



Secure Router 4134

Engineering

> Avaya Secure Router 4134 with
Silver Peak NX-Series WAN
Optimization Appliances Technical
Configuration Guide

Avaya Data Solutions

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Abstract

This Technical Configuration Guide describes a solution comprised of the Avaya Secure Router 4134 and Silver Peak NX-Series WAN optimization appliances. The test scenario simulates a typical branch deployment of Enterprise WAN routers. For interoperability testing, the Avaya Secure Router 4134 serves as the WAN router and a Silver Peak NX-Series appliance accelerates LAN traffic. This solution provides an effective strategy for cost reduction towards the use of WAN technologies.

Information in this Technical Configuration Guide has been obtained through Avaya Data Solutions interoperability testing and additional technical discussions. Testing was conducted at the Avaya Data Solutions Test Lab.

Acronym Key

Throughout this guide the following acronyms will be used:

ACL	Access control list
AES	Advanced encryption standard
AS	Autonomous system
BGP	Border Gateway Protocol
FEC	Forward error correction
GRE	Generic Routing Encapsulation
IPsec	Internet Protocol Security
LAG	Link aggregation group
NX	Silver Peak WAN acceleration hardware
OSPF	Open Shortest Path First
PBR	Policy-based routing
SLA	Service level agreement
VPN	Virtual private network
WoC	WAN optimization controller

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1	May 2011	1.0	M. Hurley	Initial Draft

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Conventions

This section describes the text, image, and command conventions used in this document.

Symbols



Tip – Highlights a configuration or technical tip.



Note – Highlights important information to the reader.



Warning – Highlights important information about an action that may result in equipment damage, configuration or data loss.

Text

Bold text indicates emphasis.

Italic text in a Courier New font indicates text the user must enter or select in a menu item, button or command:

```
ERS5520-48T# show running-config
```

Output examples from Avaya devices are displayed in a Lucida Console font:

```
ERS5520-48T# show sys-info
```

```
Operation Mode:      Switch
MAC Address:        00-12-83-93-B0-00
PoE Module FW:      6370.4
Reset Count:        83
Last Reset Type:     Management Factory Reset
Power Status:        Primary Power
Autotopology:        Enabled
Pluggable Port 45:   None
Pluggable Port 46:   None
Pluggable Port 47:   None
Pluggable Port 48:   None
Base Unit Selection: Non-base unit using rear-panel switch
sysDescr:            Ethernet Routing Switch 5520-48T-PWR
HW:02               FW:6.0.0.10   SW:v6.2.0.009
Mfg Date:12042004    HW Dev:H/W rev.02
```

Introduction

This Technical Configuration Guide describes a solution comprised of the Avaya Secure Router and the Silver Peak NX-Series WAN Optimization Appliance. This solution provides a feature-rich WAN router solution with the added value of WAN data traffic optimization of normal data rate. The described technology works in the same manner with Secure Router 4134 as well as on Secure Router 2330. This document uses Secure Router 4134 and Silver Peak NX series as the reference.

The following figure shows a front view of the Avaya Secure Router 4134:



Figure 1-1 – Avaya Secure Router 4134

The following figure shows the Silver Peak NX-Series Appliances:

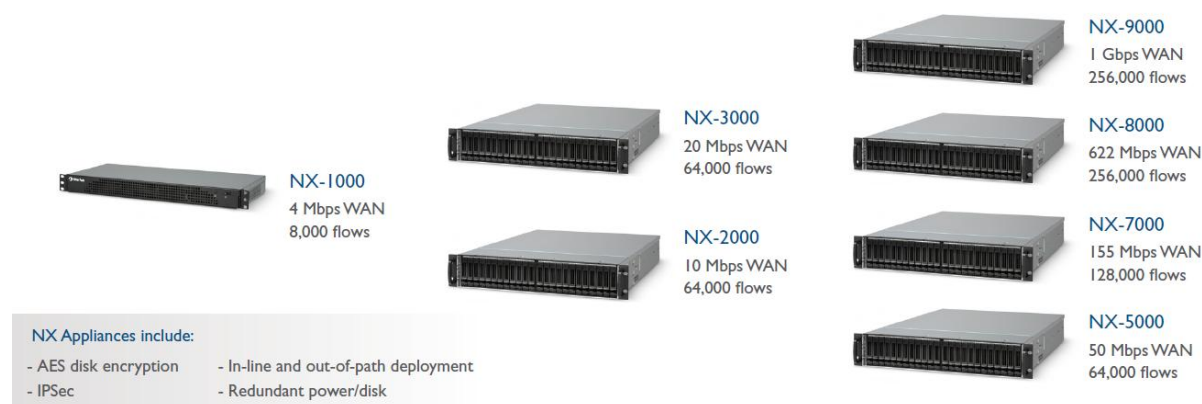


Figure 1-2 – Silver Peak's NX Appliances

Avaya Secure Router 4134 Features

The Secure Router 4134 (SR 4134) provides high-end performance and capacity, and integrates multiple networking functions into a single device.

These functions include:

- IPv4 and IPv6 routing
- Wide Area Networking
- High-density Ethernet switching
- Power over Ethernet
- Voice media gateway
- Application hosting
- Security

The above functions enable businesses to realize the promise of the unified branch. The Secure Router 4134 addresses the routing and connectivity needs of large enterprise branches as well as regional or even headquarter sites.

Connectivity

For connectivity, the Secure Router 4134 supports a wide range of LAN, WAN, voice gateway, and application options for converged branch and remote sites. WAN connectivity options include T1/E1, serial, ISDN, ADSL2+, channelized DS3/T3 and HSSI.

With full IPv4, IPv6, BGP-4, and multicast routing, the Secure Router 4134 supports sophisticated enterprise deployments. It offers integrated Ethernet switching, with support for up to 58 Gigabit Ethernet and 72 Fast Ethernet ports.

Security

To protect your network, the Secure Router 4134 integrates security that includes a stateful packet inspection firewall and high-speed IPsec VPN encryption. This ensures secure connections to the Internet or public IP networks.

Resiliency

To maximize uptime, the Secure Router 4134 includes the following features that deliver maximum reliability and resiliency:

- Hot-swappable modules
- Redundant power
- Port and platform resiliency
- Voice services that continue voice calling when the primary IP connection is lost

Silver Peak NX Appliance Features

The Silver Peak NX appliances provide a robust WAN acceleration solution that addresses the bandwidth, latency, and packet loss issues that are common to most enterprise environments.

Silver Peak's optimization techniques are all performed in real-time and primarily at the network (IP) layer to ensure maximum performance across the widest range of applications and WAN environments.

By using the various WAN acceleration techniques, the NX appliances provide the following tangible business benefits:

- **Improve application performance:** Applications are no longer subject to the bandwidth and latency issues inherent to WANs.
- **Increase employee productivity:** Better application response time makes end users more productive.
- **Reduce server hardware costs:** Branch office servers and storage can be eliminated as infrastructure is centralized within a data center. In addition, enterprises do not have to pay additional facility and environmental costs to house servers at remote facilities.
- **Minimize software licensing costs:** Reducing the amount of application servers can minimize licensing costs in some application pricing models.
- **Decrease WAN expenditures:** When information is localized, less traffic traverses the WAN. This maximizes bandwidth utilization, which minimizes WAN costs.
- **Lower IT support costs:** Server centralization minimizes the need for onsite technical support staff in remote offices and reduces travel costs to these facilities.
- **Maximize security and data protection:** Enterprise data is best protected when servers are placed in a data center with proper security precautions and environmental protections.
- **Facilitate compliance:** IT staff can better audit servers to ensure that they are properly configured in a centralized environment.
- **Improve disaster recovery:** It is easier to enforce server backups and ensure proper data storage and retrieval when branch office infrastructure is centrally controlled and managed.

