0.0.0.255
ip access-list extended r14-14-0403
  permit ip any 10.194.173.0 0.0.0.255
ip access-list extended r14-15-0404
  permit ip any 10.194.174.0 0.0.0.255
ip access-list extended r14-16-0405
  permit ip any 10.194.175.0 0.0.0.255
ip access-list extended r14-17-0406
  permit ip any 10.194.176.0 0.0.0.255
ip access-list extended r14-18-0407
  permit ip any 10.194.177.0 0.0.0.255

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ip access-list extended r14-19-0408
  permit ip any 10.194.178.0 0.0.0.255
ip access-list extended r14-2-0391
  permit ip any 10.194.161.0 0.0.0.255
ip access-list extended r14-20-0409
  permit ip any 10.194.179.0 0.0.0.255
ip access-list extended r14-21-0410
  permit ip any 10.194.180.0 0.0.0.255
ip access-list extended r14-22-0411
  permit ip any 10.194.181.0 0.0.0.255
ip access-list extended r14-23-0412
  permit ip any 10.194.182.0 0.0.0.255
ip access-list extended r14-24-0413
  permit ip any 10.194.183.0 0.0.0.255
ip access-list extended r14-25-0414
  permit ip any 10.194.184.0 0.0.0.255
ip access-list extended r14-26-0415
  permit ip any 10.194.185.0 0.0.0.255
ip access-list extended r14-27-0416
  permit ip any 10.194.186.0 0.0.0.255
ip access-list extended r14-28-0417
  permit ip any 10.194.187.0 0.0.0.255
ip access-list extended r14-29-0418
  permit ip any 10.194.188.0 0.0.0.255
ip access-list extended r14-3-0392
  permit ip any 10.194.162.0 0.0.0.255
ip access-list extended r14-30-0419
  permit ip any 10.194.189.0 0.0.0.255
ip access-list extended r14-4-0393
  permit ip any 10.194.163.0 0.0.0.255
ip access-list extended r14-5-0394
  permit ip any 10.194.164.0 0.0.0.255
ip access-list extended r14-6-0395
  permit ip any 10.194.165.0 0.0.0.255
ip access-list extended r14-7-0396
  permit ip any 10.194.166.0 0.0.0.255
ip access-list extended r14-8-0397
  permit ip any 10.194.167.0 0.0.0.255
ip access-list extended r14-9-0398
  permit ip any 10.194.168.0 0.0.0.255
ip access-list extended r17-1-0480
  permit ip any 10.195.32.0 0.0.0.255
ip access-list extended r17-10-0489
  permit ip any 10.195.41.0 0.0.0.255
ip access-list extended r17-11-0490
  permit ip any 10.195.42.0 0.0.0.255
ip access-list extended r17-12-0491
  permit ip any 10.195.43.0 0.0.0.255
ip access-list extended r17-13-0492
  permit ip any 10.195.44.0 0.0.0.255
ip access-list extended r17-14-0493
  permit ip any 10.195.45.0 0.0.0.255
ip access-list extended r17-15-0494
  permit ip any 10.195.46.0 0.0.0.255
ip access-list extended r17-16-0495
  permit ip any 10.195.47.0 0.0.0.255
ip access-list extended r17-17-0496
  permit ip any 10.195.48.0 0.0.0.255
ip access-list extended r17-18-0497
  permit ip any 10.195.49.0 0.0.0.255
ip access-list extended r17-19-0498
  permit ip any 10.195.50.0 0.0.0.255
ip access-list extended r17-2-0481
  permit ip any 10.195.33.0 0.0.0.255

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ip access-list extended r17-20-0499
  permit ip any 10.195.51.0 0.0.0.255
ip access-list extended r17-21-0500
  permit ip any 10.195.52.0 0.0.0.255
ip access-list extended r17-22-0501
  permit ip any 10.195.53.0 0.0.0.255
ip access-list extended r17-23-0502
  permit ip any 10.195.54.0 0.0.0.255
ip access-list extended r17-24-0503
  permit ip any 10.195.55.0 0.0.0.255
ip access-list extended r17-25-0504
  permit ip any 10.195.56.0 0.0.0.255
ip access-list extended r17-26-0505
  permit ip any 10.195.57.0 0.0.0.255
ip access-list extended r17-27-0506
  permit ip any 10.195.58.0 0.0.0.255
ip access-list extended r17-28-0507
  permit ip any 10.195.59.0 0.0.0.255
ip access-list extended r17-29-0508
  permit ip any 10.195.60.0 0.0.0.255
ip access-list extended r17-3-0482
  permit ip any 10.195.34.0 0.0.0.255
ip access-list extended r17-30-0509
  permit ip any 10.195.61.0 0.0.0.255
ip access-list extended r17-4-0483
  permit ip any 10.195.35.0 0.0.0.255
ip access-list extended r17-5-0484
  permit ip any 10.195.36.0 0.0.0.255
ip access-list extended r17-6-0485
  permit ip any 10.195.37.0 0.0.0.255
ip access-list extended r17-7-0486
  permit ip any 10.195.38.0 0.0.0.255
ip access-list extended r17-8-0487
  permit ip any 10.195.39.0 0.0.0.255
ip access-list extended r17-9-0488
  permit ip any 10.195.40.0 0.0.0.255
ip access-list extended r18-1-0510
  permit ip any 10.195.64.0 0.0.0.255
ip access-list extended r18-10-0519
  permit ip any 10.195.73.0 0.0.0.255
ip access-list extended r18-11-0520
  permit ip any 10.195.74.0 0.0.0.255
ip access-list extended r18-12-0521
  permit ip any 10.195.75.0 0.0.0.255
ip access-list extended r18-13-0522
  permit ip any 10.195.76.0 0.0.0.255
ip access-list extended r18-14-0523
  permit ip any 10.195.77.0 0.0.0.255
ip access-list extended r18-15-0524
  permit ip any 10.195.78.0 0.0.0.255
ip access-list extended r18-16-0525
  permit ip any 10.195.79.0 0.0.0.255
ip access-list extended r18-17-0526
  permit ip any 10.195.80.0 0.0.0.255
ip access-list extended r18-18-0527
  permit ip any 10.195.81.0 0.0.0.255
ip access-list extended r18-19-0528
  permit ip any 10.195.82.0 0.0.0.255
ip access-list extended r18-2-0511
  permit ip any 10.195.65.0 0.0.0.255
ip access-list extended r18-20-0529
  permit ip any 10.195.83.0 0.0.0.255
ip access-list extended r18-21-0530
  permit ip any 10.195.84.0 0.0.0.255
```



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ip access-list extended r18-22-0531
  permit ip any 10.195.85.0 0.0.0.255
ip access-list extended r18-23-0532
  permit ip any 10.195.86.0 0.0.0.255
ip access-list extended r18-24-0533
  permit ip any 10.195.87.0 0.0.0.255
ip access-list extended r18-25-0534
  permit ip any 10.195.88.0 0.0.0.255
ip access-list extended r18-26-0535
  permit ip any 10.195.89.0 0.0.0.255
ip access-list extended r18-27-0536
  permit ip any 10.195.90.0 0.0.0.255
ip access-list extended r18-28-0537
  permit ip any 10.195.91.0 0.0.0.255
ip access-list extended r18-29-0538
  permit ip any 10.195.92.0 0.0.0.255
ip access-list extended r18-3-0512
  permit ip any 10.195.66.0 0.0.0.255
ip access-list extended r18-30-0539
  permit ip any 10.195.93.0 0.0.0.255
ip access-list extended r18-4-0513
  permit ip any 10.195.67.0 0.0.0.255
ip access-list extended r18-5-0514
  permit ip any 10.195.68.0 0.0.0.255
ip access-list extended r18-6-0515
  permit ip any 10.195.69.0 0.0.0.255
ip access-list extended r18-7-0516
  permit ip any 10.195.70.0 0.0.0.255
ip access-list extended r18-8-0517
  permit ip any 10.195.71.0 0.0.0.255
ip access-list extended r18-9-0518
  permit ip any 10.195.72.0 0.0.0.255
ip access-list extended r19-1-0540
  permit ip any 10.196.0.0 0.0.0.255
ip access-list extended r19-10-0549
  permit ip any 10.196.9.0 0.0.0.255
ip access-list extended r19-11-0550
  permit ip any 10.196.10.0 0.0.0.255
ip access-list extended r19-12-0551
  permit ip any 10.196.11.0 0.0.0.255
ip access-list extended r19-13-0552
  permit ip any 10.196.12.0 0.0.0.255
ip access-list extended r19-14-0553
  permit ip any 10.196.13.0 0.0.0.255
ip access-list extended r19-15-0554
  permit ip any 10.196.14.0 0.0.0.255
ip access-list extended r19-16-0555
  permit ip any 10.196.15.0 0.0.0.255
ip access-list extended r19-17-0556
  permit ip any 10.196.16.0 0.0.0.255
ip access-list extended r19-18-0557
  permit ip any 10.196.17.0 0.0.0.255
ip access-list extended r19-19-0558
  permit ip any 10.196.18.0 0.0.0.255
ip access-list extended r19-2-0541
  permit ip any 10.196.1.0 0.0.0.255
ip access-list extended r19-20-0559
  permit ip any 10.196.19.0 0.0.0.255
ip access-list extended r19-21-0560
  permit ip any 10.196.20.0 0.0.0.255
ip access-list extended r19-22-0561
  permit ip any 10.196.21.0 0.0.0.255
ip access-list extended r19-23-0562
  permit ip any 10.196.22.0 0.0.0.255

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```
ip access-list extended r19-24-0563
 permit ip any 10.196.23.0 0.0.0.255
ip access-list extended r19-25-0564
 permit ip any 10.196.24.0 0.0.0.255
ip access-list extended r19-26-0565
 permit ip any 10.196.25.0 0.0.0.255
ip access-list extended r19-27-0566
 permit ip any 10.196.26.0 0.0.0.255
ip access-list extended r19-28-0567
 permit ip any 10.196.27.0 0.0.0.255
ip access-list extended r19-29-0568
 permit ip any 10.196.28.0 0.0.0.255
ip access-list extended r19-3-0542
 permit ip any 10.196.2.0 0.0.0.255
ip access-list extended r19-30-0569
 permit ip any 10.196.29.0 0.0.0.255
ip access-list extended r19-4-0543
 permit ip any 10.196.3.0 0.0.0.255
ip access-list extended r19-5-0544
 permit ip any 10.196.4.0 0.0.0.255
ip access-list extended r19-6-0545
 permit ip any 10.196.5.0 0.0.0.255
ip access-list extended r19-7-0546
 permit ip any 10.196.6.0 0.0.0.255
ip access-list extended r19-8-0547
 permit ip any 10.196.7.0 0.0.0.255
ip access-list extended r19-9-0548
 permit ip any 10.196.8.0 0.0.0.255
ip access-list extended r21-1-0600
 permit ip any 10.196.64.0 0.0.0.255
ip access-list extended r21-10-0609
 permit ip any 10.196.73.0 0.0.0.255
ip access-list extended r21-11-0610
 permit ip any 10.196.74.0 0.0.0.255
ip access-list extended r21-12-0611
 permit ip any 10.196.75.0 0.0.0.255
ip access-list extended r21-13-0612
 permit ip any 10.196.76.0 0.0.0.255
ip access-list extended r21-14-0613
 permit ip any 10.196.77.0 0.0.0.255
ip access-list extended r21-15-0614
 permit ip any 10.196.78.0 0.0.0.255
ip access-list extended r21-16-0615
 permit ip any 10.196.79.0 0.0.0.255
ip access-list extended r21-17-0616
 permit ip any 10.196.80.0 0.0.0.255
ip access-list extended r21-18-0617
 permit ip any 10.196.81.0 0.0.0.255
ip access-list extended r21-19-0618
 permit ip any 10.196.82.0 0.0.0.255
ip access-list extended r21-2-0601
 permit ip any 10.196.65.0 0.0.0.255
ip access-list extended r21-20-0619
 permit ip any 10.196.83.0 0.0.0.255
ip access-list extended r21-21-0620
 permit ip any 10.196.84.0 0.0.0.255
ip access-list extended r21-22-0621
 permit ip any 10.196.85.0 0.0.0.255
ip access-list extended r21-23-0622
 permit ip any 10.196.86.0 0.0.0.255
ip access-list extended r21-24-0623
 permit ip any 10.196.87.0 0.0.0.255
ip access-list extended r21-25-0624
 permit ip any 10.196.88.0 0.0.0.255
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```

ip access-list extended r21-26-0625
  permit ip any 10.196.89.0 0.0.0.255
ip access-list extended r21-27-0626
  permit ip any 10.196.90.0 0.0.0.255
ip access-list extended r21-28-0627
  permit ip any 10.196.91.0 0.0.0.255
ip access-list extended r21-29-0628
  permit ip any 10.196.92.0 0.0.0.255
ip access-list extended r21-3-0602
  permit ip any 10.196.66.0 0.0.0.255
ip access-list extended r21-30-0629
  permit ip any 10.196.93.0 0.0.0.255
ip access-list extended r21-4-0603
  permit ip any 10.196.67.0 0.0.0.255
ip access-list extended r21-5-0604
  permit ip any 10.196.68.0 0.0.0.255
ip access-list extended r21-6-0605
  permit ip any 10.196.69.0 0.0.0.255
ip access-list extended r21-7-0606
  permit ip any 10.196.70.0 0.0.0.255
ip access-list extended r21-8-0607
  permit ip any 10.196.71.0 0.0.0.255
ip access-list extended r21-9-0608
  permit ip any 10.196.72.0 0.0.0.255
ip access-list extended r22-1-0630
  permit ip any 10.196.128.0 0.0.0.255
ip access-list extended r22-10-0639
  permit ip any 10.196.137.0 0.0.0.255
ip access-list extended r22-11-0640
  permit ip any 10.196.138.0 0.0.0.255
ip access-list extended r22-12-0641
  permit ip any 10.196.139.0 0.0.0.255
ip access-list extended r22-13-0642
  permit ip any 10.196.140.0 0.0.0.255
ip access-list extended r22-14-0643
  permit ip any 10.196.141.0 0.0.0.255
ip access-list extended r22-15-0644
  permit ip any 10.196.142.0 0.0.0.255
ip access-list extended r22-16-0645
  permit ip any 10.196.143.0 0.0.0.255
ip access-list extended r22-17-0646
  permit ip any 10.196.144.0 0.0.0.255
ip access-list extended r22-18-0647
  permit ip any 10.196.145.0 0.0.0.255
ip access-list extended r22-19-0648
  permit ip any 10.196.146.0 0.0.0.255
ip access-list extended r22-2-0631
  permit ip any 10.196.129.0 0.0.0.255
ip access-list extended r22-20-0649
  permit ip any 10.196.147.0 0.0.0.255
ip access-list extended r22-21-0650
  permit ip any 10.196.148.0 0.0.0.255
ip access-list extended r22-22-0651
  permit ip any 10.196.149.0 0.0.0.255
ip access-list extended r22-23-0652
  permit ip any 10.196.150.0 0.0.0.255
ip access-list extended r22-24-0653
  permit ip any 10.196.151.0 0.0.0.255
ip access-list extended r22-25-0654
  permit ip any 10.196.152.0 0.0.0.255
ip access-list extended r22-26-0655
  permit ip any 10.196.153.0 0.0.0.255
ip access-list extended r22-27-0656
  permit ip any 10.196.154.0 0.0.0.255

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```
ip access-list extended r22-28-0657
  permit ip any 10.196.155.0 0.0.0.255
ip access-list extended r22-29-0658
  permit ip any 10.196.156.0 0.0.0.255
ip access-list extended r22-3-0632
  permit ip any 10.196.130.0 0.0.0.255
ip access-list extended r22-30-0659
  permit ip any 10.196.157.0 0.0.0.255
ip access-list extended r22-4-0633
  permit ip any 10.196.131.0 0.0.0.255
ip access-list extended r22-5-0634
  permit ip any 10.196.132.0 0.0.0.255
ip access-list extended r22-6-0635
  permit ip any 10.196.133.0 0.0.0.255
ip access-list extended r22-7-0636
  permit ip any 10.196.134.0 0.0.0.255
ip access-list extended r22-8-0637
  permit ip any 10.196.135.0 0.0.0.255
ip access-list extended r22-9-0638
  permit ip any 10.196.136.0 0.0.0.255
ip access-list extended r23-1-0660
  permit ip any 10.196.160.0 0.0.0.255
ip access-list extended r23-10-0669
  permit ip any 10.196.169.0 0.0.0.255
ip access-list extended r23-11-0670
  permit ip any 10.196.170.0 0.0.0.255
ip access-list extended r23-12-0671
  permit ip any 10.196.171.0 0.0.0.255
ip access-list extended r23-13-0672
  permit ip any 10.196.172.0 0.0.0.255
ip access-list extended r23-14-0673
  permit ip any 10.196.173.0 0.0.0.255
ip access-list extended r23-15-0674
  permit ip any 10.196.174.0 0.0.0.255
ip access-list extended r23-16-0675
  permit ip any 10.196.175.0 0.0.0.255
ip access-list extended r23-17-0676
  permit ip any 10.196.176.0 0.0.0.255
ip access-list extended r23-18-0677
  permit ip any 10.196.177.0 0.0.0.255
ip access-list extended r23-19-0678
  permit ip any 10.196.178.0 0.0.0.255
ip access-list extended r23-2-0661
  permit ip any 10.196.161.0 0.0.0.255
ip access-list extended r23-20-0679
  permit ip any 10.196.179.0 0.0.0.255
ip access-list extended r23-21-0680
  permit ip any 10.196.180.0 0.0.0.255
ip access-list extended r23-22-0681
  permit ip any 10.196.181.0 0.0.0.255
ip access-list extended r23-23-0682
  permit ip any 10.196.182.0 0.0.0.255
ip access-list extended r23-24-0683
  permit ip any 10.196.183.0 0.0.0.255
ip access-list extended r23-25-0684
  permit ip any 10.196.184.0 0.0.0.255
ip access-list extended r23-26-0685
  permit ip any 10.196.185.0 0.0.0.255
ip access-list extended r23-27-0686
  permit ip any 10.196.186.0 0.0.0.255
ip access-list extended r23-28-0687
  permit ip any 10.196.187.0 0.0.0.255
ip access-list extended r23-29-0688
  permit ip any 10.196.188.0 0.0.0.255
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ip access-list extended r23-3-0662
  permit ip any 10.196.162.0 0.0.0.255
ip access-list extended r23-30-0689
  permit ip any 10.196.189.0 0.0.0.255
ip access-list extended r23-4-0663
  permit ip any 10.196.163.0 0.0.0.255
ip access-list extended r23-5-0664
  permit ip any 10.196.164.0 0.0.0.255
ip access-list extended r23-6-0665
  permit ip any 10.196.165.0 0.0.0.255
ip access-list extended r23-7-0666
  permit ip any 10.196.166.0 0.0.0.255
ip access-list extended r23-8-0667
  permit ip any 10.196.167.0 0.0.0.255
ip access-list extended r23-9-0668
  permit ip any 10.196.168.0 0.0.0.255
ip access-list extended r24-1-0690
  permit ip any 10.196.192.0 0.0.0.255
ip access-list extended r24-10-0699
  permit ip any 10.196.201.0 0.0.0.255
ip access-list extended r24-11-0700
  permit ip any 10.196.202.0 0.0.0.255
ip access-list extended r24-12-0701
  permit ip any 10.196.203.0 0.0.0.255
ip access-list extended r24-13-0702
  permit ip any 10.196.204.0 0.0.0.255
ip access-list extended r24-14-0703
  permit ip any 10.196.205.0 0.0.0.255
ip access-list extended r24-15-0704
  permit ip any 10.196.206.0 0.0.0.255
ip access-list extended r24-16-0705
  permit ip any 10.196.207.0 0.0.0.255
ip access-list extended r24-17-0706
  permit ip any 10.196.208.0 0.0.0.255
ip access-list extended r24-18-0707
  permit ip any 10.196.209.0 0.0.0.255
ip access-list extended r24-19-0708
  permit ip any 10.196.210.0 0.0.0.255
ip access-list extended r24-2-0691
  permit ip any 10.196.193.0 0.0.0.255
ip access-list extended r24-20-0709
  permit ip any 10.196.211.0 0.0.0.255
ip access-list extended r24-21-0710
  permit ip any 10.196.212.0 0.0.0.255
ip access-list extended r24-22-0711
  permit ip any 10.196.213.0 0.0.0.255
ip access-list extended r24-23-0712
  permit ip any 10.196.214.0 0.0.0.255
ip access-list extended r24-24-0713
  permit ip any 10.196.215.0 0.0.0.255
ip access-list extended r24-25-0714
  permit ip any 10.196.216.0 0.0.0.255
ip access-list extended r24-26-0715
  permit ip any 10.196.217.0 0.0.0.255
ip access-list extended r24-27-0716
  permit ip any 10.196.218.0 0.0.0.255
ip access-list extended r24-28-0717
  permit ip any 10.196.219.0 0.0.0.255
ip access-list extended r24-29-0718
  permit ip any 10.196.220.0 0.0.0.255
ip access-list extended r24-3-0692
  permit ip any 10.196.194.0 0.0.0.255
ip access-list extended r24-30-0719
  permit ip any 10.196.221.0 0.0.0.255

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ip access-list extended r24-4-0693
  permit ip any 10.196.195.0 0.0.0.255
ip access-list extended r24-5-0694
  permit ip any 10.196.196.0 0.0.0.255
ip access-list extended r24-6-0695
  permit ip any 10.196.197.0 0.0.0.255
ip access-list extended r24-7-0696
  permit ip any 10.196.198.0 0.0.0.255
ip access-list extended r24-8-0697
  permit ip any 10.196.199.0 0.0.0.255
ip access-list extended r24-9-0698
  permit ip any 10.196.200.0 0.0.0.255
ip access-list extended r25-1-0720
  permit ip any 10.197.0.0 0.0.0.255
ip access-list extended r25-10-0729
  permit ip any 10.197.9.0 0.0.0.255
ip access-list extended r25-11-0730
  permit ip any 10.197.10.0 0.0.0.255
ip access-list extended r25-12-0731
  permit ip any 10.197.11.0 0.0.0.255
ip access-list extended r25-13-0732
  permit ip any 10.197.12.0 0.0.0.255
ip access-list extended r25-14-0733
  permit ip any 10.197.13.0 0.0.0.255
ip access-list extended r25-15-0734
  permit ip any 10.197.14.0 0.0.0.255
ip access-list extended r25-16-0735
  permit ip any 10.197.15.0 0.0.0.255
ip access-list extended r25-17-0736
  permit ip any 10.197.16.0 0.0.0.255
ip access-list extended r25-18-0737
  permit ip any 10.197.17.0 0.0.0.255
ip access-list extended r25-19-0738
  permit ip any 10.197.18.0 0.0.0.255
ip access-list extended r25-2-0721
  permit ip any 10.197.1.0 0.0.0.255
ip access-list extended r25-20-0739
  permit ip any 10.197.19.0 0.0.0.255
ip access-list extended r25-21-0740
  permit ip any 10.197.20.0 0.0.0.255
ip access-list extended r25-22-0741
  permit ip any 10.197.21.0 0.0.0.255
ip access-list extended r25-23-0742
  permit ip any 10.197.22.0 0.0.0.255
ip access-list extended r25-24-0743
  permit ip any 10.197.23.0 0.0.0.255
ip access-list extended r25-25-0744
  permit ip any 10.197.24.0 0.0.0.255
ip access-list extended r25-26-0745
  permit ip any 10.197.25.0 0.0.0.255
ip access-list extended r25-27-0746
  permit ip any 10.197.26.0 0.0.0.255
ip access-list extended r25-28-0747
  permit ip any 10.197.27.0 0.0.0.255
ip access-list extended r25-29-0748
  permit ip any 10.197.28.0 0.0.0.255
ip access-list extended r25-3-0722
  permit ip any 10.197.2.0 0.0.0.255
ip access-list extended r25-30-0749
  permit ip any 10.197.29.0 0.0.0.255
ip access-list extended r25-4-0723
  permit ip any 10.197.3.0 0.0.0.255
ip access-list extended r25-5-0724
  permit ip any 10.197.4.0 0.0.0.255
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ip access-list extended r25-6-0725
  permit ip any 10.197.5.0 0.0.0.255
ip access-list extended r25-7-0726
  permit ip any 10.197.6.0 0.0.0.255
ip access-list extended r25-8-0727
  permit ip any 10.197.7.0 0.0.0.255
ip access-list extended r25-9-0728
  permit ip any 10.197.8.0 0.0.0.255
ip access-list extended r26-1-0750
  permit ip any 10.197.32.0 0.0.0.255
ip access-list extended r26-10-0759
  permit ip any 10.197.41.0 0.0.0.255
ip access-list extended r26-11-0760
  permit ip any 10.197.42.0 0.0.0.255
ip access-list extended r26-12-0761
  permit ip any 10.197.43.0 0.0.0.255
ip access-list extended r26-13-0762
  permit ip any 10.197.44.0 0.0.0.255
ip access-list extended r26-14-0763
  permit ip any 10.197.45.0 0.0.0.255
ip access-list extended r26-15-0764
  permit ip any 10.197.46.0 0.0.0.255
ip access-list extended r26-17-0766
  permit ip any 10.197.48.0 0.0.0.255
ip access-list extended r26-18-0767
  permit ip any 10.197.49.0 0.0.0.255
ip access-list extended r26-19-0768
  permit ip any 10.197.50.0 0.0.0.255
ip access-list extended r26-2-0751
  permit ip any 10.197.33.0 0.0.0.255
ip access-list extended r26-20-0769
  permit ip any 10.197.51.0 0.0.0.255
ip access-list extended r26-21-0770
  permit ip any 10.197.52.0 0.0.0.255
ip access-list extended r26-22-0771
  permit ip any 10.197.53.0 0.0.0.255
ip access-list extended r26-23-0772
  permit ip any 10.197.54.0 0.0.0.255
ip access-list extended r26-24-0773
  permit ip any 10.197.55.0 0.0.0.255
ip access-list extended r26-25-0774
  permit ip any 10.197.56.0 0.0.0.255
ip access-list extended r26-26-0775
  permit ip any 10.197.57.0 0.0.0.255
ip access-list extended r26-27-0776
  permit ip any 10.197.58.0 0.0.0.255
ip access-list extended r26-28-0777
  permit ip any 10.197.59.0 0.0.0.255
ip access-list extended r26-29-0778
  permit ip any 10.197.60.0 0.0.0.255
ip access-list extended r26-3-0752
  permit ip any 10.197.34.0 0.0.0.255
ip access-list extended r26-30-0779
  permit ip any 10.197.61.0 0.0.0.255
ip access-list extended r26-4-0753
  permit ip any 10.197.35.0 0.0.0.255
ip access-list extended r26-5-0754
  permit ip any 10.197.36.0 0.0.0.255
ip access-list extended r26-6-0755
  permit ip any 10.197.37.0 0.0.0.255
ip access-list extended r26-7-0756
  permit ip any 10.197.38.0 0.0.0.255
ip access-list extended r26-8-0757
  permit ip any 10.197.39.0 0.0.0.255

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```
ip access-list extended r26-9-0758
  permit ip any 10.197.40.0 0.0.0.255
ip access-list extended r27-1-0780
  permit ip any 10.197.64.0 0.0.0.255
ip access-list extended r27-10-0789
  permit ip any 10.197.73.0 0.0.0.255
ip access-list extended r27-11-0790
  permit ip any 10.197.74.0 0.0.0.255
ip access-list extended r27-12-0791
  permit ip any 10.197.75.0 0.0.0.255
ip access-list extended r27-13-0792
  permit ip any 10.197.76.0 0.0.0.255
ip access-list extended r27-14-0793
  permit ip any 10.197.77.0 0.0.0.255
ip access-list extended r27-15-0794
  permit ip any 10.197.78.0 0.0.0.255
ip access-list extended r27-16-0795
  permit ip any 10.197.79.0 0.0.0.255
ip access-list extended r27-17-0796
  permit ip any 10.197.80.0 0.0.0.255
ip access-list extended r27-18-0797
  permit ip any 10.197.81.0 0.0.0.255
ip access-list extended r27-19-0798
  permit ip any 10.197.82.0 0.0.0.255
ip access-list extended r27-2-0781
  permit ip any 10.197.65.0 0.0.0.255
ip access-list extended r27-20-0799
  permit ip any 10.197.83.0 0.0.0.255
ip access-list extended r27-21-0800
  permit ip any 10.197.84.0 0.0.0.255
ip access-list extended r27-22-0801
  permit ip any 10.197.85.0 0.0.0.255
ip access-list extended r27-23-0802
  permit ip any 10.197.86.0 0.0.0.255
ip access-list extended r27-24-0803
  permit ip any 10.197.87.0 0.0.0.255
ip access-list extended r27-25-0804
  permit ip any 10.197.88.0 0.0.0.255
ip access-list extended r27-26-0805
  permit ip any 10.197.89.0 0.0.0.255
ip access-list extended r27-27-0806
  permit ip any 10.197.90.0 0.0.0.255
ip access-list extended r27-28-0807
  permit ip any 10.197.91.0 0.0.0.255
ip access-list extended r27-29-0808
  permit ip any 10.197.92.0 0.0.0.255
ip access-list extended r27-3-0782
  permit ip any 10.197.66.0 0.0.0.255
ip access-list extended r27-30-0809
  permit ip any 10.197.93.0 0.0.0.255
ip access-list extended r27-4-0783
  permit ip any 10.197.67.0 0.0.0.255
ip access-list extended r27-5-0784
  permit ip any 10.197.68.0 0.0.0.255
ip access-list extended r27-6-0785
  permit ip any 10.197.69.0 0.0.0.255
ip access-list extended r27-7-0786
  permit ip any 10.197.70.0 0.0.0.255
ip access-list extended r27-8-0787
  permit ip any 10.197.71.0 0.0.0.255
ip access-list extended r27-9-0788
  permit ip any 10.197.72.0 0.0.0.255
ip access-list extended r28-1-0810
  permit ip any 10.198.0.0 0.0.0.255
```



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ip access-list extended r28-10-0819
  permit ip any 10.198.9.0 0.0.0.255
ip access-list extended r28-11-0820
  permit ip any 10.198.10.0 0.0.0.255
ip access-list extended r28-12-0821
  permit ip any 10.198.11.0 0.0.0.255
ip access-list extended r28-13-0822
  permit ip any 10.198.12.0 0.0.0.255
ip access-list extended r28-14-0823
  permit ip any 10.198.13.0 0.0.0.255
ip access-list extended r28-15-0824
  permit ip any 10.198.14.0 0.0.0.255
ip access-list extended r28-16-0825
  permit ip any 10.198.15.0 0.0.0.255
ip access-list extended r28-17-0826
  permit ip any 10.198.16.0 0.0.0.255
ip access-list extended r28-18-0827
  permit ip any 10.198.17.0 0.0.0.255
ip access-list extended r28-2-0811
  permit ip any 10.198.1.0 0.0.0.255
ip access-list extended r28-20-0829
  permit ip any 10.198.19.0 0.0.0.255
ip access-list extended r28-21-0830
  permit ip any 10.198.20.0 0.0.0.255
ip access-list extended r28-22-0831
  permit ip any 10.198.21.0 0.0.0.255
ip access-list extended r28-23-0832
  permit ip any 10.198.22.0 0.0.0.255
ip access-list extended r28-24-0833
  permit ip any 10.198.23.0 0.0.0.255
ip access-list extended r28-26-0835
  permit ip any 10.198.25.0 0.0.0.255
ip access-list extended r28-27-0836
  permit ip any 10.198.26.0 0.0.0.255
ip access-list extended r28-29-0838
  permit ip any 10.198.28.0 0.0.0.255
ip access-list extended r28-3-0812
  permit ip any 10.198.2.0 0.0.0.255
ip access-list extended r28-30-0839
  permit ip any 10.198.29.0 0.0.0.255
ip access-list extended r28-5-0814
  permit ip any 10.198.4.0 0.0.0.255
ip access-list extended r28-6-0815
  permit ip any 10.198.5.0 0.0.0.255
ip access-list extended r28-7-0816
  permit ip any 10.198.6.0 0.0.0.255
ip access-list extended r28-8-0817
  permit ip any 10.198.7.0 0.0.0.255
ip access-list extended r28-9-0818
  permit ip any 10.198.8.0 0.0.0.255
ip access-list extended r29-1-0840
  permit ip any 10.198.32.0 0.0.0.255
ip access-list extended r29-10-0849
  permit ip any 10.198.41.0 0.0.0.255
ip access-list extended r29-11-0850
  permit ip any 10.198.42.0 0.0.0.255
ip access-list extended r29-12-0851
  permit ip any 10.198.43.0 0.0.0.255
ip access-list extended r29-13-0852
  permit ip any 10.198.44.0 0.0.0.255
ip access-list extended r29-14-0853
  permit ip any 10.198.45.0 0.0.0.255
ip access-list extended r29-15-0854
  permit ip any 10.198.46.0 0.0.0.255

