



Cisco SD-Routing DMVPN Yang Commands

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DMVPN Yang Commands

These DMVPN commands are qualified to use with Cisco SD-Routing devices on Cisco SD-WAN Manager.


```

!
!
!
!
!
crypto pki trustpoint TP-self-signed-2134189379
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-2134189379
  revocation-check none
  rsakeypair TP-self-signed-2134189379
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
!
!
!
license udi pid C8500-12X4QC sn TTM231100CF
license boot level network-advantage addon dna-advantage
no memory lite
memory free low-watermark processor 984138
hw-module subslot 0/1 mode 10G
hw-module subslot 0/2 mode 40G
hw-module subslot 0/2 breakout none port all
!
!
spanning-tree extend system-id
diagnostic bootup level minimal
!
!
redundancy
  mode none
!
!
crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share
  keyring local ikev2keyring
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
class-map match-all group1_Routing
  match ip precedence 6
class-map match-all group2_Routing

```

```
match ip precedence 6
class-map match-all group2_voice
  match access-group 100
class-map match-all group1_voice
  match access-group 100
!
policy-map group2
  class group2_voice
    priority percent 20
  class group2_Routing
    bandwidth percent 10
policy-map group2_parent
  class class-default
    shape average 2000000
    service-policy group2
policy-map group1
  class group1_voice
    priority 1000
  class group1_Routing
    bandwidth percent 20
policy-map group1_parent
  class class-default
    shape average 3000000
    service-policy group1
!
!
!
!
!
!
!
!
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
  mode transport
!
!
crypto ipsec profile dmvpn-hub
  set transform-set tset1
  set pfs group19
  set ikev2-profile ikev2profile
!
!
!
!
!
!
!
!
!
interface Tunnel1
  ip address <removed> no ip redirects
  ip mtu 1400
  ip hello-interval eigrp 101 30
  ip hold-time eigrp 101 90
  ip nhrp network-id 1000
  ip nhrp redirect
  ip tcp adjust-mss 1200
  ip summary-address eigrp 101 10.0.0.0 255.0.0.0
  nhrp map group spoke_group1 service-policy output group1_parent
  nhrp map group spoke_group2 service-policy output group2_parent
  cts sgt inline
  bfd interval 1000 min_rx 1000 multiplier 5
  no bfd echo
```

```

tunnel source TenGigabitEthernet0/1/0
tunnel mode gre multipoint
tunnel path-mtu-discovery
tunnel protection ipsec profile dmvpn-hub
!
interface TenGigabitEthernet0/0/0
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/1
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/2
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/3
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/4
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/5
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/6
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/7
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/0
ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/2
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/3
ip address <removed> no negotiation auto
!
interface FortyGigabitEthernet0/2/0
no ip address
shutdown

```

```
no negotiation auto
!
interface FortyGigabitEthernet0/2/4
no ip address
shutdown
no negotiation auto
!
interface FortyGigabitEthernet0/2/8
no ip address
shutdown
no negotiation auto
!
interface GigabitEthernet0
vrf forwarding Mgmt-intf
ip address <removed> negotiation auto
!
!
router eigrp 101
network 150.100.0.0
network 192.0.0.0 0.255.255.255
!
router nhrp 200
network 100.0.0.0
!
ip http server
ip http authentication local
ip http secure-server
ip forward-protocol nd
!
ip tftp source-interface GigabitEthernet0
ip tftp blocksize 8192
ip route 0.0.0.0 0.0.0.0 100.0.10.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
!
!
!
snmp-server user roni g1 v3
snmp-server group g1 v3 noauth
snmp-server group g1 v3 auth read campus write campus
snmp mib nhrp
!
!
!
control-plane
!
!
!
!
!
!
line con 0
exec-timeout 0 0
stopbits 1
line aux 0
line vty 0 4
login
transport input ssh
!
call-home
! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
! the email address configured in Cisco Smart License Portal will be used as contact email
address to send SCH notifications.
contact-email-addr sch-smart-licensing@cisco.com
profile "CiscoTAC-1"
```

```

active
destination transport-method http
!
!
!
!
!
!
end

```

Configuration example for a spoke

```

version 17.13
service timestamps debug datetime msec
service timestamps log datetime msec
service internal
service call-home
platform qfp utilization monitor load 80
platform punt-keepalive disable-kernel-core
platform ipsec flexvpn-bypass-tcam
platform hardware crypto-throughput level 8-16g
!
hostname spk1
!
boot-start-marker
boot system bootflash:asr1000-universalk9.spk1.dmvpn_soak.SSA.bin
boot-end-marker
!
!
vrf definition C1_1
rd 1:1
!
address-family ipv4
exit-address-family
!
vrf definition Mgmt-intf
!
address-family ipv4
exit-address-family
!
address-family ipv6
exit-address-family
!
no logging console
no aaa new-model
!
!
subscriber templating
!
!
!
!
!
!
!
!
!
!
login on-success log
!
!
```

```

!
!
!
!
!
!
!
!
!
!
crypto pki trustpoint TP-self-signed-1147572831
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-1147572831
  revocation-check none
  rsa-keypair TP-self-signed-1147572831
  hash sha256
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
  hash sha256
!
!
!
!
!
!
!
!
!
license udi pid ASR1001-HX sn JAE24530LQG
license boot level adventerprise
!
no memory lite
memory free low-watermark processor 675468
diagnostic bootup level minimal
!
spanning-tree extend system-id
!
!
!
redundancy
  mode none
!
crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share
  keyring local ikev2keyring

```

```

!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
class-map match-all group1_Routing
  match ip precedence 6
class-map match-all group2_Routing
  match ip precedence 6
class-map match-all group2_voice
  match access-group 100
class-map match-all group1_voice
  match access-group 100
!
policy-map group2
  class group2_voice
    priority percent 20
  class group2_Routing
    bandwidth percent 10
policy-map group2_parent
  class class-default
    shape average 2000000
    service-policy group2
policy-map group1
  class group1_voice
    priority 1000
  class group1_Routing
    bandwidth percent 20
policy-map group1_parent
  class class-default
    shape average 3000000
    service-policy group1
!
!
!
!
!
!
!
!
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
  mode transport
!
!
crypto ipsec profile dmvpn-hub
  set transform-set tset1
  set pfs group19
  set ikev2-profile ikev2profile
!
!
!
!
!
!
!
!
!
!
interface Loopback1
  ip address <removed>!
interface Tunnell
  vrf forwarding C1_1
  ip address <removed> no ip redirects

```

```
ip hello-interval eigrp 101 30
ip hold-time eigrp 101 90
ip nhrp network-id 1000
ip nhrp nhs 192.0.1.1 nbma 100.0.10.2 multicast
ip tcp adjust-mss 1200
nhrp group spoke_group1
cts sgt inline
bfd interval 1000 min_rx 1000 multiplier 5
no bfd echo
tunnel source Loopback1
tunnel mode gre multipoint
tunnel path-mtu-discovery
tunnel protection ipsec profile dmvpn-hub
!
interface GigabitEthernet0/0/0
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/1
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/2
no ip address
negotiation auto
!
interface GigabitEthernet0/0/2.1
encapsulation dot1Q 100
vrf forwarding Cl_1
ip address <removed>!
interface GigabitEthernet0/0/3
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/4
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/5
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/6
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/7
no ip address
shutdown
negotiation auto
!
interface TenGigabitEthernet0/1/0
ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
no ip address
shutdown
no negotiation auto
```

```

!
interface TenGigabitEthernet0/1/2
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/3
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/4
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/5
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/6
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/7
no ip address
shutdown
no negotiation auto
!
interface GigabitEthernet0
vrf forwarding Mgmt-intf
ip address <removed> negotiation auto
!
!
router eigrp 101
!
address-family ipv4 vrf C1_1 autonomous-system 101
network 10.2.2.0 0.0.0.255
network 192.0.0.0 0.255.255.255
passive-interface GigabitEthernet0/0/2.1
exit-address-family
!
ip forward-protocol nd
!
ip tftp source-interface GigabitEthernet0
ip tftp blocksize 8192
ip http server
ip http authentication local
ip http secure-server
ip ssh bulk-mode 131072
ip route 0.0.0.0 0.0.0.0 50.50.50.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.45.0.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
!
!
!
!
!
control-plane
!
!