Benefits	Technology Features
Enterprise Scalability (from remote offices to large data centers)	▪ Not limited by TCP flows ▪ Support 2 Mbps to 1 Gbps of WAN bandwidth capacity
LAN-like Performance (for optimal application delivery across a distributed enterprise)	▪ Information delivered locally when possible - Only deltas traverse the WAN when delivering “similar” data. ▪ Advanced payload and header compression ▪ Latency/loss mitigation, including TCP acceleration, and adaptive FEC ▪ Quality of Service
Complete Application Transparency	▪ No modification required to clients, servers, or network infrastructure ▪ Byte-level visibility works across all applications
Secure Data Protection (within the NX appliance and across the WAN)	▪ Real-time encryption of disk drives using 128-bit AES ▪ IPsec tunneling between Silver Peak appliances
Network Resiliency (maximum application performance with maximum up-time)	▪ NX appliances feature redundant power supplies ▪ Fail-to-wire (in most models) ▪ Redundant deployment options
Manageability (rapid deployment and cost effective operations)	▪ Easy-to-use setup wizard ▪ Intuitive UI for configuration, monitoring, management, and reporting

Reference Configuration

Figure 2.0 shows a sample deployment of Secure Router 4134s with NX appliances within an enterprise network. This topology describes a Head Office/Branch Office configuration where the WAN traffics will be optimized flowing between the 2 sites. For a comprehensive sample configuration of both the Secure Router 4134 and the NX appliance, refer to [Section 5.0](#):

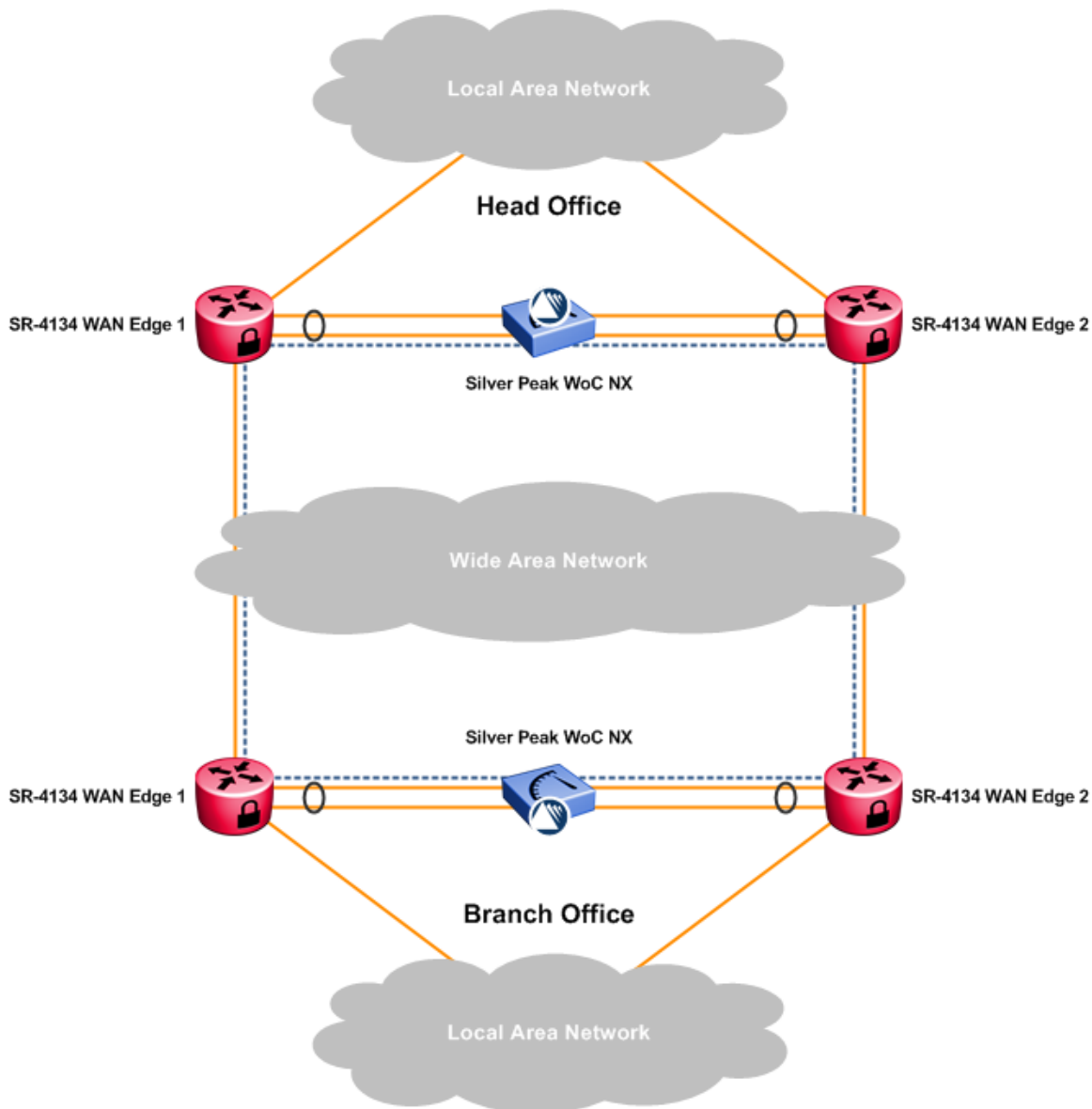


Figure 2.0 – Enterprise Configuration with WAN Optimization

Secure Router 4134 Configuration

Configure SR 4134s as enterprise WAN edge routers in each of the enterprise sites. Use two routers per site to provide network redundancy:

- Configure BGP for multi-homing.
- Connect the Secure Router 4134s to the enterprise network using core switches.
- Use an inter-autonomous system routing protocol like OSPF within the enterprise.
- Configure metrics to ensure that, if one of the edge routers fails, traffic is forwarded using the backup edge router.

NX Appliance Configuration

Configure the NX appliances in **Out-of-Path Mode** and connect it to both edge routers. In an Out-of-Path deployment, the NX appliance is not in the direct path of the network traffic. This ensures that, if one router fails, the traffic getting forwarded and received on the other router is processed for acceleration and optimization.

If a Secure Router 4134 fails, the NX appliance multi-home configuration has the intelligence to choose another Secure Router 4134. Connectivity between the NX appliance and the Secure Router 4134 is via a Link Aggregation Group (LAG) interface to ensure link level redundancy.

NX appliances between multiple sites create tunnel mesh among themselves. Administrators can either create a GRE or IPsec tunnel. All the traffic processed for acceleration is forwarded using this tunnel. Optimized traffic from one site to another site is carried over this tunnel and received at the other end of the tunnel. In this deployment GRE, as the VPN services provided by the ISP, ensures security of the traffic.

Policy-Based Routing Configuration

Policy-Based Routing (PBR) is a network traffic redirection technique used to forward traffic to the NX appliance. PBR is a common technique that redirects flows of traffic using an Access Control List (ACL) and a policy instead of normal routing table lookups. Once PBR is enabled on Secure Router 4134 LAN ingress and WAN ingress, all the traffic which matches the rule will be forwarded to Silver Peak's NX appliance. The NX appliance receives only those packets that have been redirected to it and applies the WAN optimization techniques. The NX appliance has the option of selectively optimizing the traffic sent to it, based on rules defined in its configuration; all other traffic passes through the appliance unmodified.

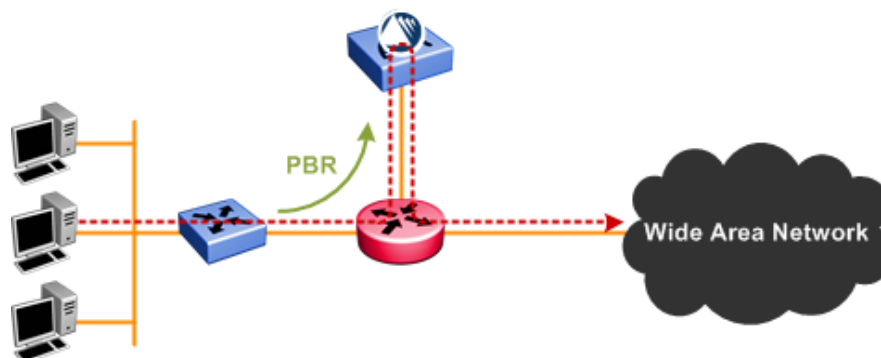


Figure 2.3 – Out-of-Path Deployment with PBR Redirection

With the NX appliance in Out-of-Path mode, the Secure Router 4134 is configured with PBR to send traffic to the NX appliance. The Secure Router 4134's LAN and WAN facing interfaces are configured with PBR so that acceleration-needy traffic is forwarded to the NX appliance. Other packets are forwarded according to the Secure Router 4134's routing table.

If an NX appliance fails, the NX appliance behaves as an open port and does not present a link-level carrier to the Secure Router 4134. The Secure Router 4134 recognizes that the link associated with the PBR is down and resumes forwarding traffic normally according to its routing table.

The Secure Router 4134 uses IP-SLA to track the PBR enabled links. The PBR-Tracker module monitors the NX appliance. If the link between the NX appliance and the Secure Router 4134 fails or the NX appliance fails, the tracker module overrides the PBR rules and falls back to the routing table. This avoids a traffic blackout in the event of failures.