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```
ip access-list extended r29-16-0855
  permit ip any 10.198.47.0 0.0.0.255
ip access-list extended r29-17-0856
  permit ip any 10.198.48.0 0.0.0.255
ip access-list extended r29-18-0857
  permit ip any 10.198.49.0 0.0.0.255
ip access-list extended r29-19-0858
  permit ip any 10.198.50.0 0.0.0.255
ip access-list extended r29-2-0841
  permit ip any 10.198.33.0 0.0.0.255
ip access-list extended r29-20-0859
  permit ip any 10.198.51.0 0.0.0.255
ip access-list extended r29-21-0860
  permit ip any 10.198.52.0 0.0.0.255
ip access-list extended r29-22-0861
  permit ip any 10.198.53.0 0.0.0.255
ip access-list extended r29-23-0862
  permit ip any 10.198.54.0 0.0.0.255
ip access-list extended r29-24-0863
  permit ip any 10.198.55.0 0.0.0.255
ip access-list extended r29-25-0864
  permit ip any 10.198.56.0 0.0.0.255
ip access-list extended r29-26-0865
  permit ip any 10.198.57.0 0.0.0.255
ip access-list extended r29-27-0866
  permit ip any 10.198.58.0 0.0.0.255
ip access-list extended r29-28-0867
  permit ip any 10.198.59.0 0.0.0.255
ip access-list extended r29-29-0868
  permit ip any 10.198.60.0 0.0.0.255
ip access-list extended r29-3-0842
  permit ip any 10.198.34.0 0.0.0.255
ip access-list extended r29-30-0869
  permit ip any 10.198.61.0 0.0.0.255
ip access-list extended r29-4-0843
  permit ip any 10.198.35.0 0.0.0.255
ip access-list extended r29-5-0844
  permit ip any 10.198.36.0 0.0.0.255
ip access-list extended r29-6-0845
  permit ip any 10.198.37.0 0.0.0.255
ip access-list extended r29-7-0846
  permit ip any 10.198.38.0 0.0.0.255
ip access-list extended r29-8-0847
  permit ip any 10.198.39.0 0.0.0.255
ip access-list extended r29-9-0848
  permit ip any 10.198.40.0 0.0.0.255
ip access-list extended r3-1-0060
  permit ip any 10.192.64.0 0.0.0.255
ip access-list extended r3-10-0069
  permit ip any 10.192.73.0 0.0.0.255
ip access-list extended r3-11-0070
  permit ip any 10.192.74.0 0.0.0.255
ip access-list extended r3-12-0071
  permit ip any 10.192.75.0 0.0.0.255
ip access-list extended r3-2-0061
  permit ip any 10.192.65.0 0.0.0.255
ip access-list extended r3-3-0062
  permit ip any 10.192.66.0 0.0.0.255
ip access-list extended r3-4-0063
  permit ip any 10.192.67.0 0.0.0.255
ip access-list extended r3-5-0064
  permit ip any 10.192.68.0 0.0.0.255
ip access-list extended r3-6-0065
  permit ip any 10.192.69.0 0.0.0.255
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ip access-list extended r3-7-0066
  permit ip any 10.192.70.0 0.0.0.255
ip access-list extended r3-8-0067
  permit ip any 10.192.71.0 0.0.0.255
ip access-list extended r3-9-0068
  permit ip any 10.192.72.0 0.0.0.255
ip access-list extended r30-1-0870
  permit ip any 10.198.64.0 0.0.0.255
ip access-list extended r30-10-0879
  permit ip any 10.198.73.0 0.0.0.255
ip access-list extended r30-11-0880
  permit ip any 10.198.74.0 0.0.0.255
ip access-list extended r30-12-0881
  permit ip any 10.198.75.0 0.0.0.255
ip access-list extended r30-13-0882
  permit ip any 10.198.76.0 0.0.0.255
ip access-list extended r30-14-0883
  permit ip any 10.198.77.0 0.0.0.255
ip access-list extended r30-15-0884
  permit ip any 10.198.78.0 0.0.0.255
ip access-list extended r30-2-0871
  permit ip any 10.198.65.0 0.0.0.255
ip access-list extended r30-3-0872
  permit ip any 10.198.66.0 0.0.0.255
ip access-list extended r30-4-0873
  permit ip any 10.198.67.0 0.0.0.255
ip access-list extended r30-5-0874
  permit ip any 10.198.68.0 0.0.0.255
ip access-list extended r30-6-0875
  permit ip any 10.198.69.0 0.0.0.255
ip access-list extended r30-7-0876
  permit ip any 10.198.70.0 0.0.0.255
ip access-list extended r30-8-0877
  permit ip any 10.198.71.0 0.0.0.255
ip access-list extended r30-9-0878
  permit ip any 10.198.72.0 0.0.0.255
ip access-list extended r4-10-0099
  permit ip any 10.192.137.0 0.0.0.255
ip access-list extended r4-11-0100
  permit ip any 10.192.138.0 0.0.0.255
ip access-list extended r4-12-0101
  permit ip any 10.192.139.0 0.0.0.255
ip access-list extended r4-13-0102
  permit ip any 10.192.140.0 0.0.0.255
ip access-list extended r4-14-0103
  permit ip any 10.192.141.0 0.0.0.255
ip access-list extended r4-15-0104
  permit ip any 10.192.142.0 0.0.0.255
ip access-list extended r4-16-0105
  permit ip any 10.192.143.0 0.0.0.255
ip access-list extended r4-17-0106
  permit ip any 10.192.144.0 0.0.0.255
ip access-list extended r4-18-0107
  permit ip any 10.192.145.0 0.0.0.255
ip access-list extended r4-19-0108
  permit ip any 10.192.146.0 0.0.0.255
ip access-list extended r4-20-0109
  permit ip any 10.192.147.0 0.0.0.255
ip access-list extended r4-21-0110
  permit ip any 10.192.148.0 0.0.0.255
ip access-list extended r4-22-0111
  permit ip any 10.192.149.0 0.0.0.255
ip access-list extended r4-23-0112
  permit ip any 10.192.150.0 0.0.0.255

```

```

ip access-list extended r4-24-0113
  permit ip any 10.192.151.0 0.0.0.255
ip access-list extended r4-25-0114
  permit ip any 10.192.152.0 0.0.0.255
ip access-list extended r4-26-0115
  permit ip any 10.192.153.0 0.0.0.255
ip access-list extended r4-27-0116
  permit ip any 10.192.154.0 0.0.0.255
ip access-list extended r4-28-0117
  permit ip any 10.192.155.0 0.0.0.255
ip access-list extended r4-29-0118
  permit ip any 10.192.156.0 0.0.0.255
ip access-list extended r4-30-0119
  permit ip any 10.192.157.0 0.0.0.255
ip access-list extended r4-7-0096
  permit ip any 10.192.134.0 0.0.0.255
ip access-list extended r4-8-0097
  permit ip any 10.192.135.0 0.0.0.255
ip access-list extended r4-9-0098
  permit ip any 10.192.136.0 0.0.0.255
!
logging history size 20
logging trap critical
logging host <CS-MARS-IP> vrf Mgmt-intf
access-list 10 remark Last Resort Host
access-list 10 permit <NOC-Host>
access-list 20 remark NTP Servers & Peers
access-list 20 permit <NTP-Server1>
access-list 20 permit <NTP-Server2>
access-list 20 permit <NTP-Peer>
access-list 21 remark NTP Clients
access-list 21 permit 10.200.0.0 0.0.255.255
access-list 21 permit 10.201.0.0 0.0.255.255
access-list 30 remark Branch EIGRP Routes
access-list 30 permit 10.200.0.0 0.0.255.255
access-list 30 permit 10.201.0.0 0.0.255.255
access-list 55 remark ACL for SNMP Access
access-list 55 permit <CS-MARS-IP>
access-list 55 deny any log
access-list 101 remark Branch Dest
access-list 101 permit ip any 10.201.0.0 0.0.255.255
access-list 101 permit ip any 10.200.0.0 0.0.255.255
access-list 101 deny ip any any
access-list 102 remark Branch Source
access-list 102 permit ip 10.201.0.0 0.0.255.255 any
access-list 102 permit ip 10.200.0.0 0.0.255.255 any
access-list 102 deny ip any any
access-list 111 remark SSH Access
access-list 111 permit tcp <OOB-net> <inverse-mask> any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host <NOC-Host> any eq 22
access-list 112 deny ip any any log-input
access-list 120 remark SP WAN Edge ACL - MPLS A
access-list 120 remark deny Fragments
access-list 120 deny tcp any any log fragments
access-list 120 deny udp any any log fragments
access-list 120 deny icmp any any log fragments
access-list 120 remark deny Incoming with Source=Internal
access-list 120 deny ip 10.0.0.0 0.255.255.255 any
access-list 120 remark deny RFC 3330 Special-Use Addresses
access-list 120 deny ip host 0.0.0.0 any
access-list 120 deny ip 127.0.0.0 0.255.255.255 any
access-list 120 deny ip 192.0.2.0 0.0.0.255 any

```

```

access-list 120 deny ip 224.0.0.0 31.255.255.255 any
access-list 120 remark deny RFC 1918 Reserved Addresses
access-list 120 remark 10.0.0.0/8 and 192.168.0.0/16 omitted as being used in testbed
access-list 120 deny ip 172.16.0.0 0.15.255.255 any
access-list 120 remark permit Incoming EIGRP from SP Neighbors
access-list 120 permit eigrp host 192.168.160.113 host 224.0.0.10
access-list 120 permit eigrp host 192.168.160.113 host 192.168.160.114
access-list 120 remark permit DMVPN with Branches
access-list 120 permit udp any host 192.168.34.1 eq isakmp
access-list 120 permit esp any host 192.168.34.1
access-list 120 remark permit Ping & Traceroute
access-list 120 permit icmp any host 192.168.160.114 ttl-exceeded
access-list 120 permit icmp any host 192.168.160.114 port-unreachable
access-list 120 permit icmp any host 192.168.160.114 echo-reply
access-list 120 permit icmp any host 192.168.160.114 echo
access-list 120 permit icmp any host 192.168.34.1 ttl-exceeded
access-list 120 permit icmp any host 192.168.34.1 port-unreachable
access-list 120 permit icmp any host 192.168.34.1 echo-reply
access-list 120 permit icmp any host 192.168.34.1 echo
access-list 120 permit tcp host 192.168.168.226 eq 12345 host 192.168.160.114
access-list 120 deny ip any any
access-list 121 remark SP WAN Edge ACL - MPLS B
access-list 121 remark deny Fragments
access-list 121 deny tcp any any log fragments
access-list 121 deny udp any any log fragments
access-list 121 deny icmp any any log fragments
access-list 121 remark deny Incoming with Source=Internal
access-list 121 deny ip 10.0.0.0 0.255.255.255 any
access-list 121 remark deny RFC 3330 Special-Use Addresses
access-list 121 deny ip host 0.0.0.0 any
access-list 121 deny ip 127.0.0.0 0.255.255.255 any
access-list 121 deny ip 192.0.2.0 0.0.0.255 any
access-list 121 deny ip 224.0.0.0 31.255.255.255 any
access-list 121 remark deny RFC 1918 Reserved Addresses
access-list 121 remark 10.0.0.0/8 and 192.168.0.0/16 omitted as being used in testbed
access-list 121 deny ip 172.16.0.0 0.15.255.255 any
access-list 121 remark permit Incoming EIGRP from SP Neighbors
access-list 121 permit eigrp host 192.168.188.9 host 224.0.0.10
access-list 121 permit eigrp host 192.168.188.9 host 192.168.188.10
access-list 121 remark permit DMVPN with Branches
access-list 121 permit udp any host 192.168.34.1 eq isakmp
access-list 121 permit esp any host 192.168.34.1
access-list 121 remark permit Ping & Traceroute
access-list 121 permit icmp any host 192.168.188.10 ttl-exceeded
access-list 121 permit icmp any host 192.168.188.10 port-unreachable
access-list 121 permit icmp any host 192.168.188.10 echo-reply
access-list 121 permit icmp any host 192.168.188.10 echo
access-list 121 permit icmp any host 192.168.34.1 ttl-exceeded
access-list 121 permit icmp any host 192.168.34.1 port-unreachable
access-list 121 permit icmp any host 192.168.34.1 echo-reply
access-list 121 permit icmp any host 192.168.34.1 echo
access-list 121 deny ip any any
access-list 133 remark OOB Mgmt Filtering In
access-list 133 permit icmp <OOB-net> <inverse-mask> host <OOB-IP> ttl-exceeded
access-list 133 permit icmp <OOB-net> <inverse-mask> host <OOB-IP> port-unreachable
access-list 133 permit icmp <OOB-net> <inverse-mask> host <OOB-IP> echo-reply
access-list 133 permit icmp <OOB-net> <inverse-mask> host <OOB-IP> echo
access-list 133 remark permit TAC+
access-list 133 permit tcp <OOB-net> <inverse-mask> eq tacacs host <OOB-IP> established
access-list 133 permit tcp <OOB-net> <inverse-mask> host <OOB-IP> eq tacacs
access-list 133 remark permit NTP
access-list 133 permit udp <OOB-net> <inverse-mask> host <OOB-IP> eq ntp
access-list 133 remark permit SSH
access-list 133 permit tcp <OOB-net> <inverse-mask> host <OOB-IP> eq 22

```

```

access-list 133 remark permit FTP
access-list 133 permit tcp <OOB-net> <inverse-mask> eq ftp host <OOB-IP> gt 1023
established
access-list 133 permit tcp <OOB-net> <inverse-mask> eq ftp-data host <OOB-IP> gt 1023
access-list 133 permit tcp <OOB-net> <inverse-mask> gt 1023 host <OOB-IP> gt 1023
established
access-list 133 permit udp <OOB-net> <inverse-mask> gt 1023 host <OOB-IP> gt 1023
access-list 133 remark permit SNMP
access-list 133 permit udp host <CS-MARS-IP> host <OOB-IP> eq snmp
access-list 133 deny ip any any log
access-list 134 remark OOB Mgmt Filtering Out
access-list 134 permit ip host <OOB-IP> <OOB-net> <inverse-mask>
access-list 134 deny ip any any log
!
snmp-server community <strong-community> RO 55
snmp-server enable traps snmp authentication
snmp-server enable traps cpu threshold
snmp-server host <CS-MARS-IP> vrf Mgmt-intf <strong-community> cpu snmp
!
!
!
control-plane
service-policy input copp-policy
!
banner exec ^C EXEC Banner ^C
banner login ^C Login BAnner ^C
banner motd ^C MOTD Banner ^C
!
line con 0
session-timeout 3
exec-timeout 3 0
password <strong-password>
authorization exec AuthorExec
login authentication AuthenExec
transport preferred none
transport output none
stopbits 1
line aux 0
no exec
stopbits 1
line vty 0 3
session-timeout 3
access-class 111 in
password <strong-password>
authorization exec AuthorExec
login authentication AuthenExec
transport preferred none
transport input ssh
transport output none
line vty 4
session-timeout 3
access-class 112 in
exec-timeout 3 0
password <strong-password>
authorization exec AuthorExec
login authentication AuthenExec
transport preferred none
transport input ssh
transport output none
line vty 5 15
no exec
!
ntp authentication-key 10 md5 <strong-key>
ntp authenticate

```

```

ntp trusted-key 10
ntp clock-period 17237452
ntp source GigabitEthernet0
ntp access-group peer 20
ntp access-group serve-only 21
ntp server vrf Mgmt-intf <NTP-Server1> key 10
ntp server vrf Mgmt-intf <NTP-Server1> key 10
ntp peer vrf Mgmt-intf <NTP-Peer> key 10
end

He4-asr2
he4-asr-2#sh run
Building configuration...

Current configuration : 323558 bytes
!
! Last configuration change at 15:46:00 UTC Tue Jun 2 2009 by sherelle-admin
! NVRAM config last updated at 15:47:28 UTC Tue Jun 2 2009 by sherelle-admin
!
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service compress-config
!
hostname he4-asr-2
!
boot-start-marker
boot system flash bootflash:asr1000rp1-adventerprisek9.02.03.00.122-33.XNC.bin
boot config bootflash:he4-asr-2-config
boot-end-marker
!
vrf definition Mgmt-intf
!
address-family ipv4
exit-address-family
!
address-family ipv6
exit-address-family
!
logging buffered 65535
logging rate-limit all 10
no logging console
enable secret <strong-secret>
!
aaa new-model
!
!
aaa group server tacacs+ Admin-TAC+
server-private <AAA-Server-IP> single-connection timeout 1 key <strong-key>
ip vrf forwarding Mgmt-intf
!
aaa authentication login AuthenExec group Admin-TAC+ local-case
aaa authentication enable default group Admin-TAC+ enable
aaa authorization console
aaa authorization exec AuthorExec group Admin-TAC+ if-authenticated
aaa authorization commands 15 default group Admin-TAC+ if-authenticated
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group Admin-TAC+
aaa accounting commands 15 default start-stop group Admin-TAC+
aaa accounting system default start-stop group Admin-TAC+
!

```

```

!
!
!
!
aaa session-id common
process cpu threshold type total rising 65 interval 5
process cpu statistics limit entry-percentage 40 size 300
ip subnet-zero
no ip source-route
no ip bootp server
no ip domain lookup
ip domain name cisco.com
ip host a-subca 10.204.0.4
ip host b-subca 10.204.0.5
!
!
login block-for 100 attempts 5 within 50
login delay 1
login quiet-mode access-class 10
login on-failure log
l2tp congestion-control
!
!
!
!
flow-sampler-map CSMARS-SAMPLE
mode random one-out-of 100
multilink bundle-name authenticated
!
key chain eigrp-auth
key 10
key-string <strong-key>
!
crypto pki trustpoint b-subca
enrollment url http://b-subca:12345
revocation-check crl
auto-enroll 70
storage bootflash:
!
crypto pki trustpoint a-subca
enrollment url http://a-subca:12345
revocation-check crl
auto-enroll 70
storage bootflash:
!
!
crypto pki certificate chain b-subca
certificate 04EC
308201FC 30820165 A0030201 02020204 EC300D06 092A8648 86F70D01 01040500
30123110 300E0603 55040313 07622D73 75626361 301E170D 30393034 32373032
30353132 5A170D31 32303330 35313731 3230365A 30243122 30200609 2A864886
F70D0109 02161368 65342D61 73722D32 2E636973 636F2E63 6F6D3081 9F300D06
092A8648 86F70D01 01010500 03818D00 30818902 818100E8 0C882F80 CDA7AE52
9B4ACAE4 E3E2A247 CC7B1EED 14AF2A34 77397E77 9922F3D4 C1770E80 00094B0C
457E01E2 C6A90F50 04C91C98 D57DE6F5 42FA4457 C758AF29 A508EC70 871D029C
62E57D4B D2C5631F 819B229A C7994227 E1BDD72D 683CF5E1 E80C0959 371CAA51
173D8048 31A33945 9D3D3E12 4E4B6D39 91E94545 8C70D702 03010001 A34F304D
300B0603 551D0F04 04030205 A0301F06 03551D23 04183016 80149432 4DB8DB89
8B01E7B7 F9AE2FC7 324AA2DD 0E45301D 0603551D 0E041604 14776B3A C2D0A368
9D8EF2A2 24119F01 8913139A 32300D06 092A8648 86F70D01 01040500 03818100
A281C705 DA2DED3D EA90C1B4 C024D118 1B53EDBC DEBC1B20 4DC448F5 81D59A38
E34E62FA CFADBDDF E7DD0300 88496B8E 2BD66BCF 61A4BC69 841C7528 6AAA27D8
F79BD620 6AF8A5C4 80FA74AD 0AB8096E 1151E6A7 83A37279 79404322 38E2F129
98D3F12E 4930438B 516051DA 47A43977 EC7C999B 0C9614DF 139CD430 84420312

```



```

quit
certificate ca 07
3082023D 308201A6 A0030201 02020107 300D0609 2A864886 F70D0101 04050030
12311030 0E060355 04031307 726F6F74 2D636130 1E170D30 39303330 36313731
3230365A 170D3132 30333035 31373132 30365A30 12311030 0E060355 04031307
622D7375 62636130 819F300D 06092A86 4886F70D 01010105 0003818D 00308189
02818100 B345E7D2 3235F2B7 FAEF339A 9C1EB12B 632E02F8 2B71E797 6DDDD37E
78497F4E 61E872EC C7CFC691 65DC896F 788517A9 F5235D23 A4B809CF CC6A98DE
4AA451EC 893FB141 C65A1B30 8EB4DF84 367E92D9 BBAFEDCB 14DEF557 B9DFB3E7
1F564D6F 469BE4B5 6525EEA0 B0F33875 1DAA34DF 9E3F6CAB 2E46E9BB 3598957D
E5B832EB 02030100 01A381A2 30819F30 3F060355 1D1F0438 30363034 A032A030
862E6874 74703A2F 2F313732 2E32362E 3138302E 31302F73 6F6C7574 696F6E73
2F76706E 2F726F6F 742D6361 2E63726C 300F0603 551D1301 01FF0405 30030101
FF300B06 03551D0F 04040302 0780301F 0603551D 23041830 168014F9 401E5590
5FE7B694 B778040C BFC8D53C 5A52FB30 1D060355 1D0E0416 04149432 4DB8DB89
8B01E7B7 F9AE2FC7 324AA2DD 0E45300D 06092A86 4886F70D 01010405 00038181
00895749 ECA7E549 346056D6 6BDF3CA5 1EFC1844 5194AB78 FA4110D7 BEFFC46E
84449F57 32B48BC0 F327C683 93A232C2 9CB3971B 17EEE640 71E6E292 83BAE11E
A777070E 1FAA369D 18C38E2A 95FE4072 773E2130 05A535FA 786051B4 37D0638A
4B1904FC C782FBC2 6F02EADF 73A4DC0C D541C6E9 A24F0EF9 658EB77A 005781C5 32

quit
crypto pki certificate chain a-subca
certificate 03DA
308201FC 30820165 A0030201 02020203 DA300D06 092A8648 86F70D01 01040500
30123110 300E0603 55040313 07612D73 75626361 301E170D 30393034 32373032
30343030 5A170D31 32303330 35313531 3831355A 30243122 30200609 2A864886
F70D0109 02161368 65342D61 73722D32 2E636973 636F2E63 6F6D3081 9F300D06
092A8648 86F70D01 01010500 03818D00 30818902 818100E8 0C882F80 CDA7AE52
9B4ACAE4 E3E2A247 CC7B1EED 14AF2A34 77397E77 9922F3D4 C1770E80 00094B0C
457E01E2 C6A90F50 04C91C98 D57DE6F5 42FA4457 C758AF29 A508EC70 871D029C
62E57D4B D2C5631F 819B229A C7994227 E1BDD72D 683CF5E1 E80C0959 371CAA51
173D8048 31A33945 9D3D3E12 4E4B6D39 91E94545 8C70D702 03010001 A34F304D
300B0603 551D0F04 04030205 A0301F06 03551D23 04183016 8014B905 2A3DFD58
6A41C4F7 2CB07891 9FFDF860 CD7A301D 0603551D 0E041604 14776B3A C2D0A368
9D8EF2A2 24119F01 8913139A 32300D06 092A8648 86F70D01 01040500 03818100
8A7DBACA 5769B064 0E2D1A7E 62300205 C1BAE731 57D40FAA 1090E5CD FCF1CAC3
64086A1A A18EBA23 EDB542DC 9BC4A494 A4284260 1F92E881 0CAC5A58 66ED1900
59E4AD7E 4578BFAD A09BCE9C E8884AD7 57A99145 4420912A 764B91A4 79D54C69
64577D17 D82C4FA8 008E8BE6 936EEC1B 582EAAEE BABB8540 32BD06D5 0AC3B20C

quit
certificate ca 06
3082023D 308201A6 A0030201 02020106 300D0609 2A864886 F70D0101 04050030
12311030 0E060355 04031307 726F6F74 2D636130 1E170D30 39303330 36313531
3831355A 170D3132 30333035 31353138 31355A30 12311030 0E060355 04031307
612D7375 62636130 819F300D 06092A86 4886F70D 01010105 0003818D 00308189
02818100 B1B50AFC EBF7AA1F AC357241 B19557E7 51AF1FD3 C3C3FFCD 8D7649D9
37F14D98 8E00522A 2EDC1E20 3573EF8F E247FBC1 D886492C 13A10F56 0752DFA2
97BF5AB4 0B895B2B 39406CD7 960AD8ED 2984C640 F07951DD B719BD55 E102F558
B914E4C2 B870DED2 4B3AD1CB 5950533B 59286F8D 75F5224B 502A2752 06FA4D27
23C7B4FD 02030100 01A381A2 30819F30 3F060355 1D1F0438 30363034 A032A030
862E6874 74703A2F 2F313732 2E32362E 3138302E 31302F73 6F6C7574 696F6E73
2F76706E 2F726F6F 742D6361 2E63726C 300F0603 551D1301 01FF0405 30030101
FF300B06 03551D0F 04040302 0780301F 0603551D 23041830 168014F9 401E5590
5FE7B694 B778040C BFC8D53C 5A52FB30 1D060355 1D0E0416 0414B905 2A3DFD58
6A41C4F7 2CB07891 9FFDF860 CD7A300D 06092A86 4886F70D 01010405 00038181
001E6FAF D365A1B6 B50F36B5 91B64B40 9CA2B106 791BA8BC B226AD43 D8B063F2
F6974216 2C046899 AA855258 4698F9E5 7A63ECC0 7C9F0571 AD46EB20 F5C39CF5
F128964F B3E47ADE 00B9D82D C461F392 BCF6371B 4F384E60 3C325181 8243548A
48F99471 8DF2201A 7413969F BCF22EB6 E6BB66C0 DF7264FA C1D03F96 F4A0DF53 99

quit
crypto pki certificate storage bootflash:
memory reserve critical 1000
memory free low-watermark processor 63
username admin privilege 15 secret <strong-secret>

```

```

username csmars privilege 15 secret <strong-secret>
!
redundancy
mode none
!
!
crypto isakmp policy 10
encr aes 256
group 2
!
crypto isakmp policy 20
encr aes 256
authentication pre-share
group 2
crypto isakmp key <strong-key> address 0.0.0.0 0.0.0.0
crypto isakmp keepalive 10
!
!
crypto ipsec transform-set vpn-test esp-aes esp-sha-hmac
!
crypto ipsec profile vpn-dmvpn
set transform-set vpn-test
!
!
crypto call admission limit ike sa 500
!
crypto call admission limit ike in-negotiation-sa 500
!
!
!
ip tcp path-mtu-discovery
ip ftp source-interface GigabitEthernet0
ip ftp password <strong-password>
ip tftp source-interface GigabitEthernet0
ip ssh time-out 60
ip ssh authentication-retries 2
ip ssh source-interface GigabitEthernet0
ip scp server enable
!
class-map type inspect match-any frm-branch-class
match access-group 102
class-map match-all coppclass-critical-app
match access-group name coppacl-critical-app
class-map match-all coppclass-vpn
match access-group name coppacl-vpn
class-map match-all Bulk-Data
match ip dscp af11 af12
class-map match-all coppclass-igp
match access-group name coppacl-igp
class-map match-all Interactive-Video
match ip dscp af41 af42
class-map match-any Network-Control
match ip dscp cs6
match ip dscp cs2
class-map match-all Critical-Data
match ip dscp af21 af22
class-map match-all r18-8-0517
match access-group name r18-8-0517
class-map match-all r21-4-0603
match access-group name r21-4-0603
class-map match-all r22-4-0633
match access-group name r22-4-0633
class-map match-all r23-2-0661
match access-group name r23-2-0661

```

```

class-map match-all r23-6-0665
  match access-group name r23-6-0665
class-map match-all r28-1-0810
  match access-group name r28-1-0810
class-map match-all r28-3-0812
  match access-group name r28-3-0812
class-map match-all r28-5-0814
  match access-group name r28-5-0814
class-map match-all r28-7-0816
  match access-group name r28-7-0816
class-map match-all r28-9-0818
  match access-group name r28-9-0818
class-map match-all r4-14-0103
  match access-group name r4-14-0103
class-map match-all r10-4-0273
  match access-group name r10-4-0273
class-map match-all r25-1-0720
  match access-group name r25-1-0720
class-map match-all r25-3-0722
  match access-group name r25-3-0722
class-map match-all r25-5-0724
  match access-group name r25-5-0724
class-map match-all r25-7-0726
  match access-group name r25-7-0726
class-map match-all r25-9-0728
  match access-group name r25-9-0728
class-map match-all r30-8-0877
  match access-group name r30-8-0877
class-map match-all r0
class-map match-all r13-4-0363
  match access-group name r13-4-0363
class-map match-all r14-8-0397
  match access-group name r14-8-0397
class-map match-all r23-1-0660
  match access-group name r23-1-0660
class-map match-all r23-3-0662
  match access-group name r23-3-0662
class-map match-all r23-5-0664
  match access-group name r23-5-0664
class-map match-all r23-7-0666
  match access-group name r23-7-0666
class-map match-all r23-9-0668
  match access-group name r23-9-0668
class-map match-all r28-2-0811
  match access-group name r28-2-0811
class-map match-all r28-6-0815
  match access-group name r28-6-0815
class-map match-all r29-4-0843
  match access-group name r29-4-0843
class-map match-all r4-24-0113
  match access-group name r4-24-0113
class-map match-all r25-2-0721
  match access-group name r25-2-0721
class-map match-all r25-6-0725
  match access-group name r25-6-0725
class-map match-all r26-4-0753
  match access-group name r26-4-0753
class-map match-all coppclass-monitoring
  match access-group name coppacl-monitoring
class-map match-all r3-12-0071
  match access-group name r3-12-0071
class-map match-all r13-1-0360
  match access-group name r13-1-0360
class-map match-all r13-3-0362

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    match access-group name r13-3-0362
class-map match-all r13-5-0364
    match access-group name r13-5-0364
class-map match-all r13-7-0366
    match access-group name r13-7-0366
class-map match-all r13-9-0368
    match access-group name r13-9-0368
class-map match-all r19-8-0547
    match access-group name r19-8-0547
class-map match-all r21-2-0601
    match access-group name r21-2-0601
class-map match-all r21-6-0605
    match access-group name r21-6-0605
class-map match-all r22-2-0631
    match access-group name r22-2-0631
class-map match-all r22-6-0635
    match access-group name r22-6-0635
class-map match-all r23-4-0663
    match access-group name r23-4-0663
class-map match-all r24-8-0697
    match access-group name r24-8-0697
class-map match-all r29-1-0840
    match access-group name r29-1-0840
class-map match-all r29-3-0842
    match access-group name r29-3-0842
class-map match-all r29-5-0844
    match access-group name r29-5-0844
class-map match-all r29-7-0846
    match access-group name r29-7-0846
class-map match-all r29-9-0848
    match access-group name r29-9-0848
class-map match-all r4-12-0101
    match access-group name r4-12-0101
class-map match-all r4-16-0105
    match access-group name r4-16-0105
class-map match-all r4-21-0110
    match access-group name r4-21-0110
class-map match-all r4-23-0112
    match access-group name r4-23-0112
class-map match-all r4-25-0114
    match access-group name r4-25-0114
class-map match-all r4-27-0116
    match access-group name r4-27-0116
class-map match-all r4-29-0118
    match access-group name r4-29-0118
class-map match-all r10-2-0271
    match access-group name r10-2-0271
class-map match-all r10-6-0275
    match access-group name r10-6-0275
class-map match-all r26-1-0750
    match access-group name r26-1-0750
class-map match-all r26-3-0752
    match access-group name r26-3-0752
class-map match-all r26-5-0754
    match access-group name r26-5-0754
class-map match-all r26-7-0756
    match access-group name r26-7-0756
class-map match-all r26-9-0758
    match access-group name r26-9-0758
class-map match-all r3-11-0070
    match access-group name r3-11-0070
class-map match-all r13-2-0361
    match access-group name r13-2-0361
class-map match-all r13-6-0365

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    match access-group name r13-6-0365
class-map match-all r21-1-0600
    match access-group name r21-1-0600
class-map match-all r21-3-0602
    match access-group name r21-3-0602
class-map match-all r21-5-0604
    match access-group name r21-5-0604
class-map match-all r21-7-0606
    match access-group name r21-7-0606
class-map match-all r21-9-0608
    match access-group name r21-9-0608
class-map match-all r22-1-0630
    match access-group name r22-1-0630
class-map match-all r22-3-0632
    match access-group name r22-3-0632
class-map match-all r22-5-0634
    match access-group name r22-5-0634
class-map match-all r22-7-0636
    match access-group name r22-7-0636
class-map match-all r22-9-0638
    match access-group name r22-9-0638
class-map match-all r29-2-0841
    match access-group name r29-2-0841
class-map match-all r29-6-0845
    match access-group name r29-6-0845
class-map match-all r4-10-0099
    match access-group name r4-10-0099
class-map match-all r4-11-0100
    match access-group name r4-11-0100
class-map match-all r4-13-0102
    match access-group name r4-13-0102
class-map match-all r4-15-0104
    match access-group name r4-15-0104
class-map match-all r4-17-0106
    match access-group name r4-17-0106
class-map match-all r4-19-0108
    match access-group name r4-19-0108
class-map match-all r4-22-0111
    match access-group name r4-22-0111
class-map match-all r4-26-0115
    match access-group name r4-26-0115
class-map match-all r10-1-0270
    match access-group name r10-1-0270
class-map match-all r10-3-0272
    match access-group name r10-3-0272
class-map match-all r10-5-0274
    match access-group name r10-5-0274
class-map match-all r10-7-0276
    match access-group name r10-7-0276
class-map match-all r10-9-0278
    match access-group name r10-9-0278
class-map match-all r17-8-0487
    match access-group name r17-8-0487
class-map match-all r25-4-0723
    match access-group name r25-4-0723
class-map match-all r26-2-0751
    match access-group name r26-2-0751
class-map match-all r26-6-0755
    match access-group name r26-6-0755
class-map match-all r27-8-0787
    match access-group name r27-8-0787
class-map match-all r18-4-0513
    match access-group name r18-4-0513
class-map match-all r19-2-0541

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    match access-group name r19-2-0541
class-map match-all r19-6-0545
    match access-group name r19-6-0545
class-map match-all r21-8-0607
    match access-group name r21-8-0607
class-map match-all r22-8-0637
    match access-group name r22-8-0637
class-map match-all r24-2-0691
    match access-group name r24-2-0691
class-map match-all r24-6-0695
    match access-group name r24-6-0695
class-map match-all r4-18-0107
    match access-group name r4-18-0107
class-map match-all r10-8-0277
    match access-group name r10-8-0277
class-map match-all r17-1-0480
    match access-group name r17-1-0480
class-map match-all r17-3-0482
    match access-group name r17-3-0482
class-map match-all r17-5-0484
    match access-group name r17-5-0484
class-map match-all r17-7-0486
    match access-group name r17-7-0486
class-map match-all r17-9-0488
    match access-group name r17-9-0488
class-map match-all r27-1-0780
    match access-group name r27-1-0780
class-map match-all r27-3-0782
    match access-group name r27-3-0782
class-map match-all r27-5-0784
    match access-group name r27-5-0784
class-map match-all r27-7-0786
    match access-group name r27-7-0786
class-map match-all r27-9-0788
    match access-group name r27-9-0788
class-map match-all r30-4-0873
    match access-group name r30-4-0873
class-map match-all r13-8-0367
    match access-group name r13-8-0367
class-map match-all r14-4-0393
    match access-group name r14-4-0393
class-map match-all r19-1-0540
    match access-group name r19-1-0540
class-map match-all r19-3-0542
    match access-group name r19-3-0542
class-map match-all r19-5-0544
    match access-group name r19-5-0544
class-map match-all r19-7-0546
    match access-group name r19-7-0546
class-map match-all r19-9-0548
    match access-group name r19-9-0548
class-map match-all r24-1-0690
    match access-group name r24-1-0690
class-map match-all r24-3-0692
    match access-group name r24-3-0692
class-map match-all r24-5-0694
    match access-group name r24-5-0694
class-map match-all r24-7-0696
    match access-group name r24-7-0696
class-map match-all r24-9-0698
    match access-group name r24-9-0698
class-map match-all r29-8-0847
    match access-group name r29-8-0847
class-map match-all r4-28-0117