```

```
!  
!  
!  
!  
line con 0  
    exec-timeout 0 0  
    stopbits 1  
line aux 0  
line vty 0 4  
    login  
    transport input ssh  
!  
call-home  
    ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com  
    ! the email address configured in Cisco Smart License Portal will be used as contact email  
    ! address to send SCH notifications.  
    contact-email-addr sch-smart-licensing@cisco.com  
    profile "CiscoTAC-1"  
        active  
        destination transport-method http  
!  
!  
!  
!  
!  
end
```



```

!
!
!
!
!
crypto pki trustpoint TP-self-signed-2134189379
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-2134189379
  revocation-check none
  rsakeypair TP-self-signed-2134189379
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
!
!
!
license udi pid C8500-12X4QC sn TTM231100CF
license boot level network-advantage addon dna-advantage
no memory lite
memory free low-watermark processor 984138
hw-module subslot 0/1 mode 10G
hw-module subslot 0/2 mode 40G
hw-module subslot 0/2 breakout none port all
!
!
spanning-tree extend system-id
diagnostic bootup level minimal
!
!
redundancy
  mode none
!
!
crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share
  keyring local ikev2keyring
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
class-map match-all group1_Routing
  match ip precedence 6
class-map match-all group2_Routing

```

```

    match ip precedence 6
class-map match-all group2_voice
    match access-group 100
class-map match-all group1_voice
    match access-group 100
!
policy-map group2
    class group2_voice
        priority percent 20
    class group2_Routing
        bandwidth percent 10
policy-map group2_parent
    class class-default
        shape average 2000000
        service-policy group2
policy-map group1
    class group1_voice
        priority 1000
    class group1_Routing
        bandwidth percent 20
policy-map group1_parent
    class class-default
        shape average 3000000
        service-policy group1
!
!
!
!
!
!
!
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
    mode tunnel
!
!
crypto ipsec profile dmvpn-hub
    set transform-set tset1
    set pfs group19
    set ikev2-profile ikev2profile
!
!
!
!
!
!
!
interface Tunnel1
    ip address <removed> no ip redirects
    ip mtu 1400
    ip hello-interval eigrp 101 30
    ip hold-time eigrp 101 90
    ip nhrp network-id 1000
    ip nhrp redirect
    ip tcp adjust-mss 1200
    ip summary-address eigrp 101 10.0.0.0 255.0.0.0
    nhrp map group spoke_group1 service-policy output group1_parent
    nhrp map group spoke_group2 service-policy output group2_parent
    cts sgt inline
    bfd interval 1000 min_rx 1000 multiplier 5
    no bfd echo

```

```
tunnel source TenGigabitEthernet0/1/0
tunnel mode gre multipoint
tunnel path-mtu-discovery
tunnel protection ipsec profile dmvpn-hub
!
interface TenGigabitEthernet0/0/0
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/1
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/2
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/3
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/4
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/5
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/6
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/7
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/0
ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/2
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/3
ip address <removed> no negotiation auto
!
interface FortyGigabitEthernet0/2/0
no ip address
shutdown
```

```

    no negotiation auto
    !
    interface FortyGigabitEthernet0/2/4
    no ip address
    shutdown
    no negotiation auto
    !
    interface FortyGigabitEthernet0/2/8
    no ip address
    shutdown
    no negotiation auto
    !
    interface GigabitEthernet0
    vrf forwarding Mgmt-intf
    ip address <removed> negotiation auto
    !
    !
    router eigrp 101
    network 150.100.0.0
    network 192.0.0.0 0.255.255.255
    !
    router nhrp 200
    network 100.0.0.0
    !
    ip http server
    ip http authentication local
    ip http secure-server
    ip forward-protocol nd
    !
    ip tftp source-interface GigabitEthernet0
    ip tftp blocksize 8192
    ip route 0.0.0.0 0.0.0.0 100.0.10.1
    ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
    !
    !
    !
    snmp-server user roni g1 v3
    snmp-server group g1 v3 noauth
    snmp-server group g1 v3 auth read campus write campus
    snmp mib nhrp
    !
    !
    !
    control-plane
    !
    !
    !
    !
    !
    !
    line con 0
    exec-timeout 0 0
    stopbits 1
    line aux 0
    line vty 0 4
    login
    transport input ssh
    !
    call-home
    ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
    ! the email address configured in Cisco Smart License Portal will be used as contact email
    address to send SCH notifications.
    contact-email-addr sch-smart-licensing@cisco.com
    profile "CiscoTAC-1"

```

Configuration example for a spoke

Cisco SD-Routing DMVPN Yang Commands

```

!
!
!
!
!
!
!
!
!
crypto pki trustpoint TP-self-signed-1147572831
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-1147572831
  revocation-check none
  rsakeypair TP-self-signed-1147572831
  hash sha256
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
  hash sha256
!
!
!
!
!
!
!
!
!
license udi pid ASR1001-HX sn JAE24530LQG
license boot level advenenterprise
!
no memory lite
memory free low-watermark processor 675468
diagnostic bootup level minimal
!
spanning-tree extend system-id
!
!
!
redundancy
  mode none
!
crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share

```

```

    keyring local ikev2keyring
    !
    crypto ikev2 dpd 60 3 on-demand
    !
    !
    !
    class-map match-all group1_Routing
    match ip precedence 6
    class-map match-all group2_Routing
    match ip precedence 6
    class-map match-all group2_voice
    match access-group 100
    class-map match-all group1_voice
    match access-group 100
    !
    policy-map group2
    class group2_voice
    priority percent 20
    class group2_Routing
    bandwidth percent 10
    policy-map group2_parent
    class class-default
    shape average 2000000
    service-policy group2
    policy-map group1
    class group1_voice
    priority 1000
    class group1_Routing
    bandwidth percent 20
    policy-map group1_parent
    class class-default
    shape average 3000000
    service-policy group1
    !
    !
    !
    !
    !
    !
    !
    !
    !
    !
    crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
    mode tunnel
    !
    !
    crypto ipsec profile dmvpn-hub
    set transform-set tset1
    set pfs group19
    set ikev2-profile ikev2profile
    !
    !
    !
    !
    !
    !
    !
    !
    interface Loopback1
    ip address <removed>!
    interface Tunnel1
    vrf forwarding Cl_1

```

```

ip address <removed> no ip redirects
ip hello-interval eigrp 101 30
ip hold-time eigrp 101 90
ip nhrp network-id 1000
ip nhrp nhs 192.0.1.1 nbma 100.0.10.2 multicast
ip tcp adjust-mss 1200
nhrp group spoke_group1
cts sgt inline
bfd interval 1000 min_rx 1000 multiplier 5
no bfd echo
tunnel source Loopback1
tunnel mode gre multipoint
tunnel path-mtu-discovery
tunnel protection ipsec profile dmvpn-hub
!
interface GigabitEthernet0/0/0
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/1
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/2
no ip address
negotiation auto
!
interface GigabitEthernet0/0/2.1
encapsulation dot1Q 100
vrf forwarding C1_1
ip address <removed>!
interface GigabitEthernet0/0/3
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/4
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/5
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/6
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/7
no ip address
shutdown
negotiation auto
!
interface TenGigabitEthernet0/1/0
ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
no ip address
shutdown

```

```

    no negotiation auto
    !
interface TenGigabitEthernet0/1/2
    no ip address
    shutdown
    no negotiation auto
    !
interface TenGigabitEthernet0/1/3
    no ip address
    shutdown
    no negotiation auto
    !
interface TenGigabitEthernet0/1/4
    no ip address
    shutdown
    no negotiation auto
    !
interface TenGigabitEthernet0/1/5
    no ip address
    shutdown
    no negotiation auto
    !
interface TenGigabitEthernet0/1/6
    no ip address
    shutdown
    no negotiation auto
    !
interface TenGigabitEthernet0/1/7
    no ip address
    shutdown
    no negotiation auto
    !
interface GigabitEthernet0
    vrf forwarding Mgmt-intf
    ip address <removed> negotiation auto
    !
    !
router eigrp 101
    !
    address-family ipv4 vrf C1_1 autonomous-system 101
        network 10.2.2.0 0.0.0.255
        network 192.0.0.0 0.255.255.255
        passive-interface GigabitEthernet0/0/2.1
    exit-address-family
    !
ip forward-protocol nd
    !
ip tftp source-interface GigabitEthernet0
ip tftp blocksize 8192
ip http server
ip http authentication local
ip http secure-server
ip ssh bulk-mode 131072
ip route 0.0.0.0 0.0.0.0 50.50.50.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.45.0.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
    !
    !
    !
    !
    !
control-plane
    !