The following policy-map will be applied on the Secure Router 4134 for ingress LAN traffic:

```
#Following configurations define a policy with PBR and apply it onto LAN ingress
qos
    module
# Define policy for the LAN ingress
    policy-map Interface-IN
        ..
# Define a class map for skipping the certain traffic patterns
    class-map WOC-NoRedirect
        match ipv4 dest-address 135.27.101.40/30 protocol tcp
        match ipv4 dest-address 135.27.101.16/30 protocol tcp
        match ipv4 dest-address 135.27.101.24/30 protocol tcp
        ..
        match ipv4 dest-address 135.56.51.104/29 protocol tcp
        match ipv4 dest-address 135.56.51.112/29 protocol tcp
# Skip BGP and telnet packets from getting redirected to WOC
        match ipv4 protocol tcp dest-port 179
        match ipv4 protocol tcp dest-port 23
        exit class-map
    class-map WPBR-LIN-Bangal
# Define traffic patterns which should get redirected
        match ipv4 dest-address 10.19.0.0/16 protocol tcp
        match ipv4 dest-address 10.39.0.0/16 protocol tcp
        match ipv4 dest-address 10.230.0.0/16 protocol tcp
        match ipv4 dest-address 135.64.0.0/16 protocol tcp
        match ipv4 dest-address 135.123.64.0/18 protocol tcp
        match ipv4 dest-address 135.124.0.0/16 protocol tcp
        match ipv4 dest-address 198.152.246.0/17 protocol tcp
```

```

        match ipv4 dest-address 198.152.246.128/26 protocol tcp
        match ipv4 dest-address 198.152.254.0/24 protocol tcp
# Redirect to WoC with IP address 135.56.51.106
        pbr-redirect nexthop 135.56.51.106
# Enable a IPSLA tracker for WoC equipment
        pbr-tracker 20
        exit class-map
    exit policy-map
# LAN ingress
interface ethernet 6/2
    description to coresw1
    ip address 135.27.101.17 255.255.255.252
    qos
        module
# Apply the filtering policy to the LAN ingress
        service-policy input Interface-IN
        exit module
    exit qos
exit ethernet

```

Test Methodology and Results

In order to observe the traffic acceleration and optimization effect of having NX appliances configured in a typical enterprise network, a real time multi-site enterprise network having Secure Router 4134 as WAN edge is considered. The considered network is similar to Section 2, with following considerations

- Secure Router 4134:
 - Each site is multi-homed with two Secure Router 4134 sitting at the edge.
 - Inter AS routing using BGP and intra using OSPF.
 - Two Secure Router 4134s enables node redundancy. One node is chosen as primary entry/exit point. If it fails, configurations and protocols ensure the automatic switch to backup router.
 - Core switches are used for connecting Secure Router 4134 with LAN segment.
 - PBR tracked with IP-SLA enabled on WAN and LAN ingress of routers.
- Silver Peak NX appliance:
 - Out-of-Path Mode configuration with connectivity to both the Secure Router 4134. One is chosen as primary and another chosen as backup.
 - Enable multi-homing to automatically switch from primary Secure Router 4134 to secondary Secure Router 4134, should the primary Secure Router fail.
 - Link level redundancy between NX and Secure Router using a Link Aggregation Group (LAG).
 - GRE for tunneling the optimized TCP packets between the sites.

The above connectivity between Secure Router 4134 and NX ensures:

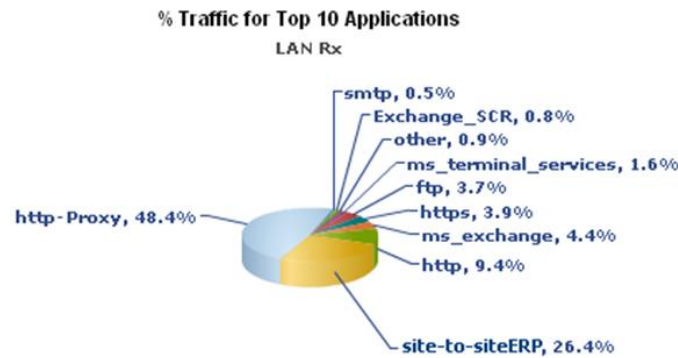
- If one router fails, other router starts forwarding the traffic.
- Silverpeak automatically getting switched to current working edge router.
- No traffic blackout, in case of Silverpeak failure, since IP-SLA shuts the PBR on Silverpeak failure.

PBR enabled policies at LAN and WAN ingress of the routers ensures matching traffic patterns getting forwarded for the optimization. This gives administrator's flexibility to choose which type of traffic should be accelerated and which traffic is ignored. For example in our case, this enterprise has chosen to optimize all its site-to-site TCP data transfer (like HTTP ERP application traffic, FTP traffic etc.) to get optimized and leave any web traffic (like web browsing) un-optimized (see [Section 5.0](#)).

Following are the some of the traffic optimization reports collected from this live enterprise network. The samples are collected using reporting capabilities in Silver Peaks NX appliance.

Traffic Optimization: Application View

Below is an example report showing the top 10 TCP application traffic originated out the enterprise LAN and Silver Peak's optimization effect for a month. Reduction % indicates ratio of traffic went out on WAN links for the corresponding ingress LAN traffic. Site-to-site traffic (Site-to-siteERP) originated from this LAN is 26.4% and it got reduced by 55.5% when it was sent out of the network. Other typical TCP application traffic and its corresponding reduction could also be observed. Also, it can be observed 48.4% of the traffic is web traffic flowing through the HTTP proxy (http- proxy) and no optimization is applied to this as per the configuration.



Application	LAN Traffic (%)	WAN Traffic (%)	LAN Rx Bytes	Reduction (%)
http-Proxy	48.4	61.8	43,684,682,709	0.0
site-to-siteERP	26.4	13.9	23,820,142,645	55.5
http	9.4	5.0	8,444,483,846	55.3
ms_exchange	4.4	6.6	3,989,008,363	0.0
https	3.9	5.6	3,513,847,481	0.0
ftp	3.7	2.1	3,321,827,550	51.9
ms_terminal_services	1.6	2.4	1,435,036,759	0.0
other	0.9	1.3	838,092,782	0.0
Exchange_SCR	0.8	1.0	733,984,242	0.0
smtp	0.5	0.3	484,053,733	60.5

Figure 3.1 – Percentage Traffic for Top 10 Applications Report

Traffic Reduction Report

The following is the one month's traffic reduction report of the site for the traffic originated from the LAN. Every day at midnight, the day's LAN ingress packet count and WAN egress packet count is taken to derive the % of TX reduction for the day. For example on 2011/03/11 the TX packet reduction over the WAN link was 25.6%:

Time	LAN Packets	WAN Packets	Ratio (X)	Reduction (%)
2/17/11 12:00 AM	15,489,739	14,310,343	1.2	17.7
2/18/11 12:00 AM	14,620,320	13,603,411	1.1	9.6
2/19/11 12:00 AM	7,576,085	7,183,125	1.4	29.7
2/20/11 12:00 AM	10,418,805	9,987,974	1.2	18.6
2/21/11 12:00 AM	19,355,896	17,903,136	1.1	8.3
2/22/11 12:00 AM	15,085,200	14,018,360	1.1	7.9
2/23/11 12:00 AM	13,505,050	12,587,438	1.2	18
2/24/11 12:00 AM	13,347,123	12,464,571	1.2	16.8

2/25/11 12:00 AM	13,278,953	12,336,366	1.2	18.1
2/26/11 12:00 AM	6,109,578	5,740,103	1.5	33.3
2/27/11 12:00 AM	7,942,170	7,559,962	1.2	19.9
2/28/11 12:00 AM	11,818,063	11,018,883	1.2	15.6
3/1/11 12:00 AM	14,176,325	13,018,362	1.2	13.5
3/2/11 12:00 AM	15,330,058	14,204,864	1.1	12.8
3/3/11 12:00 AM	14,197,696	13,145,198	1.2	13.8
3/4/11 12:00 AM	12,982,351	12,190,464	1.2	17.3
3/5/11 12:00 AM	7,685,392	7,262,346	1.3	24.4
3/6/11 12:00 AM	8,052,073	7,609,668	1.5	33.3
3/7/11 12:00 AM	15,156,774	14,133,142	1.1	10.4
3/8/11 12:00 AM	16,265,018	15,073,120	1.1	9.7
3/9/11 12:00 AM	15,527,128	14,202,874	1.2	18
3/10/11 12:00 AM	14,458,844	13,256,682	1.2	16.4
3/11/11 12:00 AM	15,188,356	13,595,253	1.3	25.6
3/12/11 12:00 AM	8,116,358	7,135,500	1.9	46.3
3/13/11 12:00 AM	9,831,378	9,327,311	1.2	19.4
3/14/11 12:00 AM	17,294,016	16,080,344	1.2	14.1
3/15/11 12:00 AM	17,978,028	16,849,304	1.1	6.6
3/16/11 12:00 AM	18,481,568	17,246,920	1.1	4.8
3/17/11 12:00 AM	16,285,136	15,106,513	1.1	12.7
3/18/11 12:00 AM	16,176,478	14,959,513	1.1	12.8

Table 3.2-1 – LAN to WAN Traffic Reduction

For the same period, following table depicts the traffic hitting the WAN ingress and the amount of data that was forwarded to the LAN after Silver Peak retrieves the packets:

Time	LAN Packets	WAN Packets	Ratio (X)	Reduction (%)
2/17/11 12:00 AM	24,149,594	21,441,186	1.2	15.4
2/18/11 12:00 AM	21,628,233	18,794,875	1.2	19.2
2/19/11 12:00 AM	12,208,648	10,725,304	1.2	18
2/20/11 12:00 AM	17,219,417	15,830,535	1.1	7
2/21/11 12:00 AM	27,377,172	23,637,864	1.2	17
2/22/11 12:00 AM	21,855,968	19,671,539	1.2	14.1
2/23/11 12:00 AM	20,036,809	17,597,037	1.2	18
2/24/11 12:00 AM	18,900,658	16,895,716	1.2	15
2/25/11 12:00 AM	19,478,234	17,435,019	1.2	14.5
2/26/11 12:00 AM	9,461,832	8,300,759	1.2	19.7
2/27/11 12:00 AM	14,115,650	12,415,559	1.2	15.9
2/28/11 12:00 AM	17,125,263	15,731,901	1.2	13.2
3/1/11 12:00 AM	20,972,017	19,127,982	1.1	12.6
3/2/11 12:00 AM	22,966,022	21,304,979	1.1	9.3
3/3/11 12:00 AM	21,075,204	19,172,695	1.2	13.8
3/4/11 12:00 AM	19,441,030	17,872,452	1.2	14.9
3/5/11 12:00 AM	12,369,057	11,068,936	1.2	14.7
3/6/11 12:00 AM	12,720,401	11,494,860	1.2	15.7
3/7/11 12:00 AM	22,449,880	20,966,797	1.1	10.2
3/8/11 12:00 AM	24,490,152	22,448,366	1.1	11.4
3/9/11 12:00 AM	22,901,401	20,646,423	1.2	16.3
3/10/11 12:00 AM	20,924,278	18,732,999	1.2	15.9
3/11/11 12:00 AM	21,939,117	19,593,538	1.2	16.2

3/12/11 12:00 AM	10,892,202	9,889,749	1.1	11.9
3/13/11 12:00 AM	16,006,448	14,942,220	1.1	7.7
3/14/11 12:00 AM	27,454,187	24,674,292	1.2	14.2
3/15/11 12:00 AM	27,324,122	24,858,399	1.2	16.6
3/16/11 12:00 AM	29,090,605	26,762,897	1.1	11.3
3/17/11 12:00 AM	24,998,862	22,302,728	1.2	16.9
3/18/11 12:00 AM	26,236,477	22,396,946	1.3	23.7

Table 3.2-2 – WAN to LAN Traffic Reduction

Bandwidth Optimization

At a multiple given point of time, the following report is the comparison on number of bits per second (bps) received on LAN ingress to the number of bits per second transmitted over the WAN link. On these samples, it can be noted that **29.7%** is the highest bps reduction:

Time	LAN bps	WAN bps	Reduction (%)
3/18/2011 0:00	158,903	147,892	6.9
3/18/2011 1:00	160,929	134,713	16.3
3/18/2011 2:00	162,283	114,113	29.7
3/18/2011 3:00	207,787	163,652	21.2
3/18/2011 4:00	417,920	375,010	10.3
3/18/2011 5:00	469,846	408,517	13.1
3/18/2011 6:00	497,230	436,821	12.1
3/18/2011 7:00	560,498	524,824	6.4
3/18/2011 8:00	465,294	416,289	10.5
3/18/2011 9:00	567,679	517,872	8.8
3/18/2011 10:00	602,960	537,822	10.8
3/18/2011 11:00	536,254	493,357	8
3/18/2011 12:00	325,861	286,096	12.2

3/18/2011 13:00	365,225	334,704	8.4
3/18/2011 14:00	237,266	188,735	20.5
3/18/2011 15:00	196,870	158,653	19.4
3/18/2011 16:00	171,001	139,259	18.6
3/18/2011 17:00	161,461	128,825	20.2
3/18/2011 18:00	186,808	162,659	12.9
3/18/2011 19:00	166,343	136,369	18
3/18/2011 20:00	180,054	166,892	7.3
3/18/2011 21:00	178,035	133,935	24.8
3/18/2011 22:00	187,477	170,178	9.2
3/18/2011 23:00	178,712	137,706	22.9

Table 3.3 – WAN to LAN Bandwidth Optimization

Conclusion

The Avaya Data Solutions Test Lab's interoperability testing demonstrated that the Avaya Secure Router 4134 and the Silver Peak NX appliances are an effective solution for optimizing the WAN in enterprise networks. The tests highlight the significant traffic reduction and bandwidth optimization with this solution.

After thorough interoperability testing, all test cases were successfully completed and confirm that this solution meets Avaya's quality and interoperability standards.

Appendix

Secure Router 4134 Sample Configuration

The following code sample shows how to configure the SR 4K edge router.

```
hostname in307950-bangal-wan-rtr1
#create a IP SLA with id 2 for monitoring the silver peak
sla profile 2
# 135.56.51.106 is the NX appliance
icmp-echo 135.56.51.106
action packet-loss
threshold-type xofy
threshold-value 2 4
exit profile
sla schedule 2
# Enable a tracker for the IP SLA with ID 20
track 20
service-sla-profile 2
exit track
qos
module
rate-monitoring sampling-interval 10 sampling-period 30
#create a LAN ingress traffic policy
policy-map Interface-IN
#Do DSCP QoS classification for VOICE, VIDEO and BEST effort
class-map VOICE-ingress
police
exit police
match ipv4 dscp ef
assign-queue 2
accounting enable
rate-monitoring enable
exit class-map
class-map VIDEO-ingress
police
exit police
match ipv4 dscp 32-39
assign-queue 6
accounting enable
exit class-map
```

```

class-map BEST-EFFORT-ingress
  police
    exit police
  match ipv4 dscp af21
  match ipv4 dscp af22
  match ipv4 dscp 7
  assign-queue 7
  accounting enable
  exit class-map

#Create a class map for list of TCP traffic which don't need WAN optimization
class-map WOC-NoRedirect
  police
    exit police
  match ipv4 dest-address 135.27.101.40/30 protocol tcp
  match ipv4 dest-address 135.27.101.16/30 protocol tcp
  match ipv4 dest-address 135.27.101.24/30 protocol tcp
  match ipv4 dest-address 135.27.101.1/32 protocol tcp
  match ipv4 dest-address 135.27.101.2/32 protocol tcp
  match ipv4 dest-address 135.27.101.3/32 protocol tcp
  match ipv4 dest-address 135.27.101.4/32 protocol tcp
  match ipv4 dest-address 135.56.112.16/29 protocol tcp
  match ipv4 dest-address 135.56.112.24/29 protocol tcp
  match ipv4 dest-address 135.56.51.104/29 protocol tcp
  match ipv4 dest-address 135.56.51.112/29 protocol tcp
  match ipv4 dest-address 135.56.51.12/29 protocol tcp
  match ipv4 dest-address 135.56.51.56/29 protocol tcp
  match ipv4 dest-address 135.56.51.24/29 protocol tcp
  match ipv4 dest-address 135.124.255.66/29 protocol tcp
  exit class-map

#Create list of class maps for matching the TCP traffic and forwarding them to silver Peak NX.
Multiple class maps like WPBR-LIN-Bangal, WPBR-LIN-Banga2, WPBR-LIN-Banga3 & WPBR-LIN-Banga4 are
created just for the ease of management.

class-map WPBR-LIN-Bangal
  police
    exit police
  match ipv4 dest-address 10.19.0.0/16 protocol tcp
  match ipv4 dest-address 10.39.0.0/16 protocol tcp
  match ipv4 dest-address 10.230.0.0/16 protocol tcp
  match ipv4 dest-address 135.64.0.0/16 protocol tcp
  match ipv4 dest-address 135.123.64.0/18 protocol tcp
  match ipv4 dest-address 135.124.0.0/16 protocol tcp

```

```

match ipv4 dest-address 198.152.246.0/17 protocol tcp
match ipv4 dest-address 198.152.246.128/26 protocol tcp
match ipv4 dest-address 198.152.254.0/24 protocol tcp
#enable PBR and monitor the next hop using tracker create as 20
pbr-redirect nexthop 135.56.51.106
pbr-tracker 20
exit class-map
class-map WPBR-LIN-Banga2
police
    exit police
match ipv4 src-address 135.27.104.0/22 dest-address 135.9.0.0/16 protocol tcp
match ipv4 src-address 135.27.104.0/22 dest-address 135.105.0.0/16 protocol tcp
match ipv4 src-address 135.27.104.0/22 dest-address 198.152.7.0/24 protocol tcp
match ipv4 src-address 135.27.104.0/22 dest-address 198.152.13.0/24 protocol tcp
match ipv4 src-address 135.27.104.0/22 dest-address 198.152.17.0/24 protocol tcp
match ipv4 src-address 135.27.104.0/22 dest-address 198.152.212.0/24 protocol tcp
match ipv4 src-address 135.27.104.0/22 dest-address 198.152.214.0/24 protocol tcp
match ipv4 src-address 135.27.104.0/22 dest-address 198.152.218.0/24 protocol tcp
match ipv4 src-address 135.27.112.0/21 dest-address 135.9.0.0/16 protocol tcp
match ipv4 src-address 135.27.112.0/21 dest-address 135.105.0.0/16 protocol tcp
match ipv4 src-address 135.27.112.0/21 dest-address 198.152.7.0/24 protocol tcp
match ipv4 src-address 135.27.112.0/21 dest-address 198.152.13.0/24 protocol tcp
match ipv4 src-address 135.27.112.0/21 dest-address 198.152.17.0/24 protocol tcp
match ipv4 src-address 135.27.112.0/21 dest-address 198.152.212.0/24 protocol tcp
match ipv4 src-address 135.27.112.0/21 dest-address 198.152.214.0/24 protocol tcp
match ipv4 src-address 135.27.112.0/21 dest-address 198.152.218.0/24 protocol tcp
match ipv4 dest-address 135.9.0.0/16 protocol tcp
match ipv4 dest-address 135.105.0.0/17 protocol tcp
match ipv4 dest-address 198.152.7.0/24 protocol tcp
match ipv4 dest-address 198.152.13.0/24 protocol tcp
match ipv4 dest-address 198.152.17.0/24 protocol tcp
match ipv4 dest-address 198.152.212.0/24 protocol tcp
match ipv4 dest-address 198.152.214.0/24 protocol tcp
match ipv4 dest-address 198.152.218.0/24 protocol tcp
pbr-redirect nexthop 135.56.51.106
pbr-tracker 20
exit class-map
class-map WPBR-LIN-Banga3
police
    exit police