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    match access-group name r4-28-0117
class-map match-all r17-2-0481
    match access-group name r17-2-0481
class-map match-all r17-6-0485
    match access-group name r17-6-0485
class-map match-all r26-8-0757
    match access-group name r26-8-0757
class-map match-all r27-2-0781
    match access-group name r27-2-0781
class-map match-all r27-6-0785
    match access-group name r27-6-0785
class-map match-all r4-20-0109
    match access-group name r4-20-0109
class-map match-all r4-30-0119
    match access-group name r4-30-0119
class-map match-all r14-1-0390
    match access-group name r14-1-0390
class-map match-all r14-3-0392
    match access-group name r14-3-0392
class-map match-all r14-5-0394
    match access-group name r14-5-0394
class-map match-all r14-7-0396
    match access-group name r14-7-0396
class-map match-all r14-9-0398
    match access-group name r14-9-0398
class-map match-all r18-2-0511
    match access-group name r18-2-0511
class-map match-all r18-6-0515
    match access-group name r18-6-0515
class-map match-all r19-4-0543
    match access-group name r19-4-0543
class-map match-all r23-8-0667
    match access-group name r23-8-0667
class-map match-all r24-4-0693
    match access-group name r24-4-0693
class-map match-all r30-2-0871
    match access-group name r30-2-0871
class-map match-all r30-6-0875
    match access-group name r30-6-0875
class-map match-all r14-2-0391
    match access-group name r14-2-0391
class-map match-all r14-6-0395
    match access-group name r14-6-0395
class-map match-all r18-1-0510
    match access-group name r18-1-0510
class-map match-all r18-3-0512
    match access-group name r18-3-0512
class-map match-all r18-5-0514
    match access-group name r18-5-0514
class-map match-all r18-7-0516
    match access-group name r18-7-0516
class-map match-all r18-9-0518
    match access-group name r18-9-0518
class-map match-all r28-8-0817
    match access-group name r28-8-0817
class-map match-all r3-10-0069
    match access-group name r3-10-0069
class-map match-all r17-4-0483
    match access-group name r17-4-0483
class-map match-all r25-8-0727
    match access-group name r25-8-0727
class-map match-all r27-4-0783
    match access-group name r27-4-0783
class-map match-all r30-1-0870

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    match access-group name r30-1-0870
class-map match-all r30-3-0872
    match access-group name r30-3-0872
class-map match-all r30-5-0874
    match access-group name r30-5-0874
class-map match-all r30-7-0876
    match access-group name r30-7-0876
class-map match-all r30-9-0878
    match access-group name r30-9-0878
class-map match-any Call-Signaling
    match ip dscp cs3
    match ip dscp af31
class-map match-all Voice
    match ip dscp ef
class-map match-all coppclass-filemanagement
    match access-group name coppacl-filemanagement
class-map match-all Scavenger
    match ip dscp cs1
class-map match-all coppclass-management
    match access-group name coppacl-management
class-map type inspect match-any to-branch-class
    match access-group 101
class-map match-all r3-4-0063
    match access-group name r3-4-0063
class-map match-all r4-8-0097
    match access-group name r4-8-0097
class-map match-all r17-10-0489
    match access-group name r17-10-0489
class-map match-all r17-22-0501
    match access-group name r17-22-0501
class-map match-all r17-26-0505
    match access-group name r17-26-0505
class-map match-all r18-28-0537
    match access-group name r18-28-0537
class-map match-all r21-14-0613
    match access-group name r21-14-0613
class-map match-all r21-24-0623
    match access-group name r21-24-0623
class-map match-all r22-11-0640
    match access-group name r22-11-0640
class-map match-all r22-13-0642
    match access-group name r22-13-0642
class-map match-all r22-15-0644
    match access-group name r22-15-0644
class-map match-all r22-17-0646
    match access-group name r22-17-0646
class-map match-all r22-19-0648
    match access-group name r22-19-0648
class-map match-all r22-22-0651
    match access-group name r22-22-0651
class-map match-all r22-26-0655
    match access-group name r22-26-0655
class-map match-all r23-12-0671
    match access-group name r23-12-0671
class-map match-all r23-16-0675
    match access-group name r23-16-0675
class-map match-all r23-28-0687
    match access-group name r23-28-0687
class-map match-all r27-10-0789
    match access-group name r27-10-0789
class-map match-all r28-12-0821
    match access-group name r28-12-0821
class-map match-all r28-16-0825
    match access-group name r28-16-0825

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class-map match-all r28-21-0830
  match access-group name r28-21-0830
class-map match-all r28-23-0832
  match access-group name r28-23-0832
class-map match-all r28-27-0836
  match access-group name r28-27-0836
class-map match-all r28-29-0838
  match access-group name r28-29-0838
class-map match-all r13-30-0389
  match access-group name r13-30-0389
class-map match-all r14-12-0401
  match access-group name r14-12-0401
class-map match-all r14-16-0405
  match access-group name r14-16-0405
class-map match-all r14-21-0410
  match access-group name r14-21-0410
class-map match-all r14-23-0412
  match access-group name r14-23-0412
class-map match-all r14-25-0414
  match access-group name r14-25-0414
class-map match-all r14-27-0416
  match access-group name r14-27-0416
class-map match-all r14-29-0418
  match access-group name r14-29-0418
class-map match-all r19-20-0559
  match access-group name r19-20-0559
class-map match-all r24-12-0701
  match access-group name r24-12-0701
class-map match-all r24-16-0705
  match access-group name r24-16-0705
class-map match-all r24-21-0710
  match access-group name r24-21-0710
class-map match-all r24-23-0712
  match access-group name r24-23-0712
class-map match-all r24-25-0714
  match access-group name r24-25-0714
class-map match-all r24-27-0716
  match access-group name r24-27-0716
class-map match-all r24-29-0718
  match access-group name r24-29-0718
class-map match-all r25-11-0730
  match access-group name r25-11-0730
class-map match-all r25-13-0732
  match access-group name r25-13-0732
class-map match-all r25-15-0734
  match access-group name r25-15-0734
class-map match-all r25-17-0736
  match access-group name r25-17-0736
class-map match-all r25-19-0738
  match access-group name r25-19-0738
class-map match-all r26-14-0763
  match access-group name r26-14-0763
class-map match-all r30-11-0880
  match access-group name r30-11-0880
class-map match-all r30-13-0882
  match access-group name r30-13-0882
class-map match-all r30-15-0884
  match access-group name r30-15-0884
class-map match-all r10-20-0289
  match access-group name r10-20-0289
class-map match-all r10-30-0299
  match access-group name r10-30-0299
class-map match-all r13-14-0373
  match access-group name r13-14-0373

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class-map match-all r17-20-0499
  match access-group name r17-20-0499
class-map match-all r17-21-0500
  match access-group name r17-21-0500
class-map match-all r17-23-0502
  match access-group name r17-23-0502
class-map match-all r17-25-0504
  match access-group name r17-25-0504
class-map match-all r17-27-0506
  match access-group name r17-27-0506
class-map match-all r17-29-0508
  match access-group name r17-29-0508
class-map match-all r18-18-0527
  match access-group name r18-18-0527
class-map match-all r22-12-0641
  match access-group name r22-12-0641
class-map match-all r22-16-0645
  match access-group name r22-16-0645
class-map match-all r22-21-0650
  match access-group name r22-21-0650
class-map match-all r22-23-0652
  match access-group name r22-23-0652
class-map match-all r22-25-0654
  match access-group name r22-25-0654
class-map match-all r22-27-0656
  match access-group name r22-27-0656
class-map match-all r22-29-0658
  match access-group name r22-29-0658
class-map match-all r23-11-0670
  match access-group name r23-11-0670
class-map match-all r23-13-0672
  match access-group name r23-13-0672
class-map match-all r23-15-0674
  match access-group name r23-15-0674
class-map match-all r23-17-0676
  match access-group name r23-17-0676
class-map match-all r23-19-0678
  match access-group name r23-19-0678
class-map match-all r27-20-0799
  match access-group name r27-20-0799
class-map match-all r27-28-0807
  match access-group name r27-28-0807
class-map match-all r28-11-0820
  match access-group name r28-11-0820
class-map match-all r28-13-0822
  match access-group name r28-13-0822
class-map match-all r28-15-0824
  match access-group name r28-15-0824
class-map match-all r28-17-0826
  match access-group name r28-17-0826
class-map match-all r28-22-0831
  match access-group name r28-22-0831
class-map match-all r28-26-0835
  match access-group name r28-26-0835
class-map match-all r29-14-0853
  match access-group name r29-14-0853
class-map match-all r29-24-0863
  match access-group name r29-24-0863
class-map match-all r14-11-0400
  match access-group name r14-11-0400
class-map match-all r14-13-0402
  match access-group name r14-13-0402
class-map match-all r14-15-0404
  match access-group name r14-15-0404
```

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class-map match-all r14-17-0406
  match access-group name r14-17-0406
class-map match-all r14-19-0408
  match access-group name r14-19-0408
class-map match-all r14-22-0411
  match access-group name r14-22-0411
class-map match-all r14-26-0415
  match access-group name r14-26-0415
class-map match-all r19-10-0549
  match access-group name r19-10-0549
class-map match-all r19-30-0569
  match access-group name r19-30-0569
class-map match-all r24-10-0699
  match access-group name r24-10-0699
class-map match-all r24-11-0700
  match access-group name r24-11-0700
class-map match-all r24-13-0702
  match access-group name r24-13-0702
class-map match-all r24-15-0704
  match access-group name r24-15-0704
class-map match-all r24-17-0706
  match access-group name r24-17-0706
class-map match-all r24-19-0708
  match access-group name r24-19-0708
class-map match-all r24-22-0711
  match access-group name r24-22-0711
class-map match-all r24-26-0715
  match access-group name r24-26-0715
class-map match-all r25-12-0731
  match access-group name r25-12-0731
class-map match-all r25-16-0735
  match access-group name r25-16-0735
class-map match-all r25-24-0743
  match access-group name r25-24-0743
class-map match-all r26-24-0773
  match access-group name r26-24-0773
class-map match-all r30-12-0881
  match access-group name r30-12-0881
class-map match-all r3-2-0061
  match access-group name r3-2-0061
class-map match-all r3-6-0065
  match access-group name r3-6-0065
class-map match-all r13-11-0370
  match access-group name r13-11-0370
class-map match-all r13-13-0372
  match access-group name r13-13-0372
class-map match-all r13-15-0374
  match access-group name r13-15-0374
class-map match-all r13-17-0376
  match access-group name r13-17-0376
class-map match-all r13-19-0378
  match access-group name r13-19-0378
class-map match-all r17-24-0503
  match access-group name r17-24-0503
class-map match-all r19-18-0557
  match access-group name r19-18-0557
class-map match-all r19-28-0567
  match access-group name r19-28-0567
class-map match-all r21-12-0611
  match access-group name r21-12-0611
class-map match-all r21-16-0615
  match access-group name r21-16-0615
class-map match-all r21-22-0621
  match access-group name r21-22-0621

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```
class-map match-all r21-26-0625
  match access-group name r21-26-0625
class-map match-all r22-24-0653
  match access-group name r22-24-0653
class-map match-all r23-14-0673
  match access-group name r23-14-0673
class-map match-all r28-14-0823
  match access-group name r28-14-0823
class-map match-all r29-11-0850
  match access-group name r29-11-0850
class-map match-all r29-13-0852
  match access-group name r29-13-0852
class-map match-all r29-15-0854
  match access-group name r29-15-0854
class-map match-all r29-17-0856
  match access-group name r29-17-0856
class-map match-all r29-19-0858
  match access-group name r29-19-0858
class-map match-all r29-21-0860
  match access-group name r29-21-0860
class-map match-all r29-23-0862
  match access-group name r29-23-0862
class-map match-all r29-25-0864
  match access-group name r29-25-0864
class-map match-all r29-27-0866
  match access-group name r29-27-0866
class-map match-all r29-29-0868
  match access-group name r29-29-0868
class-map match-all r10-28-0297
  match access-group name r10-28-0297
class-map match-all r14-10-0399
  match access-group name r14-10-0399
class-map match-all r14-14-0403
  match access-group name r14-14-0403
class-map match-all r24-14-0703
  match access-group name r24-14-0703
class-map match-all r25-21-0740
  match access-group name r25-21-0740
class-map match-all r25-23-0742
  match access-group name r25-23-0742
class-map match-all r25-25-0744
  match access-group name r25-25-0744
class-map match-all r25-27-0746
  match access-group name r25-27-0746
class-map match-all r25-29-0748
  match access-group name r25-29-0748
class-map match-all r26-12-0761
  match access-group name r26-12-0761
class-map match-all r26-21-0770
  match access-group name r26-21-0770
class-map match-all r26-23-0772
  match access-group name r26-23-0772
class-map match-all r26-25-0774
  match access-group name r26-25-0774
class-map match-all r26-27-0776
  match access-group name r26-27-0776
class-map match-all r26-29-0778
  match access-group name r26-29-0778
class-map match-all r27-30-0809
  match access-group name r27-30-0809
class-map match-all r3-1-0060
  match access-group name r3-1-0060
class-map match-all r3-3-0062
  match access-group name r3-3-0062
```

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class-map match-all r3-5-0064
  match access-group name r3-5-0064
class-map match-all r3-7-0066
  match access-group name r3-7-0066
class-map match-all r3-9-0068
  match access-group name r3-9-0068
class-map match-all r13-12-0371
  match access-group name r13-12-0371
class-map match-all r13-16-0375
  match access-group name r13-16-0375
class-map match-all r13-28-0387
  match access-group name r13-28-0387
class-map match-all r21-11-0610
  match access-group name r21-11-0610
class-map match-all r21-13-0612
  match access-group name r21-13-0612
class-map match-all r21-15-0614
  match access-group name r21-15-0614
class-map match-all r21-17-0616
  match access-group name r21-17-0616
class-map match-all r21-19-0618
  match access-group name r21-19-0618
class-map match-all r21-21-0620
  match access-group name r21-21-0620
class-map match-all r21-23-0622
  match access-group name r21-23-0622
class-map match-all r21-25-0624
  match access-group name r21-25-0624
class-map match-all r21-27-0626
  match access-group name r21-27-0626
class-map match-all r21-29-0628
  match access-group name r21-29-0628
class-map match-all r22-14-0643
  match access-group name r22-14-0643
class-map match-all r28-24-0833
  match access-group name r28-24-0833
class-map match-all r29-12-0851
  match access-group name r29-12-0851
class-map match-all r29-16-0855
  match access-group name r29-16-0855
class-map match-all r29-22-0861
  match access-group name r29-22-0861
class-map match-all r29-26-0865
  match access-group name r29-26-0865
class-map match-all r30-10-0879
  match access-group name r30-10-0879
class-map match-all r10-18-0287
  match access-group name r10-18-0287
class-map match-all r14-24-0413
  match access-group name r14-24-0413
class-map match-all r17-18-0497
  match access-group name r17-18-0497
class-map match-all r18-10-0519
  match access-group name r18-10-0519
class-map match-all r18-20-0529
  match access-group name r18-20-0529
class-map match-all r18-30-0539
  match access-group name r18-30-0539
class-map match-all r23-30-0689
  match access-group name r23-30-0689
class-map match-all r24-24-0713
  match access-group name r24-24-0713
class-map match-all r25-14-0733
  match access-group name r25-14-0733

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```
class-map match-all r25-22-0741
  match access-group name r25-22-0741
class-map match-all r25-26-0745
  match access-group name r25-26-0745
class-map match-all r26-11-0760
  match access-group name r26-11-0760
class-map match-all r26-13-0762
  match access-group name r26-13-0762
class-map match-all r26-15-0764
  match access-group name r26-15-0764
class-map match-all r26-17-0766
  match access-group name r26-17-0766
class-map match-all r26-19-0768
  match access-group name r26-19-0768
class-map match-all r26-22-0771
  match access-group name r26-22-0771
class-map match-all r26-26-0775
  match access-group name r26-26-0775
class-map match-all r27-18-0797
  match access-group name r27-18-0797
class-map match-all r30-14-0883
  match access-group name r30-14-0883
class-map match-all r3-8-0067
  match access-group name r3-8-0067
class-map match-all r13-21-0380
  match access-group name r13-21-0380
class-map match-all r13-23-0382
  match access-group name r13-23-0382
class-map match-all r13-25-0384
  match access-group name r13-25-0384
class-map match-all r13-27-0386
  match access-group name r13-27-0386
class-map match-all r13-29-0388
  match access-group name r13-29-0388
class-map match-all r14-20-0409
  match access-group name r14-20-0409
class-map match-all r14-30-0419
  match access-group name r14-30-0419
class-map match-all r18-24-0533
  match access-group name r18-24-0533
class-map match-all r19-12-0551
  match access-group name r19-12-0551
class-map match-all r19-16-0555
  match access-group name r19-16-0555
class-map match-all r19-22-0561
  match access-group name r19-22-0561
class-map match-all r19-26-0565
  match access-group name r19-26-0565
class-map match-all r21-18-0617
  match access-group name r21-18-0617
class-map match-all r21-28-0627
  match access-group name r21-28-0627
class-map match-all r23-24-0683
  match access-group name r23-24-0683
class-map match-all r24-20-0709
  match access-group name r24-20-0709
class-map match-all r24-30-0719
  match access-group name r24-30-0719
class-map match-all r25-10-0729
  match access-group name r25-10-0729
class-map match-all r10-11-0280
  match access-group name r10-11-0280
class-map match-all r10-13-0282
  match access-group name r10-13-0282
```

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class-map match-all r10-15-0284
  match access-group name r10-15-0284
class-map match-all r10-17-0286
  match access-group name r10-17-0286
class-map match-all r10-19-0288
  match access-group name r10-19-0288
class-map match-all r10-22-0291
  match access-group name r10-22-0291
class-map match-all r10-26-0295
  match access-group name r10-26-0295
class-map match-all r17-11-0490
  match access-group name r17-11-0490
class-map match-all r17-13-0492
  match access-group name r17-13-0492
class-map match-all r17-15-0494
  match access-group name r17-15-0494
class-map match-all r17-17-0496
  match access-group name r17-17-0496
class-map match-all r17-19-0498
  match access-group name r17-19-0498
class-map match-all r23-20-0679
  match access-group name r23-20-0679
class-map match-all r26-18-0767
  match access-group name r26-18-0767
class-map match-all r27-11-0790
  match access-group name r27-11-0790
class-map match-all r27-13-0792
  match access-group name r27-13-0792
class-map match-all r27-15-0794
  match access-group name r27-15-0794
class-map match-all r27-17-0796
  match access-group name r27-17-0796
class-map match-all r27-19-0798
  match access-group name r27-19-0798
class-map match-all r28-10-0819
  match access-group name r28-10-0819
class-map match-all r28-20-0829
  match access-group name r28-20-0829
class-map match-all r28-30-0839
  match access-group name r28-30-0839
class-map match-all r13-18-0377
  match access-group name r13-18-0377
class-map match-all r13-22-0381
  match access-group name r13-22-0381
class-map match-all r13-26-0385
  match access-group name r13-26-0385
class-map match-all r18-14-0523
  match access-group name r18-14-0523
class-map match-all r19-11-0550
  match access-group name r19-11-0550
class-map match-all r19-13-0552
  match access-group name r19-13-0552
class-map match-all r19-15-0554
  match access-group name r19-15-0554
class-map match-all r19-17-0556
  match access-group name r19-17-0556
class-map match-all r19-19-0558
  match access-group name r19-19-0558
class-map match-all r19-21-0560
  match access-group name r19-21-0560
class-map match-all r19-23-0562
  match access-group name r19-23-0562
class-map match-all r19-25-0564
  match access-group name r19-25-0564

```

```
class-map match-all r19-27-0566
  match access-group name r19-27-0566
class-map match-all r19-29-0568
  match access-group name r19-29-0568
class-map match-all r25-20-0739
  match access-group name r25-20-0739
class-map match-all r27-24-0803
  match access-group name r27-24-0803
class-map match-all r29-18-0857
  match access-group name r29-18-0857
class-map match-all r29-28-0867
  match access-group name r29-28-0867
class-map match-all r10-12-0281
  match access-group name r10-12-0281
class-map match-all r10-16-0285
  match access-group name r10-16-0285
class-map match-all r10-21-0290
  match access-group name r10-21-0290
class-map match-all r10-23-0292
  match access-group name r10-23-0292
class-map match-all r10-25-0294
  match access-group name r10-25-0294
class-map match-all r10-27-0296
  match access-group name r10-27-0296
class-map match-all r10-29-0298
  match access-group name r10-29-0298
class-map match-all r17-12-0491
  match access-group name r17-12-0491
class-map match-all r17-16-0495
  match access-group name r17-16-0495
class-map match-all r17-30-0509
  match access-group name r17-30-0509
class-map match-all r22-20-0649
  match access-group name r22-20-0649
class-map match-all r22-30-0659
  match access-group name r22-30-0659
class-map match-all r23-10-0669
  match access-group name r23-10-0669
class-map match-all r25-28-0747
  match access-group name r25-28-0747
class-map match-all r26-28-0777
  match access-group name r26-28-0777
class-map match-all r27-12-0791
  match access-group name r27-12-0791
class-map match-all r27-16-0795
  match access-group name r27-16-0795
class-map match-all r17-28-0507
  match access-group name r17-28-0507
class-map match-all r18-11-0520
  match access-group name r18-11-0520
class-map match-all r18-13-0522
  match access-group name r18-13-0522
class-map match-all r18-15-0524
  match access-group name r18-15-0524
class-map match-all r18-17-0526
  match access-group name r18-17-0526
class-map match-all r18-19-0528
  match access-group name r18-19-0528
class-map match-all r18-22-0531
  match access-group name r18-22-0531
class-map match-all r18-26-0535
  match access-group name r18-26-0535
class-map match-all r19-14-0553
  match access-group name r19-14-0553
```



```

class-map match-all r19-24-0563
  match access-group name r19-24-0563
class-map match-all r22-28-0657
  match access-group name r22-28-0657
class-map match-all r23-18-0677
  match access-group name r23-18-0677
class-map match-all r23-22-0681
  match access-group name r23-22-0681
class-map match-all r23-26-0685
  match access-group name r23-26-0685
class-map match-all r25-30-0749
  match access-group name r25-30-0749
class-map match-all r26-10-0759
  match access-group name r26-10-0759
class-map match-all r26-20-0769
  match access-group name r26-20-0769
class-map match-all r26-30-0779
  match access-group name r26-30-0779
class-map match-all r27-21-0800
  match access-group name r27-21-0800
class-map match-all r27-23-0802
  match access-group name r27-23-0802
class-map match-all r27-25-0804
  match access-group name r27-25-0804
class-map match-all r27-27-0806
  match access-group name r27-27-0806
class-map match-all r27-29-0808
  match access-group name r27-29-0808
class-map match-all r28-18-0827
  match access-group name r28-18-0827
class-map match-all r10-24-0293
  match access-group name r10-24-0293
class-map match-all r13-10-0369
  match access-group name r13-10-0369
class-map match-all r14-18-0407
  match access-group name r14-18-0407
class-map match-all r21-20-0619
  match access-group name r21-20-0619
class-map match-all r24-18-0707
  match access-group name r24-18-0707
class-map match-all r29-10-0849
  match access-group name r29-10-0849
class-map match-all r29-30-0869
  match access-group name r29-30-0869
class-map match-all r4-7-0096
  match access-group name r4-7-0096
class-map match-all r4-9-0098
  match access-group name r4-9-0098
class-map match-all r10-10-0279
  match access-group name r10-10-0279
class-map match-all r13-24-0383
  match access-group name r13-24-0383
class-map match-all r18-12-0521
  match access-group name r18-12-0521
class-map match-all r18-16-0525
  match access-group name r18-16-0525
class-map match-all r18-21-0530
  match access-group name r18-21-0530
class-map match-all r18-23-0532
  match access-group name r18-23-0532
class-map match-all r18-25-0534
  match access-group name r18-25-0534
class-map match-all r18-27-0536
  match access-group name r18-27-0536

```

```

class-map match-all r18-29-0538
  match access-group name r18-29-0538
class-map match-all r22-18-0647
  match access-group name r22-18-0647
class-map match-all r23-21-0680
  match access-group name r23-21-0680
class-map match-all r23-23-0682
  match access-group name r23-23-0682
class-map match-all r23-25-0684
  match access-group name r23-25-0684
class-map match-all r23-27-0686
  match access-group name r23-27-0686
class-map match-all r23-29-0688
  match access-group name r23-29-0688
class-map match-all r27-22-0801
  match access-group name r27-22-0801
class-map match-all r27-26-0805
  match access-group name r27-26-0805
class-map match-all r10-14-0283
  match access-group name r10-14-0283
class-map match-all r13-20-0379
  match access-group name r13-20-0379
class-map match-all r14-28-0417
  match access-group name r14-28-0417
class-map match-all r17-14-0493
  match access-group name r17-14-0493
class-map match-all r21-10-0609
  match access-group name r21-10-0609
class-map match-all r21-30-0629
  match access-group name r21-30-0629
class-map match-all r22-10-0639
  match access-group name r22-10-0639
class-map match-all r24-28-0717
  match access-group name r24-28-0717
class-map match-all r25-18-0737
  match access-group name r25-18-0737
class-map match-all r27-14-0793
  match access-group name r27-14-0793
class-map match-all r29-20-0859
  match access-group name r29-20-0859
!
policy-map child_r13-1-0360
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-7-0396
  class Voice
    priority percent 18

```

```

class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-11-0640
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-9-0818
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-4-0543
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-24-0113
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-27-0716
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-30-0869
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r17-28-0507
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r22-24-0653
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r27-22-0801
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-8-0847
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-29-0418
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-30-0539
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r26-4-0753
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-26-0535
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-27-0536
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-4-0603
  class Voice
    priority percent 18

```

```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r21-9-0608
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r23-27-0686
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r24-2-0691
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```



```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-11-0100
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-6-0395
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-11-0670
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r22-5-0634
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r10-9-0278
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r17-27-0506
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-19-0618
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-18-0677
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-20-0769
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r30-8-0877
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-21-0860
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-15-0284
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-21-0290
  class Voice
    priority percent 18

```

```

class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-10-0399
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-20-0559
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-7-0876
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-15-0614
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-24-0803
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-21-0410
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r17-16-0495
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r25-25-0744
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r18-13-0522
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r19-3-0542
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r28-11-0820
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r26-13-0762
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25

```



```

        random-detect
policy-map child_r17-29-0508
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-19-0678
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-30-0389
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-10-0729
  class Voice
    priority percent 18

```

```

class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-14-0823
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-22-0771
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-26-0775
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-12-0791
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-14-0793
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-18-0797
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r19-22-0561
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r18-6-0515
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r4-21-0110
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-17-0496
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-30-0629
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-7-0726
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r4-7-0096
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-22-0381
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-4-0513
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-23-0772
  class Voice
    priority percent 18

```

```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r26-27-0776
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r13-3-0362
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r14-5-0394
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-7-0846
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-23-0742
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-19-0108
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```



```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r14-20-0409
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r23-17-0676
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r25-5-0724
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-20-0289
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-19-0528
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-24-0533
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r19-12-0551
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-15-0704
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-6-0875
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-1-0390
  class Voice
    priority percent 18

```

```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r22-12-0641
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r25-27-0746
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r19-6-0545
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-23-0832
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-18-0857
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-11-0760
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r13-9-0368
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r18-25-0534
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r27-13-0792
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-28-0657
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-7-0486
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-12-0491
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

    random-detect
policy-map child_r25-4-0723
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-21-0680
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-25-0114
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-22-0861
  class Voice
    priority percent 18

```



```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r29-27-0866
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r25-24-0743
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r13-29-0388
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-1-0540
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-9-0548
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-27-0626
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r28-24-0833
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r4-10-0099
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r27-27-0806
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-29-0748
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-23-0532
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-18-0557
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r24-20-0709
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-23-0112
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-29-0118
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-27-0296
  class Voice
    priority percent 18

```

```

class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-18-0497
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-1-0750
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-16-0555
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-18-0827
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map copp-policy
    class coppclass-igp
        police cir 300000 bc 3000 be 3000 conform-action transmit exceed-action drop
        violate-action drop
    class coppclass-filemanagement
        police cir 80000 bc 8000 be 8000
        conform-action transmit
        exceed-action drop
        violate-action drop
    class coppclass-management
        police cir 1000000 bc 100000 be 100000
        conform-action transmit
        exceed-action drop
        violate-action drop
    class coppclass-monitoring
        police cir 500000 bc 5000 be 5000
        conform-action transmit
        exceed-action drop
        violate-action drop
    class coppclass-critical-app
        police cir 500000 bc 5000 be 5000
        conform-action transmit
        exceed-action drop
        violate-action drop
    class coppclass-vpn
        police cir 600000 bc 60000 be 60000 conform-action transmit exceed-action dr
op violate-action drop
    class class-default
        police cir 1000000 bc 100000 be 100000
        conform-action transmit
        exceed-action drop

```

```

        violate-action drop
policy-map child_r24-23-0712
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-30-0809
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-20-0859
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-26-0415
  class Voice
    priority percent 18

```



```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r13-23-0382
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r19-2-0541
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r28-13-0822
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-19-0738
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-2-0391
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-13-0672
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r23-15-0674
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r14-24-0413
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r17-13-0492
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-1-0630
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-11-0280
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-7-0366
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r29-4-0843
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-17-0406
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-6-0695
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-17-0376
  class Voice
    priority percent 18

```

```

class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-25-0504
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-3-0062
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-9-0098
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-21-0530
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-8-0547
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-22-0621
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r21-24-0623
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r10-29-0298
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r19-30-0569
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```



```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-11-0790
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-29-0568
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-5-0844
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r14-22-0411
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-15-0494
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-20-0679
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-2-0511
  class Voice
    priority percent 18

```

```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r24-4-0693
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r25-20-0739
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r28-15-0824
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-21-0830
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-15-0734
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-12-0761
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r17-21-0500
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r29-26-0865
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r27-4-0783
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-9-0068
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-23-0622
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-2-0661
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r14-13-0402
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-2-0721
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-16-0375
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-25-0654
  class Voice
    priority percent 18

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```

class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-10-0369
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-9-0488
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-8-0517
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5

```



```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-4-0663
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-4-0393
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-30-0779
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-8-0097
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-24-0683
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-3-0272
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-10-0549
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-13-0732
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-16-0615
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

    random-detect
policy-map child_r22-27-0656
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-19-0408
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-14-0493
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-21-0380
  class Voice
    priority percent 18

```

```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r18-15-0524
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r18-28-0537
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r23-9-0668
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-17-0856
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-19-0288
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-12-0701
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r24-24-0713
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r21-11-0610
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r22-26-0655
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-12-0671
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-7-0516
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-16-0525
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```



```

        random-detect
policy-map child_r19-11-0550
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-14-0553
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-7-0696
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-5-0874
  class Voice
    priority percent 18

```

```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r28-7-0816
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r14-15-0404
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r17-1-0480
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-1-0720
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-28-0627
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-8-0637
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r28-12-0821
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r4-26-0115
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r24-11-0700
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-17-0706
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-8-0727
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-17-0736
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r26-15-0764
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-15-0644
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-30-0719
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-8-0787
  class Voice
    priority percent 18

```

```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r18-5-0514
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r19-13-0552
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r22-6-0635
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-22-0291
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-25-0294
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-20-0529
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```



```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r24-13-0702
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r13-14-0373
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r14-9-0398
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based

```

```

class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-18-0647
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map type inspect hq-branch-policy
class type inspect to-branch-class
    pass
class class-default
    drop log
policy-map child_r26-2-0751
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-3-0602
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4

```

```

        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r25-30-0749
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r10-7-0276
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r26-14-0763
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default

```

```

        bandwidth percent 25
        random-detect
policy-map child_r13-12-0371
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-22-0501
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-27-0416
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-28-0417
class Voice

```

```

        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r26-3-0752
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r18-14-0523
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r21-26-0625
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling

```

```

        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r23-7-0666
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r29-19-0858
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r4-16-0105
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data

```

```

        bandwidth percent 27
        random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-28-0117
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-18-0707
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-17-0796
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4

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```

        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r19-21-0560
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r27-25-0804
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r17-11-0490
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default

```



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        bandwidth percent 25
        random-detect
policy-map child_r3-8-0067
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-12-0521
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-26-0685
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-9-0698
class Voice

```

```

        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r28-17-0826
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r28-29-0838
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r25-16-0735
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling

```

```

        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r17-10-0489
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r17-2-0481
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r25-3-0722
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data

```

```

        bandwidth percent 27
        random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-28-0747
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-2-0781
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map type inspect branch-hq-policy
class type inspect frm-branch-class
    pass
class class-default
    drop log
policy-map child_r29-3-0842
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5

```

```

class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r18-10-0519
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r18-22-0531
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r14-3-0392
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data

```

```

        bandwidth percent 4
        random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-13-0642
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-19-0648
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-23-0652
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1

```

```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-17-0556
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-12-0101
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-10-0699
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-29-0718

```

```

class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-21-0770
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-29-0778
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-15-0794
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15

```



```

class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-14-0673
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-16-0675
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-25-0414
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5

```

```

class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-3-0482
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-30-0839
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-1-0600
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

```

```

        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r27-20-0799
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r29-16-0855
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r4-17-0106
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1

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class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-14-0283
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-29-0658
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-10-0669
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-5-0064

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class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r18-1-0510
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-9-0638
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-5-0664
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15

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```

class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r23-6-0665
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r27-16-0795
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r27-21-0800
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5

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```

class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-6-0725
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-10-0819
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-6-0065
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

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        bandwidth percent 4
        random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-5-0604
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-28-0687
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-13-0102
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1

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class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-15-0104
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-23-0292
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-24-0293
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-28-0297

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class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-18-0737
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-1-0870
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-9-0878
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15

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class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-12-0881
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-8-0817
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-6-0485
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5

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class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-7-0636
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-8-0667
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-26-0835
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

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        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r24-19-0708
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r13-18-0377
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r17-20-0499
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1

```

```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-26-0565
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-6-0755
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-9-0788
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-2-0061

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class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r13-27-0386
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-3-0512
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-6-0605
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15

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```

class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r21-7-0606
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r23-29-0688
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r24-3-0692
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5

```



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class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-8-0277
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-23-0562
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-10-0759
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

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        bandwidth percent 4
        random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-2-0811
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-10-0069
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-26-0385
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1

```

```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-11-0520
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-5-0544
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-25-0624
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-26-0715

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```

class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-8-0397
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-16-0645
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-26-0805
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15

```

```

class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-4-0483
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-3-0782
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-15-0554
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5

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```

class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-19-0558
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-25-0684
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-10-0789
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

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        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r30-4-0873
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r29-29-0868
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r14-12-0401
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1

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```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-7-0066
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-18-0527
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-3-0632
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-2-0871

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class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r17-19-0498
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-28-0387
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-27-0836
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15

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```

class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-26-0505
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-28-0567
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-17-0646
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5

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class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r29-23-0862
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r29-24-0863
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r14-11-0400
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data

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        bandwidth percent 4
        random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-29-0628
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-18-0107
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-1-0270
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1

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class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-14-0703
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-10-0279
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-25-0564
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-14-0643

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class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-28-0807
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-8-0487
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-5-0784
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15

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class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-4-0063
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-23-0682
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-14-0733
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5

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class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-5-0364
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-13-0372
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-18-0617
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

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        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r23-30-0689
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r26-7-0756
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r24-16-0705
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1

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```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-25-0774
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-11-0070
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-6-0365
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-24-0503

```

```

class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r24-1-0690
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-27-0566
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-21-0650
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15

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```

class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r17-5-0484
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r3-1-0060
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r21-21-0620
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5

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class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-13-0852
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-14-0103
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-22-0711
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

```

```

        bandwidth percent 4
        random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-20-0829
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r3-12-0071
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-2-0361
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1

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```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-1-0840
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-9-0848
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-17-0526
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-8-0607

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class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-5-0694
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-8-0697
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-12-0851
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15

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class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-19-0768
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-30-0119
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-1-0810
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5

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```

class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-3-0812
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-10-0879
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-20-0649
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

```

```

        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r25-9-0728
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r26-5-0754
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r26-9-0758
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1

```