```

```
!  
!  
!  
!  
!  
line con 0  
  exec-timeout 0 0  
  stopbits 1  
line aux 0  
line vty 0 4  
  login  
  transport input ssh  
!  
call-home  
  ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com  
  ! the email address configured in Cisco Smart License Portal will be used as contact email  
  ! address to send SCH notifications.  
  contact-email-addr sch-smart-licensing@cisco.com  
  profile "CiscoTAC-1"  
    active  
    destination transport-method http  
!  
!  
!  
!  
!  
end
```



```

!
!
!
!
!
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
  hash sha256
!
crypto pki trustpoint TP-self-signed-2134189379
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-2134189379
  revocation-check none
  rsa-keypair TP-self-signed-2134189379
  hash sha256
!
!
!
license udi pid C8500-12X4QC sn TTM231100CF
license boot level network-advantage addon dna-advantage
no memory lite
memory free low-watermark processor 982757
hw-module subslot 0/1 mode 10G
hw-module subslot 0/2 mode 40G
hw-module subslot 0/2 breakout none port all
!
!
spanning-tree extend system-id
diagnostic bootup level minimal
!
!
redundancy
  mode none
!
!
crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share
  keyring local ikev2keyring
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!

```

```
!  
!  
!  
!  
!  
!  
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac  
  mode tunnel  
!  
!  
crypto ipsec profile dmvpn-hub  
  set transform-set tset1  
  set pfs group19  
  set ikev2-profile ikev2profile  
!  
!  
!  
!  
!  
!  
!  
!  
interface Tunnell  
  bandwidth 100000  
  ip address <removed> no ip redirects  
  ip mtu 1400  
  ip hello-interval eigrp 101 30  
  ip hold-time eigrp 101 90  
  ip nhrp network-id 1000  
  ip nhrp holdtime 900  
  ip nhrp redirect  
  ip tcp adjust-mss 1200  
  ip summary-address eigrp 101 100.0.0.0 255.0.0.0  
  cts sgt inline  
  tunnel source TenGigabitEthernet0/1/0  
  tunnel mode gre multipoint  
  tunnel path-mtu-discovery  
  tunnel protection ipsec profile dmvpn-hub  
!  
interface TenGigabitEthernet0/0/0  
  no ip address  
  no negotiation auto  
!  
interface TenGigabitEthernet0/0/1  
  no ip address  
  no negotiation auto  
!  
interface TenGigabitEthernet0/0/2  
  no ip address  
  no negotiation auto  
!  
interface TenGigabitEthernet0/0/3  
  no ip address  
  no negotiation auto  
!  
interface TenGigabitEthernet0/0/4  
  no ip address  
  no negotiation auto  
!  
interface TenGigabitEthernet0/0/5  
  no ip address  
  no negotiation auto
```

```

!
interface TenGigabitEthernet0/0/6
  no ip address
  no negotiation auto
!
interface TenGigabitEthernet0/0/7
  no ip address
  no negotiation auto
!
interface TenGigabitEthernet0/1/0
  ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
  no ip address
  no negotiation auto
!
interface TenGigabitEthernet0/1/2
  no ip address
  no negotiation auto
!
interface TenGigabitEthernet0/1/3
  ip address <removed> no negotiation auto
!
interface FortyGigabitEthernet0/2/0
  no ip address
  no negotiation auto
!
interface FortyGigabitEthernet0/2/4
  no ip address
  no negotiation auto
!
interface FortyGigabitEthernet0/2/8
  no ip address
  no negotiation auto
!
interface GigabitEthernet0
  vrf forwarding Mgmt-intf
  ip address <removed> negotiation auto
!
router ospf 100
  network 100.0.10.0 0.0.0.255 area 0
!
router bgp 64001
  bgp router-id 1.1.1.2
  bgp log-neighbor-changes
  bgp listen range 192.0.0.0/8 peer-group DMVPN_SPOKES
  bgp listen limit 10000
  timers bgp 10 30
  neighbor DMVPN_SPOKES peer-group
  neighbor DMVPN_SPOKES remote-as 64001
!
address-family ipv4
  network 0.0.0.0
  network 150.100.0.0
  neighbor DMVPN_SPOKES activate
  neighbor DMVPN_SPOKES next-hop-self
  neighbor DMVPN_SPOKES as-override split-horizon
  exit-address-family
!
no ip http server
ip http secure-server
ip forward-protocol nd
!
ip tftp source-interface GigabitEthernet0

```

```

ip tftp blocksize 8192
ip route 0.0.0.0 0.0.0.0 Null0
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
ip ssh bulk-mode 131072
!
!
!
!
!
!
control-plane
!
!
!
!
!
!
line con 0
  exec-timeout 0 0
  stopbits 1
line aux 0
line vty 0 4
  login
  transport input ssh
!
call-home
  ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
  ! the email address configured in Cisco Smart License Portal will be used as contact email
  address to send SCH notifications.
  contact-email-addr sch-smart-licensing@cisco.com
  profile "CiscoTAC-1"
    active
    destination transport-method http
  !
  !
  !
  !
  !
  !
end

```

Configuration example for a spoke

```

version 17.6
service timestamps debug datetime msec
service timestamps log datetime msec
service internal
service call-home
platform qfp utilization monitor load 80
platform punt-keepalive disable-kernel-core
platform ipsec flexvpn-bypass-tcam
platform hardware crypto-throughput level 8-16g
!
hostname spk1
!
boot-start-marker
boot system bootflash:asr1000-universalk9.spk1.dmvpn_soak.SSA.bin
boot-end-marker
!
!
vrf definition Cl_0
  rd 1:0
  !
  address-family ipv4

```

Cisco SD-Routing DMVPN Yang Commands

```

!
license udi pid ASR1001-HX sn JAE24530LQG
license boot level adventerprise
no memory lite
memory free low-watermark processor 675468
!
!
spanning-tree extend system-id
diagnostic bootup level minimal
!
!
redundancy
mode none
!
!
crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share
  keyring local ikev2keyring
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
!
!
!
!
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
mode tunnel
!
!
crypto ipsec profile dmvpn-hub
  set transform-set tset1
  set pfs group19
  set ikev2-profile ikev2profile
!
!
!
!
!
!
!
!
!
!

```

```

!
interface Loopback1
 ip address <removed>!
interface Tunnel1
 bandwidth 100000
 vrf forwarding C1_0
 ip address <removed> no ip redirects
 ip hello-interval eigrp 101 30
 ip hold-time eigrp 101 90
 ip nhrp network-id 1000
 ip nhrp holdtime 900
 ip nhrp nhs 192.0.1.1 nbma 100.0.10.2 multicast
 ip tcp adjust-mss 1200
 cts sgt inline
 tunnel source Loopback1
 tunnel mode gre multipoint
 tunnel path-mtu-discovery
 tunnel protection ipsec profile dmvpn-hub
!
interface Tunnel2
 no ip address
!
interface GigabitEthernet0/0/0
 no ip address
 shutdown
 negotiation auto
!
interface GigabitEthernet0/0/1
 no ip address
 shutdown
 negotiation auto
!
interface GigabitEthernet0/0/2
 no ip address
 negotiation auto
!
interface GigabitEthernet0/0/2.1
 encapsulation dot1Q 100
 vrf forwarding C1_0
 ip address <removed>!
interface GigabitEthernet0/0/3
 no ip address
 shutdown
 negotiation auto
!
interface GigabitEthernet0/0/4
 no ip address
 shutdown
 negotiation auto
!
interface GigabitEthernet0/0/5
 no ip address
 shutdown
 negotiation auto
!
interface GigabitEthernet0/0/6
 no ip address
 shutdown
 negotiation auto
!
interface GigabitEthernet0/0/7
 no ip address
 shutdown
 negotiation auto