```

```

match ipv4 dest-address 135.11.0.0/17 protocol tcp
match ipv4 dest-address 135.105.128.0/17 protocol tcp
pbr-redirect nexthop 135.56.51.106
pbr-tracker 20
exit class-map
class-map WPBR-LIN-Banga4
  police
    exit police
  match ipv4 dest-address 135.169.121.0/26 protocol tcp
  match ipv4 dest-address 135.169.126.0/24 protocol tcp
  match ipv4 dest-address 135.169.128.0/24 protocol tcp
  match ipv4 dest-address 135.169.136.0/24 protocol tcp
  match ipv4 dest-address 135.169.144.0/24 protocol tcp
  match ipv4 dest-address 198.152.234.0/24 protocol tcp
  pbr-redirect nexthop 135.56.51.106
  pbr-tracker 20
  exit class-map
exit policy-map
#create a WAN ingress traffic policy and do a mirror config of what was done was LAN ingress
policy-map WAN-Interface-IN
  class-map WOC-NoRedirect
    police
      exit police
      match ipv4 src-address 135.27.101.40/30 protocol tcp
      match ipv4 src-address 135.27.101.16/30 protocol tcp
      match ipv4 src-address 135.27.101.24/30 protocol tcp
      match ipv4 src-address 135.27.101.1/32 protocol tcp
      match ipv4 src-address 135.27.101.2/32 protocol tcp
      match ipv4 src-address 135.27.101.3/32 protocol tcp
      match ipv4 src-address 135.27.101.4/32 protocol tcp
      match ipv4 src-address 135.56.112.16/29 protocol tcp
      match ipv4 src-address 135.56.112.24/29 protocol tcp
      match ipv4 src-address 135.56.51.104/29 protocol tcp
      match ipv4 src-address 135.56.51.112/29 protocol tcp
      match ipv4 src-address 135.56.51.12/29 protocol tcp
      match ipv4 src-address 135.56.51.56/29 protocol tcp
      match ipv4 src-address 135.56.51.24/29 protocol tcp
    exit class-map
  class-map WPBR-WIN-Bangal
    police

```

```

    exit police
match ipv4 src-address 10.19.0.0/16 protocol tcp
match ipv4 src-address 10.39.0.0/16 protocol tcp
match ipv4 src-address 10.230.0.0/16 protocol tcp
match ipv4 src-address 135.64.0.0/16 protocol tcp
match ipv4 src-address 135.124.0.0/16 protocol tcp
match ipv4 src-address 198.152.246.0/17 protocol tcp
match ipv4 src-address 198.152.246.128/26 protocol tcp
match ipv4 src-address 198.152.254.0/24 protocol tcp
pbr-redirect nexthop 135.56.51.106
pbr-tracker 20
exit class-map
class-map WPBR-WIN-Banga2
    police
        exit police
match ipv4 src-address 135.9.0.0/16 dest-address 135.27.104.0/22 protocol tcp
match ipv4 src-address 135.105.0.0/16 dest-address 135.27.104.0/22 protocol tcp
match ipv4 src-address 198.152.7.0/24 dest-address 135.27.104.0/22 protocol tcp
match ipv4 src-address 198.152.13.0/24 dest-address 135.27.104.0/22 protocol tcp
match ipv4 src-address 198.152.17.0/24 dest-address 135.27.104.0/22 protocol tcp
match ipv4 src-address 198.152.212.0/24 dest-address 135.27.104.0/22 protocol tcp
match ipv4 src-address 198.152.214.0/24 dest-address 135.27.104.0/22 protocol tcp
match ipv4 src-address 198.152.218.0/24 dest-address 135.27.104.0/22 protocol tcp
match ipv4 src-address 135.9.0.0/16 dest-address 135.27.112.0/21 protocol tcp
match ipv4 src-address 198.152.7.0/24 dest-address 135.27.112.0/21 protocol tcp
match ipv4 src-address 198.152.13.0/24 dest-address 135.27.112.0/21 protocol tcp
match ipv4 src-address 198.152.17.0/24 dest-address 135.27.112.0/21 protocol tcp
match ipv4 src-address 198.152.212.0/24 dest-address 135.27.112.0/21 protocol tcp
match ipv4 src-address 198.152.214.0/24 dest-address 135.27.112.0/21 protocol tcp
match ipv4 src-address 198.152.218.0/24 dest-address 135.27.112.0/21 protocol tcp
match ipv4 src-address 135.9.0.0/16 protocol tcp
match ipv4 src-address 135.105.0.0/17 protocol tcp
match ipv4 src-address 198.152.7.0/24 protocol tcp
match ipv4 src-address 198.152.13.0/24 protocol tcp
match ipv4 src-address 198.152.17.0/24 protocol tcp
match ipv4 src-address 198.152.212.0/24 protocol tcp
match ipv4 src-address 198.152.214.0/24 protocol tcp
match ipv4 src-address 198.152.218.0/24 protocol tcp
pbr-redirect nexthop 135.56.51.106
pbr-tracker 20

```

```

exit class-map
class-map WPBR-WIN-Banga3
  police
    exit police
  match ipv4 src-address 135.11.0.0/17 protocol tcp
  match ipv4 src-address 135.105.128.0/17 protocol tcp
  pbr-redirect nexthop 135.56.51.106
  pbr-tracker 20
exit class-map
class-map WPBR-WIN-Banga4
  police
    exit police
  match ipv4 src-address 135.169.121.0/26 protocol tcp
  match ipv4 src-address 135.169.126.0/24 protocol tcp
  match ipv4 src-address 135.169.128.0/24 protocol tcp
  match ipv4 src-address 135.169.136.0/24 protocol tcp
  match ipv4 src-address 135.169.144.0/24 protocol tcp
  match ipv4 src-address 198.152.234.0/24 protocol tcp
  pbr-redirect nexthop 135.56.51.106
  pbr-tracker 20
exit class-map
class-map VOICE-ingress
  police
    exit police
  match ipv4 dscp ef
  assign-queue 2
  accounting enable
  rate-monitoring enable
exit class-map
class-map VIDEO-ingress
  police
    exit police
  match ipv4 dscp 32-39
  assign-queue 6
  accounting enable
exit class-map
class-map BEST-EFFORT-ingress
  police
    exit police
  match ipv4 dscp af21

```

```

        match ipv4 dscp af22
        match ipv4 dscp 7
        match ipv4 dscp cs0
        assign-queue 7
        accounting enable
        exit class-map
    exit policy-map
policy-map WIN-Interface-IN
    class-map WOC-NoRedirect
        police
            exit police
    exit class-map
    exit policy-map
exit module
chassis
    exit chassis
exit qos
#Create a VLAN 72 for connecting to NX
vlan database
    vlan 72 name d72-woc
    exit database
vlan classification
    exit classification
bridge
    mstp
        exit mstp
    exit bridge
lacp
    exit lacp
interface loopback 0
    ip address 135.27.101.1 255.255.255.255
    exit loopback
#6/1 is the WAN ingress
interface ethernet 6/1
    description to Air-CE
    speed 100 full_duplex
    ip address 135.56.112.17 255.255.255.248
    aaa
        exit aaa
    qos

```

```

module
#Map WAN ingress policy to this port
    service-policy input WAN-Interface-IN
    exit module
exit qos
exit ethernet
#6/2 and 6/3 are the LAN ingress
interface ethernet 6/2
    description to coresw1
    ip address 135.27.101.17 255.255.255.252
    aaa
    exit aaa
qos
    module
#Map LAN ingress policy to this port
        service-policy input Interface-IN
        exit module
    exit qos
exit ethernet
interface ethernet 6/3
    description to coresw1
    ip address 135.27.101.25 255.255.255.252
    aaa
    exit aaa
qos
    module
#Map LAN ingress policy to this port
        service-policy input Interface-IN
        exit module
    exit qos
exit ethernet
interface ethernet 6/4
    description to mgmt
    ip address 135.27.100.41 255.255.255.252
    aaa
    exit aaa
qos
    module
        exit module
    exit qos