```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-4-0633
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-6-0275
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-26-0295
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-19-0798

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```

class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r13-15-0374
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-2-0841
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-14-0403
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15

```

```

class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r21-10-0609
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r27-1-0780
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r4-20-0109
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5

```

```

class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r13-24-0383
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r10-13-0282
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r10-17-0286
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data

```

```

        bandwidth percent 4
        random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-30-0659
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-10-0849
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-4-0363
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1

```



```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-8-0367
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-28-0867
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-9-0518
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-2-0631

```

```

class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-1-0660
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-30-0509
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-24-0773
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15

```

```

class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-11-0370
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-13-0612
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-6-0845
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5

```

```

class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-20-0379
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-20-0619
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r26-8-0757
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

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```

        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r23-22-0681
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r10-4-0273
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r26-17-0766
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1

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```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-5-0814
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r29-25-0864
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-25-0384
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-22-0831

```

```

class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r4-22-0111
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-2-0271
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-25-0714
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15

```

```

class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r10-30-0299
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r14-18-0407
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r29-14-0853
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5

```



```

class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r10-18-0287
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r25-12-0731
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r26-18-0767
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data

```

```

        bandwidth percent 4
        random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r19-24-0563
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r21-12-0611
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-6-0815
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1

```

```

class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-16-0405
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r14-23-0412
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-22-0741
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-26-0745

```

```

class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-6-0785
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r28-16-0825
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r10-16-0285
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15

```

```

class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-10-0639
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-28-0717
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-11-0880
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5

```

```

class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-14-0883
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r30-15-0884
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r13-19-0378
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data

```

```

        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r25-21-0740
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r30-13-0882
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r21-14-0613
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1

```

```

class class-default
    bandwidth percent 25
    random-detect
policy-map HUB-A
class r3-1-0060
    shape average 1310000 13100
class r3-2-0061
    shape average 1310000 13100
class r3-3-0062
    shape average 1310000 13100
class r3-4-0063
    shape average 1310000 13100
class r3-5-0064
    shape average 1310000 13100
class r3-6-0065
    shape average 1310000 13100
class r3-7-0066
    shape average 1310000 13100
policy-map child_r14-30-0419
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r18-29-0538
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r23-3-0662
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling

```



```

        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r29-11-0850
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r29-15-0854
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r10-12-0281
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data

```

```

        bandwidth percent 27
        random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r24-21-0710
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map HUB-B
class r22-1-0630
    shape average 1310000 13100
class r22-2-0631
    shape average 1310000 13100
class r22-3-0632
    shape average 1310000 13100
class r22-4-0633
    shape average 1310000 13100
class r22-5-0634
    shape average 1310000 13100
class r22-6-0635
    shape average 1310000 13100
class r22-7-0636
    shape average 1310000 13100
policy-map child_r21-17-0616
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25

```

```

        random-detect
policy-map child_r27-23-0802
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-7-0786
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r4-27-0116
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
  class Scavenger
    bandwidth percent 1
  class class-default
    bandwidth percent 25
    random-detect
policy-map child_r25-11-0730
  class Voice
    priority percent 18

```

```

class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r10-5-0274
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r26-28-0777
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5
class Network-Control
  bandwidth percent 5
class Critical-Data
  bandwidth percent 27
  random-detect dscp-based
class Bulk-Data
  bandwidth percent 4
  random-detect dscp-based
class Scavenger
  bandwidth percent 1
class class-default
  bandwidth percent 25
  random-detect
policy-map child_r30-3-0872
class Voice
  priority percent 18
class Interactive-Video
  priority percent 15
class Call-Signaling
  bandwidth percent 5

```

```

class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r17-23-0502
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r22-22-0651
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map child_r27-29-0808
class Voice
    priority percent 18
class Interactive-Video
    priority percent 15
class Call-Signaling
    bandwidth percent 5
class Network-Control
    bandwidth percent 5
class Critical-Data
    bandwidth percent 27

```

```

        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r19-7-0546
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
policy-map child_r21-2-0601
    class Voice
        priority percent 18
    class Interactive-Video
        priority percent 15
    class Call-Signaling
        bandwidth percent 5
    class Network-Control
        bandwidth percent 5
    class Critical-Data
        bandwidth percent 27
        random-detect dscp-based
    class Bulk-Data
        bandwidth percent 4
        random-detect dscp-based
    class Scavenger
        bandwidth percent 1
    class class-default
        bandwidth percent 25
        random-detect
!
zone security vpn
    description VPN to Branches
zone security corp
    description Corporate Network
zone-pair security hq-branch source corp destination vpn
    service-policy type inspect hq-branch-policy
zone-pair security branch-hq source vpn destination corp
    service-policy type inspect branch-hq-policy
!
buffers tune automatic
!
!
!
interface Tunnel0

```

```

description Tunnel0
bandwidth 100000
ip address 10.56.0.1 255.255.248.0
no ip redirects
ip mtu 1400
ip hold-time eigrp 1 35
no ip next-hop-self eigrp 1
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
ip flow ingress
ip nhrp authentication <strong-key>
ip nhrp map multicast dynamic
ip nhrp network-id 105600
ip nhrp holdtime 1800
ip nhrp max-send 1000 every 10
ip nhrp registration timeout 120
no ip split-horizon eigrp 1
load-interval 60
flow-sampler CSMARS-SAMPLE
qos pre-classify
tunnel source Loopback0
tunnel mode gre multipoint
tunnel key 105600
tunnel protection ipsec profile vpn-dmvpn
!
interface Loopback0
ip address 192.168.34.1 255.255.255.255
no ip proxy-arp
load-interval 60
!
interface Loopback1
ip address 10.208.33.1 255.255.255.252
no ip proxy-arp
load-interval 60
!
interface GigabitEthernet0/0/0
description to switch-2 G1/0/49
ip address 10.208.15.2 255.255.255.252
no ip redirects
no ip proxy-arp
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
load-interval 60
negotiation auto
no mop enabled
!
interface GigabitEthernet0/0/1
no ip address
load-interval 60
negotiation auto
no mop enabled
!
interface GigabitEthernet0/0/1.11
description To switch-1
encapsulation dot1Q 11
ip address 10.208.11.2 255.255.255.252
no ip redirects
no ip proxy-arp
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
snmp trap link-status
!
interface GigabitEthernet0/0/1.999
description Battleship

```

```

encapsulation dot1Q 999
ip address 10.204.0.7 255.252.0.0
no ip redirects
no ip proxy-arp
!
interface GigabitEthernet0/0/2
description to switch-2 G1/0/39
ip address 10.208.15.6 255.255.255.252
no ip redirects
no ip proxy-arp
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
load-interval 60
negotiation auto
no mop enabled
!
interface GigabitEthernet0/0/3
description WAN: MPLS B
ip address 192.168.188.22 255.255.255.248
ip access-group 120 in
ip verify unicast source reachable-via any
no ip redirects
no ip proxy-arp
ip flow ingress
load-interval 60
negotiation auto
snmp trap ip verify drop-rate
flow-sampler CSMARS-SAMPLE
no cdp enable
no mop enabled
service-policy output HUB-B
!
interface GigabitEthernet0/0/4
description WAN: MPLS A
ip address 192.168.160.122 255.255.255.248
ip access-group 121 in
ip verify unicast source reachable-via any
no ip redirects
no ip proxy-arp
ip flow ingress
load-interval 60
negotiation auto
snmp trap ip verify drop-rate
flow-sampler CSMARS-SAMPLE
no cdp enable
no mop enabled
service-policy output HUB-A
!
interface GigabitEthernet0
vrf forwarding Mgmt-intf
ip address <OOB-IP> <mask>
ip access-group 133 in
ip access-group 134 out
no ip redirects
no ip proxy-arp
negotiation auto
no cdp enable
no mop enabled
!
router eigrp 1
network 10.56.0.0 0.0.255.255
network 10.0.0.0
no auto-summary
distribute-list 30 in Tunnel0

```



```

passive-interface default
no passive-interface GigabitEthernet0/0/0
no passive-interface GigabitEthernet0/0/1.11
no passive-interface GigabitEthernet0/0/2
no passive-interface Tunnel0
offset-list 0 out 50 GigabitEthernet0/0/1.11
!
router eigrp 100
network 192.168.0.0 0.0.255.255
no auto-summary
distribute-list DMVPNHUB out
passive-interface default
no passive-interface GigabitEthernet0/0/3
no passive-interface GigabitEthernet0/0/4
offset-list 0 out 10 GigabitEthernet0/0/4
!
ip classless
ip route vrf Mgmt-intf <OOB-Net> <inverse-mask> <OOB-GW>
!
ip flow-export source Loopback1
ip flow-export destination <CS-MARS-IP> <port#>
no ip http server
no ip http secure-server
!
ip access-list standard DMVPNHUB
permit 192.168.34.1
!
ip access-list extended coppacl-critical-app
remark CoPP critical apps traffic class
permit <OOB-net> <inverse-mask> host 224.0.0.2
ip access-list extended coppacl-filemanagement
remark CoPP File transfer traffic class
permit tcp any eq ftp host <OOB-IP> gt 1023 established
permit tcp <OOB-net> <inverse-mask> eq ftp-data host <OOB-IP> gt 1023
permit tcp <OOB-net> <inverse-mask> gt 1023 host <OOB-IP> gt 1023 established
permit udp <OOB-net> <inverse-mask> gt 1023 host <OOB-IP> gt 1023
ip access-list extended coppacl-igp
remark IGP traffic class
permit eigrp any any
ip access-list extended coppacl-management
remark CoPP management traffic class
permit tcp <OOB-net> <inverse-mask> eq tacacs any established
permit tcp <OOB-net> <inverse-mask> any eq 22
permit tcp <OOB-net> <inverse-mask> any eq telnet
permit udp <OOB-net> <inverse-mask> host <OOB-IP> eq snmp
permit udp host <NTP-Server1> host <OOB-IP> eq ntp
permit udp host <NTP-Server2> host <OOB-IP> eq ntp
permit udp host <NTP-Peer> host <OOB-IP> eq ntp
ip access-list extended coppacl-monitoring
remark CoPP monitoring traffic class
permit icmp any any ttl-exceeded
permit icmp any any port-unreachable
permit icmp any any echo-reply
permit icmp any any echo
ip access-list extended coppacl-vpn
remark CoPP VPN and GRE class
permit gre any host 192.168.34.1
permit udp any host 192.168.34.1 eq isakmp
permit udp any host 192.168.34.1 eq non500-isakmp
ip access-list extended r10-1-0270
permit ip any 10.194.0.0 0.0.0.255
ip access-list extended r10-10-0279
permit ip any 10.194.9.0 0.0.0.255
ip access-list extended r10-11-0280

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```
permit ip any 10.194.10.0 0.0.0.255
ip access-list extended r10-12-0281
  permit ip any 10.194.11.0 0.0.0.255
ip access-list extended r10-13-0282
  permit ip any 10.194.12.0 0.0.0.255
ip access-list extended r10-14-0283
  permit ip any 10.194.13.0 0.0.0.255
ip access-list extended r10-15-0284
  permit ip any 10.194.14.0 0.0.0.255
ip access-list extended r10-16-0285
  permit ip any 10.194.15.0 0.0.0.255
ip access-list extended r10-17-0286
  permit ip any 10.194.16.0 0.0.0.255
ip access-list extended r10-18-0287
  permit ip any 10.194.17.0 0.0.0.255
ip access-list extended r10-19-0288
  permit ip any 10.194.18.0 0.0.0.255
ip access-list extended r10-2-0271
  permit ip any 10.194.1.0 0.0.0.255
ip access-list extended r10-20-0289
  permit ip any 10.194.19.0 0.0.0.255
ip access-list extended r10-21-0290
  permit ip any 10.194.20.0 0.0.0.255
ip access-list extended r10-22-0291
  permit ip any 10.194.21.0 0.0.0.255
ip access-list extended r10-23-0292
  permit ip any 10.194.22.0 0.0.0.255
ip access-list extended r10-24-0293
  permit ip any 10.194.23.0 0.0.0.255
ip access-list extended r10-25-0294
  permit ip any 10.194.24.0 0.0.0.255
ip access-list extended r10-26-0295
  permit ip any 10.194.25.0 0.0.0.255
ip access-list extended r10-27-0296
  permit ip any 10.194.26.0 0.0.0.255
ip access-list extended r10-28-0297
  permit ip any 10.194.27.0 0.0.0.255
ip access-list extended r10-29-0298
  permit ip any 10.194.28.0 0.0.0.255
ip access-list extended r10-3-0272
  permit ip any 10.194.2.0 0.0.0.255
ip access-list extended r10-30-0299
  permit ip any 10.194.29.0 0.0.0.255
ip access-list extended r10-4-0273
  permit ip any 10.194.3.0 0.0.0.255
ip access-list extended r10-5-0274
  permit ip any 10.194.4.0 0.0.0.255
ip access-list extended r10-6-0275
  permit ip any 10.194.5.0 0.0.0.255
ip access-list extended r10-7-0276
  permit ip any 10.194.6.0 0.0.0.255
ip access-list extended r10-8-0277
  permit ip any 10.194.7.0 0.0.0.255
ip access-list extended r10-9-0278
  permit ip any 10.194.8.0 0.0.0.255
ip access-list extended r13-1-0360
  permit ip any 10.194.128.0 0.0.0.255
ip access-list extended r13-10-0369
  permit ip any 10.194.137.0 0.0.0.255
ip access-list extended r13-11-0370
  permit ip any 10.194.138.0 0.0.0.255
ip access-list extended r13-12-0371
  permit ip any 10.194.139.0 0.0.0.255
ip access-list extended r13-13-0372
```

```

    permit ip any 10.194.140.0 0.0.0.255
ip access-list extended r13-14-0373
    permit ip any 10.194.141.0 0.0.0.255
ip access-list extended r13-15-0374
    permit ip any 10.194.142.0 0.0.0.255
ip access-list extended r13-16-0375
    permit ip any 10.194.143.0 0.0.0.255
ip access-list extended r13-17-0376
    permit ip any 10.194.144.0 0.0.0.255
ip access-list extended r13-18-0377
    permit ip any 10.194.145.0 0.0.0.255
ip access-list extended r13-19-0378
    permit ip any 10.194.146.0 0.0.0.255
ip access-list extended r13-2-0361
    permit ip any 10.194.129.0 0.0.0.255
ip access-list extended r13-20-0379
    permit ip any 10.194.147.0 0.0.0.255
ip access-list extended r13-21-0380
    permit ip any 10.194.148.0 0.0.0.255
ip access-list extended r13-22-0381
    permit ip any 10.194.149.0 0.0.0.255
ip access-list extended r13-23-0382
    permit ip any 10.194.150.0 0.0.0.255
ip access-list extended r13-24-0383
    permit ip any 10.194.151.0 0.0.0.255
ip access-list extended r13-25-0384
    permit ip any 10.194.152.0 0.0.0.255
ip access-list extended r13-26-0385
    permit ip any 10.194.153.0 0.0.0.255
ip access-list extended r13-27-0386
    permit ip any 10.194.154.0 0.0.0.255
ip access-list extended r13-28-0387
    permit ip any 10.194.155.0 0.0.0.255
ip access-list extended r13-29-0388
    permit ip any 10.194.156.0 0.0.0.255
ip access-list extended r13-3-0362
    permit ip any 10.194.130.0 0.0.0.255
ip access-list extended r13-30-0389
    permit ip any 10.194.157.0 0.0.0.255
ip access-list extended r13-4-0363
    permit ip any 10.194.131.0 0.0.0.255
ip access-list extended r13-5-0364
    permit ip any 10.194.132.0 0.0.0.255
ip access-list extended r13-6-0365
    permit ip any 10.194.133.0 0.0.0.255
ip access-list extended r13-7-0366
    permit ip any 10.194.134.0 0.0.0.255
ip access-list extended r13-8-0367
    permit ip any 10.194.135.0 0.0.0.255
ip access-list extended r13-9-0368
    permit ip any 10.194.136.0 0.0.0.255
ip access-list extended r14-1-0390
    permit ip any 10.194.160.0 0.0.0.255
ip access-list extended r14-10-0399
    permit ip any 10.194.169.0 0.0.0.255
ip access-list extended r14-11-0400
    permit ip any 10.194.170.0 0.0.0.255
ip access-list extended r14-12-0401
    permit ip any 10.194.171.0 0.0.0.255
ip access-list extended r14-13-0402
    permit ip any 10.194.172.0 0.0.0.255
ip access-list extended r14-14-0403
    permit ip any 10.194.173.0 0.0.0.255
ip access-list extended r14-15-0404

```

```

    permit ip any 10.194.174.0 0.0.0.255
ip access-list extended r14-16-0405
    permit ip any 10.194.175.0 0.0.0.255
ip access-list extended r14-17-0406
    permit ip any 10.194.176.0 0.0.0.255
ip access-list extended r14-18-0407
    permit ip any 10.194.177.0 0.0.0.255
ip access-list extended r14-19-0408
    permit ip any 10.194.178.0 0.0.0.255
ip access-list extended r14-2-0391
    permit ip any 10.194.161.0 0.0.0.255
ip access-list extended r14-20-0409
    permit ip any 10.194.179.0 0.0.0.255
ip access-list extended r14-21-0410
    permit ip any 10.194.180.0 0.0.0.255
ip access-list extended r14-22-0411
    permit ip any 10.194.181.0 0.0.0.255
ip access-list extended r14-23-0412
    permit ip any 10.194.182.0 0.0.0.255
ip access-list extended r14-24-0413
    permit ip any 10.194.183.0 0.0.0.255
ip access-list extended r14-25-0414
    permit ip any 10.194.184.0 0.0.0.255
ip access-list extended r14-26-0415
    permit ip any 10.194.185.0 0.0.0.255
ip access-list extended r14-27-0416
    permit ip any 10.194.186.0 0.0.0.255
ip access-list extended r14-28-0417
    permit ip any 10.194.187.0 0.0.0.255
ip access-list extended r14-29-0418
    permit ip any 10.194.188.0 0.0.0.255
ip access-list extended r14-3-0392
    permit ip any 10.194.162.0 0.0.0.255
ip access-list extended r14-30-0419
    permit ip any 10.194.189.0 0.0.0.255
ip access-list extended r14-4-0393
    permit ip any 10.194.163.0 0.0.0.255
ip access-list extended r14-5-0394
    permit ip any 10.194.164.0 0.0.0.255
ip access-list extended r14-6-0395
    permit ip any 10.194.165.0 0.0.0.255
ip access-list extended r14-7-0396
    permit ip any 10.194.166.0 0.0.0.255
ip access-list extended r14-8-0397
    permit ip any 10.194.167.0 0.0.0.255
ip access-list extended r14-9-0398
    permit ip any 10.194.168.0 0.0.0.255
ip access-list extended r17-1-0480
    permit ip any 10.195.32.0 0.0.0.255
ip access-list extended r17-10-0489
    permit ip any 10.195.41.0 0.0.0.255
ip access-list extended r17-11-0490
    permit ip any 10.195.42.0 0.0.0.255
ip access-list extended r17-12-0491
    permit ip any 10.195.43.0 0.0.0.255
ip access-list extended r17-13-0492
    permit ip any 10.195.44.0 0.0.0.255
ip access-list extended r17-14-0493
    permit ip any 10.195.45.0 0.0.0.255
ip access-list extended r17-15-0494
    permit ip any 10.195.46.0 0.0.0.255
ip access-list extended r17-16-0495
    permit ip any 10.195.47.0 0.0.0.255
ip access-list extended r17-17-0496

```

```

    permit ip any 10.195.48.0 0.0.0.255
ip access-list extended r17-18-0497
    permit ip any 10.195.49.0 0.0.0.255
ip access-list extended r17-19-0498
    permit ip any 10.195.50.0 0.0.0.255
ip access-list extended r17-2-0481
    permit ip any 10.195.33.0 0.0.0.255
ip access-list extended r17-20-0499
    permit ip any 10.195.51.0 0.0.0.255
ip access-list extended r17-21-0500
    permit ip any 10.195.52.0 0.0.0.255
ip access-list extended r17-22-0501
    permit ip any 10.195.53.0 0.0.0.255
ip access-list extended r17-23-0502
    permit ip any 10.195.54.0 0.0.0.255
ip access-list extended r17-24-0503
    permit ip any 10.195.55.0 0.0.0.255
ip access-list extended r17-25-0504
    permit ip any 10.195.56.0 0.0.0.255
ip access-list extended r17-26-0505
    permit ip any 10.195.57.0 0.0.0.255
ip access-list extended r17-27-0506
    permit ip any 10.195.58.0 0.0.0.255
ip access-list extended r17-28-0507
    permit ip any 10.195.59.0 0.0.0.255
ip access-list extended r17-29-0508
    permit ip any 10.195.60.0 0.0.0.255
ip access-list extended r17-3-0482
    permit ip any 10.195.34.0 0.0.0.255
ip access-list extended r17-30-0509
    permit ip any 10.195.61.0 0.0.0.255
ip access-list extended r17-4-0483
    permit ip any 10.195.35.0 0.0.0.255
ip access-list extended r17-5-0484
    permit ip any 10.195.36.0 0.0.0.255
ip access-list extended r17-6-0485
    permit ip any 10.195.37.0 0.0.0.255
ip access-list extended r17-7-0486
    permit ip any 10.195.38.0 0.0.0.255
ip access-list extended r17-8-0487
    permit ip any 10.195.39.0 0.0.0.255
ip access-list extended r17-9-0488
    permit ip any 10.195.40.0 0.0.0.255
ip access-list extended r18-1-0510
    permit ip any 10.195.64.0 0.0.0.255
ip access-list extended r18-10-0519
    permit ip any 10.195.73.0 0.0.0.255
ip access-list extended r18-11-0520
    permit ip any 10.195.74.0 0.0.0.255
ip access-list extended r18-12-0521
    permit ip any 10.195.75.0 0.0.0.255
ip access-list extended r18-13-0522
    permit ip any 10.195.76.0 0.0.0.255
ip access-list extended r18-14-0523
    permit ip any 10.195.77.0 0.0.0.255
ip access-list extended r18-15-0524
    permit ip any 10.195.78.0 0.0.0.255
ip access-list extended r18-16-0525
    permit ip any 10.195.79.0 0.0.0.255
ip access-list extended r18-17-0526
    permit ip any 10.195.80.0 0.0.0.255
ip access-list extended r18-18-0527
    permit ip any 10.195.81.0 0.0.0.255
ip access-list extended r18-19-0528

```

```

    permit ip any 10.195.82.0 0.0.0.255
ip access-list extended r18-2-0511
    permit ip any 10.195.65.0 0.0.0.255
ip access-list extended r18-20-0529
    permit ip any 10.195.83.0 0.0.0.255
ip access-list extended r18-21-0530
    permit ip any 10.195.84.0 0.0.0.255
ip access-list extended r18-22-0531
    permit ip any 10.195.85.0 0.0.0.255
ip access-list extended r18-23-0532
    permit ip any 10.195.86.0 0.0.0.255
ip access-list extended r18-24-0533
    permit ip any 10.195.87.0 0.0.0.255
ip access-list extended r18-25-0534
    permit ip any 10.195.88.0 0.0.0.255
ip access-list extended r18-26-0535
    permit ip any 10.195.89.0 0.0.0.255
ip access-list extended r18-27-0536
    permit ip any 10.195.90.0 0.0.0.255
ip access-list extended r18-28-0537
    permit ip any 10.195.91.0 0.0.0.255
ip access-list extended r18-29-0538
    permit ip any 10.195.92.0 0.0.0.255
ip access-list extended r18-3-0512
    permit ip any 10.195.66.0 0.0.0.255
ip access-list extended r18-30-0539
    permit ip any 10.195.93.0 0.0.0.255
ip access-list extended r18-4-0513
    permit ip any 10.195.67.0 0.0.0.255
ip access-list extended r18-5-0514
    permit ip any 10.195.68.0 0.0.0.255
ip access-list extended r18-6-0515
    permit ip any 10.195.69.0 0.0.0.255
ip access-list extended r18-7-0516
    permit ip any 10.195.70.0 0.0.0.255
ip access-list extended r18-8-0517
    permit ip any 10.195.71.0 0.0.0.255
ip access-list extended r18-9-0518
    permit ip any 10.195.72.0 0.0.0.255
ip access-list extended r19-1-0540
    permit ip any 10.196.0.0 0.0.0.255
ip access-list extended r19-10-0549
    permit ip any 10.196.9.0 0.0.0.255
ip access-list extended r19-11-0550
    permit ip any 10.196.10.0 0.0.0.255
ip access-list extended r19-12-0551
    permit ip any 10.196.11.0 0.0.0.255
ip access-list extended r19-13-0552
    permit ip any 10.196.12.0 0.0.0.255
ip access-list extended r19-14-0553
    permit ip any 10.196.13.0 0.0.0.255
ip access-list extended r19-15-0554
    permit ip any 10.196.14.0 0.0.0.255
ip access-list extended r19-16-0555
    permit ip any 10.196.15.0 0.0.0.255
ip access-list extended r19-17-0556
    permit ip any 10.196.16.0 0.0.0.255
ip access-list extended r19-18-0557
    permit ip any 10.196.17.0 0.0.0.255
ip access-list extended r19-19-0558
    permit ip any 10.196.18.0 0.0.0.255
ip access-list extended r19-2-0541
    permit ip any 10.196.1.0 0.0.0.255
ip access-list extended r19-20-0559

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```

    permit ip any 10.196.19.0 0.0.0.255
ip access-list extended r19-21-0560
    permit ip any 10.196.20.0 0.0.0.255
ip access-list extended r19-22-0561
    permit ip any 10.196.21.0 0.0.0.255
ip access-list extended r19-23-0562
    permit ip any 10.196.22.0 0.0.0.255
ip access-list extended r19-24-0563
    permit ip any 10.196.23.0 0.0.0.255
ip access-list extended r19-25-0564
    permit ip any 10.196.24.0 0.0.0.255
ip access-list extended r19-26-0565
    permit ip any 10.196.25.0 0.0.0.255
ip access-list extended r19-27-0566
    permit ip any 10.196.26.0 0.0.0.255
ip access-list extended r19-28-0567
    permit ip any 10.196.27.0 0.0.0.255
ip access-list extended r19-29-0568
    permit ip any 10.196.28.0 0.0.0.255
ip access-list extended r19-3-0542
    permit ip any 10.196.2.0 0.0.0.255
ip access-list extended r19-30-0569
    permit ip any 10.196.29.0 0.0.0.255
ip access-list extended r19-4-0543
    permit ip any 10.196.3.0 0.0.0.255
ip access-list extended r19-5-0544
    permit ip any 10.196.4.0 0.0.0.255
ip access-list extended r19-6-0545
    permit ip any 10.196.5.0 0.0.0.255
ip access-list extended r19-7-0546
    permit ip any 10.196.6.0 0.0.0.255
ip access-list extended r19-8-0547
    permit ip any 10.196.7.0 0.0.0.255
ip access-list extended r19-9-0548
    permit ip any 10.196.8.0 0.0.0.255
ip access-list extended r21-1-0600
    permit ip any 10.196.64.0 0.0.0.255
ip access-list extended r21-10-0609
    permit ip any 10.196.73.0 0.0.0.255
ip access-list extended r21-11-0610
    permit ip any 10.196.74.0 0.0.0.255
ip access-list extended r21-12-0611
    permit ip any 10.196.75.0 0.0.0.255
ip access-list extended r21-13-0612
    permit ip any 10.196.76.0 0.0.0.255
ip access-list extended r21-14-0613
    permit ip any 10.196.77.0 0.0.0.255
ip access-list extended r21-15-0614
    permit ip any 10.196.78.0 0.0.0.255
ip access-list extended r21-16-0615
    permit ip any 10.196.79.0 0.0.0.255
ip access-list extended r21-17-0616
    permit ip any 10.196.80.0 0.0.0.255
ip access-list extended r21-18-0617
    permit ip any 10.196.81.0 0.0.0.255
ip access-list extended r21-19-0618
    permit ip any 10.196.82.0 0.0.0.255
ip access-list extended r21-2-0601
    permit ip any 10.196.65.0 0.0.0.255
ip access-list extended r21-20-0619
    permit ip any 10.196.83.0 0.0.0.255
ip access-list extended r21-21-0620
    permit ip any 10.196.84.0 0.0.0.255
ip access-list extended r21-22-0621

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    permit ip any 10.196.85.0 0.0.0.255
ip access-list extended r21-23-0622
    permit ip any 10.196.86.0 0.0.0.255
ip access-list extended r21-24-0623
    permit ip any 10.196.87.0 0.0.0.255
ip access-list extended r21-25-0624
    permit ip any 10.196.88.0 0.0.0.255
ip access-list extended r21-26-0625
    permit ip any 10.196.89.0 0.0.0.255
ip access-list extended r21-27-0626
    permit ip any 10.196.90.0 0.0.0.255
ip access-list extended r21-28-0627
    permit ip any 10.196.91.0 0.0.0.255
ip access-list extended r21-29-0628
    permit ip any 10.196.92.0 0.0.0.255
ip access-list extended r21-3-0602
    permit ip any 10.196.66.0 0.0.0.255
ip access-list extended r21-30-0629
    permit ip any 10.196.93.0 0.0.0.255
ip access-list extended r21-4-0603
    permit ip any 10.196.67.0 0.0.0.255
ip access-list extended r21-5-0604
    permit ip any 10.196.68.0 0.0.0.255
ip access-list extended r21-6-0605
    permit ip any 10.196.69.0 0.0.0.255
ip access-list extended r21-7-0606
    permit ip any 10.196.70.0 0.0.0.255
ip access-list extended r21-8-0607
    permit ip any 10.196.71.0 0.0.0.255
ip access-list extended r21-9-0608
    permit ip any 10.196.72.0 0.0.0.255
ip access-list extended r22-1-0630
    permit ip any 10.196.128.0 0.0.0.255
ip access-list extended r22-10-0639
    permit ip any 10.196.137.0 0.0.0.255
ip access-list extended r22-11-0640
    permit ip any 10.196.138.0 0.0.0.255
ip access-list extended r22-12-0641
    permit ip any 10.196.139.0 0.0.0.255
ip access-list extended r22-13-0642
    permit ip any 10.196.140.0 0.0.0.255
ip access-list extended r22-14-0643
    permit ip any 10.196.141.0 0.0.0.255
ip access-list extended r22-15-0644
    permit ip any 10.196.142.0 0.0.0.255
ip access-list extended r22-16-0645
    permit ip any 10.196.143.0 0.0.0.255
ip access-list extended r22-17-0646
    permit ip any 10.196.144.0 0.0.0.255
ip access-list extended r22-18-0647
    permit ip any 10.196.145.0 0.0.0.255
ip access-list extended r22-19-0648
    permit ip any 10.196.146.0 0.0.0.255
ip access-list extended r22-2-0631
    permit ip any 10.196.129.0 0.0.0.255
ip access-list extended r22-20-0649
    permit ip any 10.196.147.0 0.0.0.255
ip access-list extended r22-21-0650
    permit ip any 10.196.148.0 0.0.0.255
ip access-list extended r22-22-0651
    permit ip any 10.196.149.0 0.0.0.255
ip access-list extended r22-23-0652
    permit ip any 10.196.150.0 0.0.0.255
ip access-list extended r22-24-0653

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    permit ip any 10.196.151.0 0.0.0.255
ip access-list extended r22-25-0654
    permit ip any 10.196.152.0 0.0.0.255
ip access-list extended r22-26-0655
    permit ip any 10.196.153.0 0.0.0.255
ip access-list extended r22-27-0656
    permit ip any 10.196.154.0 0.0.0.255
ip access-list extended r22-28-0657
    permit ip any 10.196.155.0 0.0.0.255
ip access-list extended r22-29-0658
    permit ip any 10.196.156.0 0.0.0.255
ip access-list extended r22-3-0632
    permit ip any 10.196.130.0 0.0.0.255
ip access-list extended r22-30-0659
    permit ip any 10.196.157.0 0.0.0.255
ip access-list extended r22-4-0633
    permit ip any 10.196.131.0 0.0.0.255
ip access-list extended r22-5-0634
    permit ip any 10.196.132.0 0.0.0.255
ip access-list extended r22-6-0635
    permit ip any 10.196.133.0 0.0.0.255
ip access-list extended r22-7-0636
    permit ip any 10.196.134.0 0.0.0.255
ip access-list extended r22-8-0637
    permit ip any 10.196.135.0 0.0.0.255
ip access-list extended r22-9-0638
    permit ip any 10.196.136.0 0.0.0.255
ip access-list extended r23-1-0660
    permit ip any 10.196.160.0 0.0.0.255
ip access-list extended r23-10-0669
    permit ip any 10.196.169.0 0.0.0.255
ip access-list extended r23-11-0670
    permit ip any 10.196.170.0 0.0.0.255
ip access-list extended r23-12-0671
    permit ip any 10.196.171.0 0.0.0.255
ip access-list extended r23-13-0672
    permit ip any 10.196.172.0 0.0.0.255
ip access-list extended r23-14-0673
    permit ip any 10.196.173.0 0.0.0.255
ip access-list extended r23-15-0674
    permit ip any 10.196.174.0 0.0.0.255
ip access-list extended r23-16-0675
    permit ip any 10.196.175.0 0.0.0.255
ip access-list extended r23-17-0676
    permit ip any 10.196.176.0 0.0.0.255
ip access-list extended r23-18-0677
    permit ip any 10.196.177.0 0.0.0.255
ip access-list extended r23-19-0678
    permit ip any 10.196.178.0 0.0.0.255
ip access-list extended r23-2-0661
    permit ip any 10.196.161.0 0.0.0.255
ip access-list extended r23-20-0679
    permit ip any 10.196.179.0 0.0.0.255
ip access-list extended r23-21-0680
    permit ip any 10.196.180.0 0.0.0.255
ip access-list extended r23-22-0681
    permit ip any 10.196.181.0 0.0.0.255
ip access-list extended r23-23-0682
    permit ip any 10.196.182.0 0.0.0.255
ip access-list extended r23-24-0683
    permit ip any 10.196.183.0 0.0.0.255
ip access-list extended r23-25-0684
    permit ip any 10.196.184.0 0.0.0.255
ip access-list extended r23-26-0685