```

```
!  
interface TenGigabitEthernet0/1/0  
  ip address <removed> no negotiation auto  
!  
interface TenGigabitEthernet0/1/1  
  no ip address  
  shutdown  
  no negotiation auto  
!  
interface TenGigabitEthernet0/1/2  
  no ip address  
  shutdown  
  no negotiation auto  
!  
interface TenGigabitEthernet0/1/3  
  no ip address  
  shutdown  
  no negotiation auto  
!  
interface TenGigabitEthernet0/1/4  
  no ip address  
  shutdown  
  no negotiation auto  
!  
interface TenGigabitEthernet0/1/5  
  no ip address  
  shutdown  
  no negotiation auto  
!  
interface TenGigabitEthernet0/1/6  
  no ip address  
  shutdown  
  no negotiation auto  
!  
interface TenGigabitEthernet0/1/7  
  no ip address  
  shutdown  
  no negotiation auto  
!  
interface GigabitEthernet0  
  vrf forwarding Mgmt-intf  
  ip address <removed> negotiation auto  
!  
router ospf 100  
  network 50.50.50.0 0.0.0.255 area 0  
  network 208.200.0.2 0.0.0.0 area 0  
!  
router bgp 64001  
  bgp router-id 111.111.111.111  
  bgp log-neighbor-changes  
!  
  address-family ipv4 vrf C1_0  
    network 192.0.0.0  
    redistribute connected  
    neighbor 192.0.1.1 remote-as 64001  
    neighbor 192.0.1.1 activate  
  exit-address-family  
!  
ip http server  
ip http authentication local  
ip http secure-server  
ip forward-protocol nd  
!  
ip tftp source-interface GigabitEthernet0
```

```

ip tftp blocksize 8192
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.45.0.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
ip ssh bulk-mode 131072
!
!
!
!
!
!
control-plane
!
!
!
!
!
!
line con 0
  exec-timeout 0 0
  stopbits 1
line aux 0
line vty 0 4
  login
  transport input ssh
!
call-home
  ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
  ! the email address configured in Cisco Smart License Portal will be used as contact email
  address to send SCH notifications.
  contact-email-addr sch-smart-licensing@cisco.com
  profile "CiscoTAC-1"
    active
    destination transport-method http
  !
  !
  !
  !
  !
end

```



```

!
!
!
!
!
crypto pki trustpoint TP-self-signed-2134189379
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-2134189379
  revocation-check none
  rsakeypair TP-self-signed-2134189379
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
!
!
license udi pid C8500-12X4QC sn TTM231100CF
license boot level network-advantage addon dna-advantage
no memory lite
memory free low-watermark processor 984138
hw-module subslot 0/1 mode 10G
hw-module subslot 0/2 mode 40G
hw-module subslot 0/2 breakout none port all
!
!
spanning-tree extend system-id
diagnostic bootup level minimal
!
!
redundancy
  mode none
!
!
crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share
  keyring local ikev2keyring
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
!
!
!
!
!
!

```

```

!
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
 mode transport
!
!
crypto ipsec profile dmvpn-hub
 set transform-set tset1
 set pfs group19
 set ikev2-profile ikev2profile
!
!
!
!
!
!
!
!
interface Tunnel1
 bandwidth 100000
 ip address <removed> no ip redirects
 ip mtu 1400
 ip hello-interval eigrp 101 30
 ip hold-time eigrp 101 90
 ip nhrp network-id 1000
 ip nhrp holdtime 900
 ip nhrp redirect
 ip tcp adjust-mss 1200
 ip summary-address eigrp 101 100.0.0.0 255.0.0.0
 cts sgt inline
 tunnel source TenGigabitEthernet0/1/0
 tunnel mode gre multipoint
 tunnel path-mtu-discovery
 tunnel protection ipsec profile dmvpn-hub
!
interface TenGigabitEthernet0/0/0
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/1
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/2
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/3
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/4
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/5
 no ip address

```

```

shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/6
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/7
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/0
ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/2
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/3
ip address <removed> no negotiation auto
!
interface FortyGigabitEthernet0/2/0
no ip address
shutdown
no negotiation auto
!
interface FortyGigabitEthernet0/2/4
no ip address
shutdown
no negotiation auto
!
interface FortyGigabitEthernet0/2/8
no ip address
shutdown
no negotiation auto
!
interface GigabitEthernet0
vrf forwarding Mgmt-intf
ip address <removed> negotiation auto
!
router ospf 100
network 100.0.10.0 0.0.0.255 area 0
!
router bgp 64001
bgp router-id 1.1.1.2
bgp log-neighbor-changes
bgp listen range 192.0.0.0/8 peer-group DMVPN_SPOKES
bgp listen limit 10000
timers bgp 10 30
neighbor DMVPN_SPOKES peer-group
neighbor DMVPN_SPOKES remote-as 64001
!
address-family ipv4
network 0.0.0.0
network 150.100.0.0
neighbor DMVPN_SPOKES activate

```

```

    neighbor DMVPN_SPOKES next-hop-self
    neighbor DMVPN_SPOKES as-override split-horizon
    exit-address-family
    !
    ip http server
    ip http authentication local
    ip http secure-server
    ip forward-protocol nd
    !
    ip tftp source-interface GigabitEthernet0
    ip tftp blocksize 8192
    ip route 0.0.0.0 0.0.0.0 Null0
    ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
    !
    !
    !
    !
    !
    control-plane
    !
    !
    !
    !
    !
    line con 0
        exec-timeout 0 0
        stopbits 1
    line aux 0
    line vty 0 4
        login
        transport input ssh
    !
    call-home
    ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
    ! the email address configured in Cisco Smart License Portal will be used as contact email
    ! address to send SCH notifications.
    contact-email-addr sch-smart-licensing@cisco.com
    profile "CiscoTAC-1"
        active
        destination transport-method http
    !
    !
    !
    !
    !
    end

```

Configuration example for hub2

```

version 17.6
service timestamps debug datetime msec
service timestamps log datetime msec
service internal
service call-home
platform qfp utilization monitor load 80
platform punt-keepalive disable-kernel-core
!
hostname DC2-Hub1
!
boot-start-marker
boot system bootflash:c8000aep-universalk9.DC2-Hub1.dmvpn_soak.SSA.bin

```

```

boot-end-marker
!
!
vrf definition Mgmt-intf
!
  address-family ipv4
  exit-address-family
!
  address-family ipv6
  exit-address-family
!
no logging console
!
no aaa new-model
!
!
!
!
!
!
!
!
!
!
!
login on-success log
!
!
!
!
!
!
subscriber templating
!
!
!
!
!
!
multilink bundle-name authenticated
!
!
!
!
!
!
!
crypto pki trustpoint TP-self-signed-345927470
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-345927470
  revocation-check none
  rsakeypair TP-self-signed-345927470
  hash sha256
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
  hash sha256
!
!

```

```

!
license udi pid C8500-12X sn TTM224202LR
license boot level network-advantage addon dna-advantage
no memory lite
memory free low-watermark processor 675468
!
!
spanning-tree extend system-id
diagnostic bootup level minimal
!
!
redundancy
mode none
!
!
crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share
  keyring local ikev2keyring
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
!
!
!
!
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
mode transport
!
!
crypto ipsec profile dmvpn-hub
  set transform-set tset1
  set pfs group19
  set ikev2-profile ikev2profile
!
!
!
!
!
!
!
!
!
!