```

```

exit ethernet
interface ethernet 6/5
  aaa
    exit aaa
  switchport
  qos
    module
      exit module
    exit qos
  exit ethernet
#create a LACP group between 6/6 and 6/7. This bundle is connected to the NX
interface ethernet 6/6
  description WOC-Interface-WAN0
  aaa
    exit aaa
    lacp
      channel-group 1 static
    exit lacp
  qos
    module
      exit module
    exit qos
  exit ethernet
interface ethernet 6/7
  description WOC-Interface-WAN1
  aaa
    exit aaa
    lacp
      channel-group 1 static
    exit lacp
  qos
    module
      exit module
    exit qos
  exit ethernet
interface ethernet 6/8
  aaa
    exit aaa
  switchport
  qos

```

```

module
    exit module
    exit qos
exit ethernet
interface ethernet 6/9
    aaa
        exit aaa
    switchport
    qos
        module
            exit module
            exit qos
        exit ethernet
interface ethernet 6/10
    aaa
        exit aaa
    switchport
    qos
        module
            exit module
            exit qos
        exit ethernet
interface vlan vlan72
    ip address 135.56.51.105 255.255.255.248
    qos
        chassis
            exit chassis
        exit qos
    exit vlan
#associate the LAG group to the VLAN, so the traffic to NX is carried over this.
interface lag lag1
    switchport
    switchport pvid 72
    exit lag
interface console
    aaa
        exit aaa
    exit console
gvrp
    exit gvrp

```

```

ip load-balancing per-flow
ip icmp rate-limit 500
ip as-path access-list Allow-Local-Net permit ^$
ip prefix-list AIRTEL2-MPLS-NET seq 5 permit 135.56.112.24/29
ip prefix-list GLR seq 1 permit 0.0.0.0/0
ip prefix-list Local-Net seq 10 permit 135.27.101.52/30 le 32
ip prefix-list Local-Net seq 15 permit 135.27.101.56/30 le 32
ip prefix-list Local-Net seq 20 permit 135.27.104.0/24 le 32
ip prefix-list Local-Net seq 25 permit 135.27.105.0/24 le 32
ip prefix-list Local-Net seq 30 permit 135.27.106.0/24 le 32
ip prefix-list Local-Net seq 35 permit 135.27.107.0/24 le 32
ip prefix-list Local-Net seq 40 permit 135.27.108.0/24 le 32
ip prefix-list Local-Net seq 45 permit 135.27.109.0/24 le 32
ip prefix-list Local-Net seq 55 permit 135.27.110.0/24 le 32
ip prefix-list Local-Net seq 60 permit 135.27.111.0/24 le 32
ip prefix-list Local-Net seq 65 permit 135.27.112.0/24 le 32
ip prefix-list Local-Net seq 70 permit 135.27.113.0/24 le 32
ip prefix-list Local-Net seq 75 permit 135.27.114.0/24 le 32
ip prefix-list Local-Net seq 80 permit 135.27.115.0/24 le 32
ip prefix-list Local-Net seq 85 permit 135.27.100.0/22 le 32
    ip prefix-list Local-Net seq 90 permit 148.147.254.0/29 le 32
    ip prefix-list Local-Net seq 95 permit 148.147.254.8/29 le 32
    ip prefix-list Local-Net seq 100 permit 148.147.254.16/29 le 32
    ip prefix-list Local-Net seq 105 permit 148.147.254.24/29 le 32
    ip prefix-list Local-Net seq 110 permit 148.147.255.0/24 le 32
ipv6 icmp rate-limit 500
ipv6 unicast-routing
ipv6 load-balancing per-flow
router ospf 238
    redistribute connected
    redistribute bgp route-map BGP-to-OSPF
    passive-interface ethernet6/1
    log-adjacency-changes
    network 135.27.101.1/32 area 0
    network 135.27.101.16/30 area 0
    network 135.27.101.24/30 area 0
    network 135.27.101.40/30 area 0
    network 135.56.112.16/29 area 0
    default-information originate
    exit ospf

```

```

router bgp 65280
  no bgp log-neighbor-changes
  network 135.56.51.104/29
  network 135.56.112.16/29
  aggregate-address 135.27.100.0/23 summary-only
  aggregate-address 135.27.104.0/21 summary-only
  aggregate-address 135.27.112.0/22 summary-only
  redistribute ospf route-map OSPF-to-BGP
  neighbor 135.27.101.2 remote-as 65280
  neighbor 135.27.101.2 update-source 0
  neighbor 135.27.101.2 timers 15 45
  neighbor 135.27.101.2 soft-reconfiguration inbound
  neighbor 135.56.112.18 remote-as 65282
  neighbor 135.56.112.18 timers 15 45
  neighbor 135.56.112.18 soft-reconfiguration inbound
  neighbor 135.56.112.18 route-map FR-AIRTEL in
  neighbor 135.56.112.18 route-map TO-AIRTEL out
  exit bgp
mpls tunnel-mode uniform
crypto
  pmtu
    exit pmtu
  qos
    chassis
    exit chassis
  exit qos
exit crypto
firewall global
  algs
  dns
    exit dns
  exit algs
  max-connection-limit self 2048
  exit firewall
firewall internet
  exit firewall
firewall corp
  policy 1024 out permit
  exit policy
  exit firewall
motd_banner "WARNING NOTICE This system is restricted solely to Avaya authorized users for

```

legitimate business purposes only. The actual or attempted unauthorized access, use or modification of this system is strictly prohibited by Avaya."

```
voice class
    exit class
voice service voip
    sip
        exit sip
    fax rate-management transferredTCF
    codec 1 g711ulaw 160
    ssm
        registrar
            exit registrar
        dialplan
            exit dialplan
        sip-server
            exit sip-server
    cac
        exit cac
    sessiontimer
        exit sessiontimer
    protocol-header
        exit protocol-header
    provisioning
        exit provisioning
    exit ssm
exit voip
voice call
    exit call
voice dsp
    exit dsp
sip-ua
    keepalive timer 60
    exit sip-ua
dst
    no enable
    exit dst
```

NX Appliance Sample Configuration

The following code sample shows how to configure the Silver Peak NX appliance:

```
##
## Network interface configuration
##
    interface blan0 create
no interface blan0 dhcp
    interface blan0 display
    interface blan0 ip address 135.56.51.114 /29
    interface blan0 mtu 1500
no interface blan0 shutdown
    interface blan0 speed-duplex auto/auto
    interface bwana0 create
no interface bwana0 dhcp
    interface bwana0 display
    interface bwana0 ip address 135.56.51.106 /29
    interface bwana0 mtu 1500
no interface bwana0 shutdown
    interface bwana0 speed-duplex auto/auto
    interface lan0 create
no interface lan0 dhcp
    interface lan0 display
    interface lan0 ip address 135.56.51.114 /29
    interface lan0 mtu 1500
no interface lan0 shutdown
    interface lan0 speed-duplex auto/auto
no interface mgmt0 dhcp
    interface mgmt0 ip address 135.27.101.71 /27
```

```

    interface wan0 create
no interface wan0 dhcp
    interface wan0 display
    interface wan0 ip address 135.56.51.106 /29
    interface wan0 mtu 1500
no interface wan0 shutdown
    interface wan0 speed-duplex auto/auto

##
## Routing configuration
##
    ip default-gateway 135.27.101.65 mgmt0

##
## Other IP configuration
##
    ip name-server 135.27.4.226
    ip name-server 135.27.168.74
    ip name-server 198.152.7.12

##
## System Network Config
##
    system bonding enable
    system mode router ip 135.56.51.106 /29 nexthop 135.56.51.105 second-ip 135.56.51.114 /29
second-nexthop 135.56.51.113

##
## Tunnel Creation. Multiple tunnels are created from a NX appliance to all other appliance of
this enterprise. This create a multi-site mesh. Configuration typically dictate on various packet
optimization parameters.
##
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 create 135.56.51.106
135.56.51.14 6000 39000 gre

##
## Tunnel Config
##
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 acceleration cifs

```

```

interactive enable

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 acceleration cifs sign-
override enable

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 acceleration cifs smb2
enable

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 acceleration cifs write
enable

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 acceleration tcp congest-
control standard

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 acceleration tcp window-
scale 8

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 admin up

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 compression ipheader
enable

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 compression rtpheader
enable

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 control-packet dscp be

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 gre-protocol 2048

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 ipsec enable preshared-key
*

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 ipsec replay-check-window
64

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 mtu 1500

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 packet coalesce enable

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 packet coalesce wait 0

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 packet fec auto

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 packet fec ratio 1:10

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 packet reorder wait 100

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 threshold dyn-bw-aimd
disable

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 threshold retry-count 10

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 threshold rtt marginal 850

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 threshold rtt unhealthy
1000

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 1 excess-
weight 1

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 1 max-
bandwidth 39000

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 1 max-bytes-
q 3000000

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 1 max-bytes-
qflow 3000000

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 1 max-pkts-q
2000

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 1 max-pkts-
qflow 2000

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 1 max-wait
500

```

```

interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 1 min-
bandwidth 6000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 1 priority 2
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 10 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 10 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 10 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 10 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 10 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 10 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 10 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 10 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 10 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 2 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 2 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 2 max-bytes-
q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 2 max-bytes-
qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 2 max-pkts-q
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 2 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 2 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 2 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 2 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 3 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 3 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 3 max-bytes-
q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 3 max-bytes-
qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 3 max-pkts-q
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 3 max-pkts-