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```
permit ip any 10.196.185.0 0.0.0.255
ip access-list extended r23-27-0686
  permit ip any 10.196.186.0 0.0.0.255
ip access-list extended r23-28-0687
  permit ip any 10.196.187.0 0.0.0.255
ip access-list extended r23-29-0688
  permit ip any 10.196.188.0 0.0.0.255
ip access-list extended r23-3-0662
  permit ip any 10.196.162.0 0.0.0.255
ip access-list extended r23-30-0689
  permit ip any 10.196.189.0 0.0.0.255
ip access-list extended r23-4-0663
  permit ip any 10.196.163.0 0.0.0.255
ip access-list extended r23-5-0664
  permit ip any 10.196.164.0 0.0.0.255
ip access-list extended r23-6-0665
  permit ip any 10.196.165.0 0.0.0.255
ip access-list extended r23-7-0666
  permit ip any 10.196.166.0 0.0.0.255
ip access-list extended r23-8-0667
  permit ip any 10.196.167.0 0.0.0.255
ip access-list extended r23-9-0668
  permit ip any 10.196.168.0 0.0.0.255
ip access-list extended r24-1-0690
  permit ip any 10.196.192.0 0.0.0.255
ip access-list extended r24-10-0699
  permit ip any 10.196.201.0 0.0.0.255
ip access-list extended r24-11-0700
  permit ip any 10.196.202.0 0.0.0.255
ip access-list extended r24-12-0701
  permit ip any 10.196.203.0 0.0.0.255
ip access-list extended r24-13-0702
  permit ip any 10.196.204.0 0.0.0.255
ip access-list extended r24-14-0703
  permit ip any 10.196.205.0 0.0.0.255
ip access-list extended r24-15-0704
  permit ip any 10.196.206.0 0.0.0.255
ip access-list extended r24-16-0705
  permit ip any 10.196.207.0 0.0.0.255
ip access-list extended r24-17-0706
  permit ip any 10.196.208.0 0.0.0.255
ip access-list extended r24-18-0707
  permit ip any 10.196.209.0 0.0.0.255
ip access-list extended r24-19-0708
  permit ip any 10.196.210.0 0.0.0.255
ip access-list extended r24-2-0691
  permit ip any 10.196.193.0 0.0.0.255
ip access-list extended r24-20-0709
  permit ip any 10.196.211.0 0.0.0.255
ip access-list extended r24-21-0710
  permit ip any 10.196.212.0 0.0.0.255
ip access-list extended r24-22-0711
  permit ip any 10.196.213.0 0.0.0.255
ip access-list extended r24-23-0712
  permit ip any 10.196.214.0 0.0.0.255
ip access-list extended r24-24-0713
  permit ip any 10.196.215.0 0.0.0.255
ip access-list extended r24-25-0714
  permit ip any 10.196.216.0 0.0.0.255
ip access-list extended r24-26-0715
  permit ip any 10.196.217.0 0.0.0.255
ip access-list extended r24-27-0716
  permit ip any 10.196.218.0 0.0.0.255
ip access-list extended r24-28-0717
```

```

    permit ip any 10.196.219.0 0.0.0.255
ip access-list extended r24-29-0718
    permit ip any 10.196.220.0 0.0.0.255
ip access-list extended r24-3-0692
    permit ip any 10.196.194.0 0.0.0.255
ip access-list extended r24-30-0719
    permit ip any 10.196.221.0 0.0.0.255
ip access-list extended r24-4-0693
    permit ip any 10.196.195.0 0.0.0.255
ip access-list extended r24-5-0694
    permit ip any 10.196.196.0 0.0.0.255
ip access-list extended r24-6-0695
    permit ip any 10.196.197.0 0.0.0.255
ip access-list extended r24-7-0696
    permit ip any 10.196.198.0 0.0.0.255
ip access-list extended r24-8-0697
    permit ip any 10.196.199.0 0.0.0.255
ip access-list extended r24-9-0698
    permit ip any 10.196.200.0 0.0.0.255
ip access-list extended r25-1-0720
    permit ip any 10.197.0.0 0.0.0.255
ip access-list extended r25-10-0729
    permit ip any 10.197.9.0 0.0.0.255
ip access-list extended r25-11-0730
    permit ip any 10.197.10.0 0.0.0.255
ip access-list extended r25-12-0731
    permit ip any 10.197.11.0 0.0.0.255
ip access-list extended r25-13-0732
    permit ip any 10.197.12.0 0.0.0.255
ip access-list extended r25-14-0733
    permit ip any 10.197.13.0 0.0.0.255
ip access-list extended r25-15-0734
    permit ip any 10.197.14.0 0.0.0.255
ip access-list extended r25-16-0735
    permit ip any 10.197.15.0 0.0.0.255
ip access-list extended r25-17-0736
    permit ip any 10.197.16.0 0.0.0.255
ip access-list extended r25-18-0737
    permit ip any 10.197.17.0 0.0.0.255
ip access-list extended r25-19-0738
    permit ip any 10.197.18.0 0.0.0.255
ip access-list extended r25-2-0721
    permit ip any 10.197.1.0 0.0.0.255
ip access-list extended r25-20-0739
    permit ip any 10.197.19.0 0.0.0.255
ip access-list extended r25-21-0740
    permit ip any 10.197.20.0 0.0.0.255
ip access-list extended r25-22-0741
    permit ip any 10.197.21.0 0.0.0.255
ip access-list extended r25-23-0742
    permit ip any 10.197.22.0 0.0.0.255
ip access-list extended r25-24-0743
    permit ip any 10.197.23.0 0.0.0.255
ip access-list extended r25-25-0744
    permit ip any 10.197.24.0 0.0.0.255
ip access-list extended r25-26-0745
    permit ip any 10.197.25.0 0.0.0.255
ip access-list extended r25-27-0746
    permit ip any 10.197.26.0 0.0.0.255
ip access-list extended r25-28-0747
    permit ip any 10.197.27.0 0.0.0.255
ip access-list extended r25-29-0748
    permit ip any 10.197.28.0 0.0.0.255
ip access-list extended r25-3-0722

```

```
permit ip any 10.197.2.0 0.0.0.255
ip access-list extended r25-30-0749
  permit ip any 10.197.29.0 0.0.0.255
ip access-list extended r25-4-0723
  permit ip any 10.197.3.0 0.0.0.255
ip access-list extended r25-5-0724
  permit ip any 10.197.4.0 0.0.0.255
ip access-list extended r25-6-0725
  permit ip any 10.197.5.0 0.0.0.255
ip access-list extended r25-7-0726
  permit ip any 10.197.6.0 0.0.0.255
ip access-list extended r25-8-0727
  permit ip any 10.197.7.0 0.0.0.255
ip access-list extended r25-9-0728
  permit ip any 10.197.8.0 0.0.0.255
ip access-list extended r26-1-0750
  permit ip any 10.197.32.0 0.0.0.255
ip access-list extended r26-10-0759
  permit ip any 10.197.41.0 0.0.0.255
ip access-list extended r26-11-0760
  permit ip any 10.197.42.0 0.0.0.255
ip access-list extended r26-12-0761
  permit ip any 10.197.43.0 0.0.0.255
ip access-list extended r26-13-0762
  permit ip any 10.197.44.0 0.0.0.255
ip access-list extended r26-14-0763
  permit ip any 10.197.45.0 0.0.0.255
ip access-list extended r26-15-0764
  permit ip any 10.197.46.0 0.0.0.255
ip access-list extended r26-17-0766
  permit ip any 10.197.48.0 0.0.0.255
ip access-list extended r26-18-0767
  permit ip any 10.197.49.0 0.0.0.255
ip access-list extended r26-19-0768
  permit ip any 10.197.50.0 0.0.0.255
ip access-list extended r26-2-0751
  permit ip any 10.197.33.0 0.0.0.255
ip access-list extended r26-20-0769
  permit ip any 10.197.51.0 0.0.0.255
ip access-list extended r26-21-0770
  permit ip any 10.197.52.0 0.0.0.255
ip access-list extended r26-22-0771
  permit ip any 10.197.53.0 0.0.0.255
ip access-list extended r26-23-0772
  permit ip any 10.197.54.0 0.0.0.255
ip access-list extended r26-24-0773
  permit ip any 10.197.55.0 0.0.0.255
ip access-list extended r26-25-0774
  permit ip any 10.197.56.0 0.0.0.255
ip access-list extended r26-26-0775
  permit ip any 10.197.57.0 0.0.0.255
ip access-list extended r26-27-0776
  permit ip any 10.197.58.0 0.0.0.255
ip access-list extended r26-28-0777
  permit ip any 10.197.59.0 0.0.0.255
ip access-list extended r26-29-0778
  permit ip any 10.197.60.0 0.0.0.255
ip access-list extended r26-3-0752
  permit ip any 10.197.34.0 0.0.0.255
ip access-list extended r26-30-0779
  permit ip any 10.197.61.0 0.0.0.255
ip access-list extended r26-4-0753
  permit ip any 10.197.35.0 0.0.0.255
ip access-list extended r26-5-0754
```

```

    permit ip any 10.197.36.0 0.0.0.255
ip access-list extended r26-6-0755
    permit ip any 10.197.37.0 0.0.0.255
ip access-list extended r26-7-0756
    permit ip any 10.197.38.0 0.0.0.255
ip access-list extended r26-8-0757
    permit ip any 10.197.39.0 0.0.0.255
ip access-list extended r26-9-0758
    permit ip any 10.197.40.0 0.0.0.255
ip access-list extended r27-1-0780
    permit ip any 10.197.64.0 0.0.0.255
ip access-list extended r27-10-0789
    permit ip any 10.197.73.0 0.0.0.255
ip access-list extended r27-11-0790
    permit ip any 10.197.74.0 0.0.0.255
ip access-list extended r27-12-0791
    permit ip any 10.197.75.0 0.0.0.255
ip access-list extended r27-13-0792
    permit ip any 10.197.76.0 0.0.0.255
ip access-list extended r27-14-0793
    permit ip any 10.197.77.0 0.0.0.255
ip access-list extended r27-15-0794
    permit ip any 10.197.78.0 0.0.0.255
ip access-list extended r27-16-0795
    permit ip any 10.197.79.0 0.0.0.255
ip access-list extended r27-17-0796
    permit ip any 10.197.80.0 0.0.0.255
ip access-list extended r27-18-0797
    permit ip any 10.197.81.0 0.0.0.255
ip access-list extended r27-19-0798
    permit ip any 10.197.82.0 0.0.0.255
ip access-list extended r27-2-0781
    permit ip any 10.197.65.0 0.0.0.255
ip access-list extended r27-20-0799
    permit ip any 10.197.83.0 0.0.0.255
ip access-list extended r27-21-0800
    permit ip any 10.197.84.0 0.0.0.255
ip access-list extended r27-22-0801
    permit ip any 10.197.85.0 0.0.0.255
ip access-list extended r27-23-0802
    permit ip any 10.197.86.0 0.0.0.255
ip access-list extended r27-24-0803
    permit ip any 10.197.87.0 0.0.0.255
ip access-list extended r27-25-0804
    permit ip any 10.197.88.0 0.0.0.255
ip access-list extended r27-26-0805
    permit ip any 10.197.89.0 0.0.0.255
ip access-list extended r27-27-0806
    permit ip any 10.197.90.0 0.0.0.255
ip access-list extended r27-28-0807
    permit ip any 10.197.91.0 0.0.0.255
ip access-list extended r27-29-0808
    permit ip any 10.197.92.0 0.0.0.255
ip access-list extended r27-3-0782
    permit ip any 10.197.66.0 0.0.0.255
ip access-list extended r27-30-0809
    permit ip any 10.197.93.0 0.0.0.255
ip access-list extended r27-4-0783
    permit ip any 10.197.67.0 0.0.0.255
ip access-list extended r27-5-0784
    permit ip any 10.197.68.0 0.0.0.255
ip access-list extended r27-6-0785
    permit ip any 10.197.69.0 0.0.0.255
ip access-list extended r27-7-0786

```

```
permit ip any 10.197.70.0 0.0.0.255
ip access-list extended r27-8-0787
  permit ip any 10.197.71.0 0.0.0.255
ip access-list extended r27-9-0788
  permit ip any 10.197.72.0 0.0.0.255
ip access-list extended r28-1-0810
  permit ip any 10.198.0.0 0.0.0.255
ip access-list extended r28-10-0819
  permit ip any 10.198.9.0 0.0.0.255
ip access-list extended r28-11-0820
  permit ip any 10.198.10.0 0.0.0.255
ip access-list extended r28-12-0821
  permit ip any 10.198.11.0 0.0.0.255
ip access-list extended r28-13-0822
  permit ip any 10.198.12.0 0.0.0.255
ip access-list extended r28-14-0823
  permit ip any 10.198.13.0 0.0.0.255
ip access-list extended r28-15-0824
  permit ip any 10.198.14.0 0.0.0.255
ip access-list extended r28-16-0825
  permit ip any 10.198.15.0 0.0.0.255
ip access-list extended r28-17-0826
  permit ip any 10.198.16.0 0.0.0.255
ip access-list extended r28-18-0827
  permit ip any 10.198.17.0 0.0.0.255
ip access-list extended r28-2-0811
  permit ip any 10.198.1.0 0.0.0.255
ip access-list extended r28-20-0829
  permit ip any 10.198.19.0 0.0.0.255
ip access-list extended r28-21-0830
  permit ip any 10.198.20.0 0.0.0.255
ip access-list extended r28-22-0831
  permit ip any 10.198.21.0 0.0.0.255
ip access-list extended r28-23-0832
  permit ip any 10.198.22.0 0.0.0.255
ip access-list extended r28-24-0833
  permit ip any 10.198.23.0 0.0.0.255
ip access-list extended r28-26-0835
  permit ip any 10.198.25.0 0.0.0.255
ip access-list extended r28-27-0836
  permit ip any 10.198.26.0 0.0.0.255
ip access-list extended r28-29-0838
  permit ip any 10.198.28.0 0.0.0.255
ip access-list extended r28-3-0812
  permit ip any 10.198.2.0 0.0.0.255
ip access-list extended r28-30-0839
  permit ip any 10.198.29.0 0.0.0.255
ip access-list extended r28-5-0814
  permit ip any 10.198.4.0 0.0.0.255
ip access-list extended r28-6-0815
  permit ip any 10.198.5.0 0.0.0.255
ip access-list extended r28-7-0816
  permit ip any 10.198.6.0 0.0.0.255
ip access-list extended r28-8-0817
  permit ip any 10.198.7.0 0.0.0.255
ip access-list extended r28-9-0818
  permit ip any 10.198.8.0 0.0.0.255
ip access-list extended r29-1-0840
  permit ip any 10.198.32.0 0.0.0.255
ip access-list extended r29-10-0849
  permit ip any 10.198.41.0 0.0.0.255
ip access-list extended r29-11-0850
  permit ip any 10.198.42.0 0.0.0.255
ip access-list extended r29-12-0851
```

```

    permit ip any 10.198.43.0 0.0.0.255
ip access-list extended r29-13-0852
    permit ip any 10.198.44.0 0.0.0.255
ip access-list extended r29-14-0853
    permit ip any 10.198.45.0 0.0.0.255
ip access-list extended r29-15-0854
    permit ip any 10.198.46.0 0.0.0.255
ip access-list extended r29-16-0855
    permit ip any 10.198.47.0 0.0.0.255
ip access-list extended r29-17-0856
    permit ip any 10.198.48.0 0.0.0.255
ip access-list extended r29-18-0857
    permit ip any 10.198.49.0 0.0.0.255
ip access-list extended r29-19-0858
    permit ip any 10.198.50.0 0.0.0.255
ip access-list extended r29-2-0841
    permit ip any 10.198.33.0 0.0.0.255
ip access-list extended r29-20-0859
    permit ip any 10.198.51.0 0.0.0.255
ip access-list extended r29-21-0860
    permit ip any 10.198.52.0 0.0.0.255
ip access-list extended r29-22-0861
    permit ip any 10.198.53.0 0.0.0.255
ip access-list extended r29-23-0862
    permit ip any 10.198.54.0 0.0.0.255
ip access-list extended r29-24-0863
    permit ip any 10.198.55.0 0.0.0.255
ip access-list extended r29-25-0864
    permit ip any 10.198.56.0 0.0.0.255
ip access-list extended r29-26-0865
    permit ip any 10.198.57.0 0.0.0.255
ip access-list extended r29-27-0866
    permit ip any 10.198.58.0 0.0.0.255
ip access-list extended r29-28-0867
    permit ip any 10.198.59.0 0.0.0.255
ip access-list extended r29-29-0868
    permit ip any 10.198.60.0 0.0.0.255
ip access-list extended r29-3-0842
    permit ip any 10.198.34.0 0.0.0.255
ip access-list extended r29-30-0869
    permit ip any 10.198.61.0 0.0.0.255
ip access-list extended r29-4-0843
    permit ip any 10.198.35.0 0.0.0.255
ip access-list extended r29-5-0844
    permit ip any 10.198.36.0 0.0.0.255
ip access-list extended r29-6-0845
    permit ip any 10.198.37.0 0.0.0.255
ip access-list extended r29-7-0846
    permit ip any 10.198.38.0 0.0.0.255
ip access-list extended r29-8-0847
    permit ip any 10.198.39.0 0.0.0.255
ip access-list extended r29-9-0848
    permit ip any 10.198.40.0 0.0.0.255
ip access-list extended r3-1-0060
    permit ip any 10.192.64.0 0.0.0.255
ip access-list extended r3-10-0069
    permit ip any 10.192.73.0 0.0.0.255
ip access-list extended r3-11-0070
    permit ip any 10.192.74.0 0.0.0.255
ip access-list extended r3-12-0071
    permit ip any 10.192.75.0 0.0.0.255
ip access-list extended r3-2-0061
    permit ip any 10.192.65.0 0.0.0.255
ip access-list extended r3-3-0062

```

```
permit ip any 10.192.66.0 0.0.0.255
ip access-list extended r3-4-0063
  permit ip any 10.192.67.0 0.0.0.255
ip access-list extended r3-5-0064
  permit ip any 10.192.68.0 0.0.0.255
ip access-list extended r3-6-0065
  permit ip any 10.192.69.0 0.0.0.255
ip access-list extended r3-7-0066
  permit ip any 10.192.70.0 0.0.0.255
ip access-list extended r3-8-0067
  permit ip any 10.192.71.0 0.0.0.255
ip access-list extended r3-9-0068
  permit ip any 10.192.72.0 0.0.0.255
ip access-list extended r30-1-0870
  permit ip any 10.198.64.0 0.0.0.255
ip access-list extended r30-10-0879
  permit ip any 10.198.73.0 0.0.0.255
ip access-list extended r30-11-0880
  permit ip any 10.198.74.0 0.0.0.255
ip access-list extended r30-12-0881
  permit ip any 10.198.75.0 0.0.0.255
ip access-list extended r30-13-0882
  permit ip any 10.198.76.0 0.0.0.255
ip access-list extended r30-14-0883
  permit ip any 10.198.77.0 0.0.0.255
ip access-list extended r30-15-0884
  permit ip any 10.198.78.0 0.0.0.255
ip access-list extended r30-2-0871
  permit ip any 10.198.65.0 0.0.0.255
ip access-list extended r30-3-0872
  permit ip any 10.198.66.0 0.0.0.255
ip access-list extended r30-4-0873
  permit ip any 10.198.67.0 0.0.0.255
ip access-list extended r30-5-0874
  permit ip any 10.198.68.0 0.0.0.255
ip access-list extended r30-6-0875
  permit ip any 10.198.69.0 0.0.0.255
ip access-list extended r30-7-0876
  permit ip any 10.198.70.0 0.0.0.255
ip access-list extended r30-8-0877
  permit ip any 10.198.71.0 0.0.0.255
ip access-list extended r30-9-0878
  permit ip any 10.198.72.0 0.0.0.255
ip access-list extended r4-10-0099
  permit ip any 10.192.137.0 0.0.0.255
ip access-list extended r4-11-0100
  permit ip any 10.192.138.0 0.0.0.255
ip access-list extended r4-12-0101
  permit ip any 10.192.139.0 0.0.0.255
ip access-list extended r4-13-0102
  permit ip any 10.192.140.0 0.0.0.255
ip access-list extended r4-14-0103
  permit ip any 10.192.141.0 0.0.0.255
ip access-list extended r4-15-0104
  permit ip any 10.192.142.0 0.0.0.255
ip access-list extended r4-16-0105
  permit ip any 10.192.143.0 0.0.0.255
ip access-list extended r4-17-0106
  permit ip any 10.192.144.0 0.0.0.255
ip access-list extended r4-18-0107
  permit ip any 10.192.145.0 0.0.0.255
ip access-list extended r4-19-0108
  permit ip any 10.192.146.0 0.0.0.255
ip access-list extended r4-20-0109
```



```

    permit ip any 10.192.147.0 0.0.0.255
ip access-list extended r4-21-0110
    permit ip any 10.192.148.0 0.0.0.255
ip access-list extended r4-22-0111
    permit ip any 10.192.149.0 0.0.0.255
ip access-list extended r4-23-0112
    permit ip any 10.192.150.0 0.0.0.255
ip access-list extended r4-24-0113
    permit ip any 10.192.151.0 0.0.0.255
ip access-list extended r4-25-0114
    permit ip any 10.192.152.0 0.0.0.255
ip access-list extended r4-26-0115
    permit ip any 10.192.153.0 0.0.0.255
ip access-list extended r4-27-0116
    permit ip any 10.192.154.0 0.0.0.255
ip access-list extended r4-28-0117
    permit ip any 10.192.155.0 0.0.0.255
ip access-list extended r4-29-0118
    permit ip any 10.192.156.0 0.0.0.255
ip access-list extended r4-30-0119
    permit ip any 10.192.157.0 0.0.0.255
ip access-list extended r4-7-0096
    permit ip any 10.192.134.0 0.0.0.255
ip access-list extended r4-8-0097
    permit ip any 10.192.135.0 0.0.0.255
ip access-list extended r4-9-0098
    permit ip any 10.192.136.0 0.0.0.255
!
logging trap warnings
logging host <CS-MARS-IP> vrf Mgmt-intf
logging <CS-MARS-IP>
access-list 10 remark Last Resort Host
access-list 10 permit <NOC-Host>
access-list 20 remark NTP Peers
access-list 20 permit <NTP-Peer>
access-list 21 remark NTP Clients
access-list 21 permit 10.200.0.0 0.0.255.255
access-list 21 permit 10.201.0.0 0.0.255.255
access-list 55 remark ACL for SNMP Access
access-list 55 permit <CS-MARS-IP>
access-list 55 deny any log
access-list 101 remark Branch Dest
access-list 101 permit ip any 10.201.0.0 0.0.255.255
access-list 101 permit ip any 10.200.0.0 0.0.255.255
access-list 101 deny ip any any
access-list 102 remark Branch Source
access-list 102 permit ip 10.201.0.0 0.0.255.255 any
access-list 102 permit ip 10.200.0.0 0.0.255.255 any
access-list 102 deny ip any any
access-list 111 remark SSH Access
access-list 111 permit tcp <OOB-net> <inverse-mask> any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL for last resort access
access-list 112 permit tcp host <NOC-Host> any eq 22
access-list 112 deny ip any any log-input
access-list 120 remark SP WAN Edge ACL - MPLS B
access-list 120 remark deny Fragments
access-list 120 deny tcp any any log fragments
access-list 120 deny udp any any log fragments
access-list 120 deny icmp any any log fragments
access-list 120 remark deny Incoming with Source=Internal
access-list 120 deny ip 10.0.0.0 0.255.255.255 any
access-list 120 remark deny RFC 3330 Special-Use Addresses
access-list 120 deny ip host 0.0.0.0 any

```

```

access-list 120 deny ip 127.0.0.0 0.255.255.255 any
access-list 120 deny ip 192.0.2.0 0.0.0.255 any
access-list 120 deny ip 224.0.0.0 31.255.255.255 any
access-list 120 remark deny RFC 1918 Reserved Addresses
access-list 120 remark 10.0.0.0/8 and 192.168.0.0/16 omitted as being used in te
stbed
access-list 120 deny ip 172.16.0.0 0.15.255.255 any
access-list 120 remark permit Incoming EIGRP from SP Neighbors
access-list 120 permit eigrp host 192.168.188.21 host 224.0.0.10
access-list 120 permit eigrp host 192.168.188.21 host 192.168.188.22
access-list 120 remark permit DMVPN with Branches
access-list 120 permit udp any host 192.168.34.1 eq isakmp
access-list 120 permit esp any host 192.168.34.1
access-list 120 remark permit Ping & Traceroute
access-list 120 permit icmp any host 192.168.188.22 ttl-exceeded
access-list 120 permit icmp any host 192.168.188.22 port-unreachable
access-list 120 permit icmp any host 192.168.188.22 echo-reply
access-list 120 permit icmp any host 192.168.188.22 echo
access-list 120 permit icmp any host 192.168.34.1 ttl-exceeded
access-list 120 permit icmp any host 192.168.34.1 port-unreachable
access-list 120 permit icmp any host 192.168.34.1 echo-reply
access-list 120 permit icmp any host 192.168.34.1 echo
access-list 120 permit tcp host 192.168.188.34 eq 12345 host 192.168.188.22
access-list 120 deny ip any any
access-list 121 remark SP WAN Edge ACL - MPLS A
access-list 121 remark deny Fragments
access-list 121 deny tcp any any log fragments
access-list 121 deny udp any any log fragments
access-list 121 deny icmp any any log fragments
access-list 121 remark deny Incoming with Source=Internal
access-list 121 deny ip 10.0.0.0 0.255.255.255 any
access-list 121 remark deny RFC 3330 Special-Use Addresses
access-list 121 deny ip host 0.0.0.0 any
access-list 121 deny ip 127.0.0.0 0.255.255.255 any
access-list 121 deny ip 192.0.2.0 0.0.0.255 any
access-list 121 deny ip 224.0.0.0 31.255.255.255 any
access-list 121 remark deny RFC 1918 Reserved Addresses
access-list 121 remark 10.0.0.0/8 and 192.168.0.0/16 omitted as being used in te
stbed
access-list 121 deny ip 172.16.0.0 0.15.255.255 any
access-list 121 remark permit Incoming EIGRP from SP Neighbors
access-list 121 permit eigrp host 192.168.160.121 host 224.0.0.10
access-list 121 permit eigrp host 192.168.160.121 host 192.168.160.122
access-list 121 remark permit DMVPN with Branches
access-list 121 permit udp any host 192.168.34.1 eq isakmp
access-list 121 permit esp any host 192.168.34.1
access-list 121 remark permit Ping & Traceroute
access-list 121 permit icmp any host 192.168.160.122 ttl-exceeded
access-list 121 permit icmp any host 192.168.160.122 port-unreachable
access-list 121 permit icmp any host 192.168.160.122 echo-reply
access-list 121 permit icmp any host 192.168.160.122 echo
access-list 121 permit icmp any host 192.168.34.1 ttl-exceeded
access-list 121 permit icmp any host 192.168.34.1 port-unreachable
access-list 121 permit icmp any host 192.168.34.1 echo-reply
access-list 121 permit icmp any host 192.168.34.1 echo
access-list 121 deny ip any any
access-list 133 remark OOB Mgmt Filtering In
access-list 133 permit icmp <OOB-net> <inverse-mask> host <OOB-IP> ttl-exceeded
access-list 133 permit icmp <OOB-net> <inverse-mask> host <OOB-IP> port-unreachable
access-list 133 permit icmp <OOB-net> <inverse-mask> host <OOB-IP> echo-reply
access-list 133 permit icmp <OOB-net> <inverse-mask> host <OOB-IP> echo
access-list 133 remark permit TAC+
access-list 133 permit tcp <OOB-net> <inverse-mask> eq tacacs host <OOB-IP> established
access-list 133 permit tcp <OOB-net> <inverse-mask> host <OOB-IP> eq tacacs

```

```

access-list 133 remark permit NTP
access-list 133 permit udp <OOB-net> <inverse-mask> host <OOB-IP> eq ntp
access-list 133 remark permit SSH
access-list 133 permit tcp <OOB-net> <inverse-mask> host <OOB-IP> eq 22
access-list 133 remark permit FTP
access-list 133 permit tcp <OOB-net> <inverse-mask> eq ftp host <OOB-IP> gt 1023
established
access-list 133 permit tcp <OOB-net> <inverse-mask> eq ftp-data host <OOB-IP> gt 1023
access-list 133 permit tcp <OOB-net> <inverse-mask> gt 1023 host <OOB-IP> gt 1023
established
access-list 133 permit udp <OOB-net> <inverse-mask> gt 1023 host <OOB-IP> gt 1023
access-list 133 remark permit SNMP
access-list 133 permit udp host <CS-MARS-IP> host <OOB-IP> eq snmp
access-list 133 deny ip any any
access-list 134 remark OOB Mgmt Filtering Out
access-list 134 permit ip host <OOB-IP> <OOB-net> <inverse-mask>
access-list 134 deny ip any any log
access-list 199 permit ip host 192.168.144.2 any
access-list 199 permit ip host 192.168.144.10 any
!
snmp-server community <strong-community> RO 55
snmp-server trap-source GigabitEthernet0
snmp-server enable traps snmp authentication
snmp-server enable traps cpu threshold
snmp-server host <CS-MARS-IP> vrf Mgmt-intf <strong-community> cpu snmp
!
!
!
control-plane
service-policy input copp-policy
!
banner exec ^C EXEC Banner ^C
banner login ^C Login Banner ^C
banner motd ^C MOTD Banner ^C
!
line con 0
session-timeout 3
exec-timeout 3 0
password <strong-password>
authorization exec AuthorExec
logging synchronous
login authentication AuthenExec
transport preferred none
transport output none
stopbits 1
line aux 0
no exec
stopbits 1
line vty 0 3
session-timeout 3
access-class 111 in
exec-timeout 3 0
password <strong-password>
authorization exec AuthorExec
logging synchronous
login authentication AuthenExec
transport preferred none
transport input ssh
transport output none
line vty 4
session-timeout 3
access-class 112 in
exec-timeout 3 0
password <strong-password>

```

```

authorization exec AuthorExec
logging synchronous
login authentication AuthenExec
transport preferred none
transport input ssh
transport output none
line vty 5 15
  exec-timeout 0 0
  password 7 030752180500
  no exec
!
ntp authentication-key 10 md5 <strong-key>
ntp authenticate
ntp trusted-key 10
ntp clock-period 17227375
ntp source GigabitEthernet0
ntp access-group peer 20
ntp access-group serve-only 21
ntp server vrf Mgmt-intf <NTP-Server1> key 10
ntp server vrf Mgmt-intf <NTP-Server2> key 10
ntp peer vrf Mgmt-intf <NTP-Peer> key 10
end

```

Catalyst 3750 Switch

```

He4-3750-1
he4-3750-1#sh run
Building configuration...