```

```

!
interface Tunnell
bandwidth 100000
ip address <removed> no ip redirects
ip mtu 1400
ip hello-interval eigrp 101 30
ip hold-time eigrp 101 90
ip nhrp network-id 1000
ip nhrp holdtime 900
ip nhrp redirect
ip tcp adjust-mss 1200
ip summary-address eigrp 101 100.0.0.0 255.0.0.0
cts sgt inline
tunnel source TenGigabitEthernet0/0/0
tunnel mode gre multipoint
tunnel path-mtu-discovery
tunnel protection ipsec profile dmvpn-hub
!
interface TenGigabitEthernet0/0/0
ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/0/1
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/2
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/3
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/4
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/5
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/6
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/7
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/8
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/9
no ip address
shutdown

```

```

    no negotiation auto
    !
interface TenGigabitEthernet0/0/10
    ip address <removed> no negotiation auto
    !
interface TenGigabitEthernet0/0/11
    no ip address
    shutdown
    no negotiation auto
    !
interface GigabitEthernet0
    vrf forwarding Mgmt-intf
    ip address <removed> negotiation auto
    !
router ospf 100
    network 200.0.10.0 0.0.0.255 area 0
    !
router bgp 64001
    bgp router-id 1.1.1.3
    bgp log-neighbor-changes
    bgp listen range 193.0.0.0/8 peer-group DMVPN_SPOKES
    bgp listen limit 10000
    timers bgp 10 30
    neighbor DMVPN_SPOKES peer-group
    neighbor DMVPN_SPOKES remote-as 64001
    !
address-family ipv4
    network 0.0.0.0
    network 150.100.0.0
    neighbor DMVPN_SPOKES activate
    neighbor DMVPN_SPOKES next-hop-self
    neighbor DMVPN_SPOKES as-override split-horizon
    exit-address-family
    !
ip http server
ip http authentication local
ip http secure-server
ip forward-protocol nd
    !
ip tftp source-interface GigabitEthernet0
ip tftp blocksize 8192
ip route 0.0.0.0 0.0.0.0 Null0
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
ip ssh bulk-mode 131072
    !
    !
    !
    !
    !
    !
control-plane
    !
    !
    !
    !
    !
line con 0
    exec-timeout 0 0
    stopbits 1
line aux 0
line vty 0
    login
    length 0

```

```

transport input ssh
line vty 1 4
login
transport input ssh
!
call-home
! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
! the email address configured in Cisco Smart License Portal will be used as contact email
address to send SCH notifications.
contact-email-addr sch-smart-licensing@cisco.com
profile "CiscoTAC-1"
active
destination transport-method http
!
!
!
!
!
!
end

DC2-Hub1#

```

Configuration example for spoke

```

version 17.13
service timestamps debug datetime msec
service timestamps log datetime msec
service internal
service call-home
platform qfp utilization monitor load 80
platform punt-keepalive disable-kernel-core
platform ipsec flexvpn-bypass-tcam
platform hardware crypto-throughput level 8-16g
!
hostname spk1
!
boot-start-marker
boot system bootflash:asr1000-universalk9.spk1.dmvpn_soak.SSA.bin
boot-end-marker
!
!
vrf definition C1_0
rd 1:0
!
address-family ipv4
exit-address-family
!
vrf definition C1_1
rd 1:1
!
address-family ipv4
exit-address-family
!
vrf definition Mgmt-intf
!
address-family ipv4
exit-address-family
!
address-family ipv6
exit-address-family
!
no logging console
no aaa new-model

```

```

!
!
subscriber templating
!
!
!
!
!
!
!
!
!
!
login on-success log
!
!
!
!
!
!
!
!
!
!
!
!
crypto pki trustpoint TP-self-signed-1147572831
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-1147572831
  revocation-check none
  rsakeypair TP-self-signed-1147572831
  hash sha256
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
  hash sha256
!
!
!
!
!
!
!
!
!
!
!
license udi pid ASR1001-HX sn JAE24530LQG
license boot level adventerprise
!
no memory lite
memory free low-watermark processor 675468
diagnostic bootup level minimal
!
spanning-tree extend system-id
!
!
!
redundancy
  mode none
!

```

```

crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share
  keyring local ikev2keyring
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
!
!
!
!
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
  mode transport
!
!
crypto ipsec profile dmpvpn-hub
  set transform-set tset1
  set pfs group19
  set ikev2-profile ikev2profile
!
!
!
!
!
!
!
!
interface Loopback1
  ip address <removed>!
interface Loopback2
  ip address <removed>!
interface Tunnell
  bandwidth 100000
  vrf forwarding C1_0
  ip address <removed> no ip redirects
  ip hello-interval eigrp 101 30
  ip hold-time eigrp 101 90
  ip nhrp network-id 1000
  ip nhrp holdtime 900
  ip nhrp nhs 192.0.1.1 nbma 100.0.10.2 multicast
  ip tcp adjust-mss 1200