```

```

qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 3 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 3 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 3 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 4 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 4 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 4 max-bytes-
q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 4 max-bytes-
qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 4 max-pkts-q
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 4 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 4 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 4 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 4 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 5 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 5 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 5 max-bytes-
q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 5 max-bytes-
qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 5 max-pkts-q
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 5 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 5 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 5 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 5 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 6 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 6 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 6 max-bytes-
q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 6 max-bytes-

```

```

qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 6 max-pkts-q
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 6 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 6 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 6 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 6 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 7 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 7 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 7 max-bytes-
q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 7 max-bytes-
qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 7 max-pkts-q
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 7 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 7 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 7 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 7 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 8 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 8 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 8 max-bytes-
q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 8 max-bytes-
qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 8 max-pkts-q
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 8 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 8 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 8 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 8 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 9 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 9 max-

```

```

bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 9 max-bytes-q
q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 9 max-bytes-q
qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 9 max-pkts-q
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 9 max-pkts-q
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 9 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 9 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 traffic-class 9 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 udp-flow 256
    interface tunnel gms_in307950-bangal-mpls-woc1_co300216-bb-mplswoc1 udp-port 4163
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 acceleration cifs
interactive enable
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 acceleration cifs sign-
override enable
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 acceleration cifs smb2
enable
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 acceleration cifs write
enable
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 acceleration cifs write
enable
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 acceleration tcp congest-
control standard
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 acceleration tcp window-
scale 8
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 admin up
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 compression ipheader
enable
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 compression rtpheader
enable
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 control-packet dscp be
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 gre-protocol 2048
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 ipsec enable preshared-
key *
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 ipsec replay-check-window
64
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 mtu 1500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 packet coalesce enable
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 packet coalesce wait 0
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 packet fec auto
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 packet fec ratio 1:10
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 packet reorder wait 100
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 threshold dyn-bw-aimd
disable

```

```

interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 threshold retry-count 10
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 threshold rtt marginal
850
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 threshold rtt unhealthy
1000
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 1 excess-
weight 1
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 1 max-
bandwidth 39000
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 1 max-
bytes-q 3000000
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 1 max-
bytes-qflow 3000000
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 1 max-pkts-
q 2000
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 1 max-pkts-
qflow 2000
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 1 max-wait
500
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 1 min-
bandwidth 6000
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 1 priority
2
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 10 excess-
weight 1
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 10 max-
bandwidth 1000000
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 10 max-
bytes-q 500000
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 10 max-
bytes-qflow 100000
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 10 max-
pkts-q 500
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 10 max-
pkts-qflow 100
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 10 max-wait
500
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 10 min-
bandwidth 0
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 10 priority
10
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 2 excess-
weight 1
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 2 max-
bandwidth 1000000
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 2 max-
bytes-q 500000
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 2 max-
bytes-qflow 100000
interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 2 max-pkts-

```

```

q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 2 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 2 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 2 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 2 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 3 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 3 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 3 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 3 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 3 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 3 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 3 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 3 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 3 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 4 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 4 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 4 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 4 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 4 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 4 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 4 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 4 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 4 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 5 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 5 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 5 max-

```

```

bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 5 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 5 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 5 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 5 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 5 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 5 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 6 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 6 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 6 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 6 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 6 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 6 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 6 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 6 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 6 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 7 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 7 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 7 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 7 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 7 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 7 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 7 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 7 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 7 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 8 excess-

```

```

weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 8 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 8 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 8 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 8 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 8 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 8 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 8 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 8 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 9 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 9 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 9 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 9 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 9 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 9 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 9 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 9 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 traffic-class 9 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 udp-flow 256
    interface tunnel gms_in307950-bangal-mpls-woc1_coboulder-bb-mplswoc1 udp-port 4163
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 acceleration cifs
interactive enable
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 acceleration cifs sign-
override enable
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 acceleration cifs smb2
enable
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 acceleration cifs write
enable
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 acceleration tcp congest-
control standard
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 acceleration tcp window-
scale 8
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 admin up

```

```

interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 compression ipheader
enable
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 compression rtpheader
enable
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 control-packet dscp be
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 gre-protocol 2048
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 ipsec enable preshared-key
*
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 ipsec replay-check-window
64
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 mtu 1500
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 packet coalesce enable
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 packet coalesce wait 0
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 packet fec auto
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 packet fec ratio 1:10
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 packet reorder wait 100
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 threshold dyn-bw-aimd
disable
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 threshold retry-count 10
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 threshold rtt marginal 850
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 threshold rtt unhealthy
1000
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 1 excess-
weight 1
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 1 max-
bandwidth 39000
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 1 max-bytes-
q 3000000
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 1 max-bytes-
qflow 3000000
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 1 max-pkts-q
2000
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 1 max-pkts-
qflow 2000
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 1 max-wait
500
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 1 min-
bandwidth 6000
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 1 priority 2
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 10 excess-
weight 1
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 10 max-
bandwidth 1000000
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 10 max-
bytes-q 500000
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 10 max-
bytes-qflow 100000
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 10 max-pkts-

```

```

q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 10 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 10 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 10 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 10 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 2 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 2 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 2 max-bytes-
q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 2 max-bytes-
qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 2 max-pkts-q
500
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 2 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 2 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 2 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 2 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 3 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 3 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 3 max-bytes-
q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 3 max-bytes-
qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 3 max-pkts-q
500
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 3 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 3 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 3 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 3 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 4 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 4 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 4 max-bytes-

```

```
q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 4 max-bytes-
qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 4 max-pkts-q
500
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 4 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 4 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 4 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 4 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 5 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 5 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 5 max-bytes-
q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 5 max-bytes-
qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 5 max-pkts-q
500
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 5 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 5 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 5 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 5 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 6 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 6 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 6 max-bytes-
q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 6 max-bytes-
qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 6 max-pkts-q
500
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 6 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 6 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 6 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 6 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 7 excess-
```

```
weight 1
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 7 max-
bandwidth 1000000
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 7 max-bytes-
q 500000
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 7 max-bytes-
qflow 100000
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 7 max-pkts-q
500
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 7 max-pkts-
qflow 100
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 7 max-wait
500
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 7 min-
bandwidth 0
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 7 priority
10
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 8 excess-
weight 1
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 8 max-
bandwidth 1000000
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 8 max-bytes-
q 500000
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 8 max-bytes-
qflow 100000
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 8 max-pkts-q
500
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 8 max-pkts-
qflow 100
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 8 max-wait
500
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 8 min-
bandwidth 0
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 8 priority
10
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 9 excess-
weight 1
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 9 max-
bandwidth 1000000
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 9 max-bytes-
q 500000
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 9 max-bytes-
qflow 100000
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 9 max-pkts-q
500
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 9 max-pkts-
qflow 100
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 9 max-wait
500
  interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 9 min-
```

```
bandwidth 0
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 traffic-class 9 priority
10
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 udp-flow 256
interface tunnel gms_in307950-bangal-mpls-woc1_de307623-bb-mplswoc1 udp-port 4163
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 acceleration cifs
interactive enable
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 acceleration cifs sign-
override enable
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 acceleration cifs smb2
enable
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 acceleration cifs write
enable
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 acceleration tcp congest-
control standard
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 acceleration tcp window-
scale 8
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 admin up
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 compression ipheader
enable
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 compression rtpheader
enable
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 control-packet dscp be
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 gre-protocol 2048
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 ipsec enable preshared-
key *
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 ipsec replay-check-window
64
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 mtu 1500
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 packet coalesce enable
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 packet coalesce wait 0
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 packet fec auto
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 packet fec ratio 1:10
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 packet reorder wait 100
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 threshold dyn-bw-aimd
disable
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 threshold retry-count 10
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 threshold rtt marginal
850
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 threshold rtt unhealthy
1000
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 1 excess-
weight 1
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 1 max-
bandwidth 39000
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 1 max-
bytes-q 3000000
interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 1 max-
```

```

bytes-qflow 3000000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 1 max-pkts-
q 2000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 1 max-pkts-
qflow 2000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 1 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 1 min-
bandwidth 6000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 1 priority
2
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 10 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 10 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 10 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 10 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 10 max-
pkts-q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 10 max-
pkts-qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 10 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 10 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 10 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 2 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 2 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 2 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 2 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 2 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 2 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 2 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 2 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 2 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 3 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 3 max-

```

```
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 3 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 3 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 3 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 3 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 3 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 3 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 3 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 4 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 4 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 4 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 4 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 4 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 4 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 4 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 4 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 4 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 5 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 5 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 5 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 5 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 5 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 5 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 5 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 5 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 5 priority
```

```

10
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 6 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 6 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 6 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 6 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 6 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 6 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 6 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 6 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 6 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 7 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 7 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 7 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 7 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 7 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 7 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 7 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 7 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 7 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 8 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 8 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 8 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 8 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 8 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 8 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 8 max-wait