Current configuration : 14644 bytes
!
! Last configuration change at 15:26:30 UTC Wed Jun 10 2009 by sherelle-admin
! NVRAM config last updated at 15:32:34 UTC Wed Jun 10 2009 by sherelle-admin
!
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
!
hostname he4-3750-1
!
logging buffered 65535 debugging
logging rate-limit all 10
no logging console
enable secret <strong-secret>
!
username csmars privilege 15 secret <strong-secret>
username admin privilege 15 secret <strong-secret>
aaa new-model
aaa group server tacacs+ Admin-TAC+
  server <AAA-Server-IP>
!
aaa authentication login AuthenExec group Admin-TAC+ local-case
aaa authentication enable default group Admin-TAC+ enable
aaa authorization console
aaa authorization exec AuthorExec group Admin-TAC+ if-authenticated
aaa authorization commands 15 default group Admin-TAC+ if-authenticated
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group Admin-TAC+
aaa accounting commands 15 default start-stop group Admin-TAC+

```

```

aaa accounting system default start-stop group Admin-TAC+
!
aaa session-id common
switch 1 provision ws-c3750e-48td
system mtu routing 1500
vtp domain ESE-Branch-WAN
vtp mode transparent
ip subnet-zero
no ip source-route
ip routing
no ip domain-lookup
ip domain-name cisco.com
!
ip tftp source-interface FastEthernet0
ip vrf branches
  description VRF for IPS Monitoring of Branches
  rd 12:1
  route-target export 12:1
  route-target import 12:1
!
ip ssh time-out 60
ip ssh authentication-retries 2
login block-for 100 attempts 5 within 50
login delay 1
login quiet-mode access-class 10
login on-failure log
!
!
key chain eigrp-auth
  key 10
    key-string <strong-key>
!
!
!
macro name unused-port
switchport access vlan 2000
shutdown
no cdp enable
@
!
port-channel load-balance src-dst-ip
memory reserve critical 1000
memory free low-watermark processor 19948
memory free low-watermark IO 1676
no file verify auto
!
spanning-tree mode rapid-pvst
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 10
  name ASR-1-Primary
!
vlan 11
  name ASR-2-Secondary
!
vlan 12
  name IPS-Frm-Branche
!
vlan 13
  name IPS-To-Branche
!
vlan 14

```

```

name ASR-IE-2-Primary
!
vlan 999
name CampusVlan
!
vlan 2000
name Unused
!
!
interface Port-channel1
description ECLB to IPS
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 12,13
switchport mode trunk
load-interval 60
!
interface FastEthernet0
description OOB Mgmt
ip address <OOB-IP> <mask>
ip access-group 133 in
ip access-group 134 out
no ip proxy-arp
no ip route-cache cef
no ip route-cache
no ip mroute-cache
load-interval 60
!
interface GigabitEthernet1/0/1
switchport access vlan 999
switchport mode access
load-interval 60
!
interface GigabitEthernet1/0/2
switchport access vlan 999
switchport mode access
load-interval 60
!
interface GigabitEthernet1/0/3
switchport access vlan 999
switchport mode access
load-interval 60
!
interface GigabitEthernet1/0/4
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/5
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/6
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/7
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/8
switchport access vlan 2000

```

```

shutdown
no cdp enable
!
interface GigabitEthernet1/0/9
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/10
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/11
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/12
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/13
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/14
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/15
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/16
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/17
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/18
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/19
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/20
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/21

```

```
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/22
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/23
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/24
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/25
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/26
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/27
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/28
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/29
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/30
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/31
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/32
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/33
switchport access vlan 2000
shutdown
no cdp enable
!
```



```

interface GigabitEthernet1/0/34
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/35
  description ASR-IE-2 G1/0/0
  switchport access vlan 14
  ip vrf forwarding branches
  load-interval 60
!
interface GigabitEthernet1/0/36
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/37
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/38
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/39
  description ASR-1 G0/0/2
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 10,999
  switchport mode trunk
  ip vrf forwarding branches
  load-interval 60
  shutdown
!
interface GigabitEthernet1/0/40
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/41
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/42
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/43
  switchport access vlan 999
!
interface GigabitEthernet1/0/44
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/45
  description IPS-1 G3/0
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 12,13
  switchport mode trunk
  load-interval 60

```

```

channel-group 1 mode on
!
interface GigabitEthernet1/0/46
description IPS-1 G3/1
switchport access vlan 2000
load-interval 60
shutdown
no cdp enable
!
interface GigabitEthernet1/0/47
description IPS-2 G3/0
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 12,13
switchport mode trunk
load-interval 60
channel-group 1 mode on
!
interface GigabitEthernet1/0/48
description IPS-2 G3/1
switchport access vlan 2000
load-interval 60
shutdown
no cdp enable
!
interface GigabitEthernet1/0/49
description ASR-1 G0/0/0.10
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 10,999
switchport mode trunk
ip vrf forwarding branches
load-interval 60
!
interface GigabitEthernet1/0/50
description SAFE CORE SFX14-6504E-1 Gig 1/1
no switchport
ip address 10.242.10.3 255.255.255.254
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
ip summary-address eigrp 1 10.62.0.0 255.255.0.0 5
ip summary-address eigrp 1 10.56.0.0 255.255.0.0 5
load-interval 60
!
interface GigabitEthernet1/0/51
description ASR-2 G0/0/1
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 11,20,999
switchport mode trunk
ip vrf forwarding branches
load-interval 60
!
interface GigabitEthernet1/0/52
description SAFE CORE SFX14-6504E-2 Gig 1/1
no switchport
ip address 10.242.10.7 255.255.255.254
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
ip summary-address eigrp 1 10.62.0.0 255.255.0.0 5
ip summary-address eigrp 1 10.56.0.0 255.255.0.0 5
load-interval 60
!
interface TenGigabitEthernet1/0/1
switchport access vlan 2000
shutdown
no cdp enable

```

```

!
interface TenGigabitEthernet1/0/2
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface Vlan1
  no ip address
  load-interval 60
  shutdown
!
interface Vlan10
  description Primary to ASR-1
  ip vrf forwarding branches
  ip address 10.208.10.1 255.255.255.252
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-auth
  load-interval 60
!
interface Vlan11
  ip vrf forwarding branches
  ip address 10.208.11.1 255.255.255.252
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-auth
  load-interval 60
!
interface Vlan12
  ip vrf forwarding branches
  ip address 10.208.12.1 255.255.255.252
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-auth
  load-interval 60
!
interface Vlan13
  ip address 10.208.12.2 255.255.255.252
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-auth
  load-interval 60
!
interface Vlan14
  ip vrf forwarding branches
  ip address 10.208.14.1 255.255.255.252
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-auth
  load-interval 60
!
interface Vlan999
  description IXIA Campus
  ip vrf forwarding branches
  ip address 10.204.0.2 255.252.0.0
  load-interval 60
!
router eigrp 1
  network 10.0.0.0
  no auto-summary
  !
  address-family ipv4 vrf branches
  network 10.0.0.0
  no auto-summary
  autonomous-system 1
  exit-address-family
!
ip classless
ip route <OOB-net> <inverse-mask> <OOB-GW>

```

```

no ip http server
no ip http secure-server
!
ip tacacs source-interface FastEthernet0
!
!
logging trap critical
logging source-interface FastEthernet0
logging <CS-MARS-IP>
access-list 10 remark Last Resort Host
access-list 10 permit <NOC-Host>
access-list 55 remark ACL for SNMP Access
access-list 55 permit <CS-MARS-IP>
access-list 55 deny any log
access-list 111 remark SSH Access
access-list 111 permit tcp <OOB-net> <inverse-mask> any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL to Reserve Last SSH Port
access-list 112 permit tcp host <NOC-Host> any eq 22
access-list 112 deny ip any any log-input
access-list 133 remark OOB Mgmt Filtering In
access-list 133 permit icmp <OOB-net> <inverse-mask> host <OOB-IP> ttl-exceeded
access-list 133 permit icmp <OOB-net> <inverse-mask> host <OOB-IP> port-unreachable
access-list 133 permit icmp <OOB-net> <inverse-mask> host <OOB-IP> echo-reply
access-list 133 permit icmp <OOB-net> <inverse-mask> host <OOB-IP> echo
access-list 133 remark permit TAC+
access-list 133 permit tcp <OOB-net> <inverse-mask> eq tacacs host <OOB-IP> established
access-list 133 permit tcp <OOB-net> <inverse-mask> host <OOB-IP> eq tacacs
access-list 133 remark permit NTP
access-list 133 permit udp <OOB-net> <inverse-mask> host <OOB-IP> eq ntp
access-list 133 remark permit SSH
access-list 133 permit tcp <OOB-net> <inverse-mask> host <OOB-IP> eq 22
access-list 133 remark permit FTP
access-list 133 permit tcp <OOB-net> <inverse-mask> eq ftp host <OOB-IP> gt 1023
established
access-list 133 permit tcp <OOB-net> <inverse-mask> eq ftp-data host <OOB-IP> gt 1023
access-list 133 permit tcp <OOB-net> <inverse-mask> gt 1023 host <OOB-IP> gt 1023
established
access-list 133 permit udp <OOB-net> <inverse-mask> gt 1023 host <OOB-IP> gt 1023
access-list 133 remark permit SNMP
access-list 133 permit udp host <CS-MARS-IP> host <OOB-IP> eq snmp
access-list 133 deny ip any any
access-list 134 remark OOB Mgmt Filtering Out
access-list 134 permit ip host <OOB-IP> <OOB-net> <inverse-mask>
access-list 134 deny ip any any log
snmp-server community <strong-community> RO 55
snmp-server enable traps license
snmp-server enable traps cpu threshold
snmp-server enable traps envmon fan shutdown supply temperature status
snmp-server host <CS-MARS-IP> <strong-community> cpu envmon
tacacs-server host <AAA-Server-IP> single-connection key <strong-key>
tacacs-server timeout 1
no tacacs-server directed-request
radius-server source-ports 1645-1646
!
control-plane
!
banner exec ^C EXEC Banner ^C
banner login ^C Login Banner ^C
banner motd ^C MOTD Banner ^C
!
line con 0
session-timeout 3
exec-timeout 3 0

```

```

password <strong-password>
authorization exec AuthorExec
login authentication AuthenExec
transport preferred none
transport output none
stopbits 1
line vty 0 3
  session-timeout 3
  access-class 111 in
  exec-timeout 3 0
  password <strong-password>
  authorization exec AuthorExec
  login authentication AuthenExec
  transport preferred none
  transport input ssh
  transport output none
line vty 4
  session-timeout 3
  access-class 112 in
  exec-timeout 3 0
  password <strong-password>
  authorization exec AuthorExec
  login authentication AuthenExec
  transport preferred none
  transport input ssh
  transport output none
line vty 5 15
  no exec
!
!
process cpu threshold type total rising 80 interval 5 falling 20 interval 5
process cpu statistics limit entry-percentage 40 size 300
ntp authentication-key 10 md5 <strong-key>
ntp authenticate
ntp trusted-key 10
ntp clock-period 36028903
ntp source FastEthernet0
ntp server <NTP-Server1> key 10 source FastEthernet0
ntp server <NTP-Server2> key 10 source FastEthernet0
end

He4-750-2
he4-3750-2#sh run
Building configuration...

Current configuration : 14437 bytes
!
! Last configuration change at 12:16:25 UTC Tue May 19 2009 by sherelle-admin
! NVRAM config last updated at 12:16:26 UTC Tue May 19 2009 by sherelle-admin
!
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
!
hostname he4-3750-2
!
logging buffered 65535 debugging
logging rate-limit all 10
no logging console
enable secret <strong-secret>

```

```

!
username csmars privilege 15 secret <strong-secret>
username admin privilege 15 secret <strong-secret>
aaa new-model
aaa group server tacacs+ Admin-TAC+
    server <AAA-Server-IP>
!
aaa authentication login AuthenExec group Admin-TAC+ local-case
aaa authentication enable default group Admin-TAC+ enable
aaa authorization console
aaa authorization exec AuthorExec group Admin-TAC+ if-authenticated
aaa authorization commands 15 default group Admin-TAC+ if-authenticated
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group Admin-TAC+
aaa accounting commands 15 default start-stop group Admin-TAC+
aaa accounting system default start-stop group Admin-TAC+
!
aaa session-id common
switch 1 provision ws-c3750e-48td
system mtu routing 1500
vtp domain ESE-Branch-WAN
vtp mode transparent
ip subnet-zero
no ip source-route
ip routing
no ip domain-lookup
ip domain-name cisco.com
!
ip tftp source-interface FastEthernet0
ip vrf branches
    description VRF for IPS Monitoring of Branches
    rd 17:1
    route-target export 17:1
    route-target import 17:1
!
ip ssh time-out 60
ip ssh authentication-retries 2
login block-for 100 attempts 5 within 50
login delay 1
login quiet-mode access-class 10
login on-failure log
!
!
key chain eigrp-auth
    key 10
        key-string <strong-key>
!
!
!
macro name unused-port
switchport access vlan 2000
shutdown
no cdp enable
@
!
port-channel load-balance src-dst-ip
memory reserve critical 1000
memory free low-watermark processor 19948
memory free low-watermark IO 1676
no file verify auto
!
spanning-tree mode rapid-pvst
spanning-tree extend system-id
!

```

```

vlan internal allocation policy ascending
!
vlan 15
  name ASR-2-Primary-Unused
!
vlan 16
  name ASR-1-Secondary
!
vlan 17
  name IPS-Frm-Branches
!
vlan 18
  name IPS-To-Branches
!
vlan 19
  name ASR-IE-2-Secondary
!
vlan 2000
  name Unused
!
!
interface Port-channel1
  description ECLB to IPS
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 17,18
  switchport mode trunk
  load-interval 60
!
interface FastEthernet0
  description OOB Mgmt
  ip address <OOB-IP> <mask>
  ip access-group 133 in
  ip access-group 134 out
  no ip proxy-arp
  no ip route-cache cef
  no ip route-cache
  no ip mroute-cache
  load-interval 60
!
interface GigabitEthernet1/0/1
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/2
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/3
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/4
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/5
  switchport access vlan 2000
  shutdown
  no cdp enable
!

```

```
interface GigabitEthernet1/0/6
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/7
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/8
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/9
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/10
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/11
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/12
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/13
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/14
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/15
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/16
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/17
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/18
  switchport access vlan 2000
  shutdown
  no cdp enable
```



```

!
interface GigabitEthernet1/0/19
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/20
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/21
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/22
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/23
  switchport access vlan 2000
  shutdown
  macro description unused-port
  no cdp enable
!
interface GigabitEthernet1/0/24
  switchport access vlan 2000
  shutdown
  macro description unused-port
  no cdp enable
!
interface GigabitEthernet1/0/25
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/26
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/27
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/28
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/29
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/30
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/31

```

```

switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/32
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/33
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/34
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/35
description ASR-IE-2 G1/0/1
switchport access vlan 19
load-interval 60
!
interface GigabitEthernet1/0/36
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/37
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/38
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/39
description To ASR-2 G0/0/2
no switchport
ip vrf forwarding branches
ip address 10.208.15.5 255.255.255.252
no ip redirects
no ip proxy-arp
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
load-interval 60
!
interface GigabitEthernet1/0/40
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/41
switchport access vlan 2000
shutdown
no cdp enable
!
interface GigabitEthernet1/0/42
switchport access vlan 2000
shutdown
no cdp enable

```

```

!
interface GigabitEthernet1/0/43
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/44
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/45
  description IPS-1 G3/2
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 17,18
  switchport mode trunk
  load-interval 60
  channel-group 1 mode on
!

interface GigabitEthernet1/0/46
  description IPS-1 G3/3
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/47
  description IPS-2 G3/2
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 17,18
  switchport mode trunk
  load-interval 60
  channel-group 1 mode on
!
interface GigabitEthernet1/0/48
  description IPS-2 G3/3
  switchport access vlan 2000
  shutdown
  no cdp enable
!
interface GigabitEthernet1/0/49
  description To ASR-2 G0/0/0
  no switchport
  ip vrf forwarding branches
  ip address 10.208.15.1 255.255.255.252
  no ip redirects
  no ip proxy-arp
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-auth
  load-interval 60
!
interface GigabitEthernet1/0/50
  description SAFE CORE SFX14-6504E-1 Gig 1/2
  no switchport
  ip address 10.242.10.5 255.255.255.254
  ip authentication mode eigrp 1 md5
  ip authentication key-chain eigrp 1 eigrp-auth
  ip summary-address eigrp 1 10.62.0.0 255.255.0.0 5
  ip summary-address eigrp 1 10.56.0.0 255.255.0.0 5
  load-interval 60
!
interface GigabitEthernet1/0/51
  description ASR 1 G0/0/1
  switchport access vlan 16

```

```

switchport trunk encapsulation dot1q
switchport trunk allowed vlan 16
switchport mode trunk
ip vrf forwarding branches
load-interval 60
!
interface GigabitEthernet1/0/52
description SAFE CORE SFX14-6504E-2 Gig 1/2
no switchport
ip address 10.242.10.9 255.255.255.254
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
ip summary-address eigrp 1 10.62.0.0 255.255.0.0 5
ip summary-address eigrp 1 10.56.0.0 255.255.0.0 5
load-interval 60
!
interface TenGigabitEthernet1/0/1
switchport access vlan 2000
shutdown
no cdp enable
!
interface TenGigabitEthernet1/0/2
switchport access vlan 2000
shutdown
no cdp enable
!
interface Vlan1
no ip address
load-interval 60
shutdown
!
interface Vlan16
description ASR-1 Secondary
ip vrf forwarding branches
ip address 10.208.16.1 255.255.255.252
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
load-interval 60
!
interface Vlan17
description IPS From Branches
ip vrf forwarding branches
ip address 10.208.17.1 255.255.255.252
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
load-interval 60
!
interface Vlan18
description IPS To Branches
ip address 10.208.17.2 255.255.255.252
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
load-interval 60
!
interface Vlan19
description ASR-IE-2
ip vrf forwarding branches
ip address 10.208.19.1 255.255.255.252
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
load-interval 60
!
router eigrp 1
network 10.0.0.0

```

```

no auto-summary
!
address-family ipv4 vrf branches
network 10.0.0.0
no auto-summary
autonomous-system 1
exit-address-family
!
ip classless
ip route <OOB-net> <inverse-mask> <OOB-GW>
no ip http server
no ip http secure-server
!
ip tacacs source-interface FastEthernet0
!
!
logging trap critical
logging source-interface FastEthernet0
logging <CS-MARS-IP>
access-list 10 remark Last Resort Host
access-list 10 permit <NOC-Host>
access-list 55 remark ACL for SNMP Access
access-list 55 permit <CS-MARS-IP>
access-list 55 deny any log
access-list 111 remark SSH Access
access-list 111 permit tcp <OOB-net> <inverse-mask> any eq 22
access-list 111 deny ip any any log-input
access-list 112 permit tcp host <NOC-Host> any eq 22
access-list 112 deny ip any any log-input
access-list 133 remark OOB Mgmt Filtering In
access-list 133 permit icmp <OOB-net> <inverse-mask> host <OOB-IP> ttl-exceeded
access-list 133 permit icmp <OOB-net> <inverse-mask> host <OOB-IP> port-unreachable
access-list 133 permit icmp <OOB-net> <inverse-mask> host <OOB-IP> echo-reply
access-list 133 permit icmp <OOB-net> <inverse-mask> host <OOB-IP> echo
access-list 133 remark permit TAC+
access-list 133 permit tcp <OOB-net> <inverse-mask> eq tacacs host <OOB-IP> established
access-list 133 permit tcp <OOB-net> <inverse-mask> host <OOB-IP> eq tacacs
access-list 133 remark permit NTP
access-list 133 permit udp <OOB-net> <inverse-mask> host <OOB-IP> eq ntp
access-list 133 remark permit SSH
access-list 133 permit tcp <OOB-net> <inverse-mask> host <OOB-IP> eq 22
access-list 133 remark permit FTP
access-list 133 permit tcp <OOB-net> <inverse-mask> eq ftp host <OOB-IP> gt 1023
established
access-list 133 permit tcp <OOB-net> <inverse-mask> eq ftp-data host <OOB-IP> gt 1023
access-list 133 permit tcp <OOB-net> <inverse-mask> gt 1023 host <OOB-IP> gt 1023
established
access-list 133 permit udp <OOB-net> <inverse-mask> gt 1023 host <OOB-IP> gt 1023
access-list 133 remark permit SNMP
access-list 133 permit udp host <CS-MARS-IP> host <OOB-IP> eq snmp
access-list 133 deny ip any any
access-list 134 remark OOB Mgmt Filtering Out
access-list 134 permit ip host <OOB-IP> <OOB-net> <inverse-mask>
access-list 134 deny ip any any log
access-list 134 deny ip any any
snmp-server community <strong-community> RO 55
snmp-server enable traps license
snmp-server enable traps cpu threshold
snmp-server enable traps envmon fan shutdown supply temperature status
snmp-server host <CS-MARS-IP> <strong-community> cpu envmon
tacacs-server host <AAA-Server-IP> single-connection key <strong-key>
tacacs-server timeout 1
no tacacs-server directed-request
radius-server source-ports 1645-1646

```

```

!
control-plane
!
banner exec ^C EXEC Banner ^C
banner login ^C Login Banner ^C
banner motd ^C MOTD Banner ^C
!
line con 0
  session-timeout 3
  exec-timeout 3 0
  password <strong-password>
  authorization exec AuthorExec
  logging synchronous
  login authentication AuthenExec
  transport preferred none
  transport output none
  stopbits 1
line vty 0 3
  session-timeout 3
  access-class 111 in
  exec-timeout 3 0
  password <strong-password>
  authorization exec AuthorExec
  logging synchronous
  login authentication AuthenExec
  transport preferred none
  transport input ssh
  transport output none
line vty 4
  session-timeout 3
  access-class 112 in
  exec-timeout 3 0
  password <strong-password>
  authorization exec AuthorExec
  logging synchronous
  login authentication AuthenExec
  transport preferred none
  transport input ssh
  transport output none
line vty 5 15
  no exec
!
process cpu threshold type total rising 80 interval 5 falling 20 interval 5
process cpu statistics limit entry-percentage 40 size 300
ntp authentication-key 10 md5 <strong-key>
ntp authenticate
ntp trusted-key 10
ntp clock-period 36028827
ntp source FastEthernet0
ntp server <NTP-Server1> key 10 source FastEthernet0
ntp server <NTP-Server2> key 10 source FastEthernet0
end

```

IPS 4270

```

He4-ips-1
he4-ips-1# sh conf
! -----
! Current configuration last modified Tue Feb 17 17:19:37 2009
! -----
! Version 6.1(2)

```

```

! Host:
!   Realm Keys           key1.0
! Signature Definition:
!   Signature Update     S379.0   2009-01-30
!   Virus Update         V1.4     2007-03-02
! -----
service interface
physical-interfaces GigabitEthernet3/0
description he4-3750-1
admin-state enabled
duplex auto
speed auto
default-vlan 0
alt-tcp-reset-interface none
subinterface-type inline-vlan-pair
subinterface 1
description he4-3750-1
vlan1 12
vlan2 13
exit
exit
exit
physical-interfaces GigabitEthernet3/1
no description
admin-state disabled
duplex auto
speed auto
default-vlan 0
alt-tcp-reset-interface none
subinterface-type none
exit
physical-interfaces GigabitEthernet3/2
description he4-3750-2
admin-state enabled
duplex auto
speed auto
default-vlan 0
alt-tcp-reset-interface none
subinterface-type inline-vlan-pair
subinterface 1
description he4-3750-2
vlan1 17
vlan2 18
exit
exit
exit
physical-interfaces GigabitEthernet3/3
admin-state disabled
exit
cdp-mode forward-cdp-packets
exit
! -----
service authentication
attemptLimit 5
exit
! -----
service event-action-rules rules0
exit
! -----
service host
network-settings
host-ip <OOB-IP/mask>,<OOB-GW>
host-name he4-ips-1
access-list <OOB-Net/mask>

```

```

login-banner-text <Login Banner>
exit
ntp-option enabled
ntp-keys 10 md5-key <strong-key>
ntp-servers <NTP-Server> key-id 10
exit
exit
! -----
service logger
exit
! -----
service network-access
exit
! -----
service notification
trap-destinations <CS-MARS-IP>
trap-community-name <strong-community>
trap-port 162
exit
enable-notifications true
trap-community-name <strong-community>
exit
! -----
service signature-definition sig0
exit
! -----
service ssh-known-hosts
exit
! -----
service trusted-certificates
trusted-certificates <CSA-MC> certificate <CSA-MC-Cert>
exit
! -----
service web-server
exit
! -----
service anomaly-detection ad0
exit
! -----
service external-product-interface
cisco-security-agents-mc-settings <CSA-MC>
username <username>
exit
exit
! -----
service health-monitor
memory-usage-policy
enable true
exit
exit
! -----
service analysis-engine
virtual-sensor vs0
physical-interface GigabitEthernet3/0 subinterface-number 1
physical-interface GigabitEthernet3/2 subinterface-number 1
inline-TCP-session-tracking-mode virtual-sensor
exit
exit

He4-ips-2
he4-ips-2# sh conf
! -----
! Current configuration last modified Tue Feb 17 17:18:35 2009

```



```

! -----
! Version 6.1(2)
! Host:
!   Realm Keys          key1.0
! Signature Definition:
!   Signature Update    S379.0   2009-01-30
!   Virus Update        V1.4     2007-03-02
! -----
service interface
physical-interfaces GigabitEthernet3/0
description he4-3750-1
admin-state enabled
duplex auto
speed auto
default-vlan 0
alt-tcp-reset-interface none
subinterface-type inline-vlan-pair
subinterface 1
description he4-3750-1
vlan1 12
vlan2 13
exit
exit
exit
physical-interfaces GigabitEthernet3/1
no description
admin-state disabled
duplex auto
speed auto
default-vlan 0
alt-tcp-reset-interface none
subinterface-type none
exit
physical-interfaces GigabitEthernet3/2
description he4-3750-2
admin-state enabled
duplex auto
speed auto
default-vlan 0
alt-tcp-reset-interface none
subinterface-type inline-vlan-pair
subinterface 1
description he4-3750-2
vlan1 17
vlan2 18
exit
exit
exit
physical-interfaces GigabitEthernet3/3
subinterface-type none
exit
cdp-mode forward-cdp-packets
exit
! -----
service authentication
attemptLimit 5
exit
! -----
service event-action-rules rules0
exit
! -----
service host
network-settings
host-ip <OOB-IP/mask>,<OOB-GW>

```

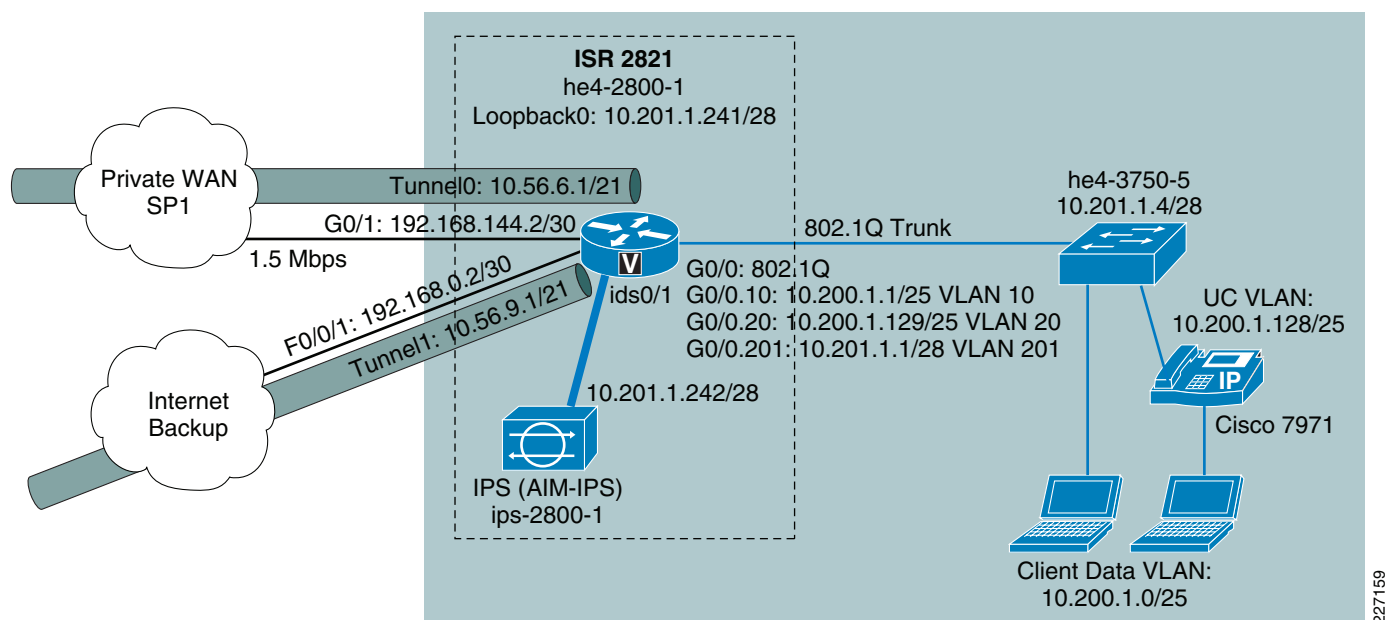
```

host-name he4-ips-2
access-list <OOB-Net/mask>
login-banner-text <Login Banner>
exit
ntp-option enabled
ntp-keys 10 md5-key <strong-key>
ntp-servers <NTP-Server> key-id 10
exit
exit
! -----
service logger
exit
! -----
service network-access
exit
! -----
service notification
trap-destinations <CS-MARS-IP>
trap-community-name <strong-community>
trap-port 162
exit
enable-notifications true
trap-community-name <strong-community>
exit
! -----
service signature-definition sig0
exit
! -----
service ssh-known-hosts
exit
! -----
service trusted-certificates
trusted-certificates <CSA-MC> certificate <CSA-MC-Cert>
exit
! -----
service web-server
exit
! -----
service anomaly-detection ad0
exit
! -----
service external-product-interface
cisco-security-agents-mc-settings <CSA-MC>
username <username>
exit
exit
! -----
service health-monitor
memory-usage-policy
enable true
exit
exit
! -----
service analysis-engine
virtual-sensor vs0
physical-interface GigabitEthernet3/0 subinterface-number 1
physical-interface GigabitEthernet3/2 subinterface-number 1
inline-TCP-session-tracking-mode virtual-sensor
exit
exit

```

Enterprise Branch

Figure 7 Typical Enterprise Branch Network Diagram



Integrated Services Router

```

He4-2800-1
he4-2800-1#sh run
Building configuration...

Current configuration : 21614 bytes
!
! Last configuration change at 13:41:34 UTC Wed Jun 10 2009 by sherelle-admin
! NVRAM config last updated at 13:41:46 UTC Wed Jun 10 2009 by sherelle-admin
!
version 12.4
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
!
hostname he4-2800-1
!
boot-start-marker
boot-end-marker
!
logging message-counter syslog
logging buffered 4096
logging rate-limit all 10
no logging console
enable secret <strong-secret>
!
aaa new-model
!

```

```

!
aaa group server tacacs+ Admin-TAC+
  server 10.242.50.94
!
aaa authentication login AuthenExec group Admin-TAC+ local-case
aaa authentication enable default group Admin-TAC+ enable
aaa authorization console
aaa authorization exec AuthorExec group Admin-TAC+ if-authenticated
aaa authorization commands 15 default group Admin-TAC+ if-authenticated
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group Admin-TAC+
aaa accounting commands 15 default start-stop group Admin-TAC+
aaa accounting system default start-stop group Admin-TAC+
!
!
aaa session-id common
!
!
crypto pki trustpoint a-subca
  enrollment url http://a-subca:12345
  revocation-check none
  auto-enroll 70 regenerate
!
!
crypto pki certificate chain a-subca
  certificate 04
    308201FC 30820165 A0030201 02020104 300D0609 2A864886 F70D0101 04050030
    12311030 0E060355 04031307 612D7375 62636130 1E170D30 39303330 36313534
    3331395A 170D3132 30333035 31353138 31355A30 25312330 2106092A 864886F7
    0D010902 16146865 342D3238 30302D31 2E636973 636F2E63 6F6D3081 9F300D06
    092A8648 86F70D01 01010500 03818D00 30818902 818100BB A171881D 8FC2CE70
    DA083D22 8D9EB88C 292DA7A7 68DE7B91 BE7285E4 C2794E93 33E2499F 7F64AF67
    77C14772 455B71BF 936631B3 ACA1E3E3 9B8202D2 7E91EB83 96FB705E D86452DE
    613AADBD 1286A2E3 91090498 40EA7EC4 A5C7E7A0 EA1B26A8 4FED2FE6 23C87B1D
    99D637D8 ABF382F0 705204E5 F5179B67 303615FC 75CDF502 03010001 A34F304D
    300B0603 551D0F04 04030205 A0301F06 03551D23 04183016 8014B905 2A3DFD58
    6A41C4F7 2CB07891 9FFDF860 CD7A301D 0603551D 0E041604 143CB802 9536DA04
    9727F5B8 08B200FD B9F5F27C EC300D06 092A8648 86F70D01 01040500 03818100
    15BCA0EA B5D6C340 6C040751 D3A957DE 4578ADE4 45C3E72F 664A753A 0DFB6422
    A6B9D633 2DA0E374 E5D968E0 A83DBBDA 111F4B33 9D7E5E0E AD667D6E D595F381
    E5F843B2 01980A4A C507223D 93087732 D4EF1B2E 944AFF62 8DFA1A58 A7AC7768
    DAD0AD6E FCAB5F92 ACADABC1 A6880FE1 5B6F3610 4FAF472F F001093D C4AA57BF
  quit
  certificate ca 06
    3082023D 308201A6 A0030201 02020106 300D0609 2A864886 F70D0101 04050030
    12311030 0E060355 04031307 726F6F74 2D636130 1E170D30 39303330 36313531
    3831355A 170D3132 30333035 31353138 31355A30 12311030 0E060355 04031307
    612D7375 62636130 819F300D 06092A86 4886F70D 01010105 0003818D 00308189
    02818100 B1B50AFC EBF7AA1F AC357241 B19557E7 51AF1FD3 C3C3FFCD 8D7649D9
    37F14D98 8E00522A 2EDC1E20 3573EF8F E247FBC1 D886492C 13A10F56 0752DFA2
    97BF5AB4 0B895B2B 39406CD7 960AD8ED 2984C640 F07951DD B719BD55 E102F558
    B914E4C2 B870DED2 4B3AD1CB 5950533B 59286F8D 75F5224B 502A2752 06FA4D27
    23C7B4FD 02030100 01A381A2 30819F30 3F060355 1D1F0438 30363034 A032A030
    862E6874 74703A2F 2F313732 2E32362E 3138302E 31302F73 6F6C7574 696F6E73
    2F76706E 2F726F6F 742D6361 2E63726C 300F0603 551D1301 01FF0405 30030101
    FF300B06 03551D0F 04040302 0780301F 0603551D 23041830 168014F9 401E5590
    5FE7B694 B778040C BFC8D53C 5A52FB30 1D060355 1D0E0416 0414B905 2A3DFD58
    6A41C4F7 2CB07891 9FFDF860 CD7A300D 06092A86 4886F70D 01010405 00038181
    001E6FAF D365A1B6 B50F36B5 91B64B40 9CA2B106 791BA8BC B226AD43 D8B063F2
    F6974216 2C046899 AA855258 4698F9E5 7A63ECC0 7C9F0571 AD46EB20 F5C39CF5
    F128964F B3E47ADE 00B9D82D C461F392 BCF6371B 4F384E60 3C325181 8243548A
    48F99471 8DF2201A 7413969F BCF22EB6 E6BB66C0 DF7264FA C1D03F96 F4A0DF53 99
  quit
dot11 syslog

```



```

memory free low-watermark processor 38721
memory free low-watermark IO 2516
username csmars privilege 15 secret <strong-secret>
username admin privilege 15 secret <strong-secret>
!
!
crypto isakmp policy 10
  encr aes 256
  group 2
crypto isakmp keepalive 10
!
!
crypto ipsec transform-set vpn-test esp-aes esp-sha-hmac
no crypto ipsec nat-transparency udp-encaps
!
crypto ipsec profile vpn-dmvpn
  set transform-set vpn-test
!
!
archive
  log config
  hidekeys
!
!
ip ftp source-interface Loopback0
ip tftp source-interface Loopback0
ip ssh time-out 60
ip ssh authentication-retries 2
!
class-map type inspect match-any to-infra-class
  match access-group 104
class-map type inspect match-any to-clients-class
  match access-group 103
class-map match-all Bulk-Data
  match ip dscp af11 af12
class-map match-all Interactive-Video
  match ip dscp af41 af42
class-map match-any Network-Control
  match ip dscp cs6
  match ip dscp cs2
class-map match-all Critical-Data
  match ip dscp af21 af22
class-map match-any Call-Signaling
  match ip dscp cs3
  match ip dscp af31
class-map match-all Voice
  match ip dscp ef
class-map match-all Scavenger
  match ip dscp cs1
class-map type inspect match-any frm-infra-class
  match access-group 102
class-map type inspect match-any frm-clients-class
  match access-group 101
!
!
policy-map WAN-Edge-QoS
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5

```

```

class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
class Bulk-Data
    bandwidth percent 4
    random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
policy-map type inspect infra-clients-policy
    class type inspect frm-infra-class
        inspect
    class class-default
        drop log
policy-map type inspect infra-hq-policy
    class type inspect frm-infra-class
        pass
    class class-default
        drop log
policy-map type inspect hq-infra-policy
    class type inspect to-infra-class
        pass
    class class-default
        drop log
policy-map type inspect clients-hq-policy
    class type inspect frm-clients-class
        pass
    class class-default
        drop log
policy-map type inspect hq-clients-policy
    class type inspect to-clients-class
        pass
    class class-default
        drop log
!
zone security vpn
    description VPN to Corporate
zone security infra
    description Infrastructure Devices
zone security clients
    description Clients
zone-pair security clients-hq source clients destination vpn
    service-policy type inspect clients-hq-policy
zone-pair security infra-hq source infra destination vpn
    service-policy type inspect infra-hq-policy
zone-pair security hq-clients source vpn destination clients
    service-policy type inspect hq-clients-policy
zone-pair security hq-infra source vpn destination infra
    service-policy type inspect hq-infra-policy
zone-pair security infra-clients source infra destination clients
    service-policy type inspect infra-clients-policy
!
!
!
!
interface Loopback0
    ip address 10.201.1.241 255.255.255.240
    no ip proxy-arp
    load-interval 60
!
interface Tunnel0
    description Private WAN Tunnel

```

```

bandwidth 1536
ip address 10.56.6.1 255.255.248.0
ip mtu 1400
ip flow ingress
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
ip nhrp authentication <strong-key>
ip nhrp map multicast 192.168.34.1
ip nhrp map 10.56.0.1 192.168.34.1
ip nhrp network-id 105600
ip nhrp holdtime 600
ip nhrp nhs 10.56.0.1
zone-member security vpn
ip summary-address eigrp 1 10.201.1.0 255.255.255.0 5
ip summary-address eigrp 1 10.200.1.0 255.255.255.0 5
load-interval 60
flow-sampler Netflow-Sampled
qos pre-classify
tunnel source 192.168.144.2
tunnel destination 192.168.34.1
tunnel key 105600
tunnel protection ipsec profile vpn-dmvpn
!
interface Tunnel1
description Internet Tunnel
bandwidth 1536
ip address 10.56.9.1 255.255.248.0
ip mtu 1400
ip flow ingress
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
ip nhrp authentication <strong-key>
ip nhrp map multicast 192.168.34.1
ip nhrp map 10.56.8.1 192.168.34.1
ip nhrp network-id 105600
ip nhrp holdtime 600
ip nhrp nhs 10.56.8.1
zone-member security vpn
ip summary-address eigrp 1 10.201.1.0 255.255.255.0 5
ip summary-address eigrp 1 10.200.1.0 255.255.255.0 5
load-interval 60
flow-sampler Netflow-Sampled
qos pre-classify
tunnel source 192.168.0.2
tunnel destination 192.168.34.1
tunnel key 105600
tunnel protection ipsec profile vpn-dmvpn
!
interface GigabitEthernet0/0
description Branch Network
no ip address
no ip proxy-arp
load-interval 60
duplex auto
speed auto
no cdp enable
no mop enabled
!
interface GigabitEthernet0/0.10
description Wired Clients
encapsulation dot1Q 10
ip address 10.200.1.1 255.255.255.128
ip access-group 125 in
no ip redirects

```