```

```
cts sgt inline
tunnel source Loopback1
tunnel mode gre multipoint
tunnel path-mtu-discovery
tunnel protection ipsec profile dmvpn-hub
!
interface Tunnel2
bandwidth 100000
vrf forwarding Cl_1
ip address <removed> no ip redirects
ip hello-interval eigrp 101 30
ip hold-time eigrp 101 90
ip nhrp network-id 1000
ip nhrp holdtime 900
ip nhrp nhs 193.0.2.1 nbma 200.0.10.2 multicast
ip tcp adjust-mss 1200
cts sgt inline
tunnel source Loopback2
tunnel mode gre multipoint
tunnel path-mtu-discovery
tunnel protection ipsec profile dmvpn-hub
!
interface Tunnel3
no ip address
!
interface Tunnel4
no ip address
!
interface Tunnel5
no ip address
!
interface Tunnel6
no ip address
!
interface Tunnel7
no ip address
!
interface Tunnel8
no ip address
!
interface Tunnel9
no ip address
!
interface Tunnel10
no ip address
!
interface Tunnel11
no ip address
!
interface Tunnel12
no ip address
!
interface Tunnel13
no ip address
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interface Tunnel14
no ip address
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interface Tunnel15
no ip address
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interface Tunnel16
no ip address
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interface Tunnel17
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interface Tunnel18
  no ip address
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interface Tunnel19
  no ip address
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interface Tunnel20
  no ip address
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interface Tunnel21
  no ip address
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interface Tunnel22
  no ip address
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interface Tunnel23
  no ip address
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interface Tunnel24
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interface Tunnel25
  no ip address
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interface Tunnel26
  no ip address
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interface Tunnel27
  no ip address
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interface Tunnel28
  no ip address
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interface Tunnel29
  no ip address
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interface Tunnel30
  no ip address
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interface Tunnel31
  no ip address
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interface Tunnel32
  no ip address
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interface Tunnel33
  no ip address
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interface Tunnel34
  no ip address
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interface Tunnel35
  no ip address
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interface Tunnel36
  no ip address
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interface Tunnel37
  no ip address
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interface Tunnel38
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no ip address
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interface Tunnel139
no ip address
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interface Tunnel140
no ip address
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interface Tunnel141
no ip address
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interface Tunnel142
no ip address
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interface Tunnel143
no ip address
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interface Tunnel144
no ip address
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interface Tunnel145
no ip address
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interface Tunnel146
no ip address
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interface Tunnel147
no ip address
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interface Tunnel148
no ip address
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interface Tunnel149
no ip address
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interface Tunnel150
no ip address
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interface Tunnel151
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interface Tunnel152
no ip address
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interface Tunnel153
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interface Tunnel154
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interface Tunnel155
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interface Tunnel156
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interface Tunnel157
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interface Tunnel158
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interface Tunnel159
no ip address
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interface Tunnel60  
  no ip address  
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interface Tunnel61  
  no ip address  
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interface Tunnel62  
  no ip address  
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interface Tunnel63  
  no ip address  
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interface Tunnel64  
  no ip address  
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interface Tunnel65  
  no ip address  
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interface Tunnel66  
  no ip address  
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interface Tunnel67  
  no ip address  
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interface Tunnel68  
  no ip address  
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interface Tunnel69  
  no ip address  
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interface Tunnel70  
  no ip address  
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interface Tunnel71  
  no ip address  
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interface Tunnel72  
  no ip address  
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interface Tunnel73  
  no ip address  
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interface Tunnel74  
  no ip address  
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interface Tunnel75  
  no ip address  
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interface Tunnel76  
  no ip address  
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interface Tunnel77  
  no ip address  
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interface Tunnel78  
  no ip address  
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interface Tunnel79  
  no ip address  
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interface Tunnel80  
  no ip address  
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interface Tunnel81
  no ip address
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interface Tunnel82
  no ip address
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interface Tunnel83
  no ip address
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interface Tunnel84
  no ip address
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interface Tunnel85
  no ip address
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interface Tunnel86
  no ip address
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interface Tunnel87
  no ip address
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interface Tunnel88
  no ip address
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interface Tunnel89
  no ip address
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interface Tunnel90
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interface Tunnel91
  no ip address
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interface Tunnel92
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interface Tunnel93
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interface Tunnel96
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interface Tunnel97
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interface Tunnel98
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interface Tunnel100
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interface Tunnel101
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interface Tunnel102
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interface Tunnel103
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interface Tunnel107
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interface Tunnel109
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interface Tunnel110
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interface Tunnel111
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interface Tunnel112
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interface Tunnel113
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interface Tunnel114
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interface Tunnel115
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interface Tunnel116
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interface Tunnel117
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interface Tunnel118
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interface Tunnel119
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interface Tunnel120
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interface Tunnel121
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interface Tunnel123
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interface Tunnel124  
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interface Tunnel125  
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interface Tunnel145
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interface Tunnel250
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interface Tunnel251
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interface Tunnel252  
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interface Tunnel253  
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interface Tunnel270  
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interface Tunnel271  
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interface Tunnel272  
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interface Tunnel273
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interface Tunnel274
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interface Tunnel275
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interface Tunnel276
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interface Tunnel277
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interface Tunnel278
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interface Tunnel279
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interface Tunnel281
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interface Tunnel282
  no ip address
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interface Tunnel283
  no ip address
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interface Tunnel284
  no ip address
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interface Tunnel285
  no ip address
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interface Tunnel286
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interface Tunnel287
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interface Tunnel288
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interface Tunnel289
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interface Tunnel290
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interface Tunnel291
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interface Tunnel292
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interface Tunnel293
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interface Tunnel294
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no ip address
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interface Tunnel295
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interface Tunnel296
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interface Tunnel297
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interface Tunnel298
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interface Tunnel299
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interface Tunnel300
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interface Tunnel301
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interface Tunnel302
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interface Tunnel303
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interface Tunnel304
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interface Tunnel305
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interface Tunnel306
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interface Tunnel307
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interface Tunnel308
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interface Tunnel311
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interface Tunnel312
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interface Tunnel313
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interface Tunnel314
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interface Tunnel315
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interface Tunnel316  
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interface Tunnel317  
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interface Tunnel318  
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interface Tunnel319  
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interface Tunnel320  
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interface Tunnel335  
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interface Tunnel336  
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interface Tunnel337
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interface Tunnel338
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interface Tunnel339
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interface Tunnel340
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interface Tunnel341
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interface Tunnel342
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interface Tunnel343
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interface Tunnel379
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interface Tunnel380  
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interface Tunnel386  
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interface Tunnel387  
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interface Tunnel388  
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interface Tunnel390  
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interface Tunnel391  
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interface Tunnel399  
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interface Tunnel400  
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interface Tunnel401
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interface Tunnel402
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interface Tunnel403
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interface Tunnel404
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interface Tunnel408
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interface Tunnel409
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interface Tunnel410
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interface Tunnel422
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interface Tunnel700  
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interface Tunnel719  
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interface Tunnel720  
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interface Tunnel739
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interface Tunnel740
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interface Tunnel742
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interface Tunnel743
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interface Tunnel785
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interface Tunnel788
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interface Tunnel790
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interface Tunnel806
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interface Tunnel840  
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interface Tunnel847  
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interface Tunnel849
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interface Tunnel851
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interface Tunnel866
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interface Tunnel868
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interface Tunnel869
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interface Tunnel870
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interface Tunnel871
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interface Tunnel888
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interface Tunnel889
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interface Tunnel890
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interface Tunnel891
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interface Tunnel893  
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!
interface Tunnel918
  no ip address
!
interface Tunnel919
  no ip address
!
interface Tunnel920
  no ip address
!
interface Tunnel921
  no ip address
!
interface Tunnel922
  no ip address
!
interface Tunnel923
  no ip address
!
interface Tunnel924
  no ip address
!
interface Tunnel925
  no ip address
!
interface Tunnel926
  no ip address
!
interface Tunnel927
  no ip address
!
interface Tunnel928
  no ip address
!
interface Tunnel929
  no ip address
!
interface Tunnel930
  no ip address
!
interface Tunnel931
  no ip address
!
interface Tunnel932
  no ip address
!
interface Tunnel933
  no ip address
!
interface Tunnel934
```

```
no ip address
!
interface Tunnel935
no ip address
!
interface Tunnel936
no ip address
!
interface Tunnel937
no ip address
!
interface Tunnel938
no ip address
!
interface Tunnel939
no ip address
!
interface Tunnel940
no ip address
!
interface Tunnel941
no ip address
!
interface Tunnel942
no ip address
!
interface Tunnel943
no ip address
!
interface Tunnel944
no ip address
!
interface Tunnel945
no ip address
!
interface Tunnel946
no ip address
!
interface Tunnel947
no ip address
!
interface Tunnel948
no ip address
!
interface Tunnel949
no ip address
!
interface Tunnel950
no ip address
!
interface Tunnel951
no ip address
!
interface Tunnel952
no ip address
!
interface Tunnel953
no ip address
!
interface Tunnel954
no ip address
!
interface Tunnel955
no ip address
```

```
!  
interface Tunnel956  
  no ip address  
!  
interface Tunnel957  
  no ip address  
!  
interface Tunnel958  
  no ip address  
!  
interface Tunnel959  
  no ip address  
!  
interface Tunnel960  
  no ip address  
!  
interface Tunnel961  
  no ip address  
!  
interface Tunnel962  
  no ip address  
!  
interface Tunnel963  
  no ip address  
!  
interface Tunnel964  
  no ip address  
!  
interface Tunnel965  
  no ip address  
!  
interface Tunnel966  
  no ip address  
!  
interface Tunnel967  
  no ip address  
!  
interface Tunnel968  
  no ip address  
!  
interface Tunnel969  
  no ip address  
!  
interface Tunnel970  
  no ip address  
!  
interface Tunnel971  
  no ip address  
!  
interface Tunnel972  
  no ip address  
!  
interface Tunnel973  
  no ip address  
!  
interface Tunnel974  
  no ip address  
!  
interface Tunnel975  
  no ip address  
!  
interface Tunnel976  
  no ip address  
!
```

```
interface Tunnel977
  no ip address
!
interface Tunnel978
  no ip address
!
interface Tunnel979
  no ip address
!
interface Tunnel980
  no ip address
!
interface Tunnel981
  no ip address
!
interface Tunnel982
  no ip address
!
interface Tunnel983
  no ip address
!
interface Tunnel984
  no ip address
!
interface Tunnel985
  no ip address
!
interface Tunnel986
  no ip address
!
interface Tunnel987
  no ip address
!
interface Tunnel988
  no ip address
!
interface Tunnel989
  no ip address
!
interface Tunnel990
  no ip address
!
interface Tunnel991
  no ip address
!
interface Tunnel992
  no ip address
!
interface Tunnel993
  no ip address
!
interface Tunnel994
  no ip address
!
interface Tunnel995
  no ip address
!
interface Tunnel996
  no ip address
!
interface Tunnel997
  no ip address
!
interface Tunnel998
```

```

    no ip address
    !
    interface Tunnel999
    no ip address
    !
    interface Tunnel1000
    no ip address
    !
    interface GigabitEthernet0/0/0
    no ip address
    shutdown
    negotiation auto
    !
    interface GigabitEthernet0/0/1
    no ip address
    shutdown
    negotiation auto
    !
    interface GigabitEthernet0/0/2
    no ip address
    negotiation auto
    !
    interface GigabitEthernet0/0/2.1
    encapsulation dot1Q 100
    vrf forwarding C1_0
    ip address <removed>!
    interface GigabitEthernet0/0/2.2
    encapsulation dot1Q 101
    vrf forwarding C1_1
    ip address <removed>!
    interface GigabitEthernet0/0/3
    no ip address
    shutdown
    negotiation auto
    !
    interface GigabitEthernet0/0/4
    no ip address
    shutdown
    negotiation auto
    !
    interface GigabitEthernet0/0/5
    no ip address
    shutdown
    negotiation auto
    !
    interface GigabitEthernet0/0/6
    no ip address
    shutdown
    negotiation auto
    !
    interface GigabitEthernet0/0/7
    no ip address
    shutdown
    negotiation auto
    !
    interface TenGigabitEthernet0/1/0
    ip address <removed> no negotiation auto
    !
    interface TenGigabitEthernet0/1/1
    no ip address
    shutdown
    no negotiation auto
    !
    interface TenGigabitEthernet0/1/2