```

```

500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 8 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 8 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 9 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 9 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 9 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 9 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 9 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 9 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 9 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 9 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 traffic-class 9 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 udp-flow 256
    interface tunnel gms_in307950-bangal-mpls-woc1_nc307964-rtp-mplswoc1 udp-port 4163
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 acceleration cifs
interactive enable
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 acceleration cifs sign-
override enable
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 acceleration cifs smb2
enable
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 acceleration cifs write
enable
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 acceleration tcp congest-
control standard
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 acceleration tcp window-
scale 8
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 admin up
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 compression ipheader
enable
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 compression rtpheader
enable
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 control-packet dscp be
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 gre-protocol 2048
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 ipsec enable preshared-
key *
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 ipsec replay-check-window
64
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 mtu 1500

```

```

interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 packet coalesce enable
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 packet coalesce wait 0
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 packet fec auto
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 packet fec ratio 1:10
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 packet reorder wait 100
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 threshold dyn-bw-aimd
disable
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 threshold retry-count 10
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 threshold rtt marginal
850
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 threshold rtt unhealthy
1000
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 1 excess-
weight 1
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 1 max-
bandwidth 39000
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 1 max-
bytes-q 3000000
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 1 max-
bytes-qflow 3000000
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 1 max-pkts-
q 2000
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 1 max-pkts-
qflow 2000
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 1 max-wait
500
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 1 min-
bandwidth 6000
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 1 priority
2
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 10 excess-
weight 1
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 10 max-
bandwidth 1000000
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 10 max-
bytes-q 500000
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 10 max-
bytes-qflow 100000
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 10 max-
pkts-q 500
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 10 max-
pkts-qflow 100
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 10 max-wait
500
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 10 min-
bandwidth 0
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 10 priority
10
interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 2 excess-

```

```
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 2 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 2 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 2 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 2 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 2 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 2 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 2 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 2 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 3 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 3 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 3 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 3 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 3 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 3 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 3 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 3 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 3 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 4 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 4 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 4 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 4 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 4 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 4 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 4 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 4 min-
```

```

bandwidth 0
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 4 priority
10
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 5 excess-
weight 1
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 5 max-
bandwidth 1000000
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 5 max-
bytes-q 500000
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 5 max-
bytes-qflow 100000
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 5 max-pkts-
q 500
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 5 max-pkts-
qflow 100
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 5 max-wait
500
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 5 min-
bandwidth 0
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 5 priority
10
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 6 excess-
weight 1
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 6 max-
bandwidth 1000000
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 6 max-
bytes-q 500000
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 6 max-
bytes-qflow 100000
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 6 max-pkts-
q 500
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 6 max-pkts-
qflow 100
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 6 max-wait
500
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 6 min-
bandwidth 0
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 6 priority
10
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 7 excess-
weight 1
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 7 max-
bandwidth 1000000
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 7 max-
bytes-q 500000
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 7 max-
bytes-qflow 100000
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 7 max-pkts-
q 500
  interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 7 max-pkts-

```

```

qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 7 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 7 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 7 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 8 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 8 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 8 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 8 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 8 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 8 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 8 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 8 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 8 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 9 excess-
weight 1
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 9 max-
bandwidth 1000000
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 9 max-
bytes-q 500000
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 9 max-
bytes-qflow 100000
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 9 max-pkts-
q 500
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 9 max-pkts-
qflow 100
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 9 max-wait
500
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 9 min-
bandwidth 0
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 traffic-class 9 priority
10
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 udp-flow 256
    interface tunnel gms_in307950-bangal-mpls-woc1_ohlebanon-bb-mplswoc1 udp-port 4163

##
## Pass-Through Config
##

```

```

interface pass-through max-bandwidth 50000

##
## Application Config
##
  application 100 CSS-APP protocol tcp src-ip any src-port 7011 dst-ip any dst-port any dscp any
  vlan any
  application 110 CSS-APP protocol tcp src-ip any src-port any dst-ip any dst-port 7011 dscp any
  vlan any
  application 120 CSS-OSMNG protocol tcp src-ip any src-port 8309 dst-ip any dst-port any dscp
  any vlan any
  application 130 CSS-OSMNG protocol tcp src-ip any src-port any dst-ip any dst-port 8309 dscp
  any vlan any
  application 140 CSS-SSO protocol tcp src-ip any src-port 44441 dst-ip any dst-port any dscp
  any vlan any
  application 150 CSS-SSO protocol tcp src-ip any src-port any dst-ip any dst-port 44441 dscp
  any vlan any
  application 160 CSS-SSO2 protocol tcp src-ip any src-port 44442 dst-ip any dst-port any dscp
  any vlan any
  application 170 CSS-SSO2 protocol tcp src-ip any src-port any dst-ip any dst-port 44442 dscp
  any vlan any
  application 180 CSS-SSO3 protocol tcp src-ip any src-port 44443 dst-ip any dst-port any dscp
  any vlan any
  application 190 CSS-SSO3 protocol tcp src-ip any src-port any dst-ip any dst-port 44443 dscp
  any vlan any
  application 200 CSS-StationBuilderKnova protocol tcp src-ip any src-port 8009 dst-ip any dst-
  port any dscp any vlan any
  application 210 CSS-StationBuilderKnova protocol tcp src-ip any src-port any dst-ip any dst-
  port 8009 dscp any vlan any
  application 220 Exchange_SCR protocol tcp src-ip any src-port 445 dst-ip any dst-port any dscp
  any vlan any
  application 230 Exchange SCR protocol tcp src-ip any src-port any dst-ip any dst-port 445 dscp
  any vlan any
  application 240 FalconStore-Failover protocol tcp src-ip any src-port 11580 dst-ip any dst-
  port any dscp any vlan any
  application 250 FalconStore-Failover protocol tcp src-ip any src-port any dst-ip any dst-port
  11580 dscp any vlan any
  application 260 FalconStore-SAN protocol tcp/udp src-ip any src-port 11578 dst-ip any dst-port
  any dscp any vlan any
  application 270 FalconStore-SAN protocol tcp/udp src-ip any src-port any dst-ip any dst-port
  11578 dscp any vlan any
  application 280 FalconStore-Server protocol tcp/udp src-ip any src-port 11577 dst-ip any dst-
  port any dscp any vlan any
  application 290 FalconStore-Server protocol tcp/udp src-ip any src-port any dst-ip any dst-
  port 11577 dscp any vlan any
  application 300 HP Service Desk protocol tcp src-ip any src-port 30998 dst-ip any dst-port any
  dscp any vlan any
  application 310 HP_Service_Desk protocol tcp src-ip any src-port any dst-ip any dst-port 30998
  dscp any vlan any
  application 320 VMWare protocol tcp/udp src-ip any src-port 902 dst-ip any dst-port any dscp

```

```
any vlan any
    application 330 VMWare protocol tcp/udp src-ip any src-port any dst-ip any dst-port 902 dscp
any vlan any
    application 340 http-AvayaProxy protocol tcp src-ip any src-port 8000 dst-ip any dst-port any
dscp any vlan any
    application 350 http-AvayaProxy protocol tcp src-ip any src-port any dst-ip any dst-port 8000
dscp any vlan any
    application-group CSS-SSO-GRP1 CSS-SSO,CSS-SSO2,CSS-SSO3
    application-group FalconSTore FalconStore-Failover,FalconStore-SAN,FalconStore-Server

##
## Policy Config
##

opt-map map1 10 match protocol ip any any app https dscp any vlan any.any
opt-map map1 10 set cifs enable network-memory disable payload disable tcp enable
opt-map map1 15 match protocol ip any any app ldaps dscp any vlan any.any
opt-map map1 15 set cifs enable network-memory disable payload disable tcp enable
opt-map map1 150 match protocol ip any any app any dscp any vlan any.any
opt-map map1 150 set cifs enable network-memory enable payload enable tcp enable
opt-map map1 20 match protocol ip any any app ms_exchange dscp any vlan any.any
opt-map map1 20 set cifs enable network-memory disable payload disable tcp enable
opt-map map1 25 match protocol ip any any app ssh dscp any vlan any.any
opt-map map1 25 set cifs enable network-memory disable payload disable tcp enable
opt-map map1 30 match protocol ip any any app ftps dscp any vlan any.any
opt-map map1 30 set cifs enable network-memory disable payload disable tcp enable
opt-map map1 35 match protocol ip any any app ms_terminal_services dscp any vlan any.any
opt-map map1 35 set cifs enable network-memory disable payload disable tcp enable
route-map map1 10 match protocol ospf any any vlan any.any
route-map map1 10 set pass-through unshaped
route-map map1 20 match protocol ip any any app routing dscp any vlan any.any
route-map map1 20 set pass-through unshaped
route-map map1 200 match protocol ip any any app any dscp any vlan any.any
route-map map1 200 set auto-optimize if-down pass-through
route-map map1 5 match protocol ip any any app h_323 dscp any vlan any.any
route-map map1 5 set pass-through unshaped
route-map map1 65535 set pass-through shaped
```

Additional Resources

- For Avaya Secure Router 4134 product documentation, go to <http://support.avaya.com/>.
- For Silver Peak products, go to <http://www.silver-peak.com/>
- For Silver Peak product documentation, go to <http://www.silver-peak.com/Technology/>.

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