```

no ip proxy-arp
zone-member security clients
ids-service-module monitoring inline
no cdp enable
!
interface GigabitEthernet0/0.20
description UC
encapsulation dot1Q 20
ip address 10.200.1.129 255.255.255.128
no ip redirects
no ip proxy-arp
!
interface GigabitEthernet0/0.201
description Mgmt VLAN
encapsulation dot1Q 201
ip address 10.201.1.1 255.255.255.240
no ip proxy-arp
zone-member security infra
!
interface GigabitEthernet0/1
description Private WAN
ip address 192.168.144.2 255.255.255.248
ip access-group 120 in
ip verify unicast source reachable-via rx
no ip redirects
no ip proxy-arp
load-interval 60
duplex auto
speed auto
snmp trap ip verify drop-rate
no cdp enable
no mop enabled
service-policy output WAN-Edge-QoS
!
interface FastEthernet0/0/0
load-interval 60
shutdown
no cdp enable
!
interface FastEthernet0/0/1
description Internet WAN
switchport access vlan 2
load-interval 60
no cdp enable
!
interface FastEthernet0/0/2
load-interval 60
shutdown
no cdp enable
!
interface FastEthernet0/0/3
load-interval 60
shutdown
no cdp enable
!
interface Integrated-Service-Engine1/0
ip address 10.201.1.49 255.255.255.240
load-interval 60
no keepalive
no cdp enable
!
interface IDS-Sensor0/1
description IPS Module
ip unnumbered Loopback0

```

```

no ip proxy-arp
zone-member security infra
load-interval 60
service-module fail-open
hold-queue 60 out
!
!
interface Vlan2
description Internet WAN
ip address 192.168.0.2 255.255.255.252
ip access-group 121 in
ip verify unicast source reachable-via rx
no ip redirects
no ip proxy-arp
ip flow ingress
ip flow egress
snmp trap ip verify drop-rate
flow-sampler Netflow-Sampled
!
router eigrp 1
passive-interface default
no passive-interface Tunnel0
no passive-interface Tunnel1
network 10.0.0.0
no auto-summary
eigrp stub connected summary
!
router eigrp 100
passive-interface default
no passive-interface GigabitEthernet0/1
no passive-interface Vlan2
network 192.168.0.0 0.0.255.255
no auto-summary
eigrp stub receive-only
!
ip forward-protocol nd
ip route 10.201.1.242 255.255.255.255 IDS-Sensor0/1
no ip http server
no ip http secure-server
!
ip flow-export source Loopback0
ip flow-export version 5
ip flow-export destination 10.242.50.99 2055
!
ip tacacs source-interface Loopback0
!
ip access-list extended MGMT-TRAFFIC
permit ip 10.201.1.0 0.0.0.255 any
!
logging trap warnings
logging source-interface Loopback0
logging 10.242.50.99
access-list 10 remark Last Resort Host
access-list 10 permit 10.242.50.95
access-list 55 remark ACL for SNMP access to device
access-list 55 permit 10.242.50.99
access-list 55 deny any log
access-list 55 remark ACL for SNMP RO Access
access-list 101 remark Client Source
access-list 101 permit ip 10.200.1.0 0.0.0.255 any
access-list 102 remark Infra Source
access-list 102 permit ip 10.201.1.0 0.0.0.255 any
access-list 103 remark Clients Dest
access-list 103 permit ip any 10.200.1.0 0.0.0.255

```

```

access-list 104 remark Infra Dest
access-list 104 permit ip any 10.201.1.0 0.0.0.255
access-list 111 remark SSH Access
access-list 111 permit tcp 10.242.50.0 0.0.0.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL to Reserve Last SSH Port
access-list 112 permit tcp host 10.242.50.95 any eq 22
access-list 112 deny ip any any log-input
access-list 113 remark ISR-IPS Module Session
access-list 113 permit tcp 10.201.1.0 0.0.0.255 any
access-list 113 permit tcp 10.242.50.0 0.0.0.255 any
access-list 113 deny ip any any log-input
access-list 120 remark SP WAN Edge ACL - Private WAN
access-list 120 remark deny Fragments
access-list 120 deny tcp any any log fragments
access-list 120 deny udp any any log fragments
access-list 120 deny icmp any any log fragments
access-list 120 remark deny Incoming with Source=Internal
access-list 120 deny ip 10.0.0.0 0.255.255.255 any
access-list 120 remark deny RFC 3330 Special-Use Addresses
access-list 120 deny ip host 0.0.0.0 any
access-list 120 deny ip 127.0.0.0 0.255.255.255 any
access-list 120 deny ip 192.0.2.0 0.0.0.255 any
access-list 120 deny ip 224.0.0.0 31.255.255.255 any
access-list 120 remark deny RFC 1918 Reserved Addresses
access-list 120 deny ip 172.16.0.0 0.15.255.255 any
access-list 120 remark permit Incoming EIGRP from SP Neighbors
access-list 120 permit eigrp host 192.168.144.1 host 224.0.0.10
access-list 120 permit eigrp host 192.168.144.1 host 192.168.144.2
access-list 120 remark permit Ping & Traceroute
access-list 120 permit icmp any host 192.168.144.2 ttl-exceeded
access-list 120 permit icmp any host 192.168.144.2 port-unreachable
access-list 120 permit icmp any host 192.168.144.2 echo-reply
access-list 120 permit icmp any host 192.168.144.2 echo
access-list 120 remark permit DMVPN with HQ
access-list 120 permit udp host 192.168.34.1 host 192.168.144.2 eq isakmp
access-list 120 permit esp host 192.168.34.1 host 192.168.144.2
access-list 120 permit tcp host 192.168.168.226 eq 12345 host 192.168.144.2
access-list 120 deny ip any any
access-list 121 remark SP WAN Edge ACL - Internet
access-list 121 remark deny Fragments
access-list 121 deny tcp any any log fragments
access-list 121 deny udp any any log fragments
access-list 121 deny icmp any any log fragments
access-list 121 remark deny Incoming with Source=Internal
access-list 121 deny ip 10.0.0.0 0.255.255.255 any
access-list 121 remark deny RFC 3330 Special-Use Addresses
access-list 121 deny ip host 0.0.0.0 any
access-list 121 deny ip 127.0.0.0 0.255.255.255 any
access-list 121 deny ip 192.0.2.0 0.0.0.255 any
access-list 121 deny ip 224.0.0.0 31.255.255.255 any
access-list 121 remark deny RFC 1918 Reserved Addresses
access-list 121 deny ip 172.16.0.0 0.15.255.255 any
access-list 121 remark permit Incoming EIGRP from SP Neighbors
access-list 121 permit eigrp host 192.168.0.1 host 224.0.0.10
access-list 121 permit eigrp host 192.168.0.1 host 192.168.0.2
access-list 121 remark permit Ping & Traceroute
access-list 121 permit icmp any host 192.168.0.2 ttl-exceeded
access-list 121 permit icmp any host 192.168.0.2 port-unreachable
access-list 121 permit icmp any host 192.168.0.2 echo-reply
access-list 121 permit icmp any host 192.168.0.2 echo
access-list 121 remark permit DMVPN with HQ
access-list 121 permit udp host 192.168.34.1 host 192.168.0.2 eq isakmp
access-list 121 permit esp host 192.168.34.1 host 192.168.0.2

```

```
access-list 121 remark permit PKI CA
access-list 121 permit tcp host 192.168.168.226 eq www host 192.168.0.2
access-list 121 deny ip any any
access-list 125 remark Client Access Edge iACL
access-list 125 remark Permit TCP to Proxy Server in IE
access-list 125 permit tcp any host 10.245.255.250 eq www
access-list 125 remark Permit Client ping and traceroute
access-list 125 permit icmp any any ttl-exceeded
access-list 125 permit icmp any any port-unreachable
access-list 125 permit icmp any any echo-reply
access-list 125 permit icmp any any echo
access-list 125 remark Permit VPN to Mgmt FW
access-list 125 permit udp any host 10.242.50.1 eq isakmp
access-list 125 permit esp any host 10.242.50.1
access-list 125 remark Deny Client to OOB Mgmt network
access-list 125 deny ip any <OOB-net> <inverse-mask>
access-list 125 remark Deny Client to NoC & Core
access-list 125 deny ip any 10.242.0.0 0.0.255.255
access-list 125 remark Deny Client to Internet Edge
access-list 125 deny ip any 10.244.20.0 0.0.0.255
access-list 125 deny ip any 10.244.30.0 0.0.0.255
access-list 125 deny ip any 10.245.0.0 0.0.255.255
access-list 125 deny ip any 10.246.10.0 0.0.0.255
access-list 125 deny ip any 64.104.10.112 0.0.0.3
access-list 125 deny ip any 64.104.10.124 0.0.0.3
access-list 125 deny ip any 64.104.20.0 0.0.0.255
access-list 125 deny ip any 198.133.219.0 0.0.0.255
access-list 125 remark Deny Client to WAN Edge
access-list 125 deny ip any 10.208.0.0 0.0.255.255
access-list 125 remark Deny Client to DMVPN Tunnels
access-list 125 deny ip any 10.56.0.0 0.0.255.255
access-list 125 remark Deny Client to Branch Infra
access-list 125 deny ip any 10.201.0.0 0.0.255.255
access-list 125 remark Permit Client Non-Infra traffic
access-list 125 permit ip any any
!
snmp-server community <strong-community> RO 55
snmp-server enable traps envmon
snmp-server enable traps authenticate-fail
snmp-server enable traps cpu threshold
snmp-server host 10.242.50.99 <strong-community> envmon authenticate-fail memory cpu
!
!
!
!
!
tacacs-server host 10.242.50.94 single-connection key <strong-key>
tacacs-server timeout 1
!
control-plane
!
!
!
!
!
!
!
!
!
banner exec ^C EXEC Banner ^C
banner login ^C Login Banner ^C
banner motd ^C MOTD Banner ^C
!
```

```

line con 0
  session-timeout 3
  exec-timeout 3 0
  authorization exec AuthorExec
  login authentication AuthenExec
  transport preferred none
  transport output telnet
line aux 0
  no exec
line 66
  session-timeout 3
  exec-timeout 3 0
  no activation-character
  no exec
  transport preferred none
  transport input telnet
  transport output none
line 258
  session-timeout 3
  access-class 113 in
  exec-timeout 3 0
  no activation-character
  no exec
  transport preferred none
  transport input telnet
  transport output none
  stopbits 1
  speed 115200
line vty 0 3
  session-timeout 3
  access-class 111 in
  exec-timeout 3 0
  authorization exec AuthorExec
  login authentication AuthenExec
  transport preferred none
  transport input ssh
  transport output telnet
line vty 4
  session-timeout 3
  access-class 112 in
  exec-timeout 3 0
  authorization exec AuthorExec
  login authentication AuthenExec
  transport preferred none
  transport input ssh
  transport output telnet
line vty 5
  no exec
!
scheduler allocate 20000 1000
process cpu threshold type total rising 65 interval 5
process cpu statistics limit entry-percentage 40 size 300
ntp authentication-key 10 md5 <strong-key>
ntp authenticate
ntp trusted-key 10
ntp source Loopback0
ntp update-calendar
ntp server 10.56.0.1 key 10
end

Ips-2800-1

<<< Log from 10.201.1.242 started February 10, 2009, 20:55:54 >>>

```

```

ips-2800-1# sh conf
! -----
! Current configuration last modified Tue Feb 10 18:32:20 2009
! -----
! Version 6.1(2)
! Host:
!   Realm Keys          key1.0
! Signature Definition:
!   Signature Update    S379.0    2009-01-30
!   Virus Update        V1.4      2007-03-02
! -----
service interface
cdp-mode forward-cdp-packets
exit
! -----
service authentication
attemptLimit 5
exit
! -----
service event-action-rules rules0
exit
! -----
service host
network-settings
host-ip 10.201.1.242/28,10.201.1.241
host-name ips-2800-1
access-list 10.201.1.0/24
access-list 10.242.50.0/24
login-banner-text <Login Banner>
exit
ntp-option enabled
ntp-keys 10 md5-key <strong-key>
ntp-servers 10.56.0.1 key-id 10
exit
exit
! -----
service logger
exit
! -----
service network-access
general
block-enable true
exit
exit
! -----
service notification
trap-destinations 10.242.50.99
trap-community-name <strong-community>
exit
enable-notifications true
trap-community-name <strong-community>
exit
! -----
service signature-definition sig0
exit
! -----
service ssh-known-hosts
exit
! -----
service trusted-certificates
exit
! -----
service web-server
exit

```

```

! -----
service anomaly-detection ad0
exit
! -----
service external-product-interface
exit
! -----
service health-monitor
memory-usage-policy
enable true
exit
exit
! -----
service analysis-engine
virtual-sensor vs0
physical-interface GigabitEthernet0/1
exit
exit
ips-2800-1#
<<< Log from 10.201.1.242 ended February 10, 2009, 20:56:38 >>>

```

Switch Catalyst 3750

```

He4-3750-5
he4-3750-5#sh run
Building configuration...

Current configuration : 29381 bytes
!
! Last configuration change at 12:33:10 UTC Fri May 29 2009 by sherelle-admin
! NVRAM config last updated at 12:33:12 UTC Fri May 29 2009 by sherelle-admin
!
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
!
hostname he4-3750-5
!
logging buffered 65535 debugging
logging rate-limit all 10
no logging console
enable secret <strong-secret>
!
username csmars privilege 15 secret <strong-secret>
username admin privilege 15 secret <strong-secret>
aaa new-model
aaa group server tacacs+ Admin-TAC+
    server <AAA-Server-IP>
!
aaa authentication login AuthenExec group Admin-TAC+ local-case
aaa authentication enable default group Admin-TAC+ enable
aaa authorization console
aaa authorization exec AuthorExec group Admin-TAC+ if-authenticated
aaa authorization commands 15 default group Admin-TAC+ if-authenticated
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group Admin-TAC+
aaa accounting commands 15 default start-stop group Admin-TAC+
aaa accounting system default start-stop group Admin-TAC+

```

```

!
aaa session-id common
switch 1 provision ws-c3750-24p
system mtu routing 1500
vtp domain ESE-Branch-WAN
vtp mode transparent
ip subnet-zero
no ip source-route
ip routing
ip domain-name cisco.com
!
ip dhcp snooping vlan 10,20
no ip dhcp snooping information option
ip dhcp snooping
ip tftp source-interface Vlan201
ip ssh time-out 60
ip ssh authentication-retries 2
ip arp inspection vlan 10,20
ip arp inspection filter staticIP vlan 10,20
login block-for 100 attempts 5 within 50
login delay 1
login quiet-mode access-class 10
login on-failure log
!
mls qos map policed-dscp 0 10 16 18 24 34 to 8
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 buffers 70 30
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input cos-map queue 1 threshold 2 3
mls qos srr-queue input cos-map queue 1 threshold 3 6 7
mls qos srr-queue input cos-map queue 2 threshold 1 4
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 1 32
mls qos srr-queue output cos-map queue 1 threshold 3 4 5
mls qos srr-queue output cos-map queue 2 threshold 1 2
mls qos srr-queue output cos-map queue 2 threshold 2 3
mls qos srr-queue output cos-map queue 2 threshold 3 6 7
mls qos srr-queue output cos-map queue 3 threshold 3 0
mls qos srr-queue output cos-map queue 4 threshold 3 1
mls qos srr-queue output dscp-map queue 1 threshold 3 32 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
!
!
!
macro name unused-port
switchport access vlan 2000
shutdown
no cdp enable
@
macro name access-port
switchport access vlan 10
switchport mode access
switchport voice vlan 20

```



```

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 2
switchport port-security violation restrict
switchport port-security aging type inactivity
switchport port-security mac-address sticky
ip arp inspection limit rate 100
load-interval 60
duplex full
priority-queue out
no snmp trap link-status
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
spanning-tree guard root
service-policy input IPPHONE+PC-ADVANCED
ip verify source
ip dhcp snooping limit rate 15
@
!
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause arp-inspection
errdisable recovery interval 120
memory reserve critical 1000
memory free low-watermark processor 8117
memory free low-watermark IO 1257
no file verify auto
!
spanning-tree mode rapid-pvst
spanning-tree portfast bpduguard default
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 10
    name DATA
!
vlan 15
    name CUE
!
vlan 20
    name VOICE
!
vlan 201
    name Mgmt
!
vlan 2000
    name Unused
!
class-map match-all DVLAN-TRANSACTIONAL-DATA
    match access-group name DVLAN-TRANSACTIONAL-DATA
class-map match-all DVLAN-PC-VIDEO
    match access-group name DVLAN-PC-VIDEO
class-map match-all VVLAN-CALL-SIGNALING
    match access-group name VVLAN-CALL-SIGNALING
class-map match-all VVLAN-VOICE
    match access-group name VVLAN-VOICE
class-map match-all VVLAN-ANY
    match access-group name VVLAN-ANY
class-map match-all DVLAN-BULK-DATA

```

```

    match access-group name DVLAN-BULK-DATA
class-map match-all DVLAN-NETWORK-CONTROL-DATA
    match access-group name DVLAN-NETWORK-CONTROL-DATA
!
!
policy-map IPPHONE+PC-ADVANCED
    class VVLAN-VOICE
        set dscp ef
        police 128000 8000 exceed-action drop
    class VVLAN-CALL-SIGNALING
        set dscp cs3
        police 32000 8000 exceed-action policed-dscp-transmit
    class VVLAN-ANY
        set dscp default
        police 32000 8000 exceed-action policed-dscp-transmit
    class DVLAN-PC-VIDEO
        set dscp af41
        police 496000 8000 exceed-action policed-dscp-transmit
    class DVLAN-NETWORK-CONTROL-DATA
        set dscp cs2
        police 5000000 8000 exceed-action policed-dscp-transmit
    class DVLAN-TRANSACTIONAL-DATA
        set dscp af21
        police 5000000 8000 exceed-action policed-dscp-transmit
    class DVLAN-BULK-DATA
        set dscp af11
        police 5000000 8000 exceed-action policed-dscp-transmit
    class class-default
        set dscp default
        police 5000000 8000 exceed-action policed-dscp-transmit
!
!
!
interface FastEthernet1/0/1
    switchport access vlan 2000
    shutdown
    macro description unused-port
    no cdp enable
!
interface FastEthernet1/0/2
    switchport access vlan 10
    switchport mode access
    switchport voice vlan 20
    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 2
    switchport port-security violation restrict
    switchport port-security aging type inactivity
    switchport port-security mac-address sticky
    switchport port-security mac-address sticky 0021.5a6d.1ef4
    ip arp inspection limit rate 100
    load-interval 60
    duplex full
    priority-queue out
    no snmp trap link-status
    macro description access-port
    storm-control broadcast level pps 1k
    storm-control multicast level pps 2k
    storm-control action trap
    spanning-tree portfast
    spanning-tree bpduguard enable
    spanning-tree guard root

```

```

service-policy input IPPHONE+PC-ADVANCED
ip verify source
ip dhcp snooping limit rate 15
!
interface FastEthernet1/0/3
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/4
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/5
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/6
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/7
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/8
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/9
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/10
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/11
switchport access vlan 10
switchport mode access
switchport voice vlan 20
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 1
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100

```

```

load-interval 60
priority-queue out
no snmp trap link-status
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
spanning-tree guard root
service-policy input IPPHONE+PC-ADVANCED
ip verify source
ip dhcp snooping limit rate 15
!
interface FastEthernet1/0/12
switchport access vlan 10
switchport mode access
switchport voice vlan 20
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 1
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
load-interval 60
priority-queue out
no snmp trap link-status
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
spanning-tree guard root
service-policy input IPPHONE+PC-ADVANCED
ip verify source
ip dhcp snooping limit rate 15
!
interface FastEthernet1/0/13
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/14
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/15
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/16
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/17
switchport access vlan 2000

```

```

shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/18
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/19
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/20
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/21
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/22
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/23
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface FastEthernet1/0/24
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/1
description Trunk to ISR
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 10,20,201
switchport mode trunk
ip arp inspection trust
load-interval 60
priority-queue out
mls qos trust dscp
ip dhcp snooping limit rate 15
ip dhcp snooping trust
!
interface GigabitEthernet1/0/2
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!

```

```

interface Vlan1
  no ip address
  load-interval 60
!
interface Vlan10
  no ip address
  load-interval 60
!
interface Vlan201
  ip address 10.201.1.4 255.255.255.240
  load-interval 60
!
ip classless
ip route 0.0.0.0 0.0.0.0 10.201.1.1
no ip http server
no ip http secure-server
!
ip tacacs source-interface Vlan201
!
ip access-list extended DVLAN-BULK-DATA
  permit tcp any any eq 143
  permit tcp any any eq 220
  permit tcp any any eq ftp
  permit tcp any any eq ftp-data
  permit tcp any any eq pop3
ip access-list extended DVLAN-NETWORK-CONTROL-DATA
  permit ip 10.201.1.0 0.0.0.255 any
ip access-list extended DVLAN-PC-VIDEO
  permit udp any any range 16384 32767
ip access-list extended DVLAN-TRANSACTIONAL-DATA
  permit tcp any any eq 1352
  permit tcp any any range 3200 3203
  permit tcp any any eq 3600
  permit tcp any any range 2000 2002
ip access-list extended VVLAN-ANY
  permit ip 10.200.1.0 0.0.0.127 any
ip access-list extended VVLAN-CALL-SIGNALING
  permit tcp 10.200.1.0 0.0.0.127 any range 2000 2002
ip access-list extended VVLAN-VOICE
  permit udp 10.200.1.0 0.0.0.127 any range 16384 32767
!
logging trap warnings
logging source-interface Vlan201
logging <CS-MARS-IP>
access-list 10 remark Last Resort Host
access-list 10 permit 10.242.50.95
access-list 55 remark ACL for SNMP access to device
access-list 55 permit <CS-MARS-IP>
access-list 55 deny any log
access-list 111 remark SSH Access
access-list 111 permit tcp 10.242.50.0 0.0.0.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL to Reserve Last SSH Port
access-list 112 permit tcp host 10.242.50.95 any eq 22
access-list 112 deny ip any any log-input
!
arp access-list staticIP
  permit ip host 10.200.1.1 mac host 0015.622e.8c88
  permit ip host 10.200.1.129 mac host 0015.622e.8c88
snmp-server community <strong-community> RO 55
snmp-server enable traps cpu threshold
snmp-server enable traps port-security trap-rate 10
snmp-server enable traps envmon fan shutdown supply temperature status
snmp-server enable traps license

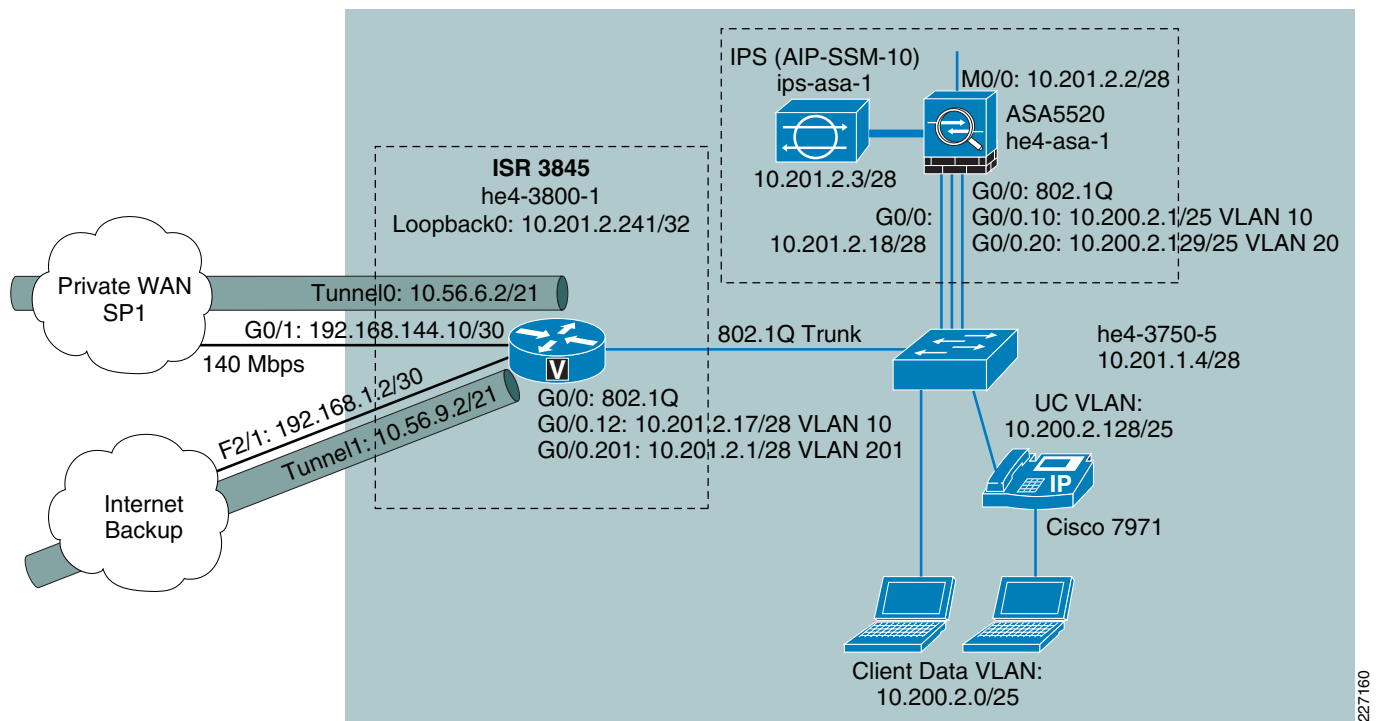
```

```

snmp-server host <CS-MARS-IP> <strong-community> cpu port-security envmon storm-control
tacacs-server host <AAA-Server-IP> single-connection key <strong-key>
tacacs-server timeout 1
no tacacs-server directed-request
radius-server source-ports 1645-1646
!
control-plane
!
banner exec ^C EXEC Banner ^C
banner login ^C Login Banner ^C
banner motd ^C MOTD Banner ^C
!
line con 0
  session-timeout 3
  exec-timeout 3 0
  authorization exec AuthorExec
  login authentication AuthenExec
  transport preferred none
  transport output none
  speed 115200
line vty 0 3
  session-timeout 3
  access-class 111 in
  exec-timeout 3 0
  password <strong-password>
  authorization exec AuthorExec
  login authentication AuthenExec
  transport preferred none
  transport input ssh
  transport output none
line vty 4
  session-timeout 3
  access-class 112 in
  exec-timeout 3 0
  password <strong-password>
  authorization exec AuthorExec
  login authentication AuthenExec
  transport preferred none
  transport input ssh
  transport output none
line vty 5 15
  no exec
!
process cpu threshold type total rising 65 interval 5
process cpu statistics limit entry-percentage 40 size 300
ntp authentication-key 10 md5 <strong-key>
ntp authenticate
ntp trusted-key 10
ntp clock-period 36028613
ntp source Vlan201
ntp server 10.56.0.1 key 10
end

```

Figure 8 Enterprise High-Speed Branch Network Diagram



Integrated Services Router

```

He4-3800-1
he4-3800-1#sh run
Building configuration...

Current configuration : 19480 bytes
!
! Last configuration change at 14:33:31 UTC Thu May 28 2009 by sherelle-admin
! NVRAM config last updated at 14:33:40 UTC Thu May 28 2009 by sherelle-admin
!
version 12.4
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
!
hostname he4-3800-1
!
boot-start-marker
boot-end-marker
!
logging message-counter syslog
logging buffered 4096
logging rate-limit all 10
no logging console
enable secret <strong-secret>
!
aaa new-model

```



```

!
!
aaa group server tacacs+ Admin-TAC+
  server 10.242.50.94
  ip tacacs source-interface Loopback0
!
aaa authentication login AuthenExec group Admin-TAC+ local-case
aaa authentication enable default group Admin-TAC+ enable
aaa authorization console
aaa authorization exec AuthorExec group Admin-TAC+ if-authenticated
aaa authorization commands 15 default group Admin-TAC+ if-authenticated
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group Admin-TAC+
aaa accounting commands 15 default start-stop group Admin-TAC+
aaa accounting system default start-stop group Admin-TAC+
!
!
aaa session-id common
memory-size iomem 10
no network-clock-participate slot 2
!
dot11 syslog
no ip source-route
ip cef
!
!
no ip dhcp use vrf connected
ip dhcp excluded-address 10.200.2.1
ip dhcp excluded-address 10.200.2.129
!
ip dhcp pool DATA
  network 10.200.2.0 255.255.255.128
  default-router 10.200.2.1
  domain-name cisco.com
  dns-server <DNS-1>
!
ip dhcp pool VOICE
  network 10.200.2.128 255.255.255.128
  domain-name cisco.com
  default-router 10.200.2.129
  dns-server <DNS-1>
  option 150 ip 10.201.2.17
!
!
no ip bootp server
no ip domain lookup
ip domain name cisco.com
ip host b-subca <Sub-CA-B-IP>
ip host a-subca <Sub-CA-A-IP>
login block-for 100 attempts 5 within 50
login delay 1
login quiet-mode access-class 10
login on-failure log
no ipv6 cef
!
multilink bundle-name authenticated
!
!
!
!
key chain eigrp-auth
  key 10
    key-string <strong-key>
voice-card 0

```

```
no dspfarm
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
crypto pki trustpoint a-subca
    enrollment url http://a-subca:12345
    revocation-check none
    auto-enroll 70 regenerate
!
!
crypto pki certificate chain a-subca
certificate 06
 308201FC 30820165 A0030201 02020106 300D0609 2A864886 F70D0101 04050030
12311030 0E060355 04031307 612D7375 62636130 1E170D30 39303330 36313635
3733355A 170D3132 30333035 31353138 31355A30 25312330 2106092A 864886F7
0D010902 16146865 342D3338 30302D31 2E636973 636F2E63 6F6D3081 9F300D06
092A8648 86F70D01 01010500 03818D00 30818902 818100C5 755263A5 307C7858
5F8BF87B EF2AE15B F1001928 F1BF4609 78DF5AC6 57ED68E7 79D2A8F8 907B590C
D5D5EF39 26AFF5BE 269AE8CA 89A4DBEA 16D2D36B 6E1D4BBB 8AEC1789 6FF3E278
985986A2 AB33D1E6 368FA49F 13CC248C B6BC73F8 ED5B2570 725FBD9B CBD1632F
1CC2EF2E 249E1CC6 5BCE20B8 052F6F56 DD337F07 046D2102 03010001 A34F304D
300B0603 551D0F04 04030205 A0301F06 03551D23 04183016 8014B905 2A3DFD58
6A41C4F7 2CB07891 9FFDF860 CD7A301D 0603551D 0E041604 14789EDB F8B781E6
AC13DF6D 3855063F 17EDD381 2A300D06 092A8648 86F70D01 01040500 03818100
1EDFC90D 51BB5EC2 15B90C03 6BA16444 7C2CE464 698EB3CC 0A191E71 AD6C2251
0F1C4A7C BC767F41 C9A4EAE7 A6C6CC9A 2CCC3E6E 143DD1DF FCE6DF07 37481CF3
7FC3F532 6846ECF9 8A8F9FD4 55940340 5F92D8A8 FAC0CC74 73446DA9 8DADA8D8
5E79FDD9 4BF94846 49A6F8FE 6A97F216 A34D4E59 8F28EDF9 99664CD5 17F02A65
quit
certificate ca 06
3082023D 308201A6 A0030201 02020106 300D0609 2A864886 F70D0101 04050030
12311030 0E060355 04031307 726F6F74 2D636130 1E170D30 39303330 36313531
3831355A 170D3132 30333035 31353138 31355A30 12311030 0E060355 04031307
612D7375 62636130 819F300D 06092A86 4886F70D 01010105 0003818D 00308189
02818100 B1B50AFC EBF7AA1F AC357241 B19557E7 51AF1FD3 C3C3FFCD 8D7649D9
37F14D98 8E00522A 2EDC1E20 3573EF8F E247FBC1 D886492C 13A10F56 0752DFA2
97BF5AB4 0B895B2B 39406CD7 960AD8ED 2984C640 F07951DD B719BD55 E102F558
B914E4C2 B870DED2 4B3AD1CB 5950533B 59286F8D 75F5224B 502A2752 06FA4D27
23C7B4FD 02030100 01A381A2 30819F30 3F060355 1D1F0438 30363034 A032A030
862E6874 74703A2F 2F313732 2E32362E 3138302E 31302F73 6F6C7574 696F6E73
2F76706E 2F726F6F 742D6361 2E63726C 300F0603 551D1301 01FF0405 30030101
FF300B06 03551D0F 04040302 0780301F 0603551D 23041830 168014F9 401E5590
5FE7B694 B778040C BFC8D53C 5A52FB30 1D060355 1D0E0416 0414B905 2A3DFD58
6A41C4F7 2CB07891 9FFDF860 CD7A300D 06092A86 4886F70D 01010405 00038181
001E6FAF D365A1B6 B50F36B5 91B64B40 9CA2B106 791BA8BC B226AD43 D8B063F2
F6974216 2C046899 AA855258 4698F9E5 7A63ECC0 7C9F0571 AD46EB20 F5C39CF5
F128964F B3E47ADE 00B9D82D C461F392 BCF6371B 4F384E60 3C325181 8243548A
48F99471 8DF2201A 7413969F BCF22EB6 E6BB66C0 DF7264FA C1D03F96 F4A0DF53 99
quit
```

```

!
!
memory reserve critical 1000
memory free low-watermark processor 83875
memory free low-watermark IO 10695
username admin privilege 15 secret <strong-secret>
username csmars privilege 15 secret <strong-secret>
archive
  log config
  hidekeys
!
!
crypto isakmp policy 10
  encr aes 256
  group 2
crypto isakmp keepalive 10
!
!
crypto ipsec transform-set vpn-test esp-aes esp-sha-hmac
no crypto ipsec nat-transparency udp-encaps
!
crypto ipsec profile vpn-dmvpn
  set transform-set vpn-test
!
!
!
!
ip tcp path-mtu-discovery
ip ftp source-interface Loopback0
ip tftp source-interface Loopback0
ip ssh time-out 60
ip ssh authentication-retries 2
!
class-map match-all Bulk-Data
  match ip dscp af11 af12
class-map match-all Interactive-Video
  match ip dscp af41 af42
class-map match-any Network-Control
  match ip dscp cs6
  match ip dscp cs2
class-map match-all Critical-Data
  match ip dscp af21 af22
class-map match-any Call-Signaling
  match ip dscp cs3
  match ip dscp af31
class-map match-all Voice
  match ip dscp ef
class-map match-all Scavenger
  match ip dscp cs1
!
!
policy-map WAN-Edge-QoS
  class Voice
    priority percent 18
  class Interactive-Video
    priority percent 15
  class Call-Signaling
    bandwidth percent 5
  class Network-Control
    bandwidth percent 5
  class Critical-Data
    bandwidth percent 27
    random-detect dscp-based
  class Bulk-Data

```