```

```
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/3
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/4
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/5
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/6
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/7
no ip address
shutdown
no negotiation auto
!
interface GigabitEthernet0
vrf forwarding Mgmt-intf
ip address <removed> negotiation auto
!
router ospf 100
network 50.50.50.0 0.0.0.255 area 0
network 208.200.0.2 0.0.0.0 area 0
network 208.200.0.3 0.0.0.0 area 0
!
router bgp 64001
bgp router-id 111.111.111.111
bgp log-neighbor-changes
!
address-family ipv4 vrf C1_0
network 192.0.0.0
redistribute connected
neighbor 192.0.1.1 remote-as 64001
neighbor 192.0.1.1 activate
exit-address-family
!
address-family ipv4 vrf C1_1
network 193.0.0.0
redistribute connected
neighbor 193.0.2.1 remote-as 64001
neighbor 193.0.2.1 activate
exit-address-family
!
ip forward-protocol nd
!
ip tftp source-interface GigabitEthernet0
ip tftp blocksize 8192
ip http server
ip http authentication local
ip http secure-server
ip ssh bulk-mode 131072
```

```

ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.45.0.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
!
!
!
!
!
control-plane
!
!
!
!
!
line con 0
  exec-timeout 0 0
  stopbits 1
line aux 0
line vty 0 4
  login
  transport input ssh
!
call-home
  ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
  ! the email address configured in Cisco Smart License Portal will be used as contact email
  ! address to send SCH notifications.
  contact-email-addr sch-smart-licensing@cisco.com
  profile "CiscoTAC-1"
    active
    destination transport-method http
  !
  !
  !
  !
  !
end

```



```

!
!
!
!
!
crypto pki trustpoint TP-self-signed-2134189379
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-2134189379
  revocation-check none
  rsakeypair TP-self-signed-2134189379
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
!
!
!
!
license udi pid C8500-12X4QC sn TTM231100CF
license boot level network-advantage addon dna-advantage
no memory lite
memory free low-watermark processor 984138
hw-module subslot 0/1 mode 10G
hw-module subslot 0/2 mode 40G
hw-module subslot 0/2 breakout none port all
!
!
spanning-tree extend system-id
diagnostic bootup level minimal
!
!
redundancy
  mode none
!
!
crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share
  keyring local ikev2keyring
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
!
!
!
!
!

```

```

!
!
!
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
 mode tunnel
!
!
crypto ipsec profile dmvpn-hub
 set transform-set tset1
 set pfs group19
 set ikev2-profile ikev2profile
!
!
!
!
!
!
!
!
interface Tunnel1
 bandwidth 100000
 ip address <removed> no ip redirects
 ip mtu 1400
 ip hello-interval eigrp 101 30
 ip hold-time eigrp 101 90
 ip nhrp network-id 1000
 ip nhrp holdtime 900
 ip nhrp redirect
 ip tcp adjust-mss 1200
 ip summary-address eigrp 101 100.0.0.0 255.0.0.0
 cts sgt inline
 tunnel source TenGigabitEthernet0/1/0
 tunnel mode gre multipoint
 tunnel path-mtu-discovery
 tunnel protection ipsec profile dmvpn-hub
!
interface TenGigabitEthernet0/0/0
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/1
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/2
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/3
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/4
 no ip address
 shutdown
 no negotiation auto
!

```

```

interface TenGigabitEthernet0/0/5
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/0/6
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/0/7
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/1/0
  ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/1/2
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/1/3
  ip address <removed> no negotiation auto
!
interface FortyGigabitEthernet0/2/0
  no ip address
  shutdown
  no negotiation auto
!
interface FortyGigabitEthernet0/2/4
  no ip address
  shutdown
  no negotiation auto
!
interface FortyGigabitEthernet0/2/8
  no ip address
  shutdown
  no negotiation auto
!
interface GigabitEthernet0
  vrf forwarding Mgmt-intf
  ip address <removed> negotiation auto
!
router ospf 100
  network 100.0.10.0 0.0.0.255 area 0
!
router bgp 64001
  bgp router-id 1.1.1.2
  bgp log-neighbor-changes
  bgp listen range 192.0.0.0/8 peer-group DMVPN_SPOKES
  bgp listen limit 10000
  timers bgp 10 30
  neighbor DMVPN_SPOKES peer-group
  neighbor DMVPN_SPOKES remote-as 64001
!
  address-family ipv4
    network 0.0.0.0

```

```

network 150.100.0.0
neighbor DMVPN_SPOKES activate
neighbor DMVPN_SPOKES next-hop-self
neighbor DMVPN_SPOKES as-override split-horizon
exit-address-family
!
ip http server
ip http authentication local
ip http secure-server
ip forward-protocol nd
!
ip tftp source-interface GigabitEthernet0
ip tftp blocksize 8192
ip route 0.0.0.0 0.0.0.0 Null0
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
!
!
!
!
!
!
control-plane
!
!
!
!
!
!
line con 0
  exec-timeout 0 0
  stopbits 1
line aux 0
line vty 0 4
  login
  transport input ssh
!
call-home
  ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
  ! the email address configured in Cisco Smart License Portal will be used as contact email
  address to send SCH notifications.
  contact-email-addr sch-smart-licensing@cisco.com
  profile "CiscoTAC-1"
    active
    destination transport-method http
  !
  !
  !
  !
  !
  !
end

```

Configuration example for hub2

```

version 17.6
service timestamps debug datetime msec
service timestamps log datetime msec
service internal
service call-home
platform qfp utilization monitor load 80
platform punt-keepalive disable-kernel-core
!
hostname DC2-Hub1
!

```

Cisco SD-Routing DMVPN Yang Commands

```

!
!
!
license udi pid C8500-12X sn TTM224202LR
license boot level network-advantage addon dna-advantage
no memory lite
memory free low-watermark processor 675468
!
!
spanning-tree extend system-id
diagnostic bootup level minimal
!
!
redundancy
 mode none
!
!
crypto ikev2 proposal ikev2proposal
 encryption aes-cbc-192
 integrity sha512
 group 16
!
crypto ikev2 policy ikev2policy
 proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
 peer ikev2peer
  address 0.0.0.0 0.0.0.0
  pre-shared-key Cisco@123
!
!
!
crypto ikev2 profile ikev2profile
 match identity remote address 0.0.0.0
 authentication remote pre-share
 authentication local pre-share
 keyring local ikev2keyring
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
!
!
!
!
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
 mode tunnel
!
!
crypto ipsec profile dmvpn-hub
 set transform-set tset1
 set pfs group19
 set ikev2-profile ikev2profile
!
!
!
!
!
!
!

```

```

!
!
!
interface Tunnel1
bandwidth 100000
ip address <removed> no ip redirects
ip mtu 1400
ip hello-interval eigrp 101 30
ip hold-time eigrp 101 90
ip nhrp network-id 1000
ip nhrp holdtime 900
ip nhrp redirect
ip tcp adjust-mss 1200
ip summary-address eigrp 101 100.0.0.0 255.0.0.0
cts sgt inline
tunnel source TenGigabitEthernet0/0/0
tunnel mode gre multipoint
tunnel path-mtu-discovery
tunnel protection ipsec profile dmvpn-hub
!
interface TenGigabitEthernet0/0/0
ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/0/1
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/2
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/3
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/4
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/5
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/6
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/7
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/8
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/9

```

```

no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/10
ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/0/11
no ip address
shutdown
no negotiation auto
!
interface GigabitEthernet0
vrf forwarding Mgmt-intf
ip address <removed> negotiation auto
!
router ospf 100
network 200.0.10.0 0.0.0.255 area 0
!
router bgp 64001
bgp router-id 1.1.1.3
bgp log-neighbor-changes
bgp listen range 193.0.0.0/8 peer-group DMVPN_SPOKES
bgp listen limit 10000
timers bgp 10 30
neighbor DMVPN_SPOKES peer-group
neighbor DMVPN_SPOKES remote-as 64001
!
address-family ipv4
network 0.0.0.0
network 150.100.0.0
neighbor DMVPN_SPOKES activate
neighbor DMVPN_SPOKES next-hop-self
neighbor DMVPN_SPOKES as-override split-horizon
exit-address-family
!
ip http server
ip http authentication local
ip http secure-server
ip forward-protocol nd
!
ip tftp source-interface GigabitEthernet0
ip tftp blocksize 8192
ip route 0.0.0.0 0.0.0.0 Null0
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
ip ssh bulk-mode 131072
!
!
!
!
!
!
control-plane
!
!
!
!
!
!
line con 0
exec-timeout 0 0
stopbits 1
line aux 0
line vty 0