```

        bandwidth percent 4
        random-detect dscp-based
class Scavenger
    bandwidth percent 1
class class-default
    bandwidth percent 25
    random-detect
!
!
!
!
!
interface Loopback0
ip address 10.201.2.241 255.255.255.255
no ip proxy-arp
load-interval 60
!
interface Tunnel0
description Private WAN Tunnel
bandwidth 1536
ip address 10.56.6.2 255.255.248.0
ip flow ingress
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
ip nhrp authentication <strong-key>
ip nhrp map multicast 192.168.34.1
ip nhrp map 10.56.0.1 192.168.34.1
ip nhrp network-id 105600
ip nhrp holdtime 600
ip nhrp nhs 10.56.0.1
ip summary-address eigrp 1 10.201.2.0 255.255.255.0 5
ip summary-address eigrp 1 10.200.2.0 255.255.255.0 5
load-interval 60
qos pre-classify
tunnel source 192.168.144.10
tunnel destination 192.168.34.1
tunnel key 105600
tunnel protection ipsec profile vpn-dmvpn
!
interface Tunnel1
description Internet Tunnel
bandwidth 1536
ip address 10.56.9.2 255.255.248.0
ip mtu 1400
ip flow ingress
ip authentication mode eigrp 1 md5
ip authentication key-chain eigrp 1 eigrp-auth
ip nhrp authentication <strong-key>
ip nhrp map multicast 192.168.34.1
ip nhrp map 10.56.8.1 192.168.34.1
ip nhrp network-id 105600
ip nhrp holdtime 600
ip nhrp nhs 10.56.8.1
ip summary-address eigrp 1 10.201.2.0 255.255.255.0 5
ip summary-address eigrp 1 10.200.2.0 255.255.255.0 5
load-interval 60
qos pre-classify
tunnel source 192.168.1.2
tunnel destination 192.168.34.1
tunnel key 105600
tunnel protection ipsec profile vpn-dmvpn
!
interface GigabitEthernet0/0
description Branch Network

```

```

no ip address
no ip proxy-arp
logging event subif-link-status ignore-bulk
load-interval 60
duplex auto
speed auto
media-type rj45
no mop enabled
!
interface GigabitEthernet0/0.12
description Client VLAN to ASA
encapsulation dot1Q 12
ip address 10.201.2.17 255.255.255.240
no ip proxy-arp
!
interface GigabitEthernet0/0.201
description Mgmt VLAN
encapsulation dot1Q 201
ip address 10.201.2.1 255.255.255.240
no ip proxy-arp
!
interface GigabitEthernet0/1
description Private WAN
ip address 192.168.144.10 255.255.255.248
ip access-group 120 in
ip verify unicast source reachable-via rx
no ip redirects
no ip proxy-arp
load-interval 60
duplex auto
speed auto
media-type rj45
snmp trap ip verify drop-rate
no cdp enable
no mop enabled
service-policy output WAN-Edge-QoS
!
interface Integrated-Service-Engine1/0
no ip address
load-interval 60
shutdown
no keepalive
no cdp enable
!
interface FastEthernet2/0
load-interval 60
shutdown
no cdp enable
!
interface FastEthernet2/1
description Internet WAN
ip address 192.168.1.2 255.255.255.252
ip access-group 121 in
ip verify unicast source reachable-via rx
no ip redirects
no ip proxy-arp
load-interval 60
duplex auto
speed auto
snmp trap ip verify drop-rate
no cdp enable
service-policy output WAN-Edge-QoS
!
interface Integrated-Service-Engine3/0

```

```

no ip address
load-interval 60
shutdown
no keepalive
no cdp enable
!
router eigrp 1
 redistribute static route-map toASA
 passive-interface default
 no passive-interface Tunnel0
 no passive-interface Tunnel1
 network 10.0.0.0
 no auto-summary
 eigrp stub connected summary
!
router eigrp 100
 passive-interface default
 no passive-interface GigabitEthernet0/1
 no passive-interface FastEthernet2/1
 network 192.168.0.0 0.0.255.255
 no auto-summary
 eigrp stub receive-only
!
ip forward-protocol nd
ip route 10.200.2.0 255.255.255.128 10.201.2.18
ip route 10.200.2.128 255.255.255.128 10.201.2.18
ip route 10.201.2.0 255.255.255.128 10.201.2.18
ip route 10.201.2.128 255.255.255.128 10.201.2.18
ip http server
ip http access-class 5
ip http authentication aaa login-authentication AuthenExec
ip http authentication aaa exec-authorization AuthorExec
ip http secure-server
ip http path flash
!
!
ip tacacs source-interface Loopback0
!
!
!
ip prefix-list toASA seq 5 permit 10.200.2.0/25
ip prefix-list toASA seq 10 permit 10.200.2.128/25
logging trap critical
logging source-interface Loopback0
logging 10.242.50.99
access-list 5 permit 10.242.50.95
access-list 5 remark CSM Access ACL
access-list 5 permit 10.116.75.0 0.0.0.255
access-list 10 remark Last Resort Host
access-list 10 permit 10.242.50.94
access-list 55 remark ACL for SNMP RO Access
access-list 55 permit 10.242.50.99
access-list 55 deny any log
access-list 111 remark SSH Access
access-list 111 permit tcp 10.242.50.0 0.0.0.255 any eq 22
access-list 111 permit tcp 10.116.75.0 0.0.0.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL to Reserve Last SSH Port
access-list 112 permit tcp host 10.242.50.95 any eq 22
access-list 112 deny ip any any log-input
access-list 120 remark SP WAN Edge ACL
access-list 120 remark deny Fragments
access-list 120 deny tcp any any log fragments
access-list 120 deny udp any any log fragments

```

```

access-list 120 deny icmp any any log fragments
access-list 120 remark deny Incoming with Source=Internal
access-list 120 deny ip 10.0.0.0 0.255.255.255 any
access-list 120 remark deny RFC 3330 Special-Use Addresses
access-list 120 deny ip host 0.0.0.0 any
access-list 120 deny ip 127.0.0.0 0.255.255.255 any
access-list 120 deny ip 192.0.2.0 0.0.0.255 any
access-list 120 deny ip 224.0.0.0 31.255.255.255 any
access-list 120 remark deny RFC 1918 Reserved Addresses
access-list 120 remark 10.0.0.0/8 and 192.168.0.0/16 omitted as being used in te
stbed
access-list 120 deny ip 172.16.0.0 0.15.255.255 any
access-list 120 remark permit Incoming EIGRP from SP Neighbors
access-list 120 permit eigrp host 192.168.144.9 host 224.0.0.10
access-list 120 permit eigrp host 192.168.144.9 host 192.168.144.10
access-list 120 remark permit Ping & Traceroute
access-list 120 permit icmp any host 192.168.144.10 ttl-exceeded
access-list 120 permit icmp any host 192.168.144.10 port-unreachable
access-list 120 permit icmp any host 192.168.144.10 echo-reply
access-list 120 permit icmp any host 192.168.144.10 echo
access-list 120 remark permit DMVPN with HQ
access-list 120 permit udp host 192.168.34.1 host 192.168.144.10 eq isakmp
access-list 120 permit esp host 192.168.34.1 host 192.168.144.10
access-list 120 permit tcp host 192.168.168.226 eq 12345 host 192.168.144.10
access-list 120 deny ip any any
access-list 121 remark SP WAN Edge ACL - Internet
access-list 121 remark deny Fragments
access-list 121 deny tcp any any log fragments
access-list 121 deny udp any any log fragments
access-list 121 deny icmp any any log fragments
access-list 121 remark deny Incoming with Source=Internal
access-list 121 deny ip 10.0.0.0 0.255.255.255 any
access-list 121 remark deny RFC 3330 Special-Use Addresses
access-list 121 deny ip host 0.0.0.0 any
access-list 121 deny ip 127.0.0.0 0.255.255.255 any
access-list 121 deny ip 192.0.2.0 0.0.0.255 any
access-list 121 deny ip 224.0.0.0 31.255.255.255 any
access-list 121 remark deny RFC 1918 Reserved Addresses
access-list 121 remark 10.0.0.0/8 and 192.168.0.0/16 omitted as used in testbed
access-list 121 deny ip 172.16.0.0 0.15.255.255 any
access-list 121 remark permit Incoming EIGRP from SP Neighbors
access-list 121 permit eigrp host 192.168.1.1 host 224.0.0.10
access-list 121 permit eigrp host 192.168.1.1 host 192.168.1.2
access-list 121 remark permit Ping & Traceroute
access-list 121 permit icmp any host 192.168.1.2 ttl-exceeded
access-list 121 permit icmp any host 192.168.1.2 port-unreachable
access-list 121 permit icmp any host 192.168.1.2 echo-reply
access-list 121 permit icmp any host 192.168.1.2 echo
access-list 121 remark permit DMVPN with HQ
access-list 121 permit udp host 192.168.34.1 host 192.168.1.2 eq isakmp
access-list 121 permit esp host 192.168.34.1 host 192.168.1.2
access-list 121 remark permit PKI CA
access-list 121 permit tcp host 192.168.168.226 eq www host 192.168.1.2
access-list 121 deny ip any any
!
snmp-server community <strong-community> RO 55
snmp-server enable traps envmon
snmp-server enable traps authenticate-fail
snmp-server enable traps cpu threshold
snmp-server host 10.242.50.99 <strong-community> envmon authenticate-fail memory cpu
!
!
!
!

```

```

route-map toASA permit 10
  match ip address prefix-list toASA
!
!
!
tacacs-server host 10.242.50.94 key <strong-key>
tacacs-server timeout 1
!
control-plane
!
!
!
!
!
!
!
!
!
!
telephony-service
  max-ephones 36
  max-dn 48
  ip source-address 10.201.2.17 port 2000
  auto assign 1 to 1
  auto assign 1 to 5
  system message ESE CME
  voicemail 2600
  max-conferences 12 gain -6
  web admin system name Admin secret <strong-secret>
  dn-webedit
  time-webedit
  transfer-system full-consult
  server-security-mode non-secure
  create cnf-files version-stamp 7960 Mar 27 2009 18:42:32
!
!
ephone-dn 1 dual-line
  number 2500
  label Eastwood
  name Clint
  call-forward busy 2600
  call-forward noan 2600 timeout 18
!
!
ephone-dn 2 dual-line
  number 2501
  label Harry
  name Dirty
  call-forward busy 2600
  call-forward noan 2600 timeout 18
!
!
ephone 1
  no phone-ui speeddial-fastdial
  no multicast-moh
  device-security-mode none
  mac-address <MAC>
  keepalive 30 auxiliary 0
  codec g729r8 pre-ietf
  type 7942
  button 1:1
!
!
!
```



```

ephone 2
  no phone-ui speeddial-fastdial
  no multicast-moh
  device-security-mode none
  mac-address 0023.331A.F6F4
  type 7942
  button 1:2
!
!
banner exec ^C EXEC Banner ^C
banner login ^C Login Banner ^C
banner motd ^C MOTD Banner ^C
!
line con 0
  session-timeout 3
  exec-timeout 3 0
  password <strong-password>
  authorization exec AuthorExec
  login authentication AuthenExec
  transport preferred none
  transport output none
line aux 0
  no exec
line 66
  session-timeout 3
  exec-timeout 3 0
  no activation-character
  no exec
  transport preferred none
  transport input all
  transport output none
line 194
  session-timeout 3
  exec-timeout 3 0
  no activation-character
  no exec
  transport preferred none
  transport input all
  transport output none
line vty 0 3
  session-timeout 3
  access-class 111 in
  exec-timeout 3 0
  password <strong-password>
  authorization exec AuthorExec
  login authentication AuthenExec
  transport preferred none
  transport input ssh
  transport output none
line vty 4
  session-timeout 3
  access-class 112 in
  exec-timeout 3 0
  password <strong-password>
  authorization exec AuthorExec
  login authentication AuthenExec
  transport preferred none
  transport input ssh
  transport output none
line vty 5
  no exec
!
scheduler allocate 20000 1000
process cpu threshold type total rising 65 interval 5

```

```

process cpu statistics limit entry-percentage 40 size 300
ntp authentication-key 10 md5 <strong-key>
ntp authenticate
ntp trusted-key 10
ntp source Loopback0
ntp update-calendar
ntp server 10.56.0.1 key 10
end

```

Firewall ASA 5520

```

He4-asa-1
he4-asa-1# sh run
: Saved
:
ASA Version 8.0(3)
!
hostname he4-asa-1
domain-name cisco.com
enable password <strong-secret> encrypted
names
name 10.201.2.17 UC-TFTP-Server
dns-guard
!
interface GigabitEthernet0/0
 nameif Uplink
 security-level 100
 ip address 10.201.2.18 255.255.255.240
!
interface GigabitEthernet0/1
 no nameif
 no security-level
 no ip address
!
interface GigabitEthernet0/1.10
 vlan 10
 nameif DATA
 security-level 50
 ip address 10.200.2.1 255.255.255.128
!
interface GigabitEthernet0/1.20
 vlan 20
 nameif VOICE
 security-level 50
 ip address 10.200.2.129 255.255.255.128
!
interface GigabitEthernet0/2
 shutdown
 no nameif
 no security-level
 no ip address
!
interface GigabitEthernet0/3
 shutdown
 no nameif
 no security-level
 no ip address
!
interface Management0/0
 nameif Mgmt

```

```

security-level 100
ip address 10.201.2.2 255.255.255.240
!
passwd <strong-secret> encrypted
banner exec EXEC Banner
banner login Login Banner
banner motd MOTD Banner
banner asdm ASDM Banner
boot system disk0:/asa803-k8.bin
ftp mode passive
dns server-group DefaultDNS
 domain-name cisco.com
same-security-traffic permit inter-interface
same-security-traffic permit intra-interface
object-group service Custom tcp
 description UC-TFTP-Server
 port-object eq 2000
access-list DATA_access_in extended permit esp any host 10.242.50.1
access-list DATA_access_in extended permit udp any host 10.242.50.1 eq isakmp
access-list DATA_access_in extended permit icmp any any time-exceeded
access-list DATA_access_in extended permit icmp any any unreachable
access-list DATA_access_in extended permit icmp any any echo-reply
access-list DATA_access_in extended permit icmp any any echo
access-list DATA_access_in extended permit tcp any host 10.245.255.250 eq www
access-list DATA_access_in extended deny ip any 10.201.0.0 255.255.0.0
access-list DATA_access_in extended deny ip any 172.26.0.0 255.255.0.0
access-list DATA_access_in extended deny ip any 10.242.0.0 255.255.0.0
access-list DATA_access_in extended deny ip any 10.244.20.0 255.255.255.0
access-list DATA_access_in extended deny ip any 10.244.30.0 255.255.255.0
access-list DATA_access_in extended deny ip any 10.245.0.0 255.255.0.0
access-list DATA_access_in extended deny ip any 10.246.10.0 255.255.255.0
access-list DATA_access_in extended deny ip any 64.104.10.112 255.255.255.252
access-list DATA_access_in extended deny ip any 64.104.10.124 255.255.255.252
access-list DATA_access_in extended deny ip any 64.104.20.0 255.255.255.0
access-list DATA_access_in extended deny ip any 198.133.219.0 255.255.255.0
access-list DATA_access_in extended deny ip any 10.208.0.0 255.255.0.0
access-list DATA_access_in extended deny ip any 10.56.0.0 255.255.0.0
access-list DATA_access_in extended permit ip any any
access-list DATA_access_in extended deny ip any any log debugging
access-list ISR_access_in extended permit ip any 10.200.2.0 255.255.255.0
access-list ISR_access_in extended permit ip any 10.200.2.0 255.255.255.128
access-list ISR_access_in extended permit icmp any 10.200.2.0 255.255.255.128 log
debugging
access-list ISR_access_in extended deny ip any any log debugging
access-list VOICE_access_in extended permit icmp any any time-exceeded
access-list VOICE_access_in extended permit icmp any any unreachable
access-list VOICE_access_in extended permit icmp any any echo-reply
access-list VOICE_access_in extended permit icmp any any echo
access-list VOICE_access_in extended permit tcp any host 10.245.255.250 eq www
access-list VOICE_access_in extended permit tcp 10.200.2.128 255.255.255.128 host
UC-TFTP-Server eq 2000
access-list VOICE_access_in extended deny ip any 10.201.0.0 255.255.0.0
access-list VOICE_access_in extended deny ip any 172.26.0.0 255.255.0.0
access-list VOICE_access_in extended deny ip any 10.242.0.0 255.255.0.0
access-list VOICE_access_in extended deny ip any 10.244.20.0 255.255.255.0
access-list VOICE_access_in extended deny ip any 10.244.30.0 255.255.255.0
access-list VOICE_access_in extended deny ip any 10.245.0.0 255.255.0.0
access-list VOICE_access_in extended deny ip any 10.246.10.0 255.255.255.0
access-list VOICE_access_in extended deny ip any 64.104.10.112 255.255.255.252
access-list VOICE_access_in extended deny ip any 64.104.10.124 255.255.255.252
access-list VOICE_access_in extended deny ip any 64.104.20.0 255.255.255.0
access-list VOICE_access_in extended deny ip any 198.133.219.0 255.255.255.0
access-list VOICE_access_in extended deny ip any 10.208.0.0 255.255.0.0
access-list VOICE_access_in extended deny ip any 10.56.0.0 255.255.0.0

```

```

access-list VOICE_access_in extended permit ip any any
access-list VOICE_access_in extended deny ip any any log debugging
pager lines 24
logging enable
logging timestamp
logging buffered warnings
logging trap warnings
logging asdm warnings
logging host Mgmt 10.242.50.99
no logging message 106015
no logging message 106012
no logging message 103012
logging rate-limit 10 1 level 0
logging rate-limit 10 1 level 1
logging rate-limit 10 1 level 2
logging rate-limit 10 1 level 3
logging rate-limit 10 1 level 4
logging rate-limit 10 1 level 5
logging rate-limit 10 1 level 6
logging rate-limit 10 1 level 7
mtu Uplink 1500
mtu DATA 1500
mtu VOICE 1500
mtu Mgmt 1500
no failover
icmp unreachable rate-limit 1 burst-size 1
asdm image disk0:/asdm-61551.bin
no asdm history enable
arp timeout 14400
access-group ISR_access_in in interface Uplink
access-group DATA_access_in in interface DATA
access-group VOICE_access_in in interface VOICE
route Uplink 0.0.0.0 0.0.0.0 UC-TFTP-Server 1
route Mgmt 10.56.0.0 255.255.0.0 10.201.2.1 1
route Mgmt 10.201.2.241 255.255.255.255 10.201.2.1 1
route Mgmt 10.208.0.0 255.255.0.0 10.201.2.1 1
route Mgmt 10.242.50.0 255.255.255.0 10.201.2.1 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 uauth 0:05:00 absolute
dynamic-access-policy-record DfltAccessPolicy
aaa-server Admin-TAC+ protocol tacacs+
    reactivation-mode timed
aaa-server Admin-TAC+ (Mgmt) host 10.242.50.94
    timeout 1
    key <strong-key>
aaa authentication ssh console Admin-TAC+ LOCAL
aaa authentication telnet console Admin-TAC+ LOCAL
aaa authentication enable console Admin-TAC+ LOCAL
aaa authentication http console Admin-TAC+ LOCAL
aaa authentication serial console Admin-TAC+ LOCAL
aaa authorization command LOCAL
aaa accounting enable console Admin-TAC+
aaa accounting serial console Admin-TAC+
aaa accounting ssh console Admin-TAC+
aaa accounting telnet console Admin-TAC+
aaa accounting command privilege 15 Admin-TAC+
aaa authorization exec authentication-server
http server enable
http 10.242.50.0 255.255.255.0 Mgmt
snmp-server host Mgmt 10.242.50.99 community <strong-community>
no snmp-server location

```

```

no snmp-server contact
snmp-server enable traps snmp authentication linkup linkdown coldstart
snmp-server enable traps remote-access session-threshold-exceeded
sysopt noproxyarp Uplink
sysopt noproxyarp DATA
sysopt noproxyarp VOICE
sysopt noproxyarp Mgmt
telnet timeout 3
ssh scopy enable
ssh 10.242.50.0 255.255.255.0 Mgmt
ssh 10.201.2.0 255.255.255.0 Mgmt
ssh timeout 3
ssh version 2
console timeout 3
dhcprelay server UC-TFTP-Server Uplink
dhcprelay enable DATA
dhcprelay enable VOICE
dhcprelay setroute DATA
dhcprelay setroute VOICE
dhcprelay timeout 60
threat-detection basic-threat
threat-detection statistics access-list
ntp authentication-key 10 md5 <strong-key>
ntp authenticate
ntp trusted-key 10
ntp server 10.56.0.1 key 10 source Mgmt
username csmars password <strong-secret> encrypted privilege 15
username admin password <strong-secret> encrypted privilege 15
!
class-map DATA-class
  match any
!
!
policy-map DATA-policy
  class DATA-class
    ips inline fail-open sensor vs0
!
service-policy DATA-policy interface DATA
prompt hostname context
Cryptochecksum:f8cfc9ba9c08661ba864fe5f800d9150
: end

```

Ips-asa-1

```

<<< Log from 10.201.2.3 started February 17, 2009, 12:42:09 >>>
ips-asa-1# sh conf
! -----
! Current configuration last modified Tue Feb 17 11:38:48 2009
! -----
! Version 6.1(2)
! Host:
!   Realm Keys          key1.0
! Signature Definition:
!   Signature Update    S379.0    2009-01-30
!   Virus Update        V1.4      2007-03-02
! -----
service interface
cdp-mode forward-cdp-packets
exit
! -----
service authentication
attemptLimit 5
exit

```

```

! -----
service event-action-rules rules0
exit
! -----
service host
network-settings
host-ip 10.201.2.3/28,10.201.2.1
host-name ips-asa-1
telnet-option disabled
access-list 10.201.2.0/28
access-list 10.242.50.0/24
login-banner-text <Login Banner>
exit
time-zone-settings
offset 0
standard-time-zone-name UTC
exit
ntp-option enabled
ntp-keys 10 md5-key <strong-key>
ntp-servers 10.56.0.1 key-id 10
exit
exit
! -----
service logger
exit
! -----
service network-access
exit
! -----
service notification
trap-destinations 10.242.50.99
trap-community-name <strong-community>
exit
enable-notifications true
exit
! -----
service signature-definition sig0
exit
! -----
service ssh-known-hosts
exit
! -----
service trusted-certificates
exit
! -----
service web-server
exit
! -----
service anomaly-detection ad0
exit
! -----
service external-product-interface
exit
! -----
service health-monitor
memory-usage-policy
enable true
exit
exit
! -----
service analysis-engine
virtual-sensor vs0
physical-interface GigabitEthernet0/1
exit

```

```

exit
ips-asa-1#
<<< Log from 10.201.2.3 ended February 17, 2009, 12:42:25 >>>

```

Switch Catalyst 3750

```

He4-3750-3
he4-3750-3#sh run
Building configuration...

Current configuration : 27156 bytes
!
! Last configuration change at 14:52:07 UTC Thu May 28 2009 by sherelle-admin
! NVRAM config last updated at 14:52:26 UTC Thu May 28 2009 by sherelle-admin
!
version 12.2
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
!
hostname he4-3750-3
!
logging buffered 65535
logging rate-limit all 10
no logging console
enable secret <strong-secret>
!
username csmars privilege 15 secret <strong-secret>
username admin privilege 15 secret <strong-secret>
aaa new-model
!
!
aaa group server tacacs+ Admin-TAC+
server <AAA-Server-IP>
!
aaa authentication login AuthenExec group Admin-TAC+ local-case
aaa authentication enable default group Admin-TAC+ enable
aaa authorization console
aaa authorization exec AuthorExec group Admin-TAC+ if-authenticated
aaa authorization commands 15 default group Admin-TAC+ if-authenticated
aaa accounting send stop-record authentication failure
aaa accounting exec default start-stop group Admin-TAC+
aaa accounting commands 15 default start-stop group Admin-TAC+
aaa accounting system default start-stop group Admin-TAC+
!
!
!
aaa session-id common
switch 1 provision ws-c3750g-24ps
system mtu routing 1500
vtp domain ESE-Branch-WAN
vtp mode transparent
ip subnet-zero
no ip source-route
ip routing
ip domain-name cisco.com
!
!

```

```

ip dhcp snooping vlan 10,20
no ip dhcp snooping information option
ip dhcp snooping
ip arp inspection vlan 10,20
ip arp inspection filter staticIP vlan 10,20
login block-for 100 attempts 5 within 50
login delay 1
login quiet-mode access-class 10
login on-failure log
!
mls qos map policed-dscp 0 10 16 18 24 34 to 8
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 buffers 70 30
mls qos srr-queue input priority-queue 2 bandwidth 30
mls qos srr-queue input cos-map queue 1 threshold 2 3
mls qos srr-queue input cos-map queue 1 threshold 3 6 7
mls qos srr-queue input cos-map queue 2 threshold 1 4
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 1 32
mls qos srr-queue output cos-map queue 1 threshold 3 4 5
mls qos srr-queue output cos-map queue 2 threshold 1 2
mls qos srr-queue output cos-map queue 2 threshold 2 3
mls qos srr-queue output cos-map queue 2 threshold 3 6 7
mls qos srr-queue output cos-map queue 3 threshold 3 0
mls qos srr-queue output cos-map queue 4 threshold 3 1
mls qos srr-queue output dscp-map queue 1 threshold 3 32 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
!
!
!
!
!
errdisable recovery cause psecure-violation
errdisable recovery cause dhcp-rate-limit
errdisable recovery cause arp-inspection
errdisable recovery interval 120
!
macro name unused-port
switchport access vlan 2000
shutdown
no cdp enable
@
macro name access-port
switchport access vlan 10
switchport mode access
switchport voice vlan 20
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 2
switchport port-security violation restrict
switchport port-security aging type inactivity

```



```

switchport port-security mac-address sticky
ip arp inspection limit rate 100
load-interval 60
duplex full
priority-queue out
no snmp trap link-status
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
spanning-tree guard root
service-policy input IPPHONE+PC-ADVANCED
ip verify source
ip dhcp snooping limit rate 15
@
!
memory reserve critical 1000
memory free low-watermark processor 8127
memory free low-watermark IO 1257
!
spanning-tree mode rapid-pvst
spanning-tree portfast bpduguard default
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
vlan 10
    name DATA
!
vlan 12
    name ClientTrunktoFW
!
vlan 15
    name CUE
!
vlan 20
    name VOICE
!
vlan 201
    name Mgmt
!
vlan 2000
    name Unused
!
ip tftp source-interface Vlan201
ip ssh time-out 60
ip ssh authentication-retries 2
!
class-map match-all DVLAN-TRANSACTIONAL-DATA
    match access-group name DVLAN-TRANSACTIONAL-DATA
class-map match-all DVLAN-PC-VIDEO
    match access-group name DVLAN-PC-VIDEO
class-map match-all VVLAN-CALL-SIGNALING
    match access-group name VVLAN-CALL-SIGNALING
class-map match-all VVLAN-VOICE
    match access-group name VVLAN-VOICE
class-map match-all VVLAN-ANY
    match access-group name VVLAN-ANY
class-map match-all DVLAN-BULK-DATA
    match access-group name DVLAN-BULK-DATA
class-map match-all MANAGEMENT-TRAFFIC
    match access-group name MVLAN
class-map match-all DVLAN-NETWORK-CONTROL-DATA

```

```

match access-group name DVLAN-NETWORK-CONTROL-DATA
!
!
policy-map BRANCH-LAN-EDGE-OUT
class MANAGEMENT-TRAFFIC
  set ip dscp cs2
class class-default
  trust dscp
policy-map IPPHONE+PC-ADVANCED
class VVLAN-VOICE
  set ip dscp ef
  police 128000 8000 exceed-action drop
class VVLAN-CALL-SIGNALING
  set ip dscp cs3
  police 32000 8000 exceed-action policed-dscp-transmit
class VVLAN-ANY
  set ip dscp default
  police 32000 8000 exceed-action policed-dscp-transmit
class DVLAN-PC-VIDEO
  set ip dscp af41
  police 496000 8000 exceed-action policed-dscp-transmit
class DVLAN-NETWORK-CONTROL-DATA
  set ip dscp cs2
  police 5000000 8000 exceed-action policed-dscp-transmit
class DVLAN-TRANSACTIONAL-DATA
  set ip dscp af21
  police 5000000 8000 exceed-action policed-dscp-transmit
class DVLAN-BULK-DATA
  set ip dscp af11
  police 5000000 8000 exceed-action policed-dscp-transmit
class class-default
  set ip dscp default
  police 5000000 8000 exceed-action policed-dscp-transmit
!
!
!
!
interface GigabitEthernet1/0/1
description Trunk to ISR
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 12,201
switchport mode trunk
load-interval 60
priority-queue out
!
interface GigabitEthernet1/0/2
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/3
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/4
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/5

```

```

switchport access vlan 10
switchport mode access
switchport voice vlan 20
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 1
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
load-interval 60
duplex full
priority-queue out
no snmp trap link-status
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
macro description access-port
no cdp enable
spanning-tree portfast
spanning-tree bpduguard enable
spanning-tree guard root
service-policy input IPPHONE+PC-ADVANCED
ip verify source
ip dhcp snooping limit rate 15
!
interface GigabitEthernet1/0/6
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/7
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/8
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/9
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/10
description ASA on Uplink VLAN
switchport access vlan 12
switchport mode access
load-interval 60
duplex full
service-policy input IPPHONE+PC-ADVANCED
!
interface GigabitEthernet1/0/11
description Trunk Client VLANs to ASA
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 10,20
switchport mode trunk

```

```
ip arp inspection trust
load-interval 60
duplex full
mls qos trust dscp
ip dhcp snooping trust
!
interface GigabitEthernet1/0/12
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/13
description ASA on Mgmt VLAN
switchport access vlan 201
load-interval 60
duplex full
service-policy input IPPHONE+PC-ADVANCED
!
interface GigabitEthernet1/0/14
description IPS on Mgmt VLAN
switchport access vlan 201
load-interval 60
duplex full
service-policy input IPPHONE+PC-ADVANCED
!
interface GigabitEthernet1/0/15
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/16
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/17
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/18
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/19
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/20
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/21
switchport access vlan 10
```

```

switchport mode access
switchport voice vlan 20
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 1
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
load-interval 60
duplex full
priority-queue out
no snmp trap link-status
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
spanning-tree guard root
service-policy input IPPHONE+PC-ADVANCED
ip verify source
ip dhcp snooping limit rate 15
!
interface GigabitEthernet1/0/22
switchport access vlan 10
switchport mode access
switchport voice vlan 20
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 1
switchport port-security violation restrict
switchport port-security aging type inactivity
ip arp inspection limit rate 100
load-interval 60
duplex full
priority-queue out
no snmp trap link-status
storm-control broadcast level pps 1k
storm-control multicast level pps 2k
storm-control action trap
spanning-tree portfast
spanning-tree bpduguard enable
spanning-tree guard root
service-policy input IPPHONE+PC-ADVANCED
ip verify source
ip dhcp snooping limit rate 15
!
interface GigabitEthernet1/0/23
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/24
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/25
switchport access vlan 2000

```

```

shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/26
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/27
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface GigabitEthernet1/0/28
switchport access vlan 2000
shutdown
macro description unused-port
no cdp enable
!
interface Vlan1
no ip address
load-interval 60
!
interface Vlan10
no ip address
load-interval 60
!
interface Vlan12
no ip address
load-interval 60
!
interface Vlan20
no ip address
!
interface Vlan201
ip address 10.201.2.4 255.255.255.240
load-interval 60
!
ip classless
ip route 0.0.0.0 0.0.0.0 10.201.2.1
no ip http server
no ip http secure-server
!
ip tacacs source-interface Vlan201
!
ip access-list extended DVLAN-BULK-DATA
permit tcp any any eq 143
permit tcp any any eq 220
permit tcp any any eq ftp
permit tcp any any eq ftp-data
permit tcp any any eq pop3
ip access-list extended DVLAN-NETWORK-CONTROL-DATA
permit ip 10.201.1.0 0.0.0.255 any
ip access-list extended DVLAN-PC-VIDEO
permit udp any any range 16384 32767
ip access-list extended DVLAN-TRANSACTIONAL-DATA
permit tcp any any eq 1352
permit tcp any any range 3200 3203
permit tcp any any eq 3600
permit tcp any any range 2000 2002
ip access-list extended MVLAN

```

```

    permit ip 10.201.2.0 0.0.0.255 any
ip access-list extended VVLAN-ANY
    permit ip 10.200.1.0 0.0.0.127 any
ip access-list extended VVLAN-CALL-SIGNALING
    permit tcp 10.200.1.0 0.0.0.127 any range 2000 2002
ip access-list extended VVLAN-VOICE
    permit udp 10.200.1.0 0.0.0.127 any range 16384 32767
!
logging trap critical
logging source-interface Vlan201
logging <CS-MARS-IP>
access-list 10 remark Last Resort Host
access-list 10 permit 10.242.50.95
access-list 55 remark ACL for SNMP access to device
access-list 55 permit <CS-MARS-IP>
access-list 55 deny any log
access-list 111 remark SSH Access
access-list 111 permit tcp 10.242.50.0 0.0.0.255 any eq 22
access-list 111 deny ip any any log-input
access-list 112 remark ACL to Reserve Last SSH Port
access-list 112 permit tcp host 10.242.50.95 any eq 22
access-list 112 deny ip any any log-input
!
arp access-list staticIP
    permit ip host 10.200.2.1 mac host 0018.1900.426b
    permit ip host 10.200.2.129 mac host 0018.1900.426b
snmp-server community <strong-community> RO 55
snmp-server enable traps cpu threshold
snmp-server enable traps port-security trap-rate 10
snmp-server enable traps envmon fan shutdown supply temperature status
snmp-server host <CS-MARS-IP> <strong-community> cpu port-security envmon storm-control
tacacs-server host <AAA-Server-IP> single-connection key <strong-key>
tacacs-server timeout 1
no tacacs-server directed-request
!
control-plane
!
banner exec ^C EXEC Banner ^C
banner login ^C Login Banner ^C
banner motd ^C MOTD Banner ^C
!
line con 0
    session-timeout 3
    exec-timeout 3 0
    authorization exec AuthorExec
    login authentication AuthenExec
    transport preferred none
    transport output none
line vty 0 3
    session-timeout 3
    access-class 111 in
    exec-timeout 3 0
    password <strong-password>
    authorization exec AuthorExec
    login authentication AuthenExec
    transport preferred none
    transport input ssh
    transport output none
line vty 4
    session-timeout 3
    access-class 112 in
    exec-timeout 3 0
    password <strong-password>
    authorization exec AuthorExec

```

```
login authentication AuthenExec
transport preferred none
transport input ssh
transport output none
line vty 5 15
  no exec
!
process cpu threshold type total rising 65 interval 5
process cpu statistics limit entry-percentage 40 size 300
ntp authentication-key 10 md5 <strong-key>
ntp authenticate
ntp trusted-key 10
ntp clock-period 36029509
ntp source Vlan201
ntp server 10.56.0.1 key 10
end
```