```

```

login
length 0
transport input ssh
line vty 1 4
login
transport input ssh
!
call-home
! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
! the email address configured in Cisco Smart License Portal will be used as contact email
address to send SCH notifications.
contact-email-addr sch-smart-licensing@cisco.com
profile "CiscoTAC-1"
active
destination transport-method http
!
!
!
!
!
!
end

```

Configuration example for spoke

```

version 17.13
service timestamps debug datetime msec
service timestamps log datetime msec
service internal
service call-home
platform qfp utilization monitor load 80
platform punt-keepalive disable-kernel-core
platform ipsec flexvpn-bypass-tcam
platform hardware crypto-throughput level 8-16g
!
hostname spk1
!
boot-start-marker
boot system bootflash:asr1000-universalk9.spk1.dmvpn_soak.SSA.bin
boot-end-marker
!
!
vrf definition C1_0
rd 1:0
!
address-family ipv4
exit-address-family
!
vrf definition C1_1
rd 1:1
!
address-family ipv4
exit-address-family
!
vrf definition Mgmt-intf
!
address-family ipv4
exit-address-family
!
address-family ipv6
exit-address-family
!
no logging console
no aaa new-model

```

```
!  
!  
subscriber templating  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
login on-success log  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
crypto pki trustpoint TP-self-signed-1147572831  
  enrollment selfsigned  
  subject-name cn=IOS-Self-Signed-Certificate-1147572831  
  revocation-check none  
  rsakeypair TP-self-signed-1147572831  
  hash sha256  
!  
crypto pki trustpoint SLA-TrustPoint  
  enrollment pkcs12  
  revocation-check crl  
  hash sha256  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
license udi pid ASR1001-HX sn JAE24530LQG  
license boot level adventerprise  
!  
no memory lite  
memory free low-watermark processor 675468  
diagnostic bootup level minimal  
!  
spanning-tree extend system-id  
!  
!  
!  
redundancy  
  mode none  
!
```

```

crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share
  keyring local ikev2keyring
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
!
!
!
!
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
  mode tunnel
!
!
crypto ipsec profile dmpvpn-hub
  set transform-set tset1
  set pfs group19
  set ikev2-profile ikev2profile
!
!
!
!
!
!
!
!
interface Loopback1
  ip address <removed>!
interface Loopback2
  ip address <removed>!
interface Tunnel1
  bandwidth 100000
  vrf forwarding C1_0
  ip address <removed> no ip redirects
  ip hello-interval eigrp 101 30
  ip hold-time eigrp 101 90
  ip nhrp network-id 1000
  ip nhrp holdtime 900
  ip nhrp nhs 192.0.1.1 nbma 100.0.10.2 multicast
  ip tcp adjust-mss 1200

```

```
cts sgt inline
tunnel source Loopback1
tunnel mode gre multipoint
tunnel path-mtu-discovery
tunnel protection ipsec profile dmvpn-hub
!
interface Tunnel2
bandwidth 100000
vrf forwarding Cl_1
ip address <removed> no ip redirects
ip hello-interval eigrp 101 30
ip hold-time eigrp 101 90
ip nhrp network-id 1000
ip nhrp holdtime 900
ip nhrp nhs 193.0.2.1 nbma 200.0.10.2 multicast
ip tcp adjust-mss 1200
cts sgt inline
tunnel source Loopback2
tunnel mode gre multipoint
tunnel path-mtu-discovery
tunnel protection ipsec profile dmvpn-hub
!
interface Tunnel3
no ip address
!
interface Tunnel4
no ip address
!
interface Tunnel5
no ip address
!
interface Tunnel6
no ip address
!
interface Tunnel7
no ip address
!
interface Tunnel8
no ip address
!
interface Tunnel9
no ip address
!
interface Tunnel10
no ip address
!
interface Tunnel11
no ip address
!
interface Tunnel12
no ip address
!
interface Tunnel13
no ip address
!
interface Tunnel14
no ip address
!
interface Tunnel15
no ip address
!
interface Tunnel16
no ip address
!
```

```
interface Tunnel17
  no ip address
!
interface Tunnel18
  no ip address
!
interface Tunnel19
  no ip address
!
interface Tunnel20
  no ip address
!
interface Tunnel21
  no ip address
!
interface Tunnel22
  no ip address
!
interface Tunnel23
  no ip address
!
interface Tunnel24
  no ip address
!
interface Tunnel25
  no ip address
!
interface Tunnel26
  no ip address
!
interface Tunnel27
  no ip address
!
interface Tunnel28
  no ip address
!
interface Tunnel29
  no ip address
!
interface Tunnel30
  no ip address
!
interface Tunnel31
  no ip address
!
interface Tunnel32
  no ip address
!
interface Tunnel33
  no ip address
!
interface Tunnel34
  no ip address
!
interface Tunnel35
  no ip address
!
interface Tunnel36
  no ip address
!
interface Tunnel37
  no ip address
!
interface Tunnel38
```

```
no ip address
!
interface Tunnel39
no ip address
!
interface Tunnel40
no ip address
!
interface Tunnel41
no ip address
!
interface Tunnel42
no ip address
!
interface Tunnel43
no ip address
!
interface Tunnel44
no ip address
!
interface Tunnel45
no ip address
!
interface Tunnel46
no ip address
!
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interface Tunnel561
no ip address
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interface Tunnel562
no ip address
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interface Tunnel563
no ip address
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interface Tunnel564
no ip address
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interface Tunnel565
no ip address
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interface Tunnel566
no ip address
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interface Tunnel567
no ip address
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interface Tunnel568
no ip address
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interface Tunnel569
no ip address
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interface Tunnel570
no ip address
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interface Tunnel571
no ip address
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interface Tunnel572  
  no ip address  
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interface Tunnel573  
  no ip address  
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interface Tunnel574  
  no ip address  
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interface Tunnel575  
  no ip address  
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interface Tunnel576  
  no ip address  
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interface Tunnel577  
  no ip address  
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interface Tunnel578  
  no ip address  
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interface Tunnel579  
  no ip address  
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interface Tunnel580  
  no ip address  
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interface Tunnel581  
  no ip address  
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interface Tunnel582  
  no ip address  
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interface Tunnel583  
  no ip address  
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interface Tunnel584  
  no ip address  
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interface Tunnel585  
  no ip address  
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interface Tunnel586  
  no ip address  
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interface Tunnel587  
  no ip address  
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interface Tunnel588  
  no ip address  
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interface Tunnel589  
  no ip address  
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interface Tunnel590  
  no ip address  
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interface Tunnel591  
  no ip address  
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interface Tunnel592  
  no ip address  
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interface Tunnel593
  no ip address
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interface Tunnel594
  no ip address
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interface Tunnel595
  no ip address
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interface Tunnel596
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interface Tunnel597
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interface Tunnel601
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interface Tunnel608
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interface Tunnel610
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interface Tunnel611
  no ip address
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interface Tunnel612
  no ip address
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interface Tunnel613
  no ip address
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interface Tunnel614
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interface Tunnel615
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interface Tunnel616
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interface Tunnel617
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interface Tunnel618
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interface Tunnel619
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interface Tunnel620
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interface Tunnel621
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interface Tunnel622
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interface Tunnel623
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interface Tunnel624
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interface Tunnel625
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interface Tunnel626
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interface Tunnel627
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interface Tunnel628
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interface Tunnel629
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interface Tunnel630
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interface Tunnel631
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interface Tunnel632
no ip address
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interface Tunnel633
no ip address
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interface Tunnel634
no ip address
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interface Tunnel635
no ip address
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interface Tunnel636  
  no ip address  
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interface Tunnel637  
  no ip address  
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interface Tunnel638  
  no ip address  
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interface Tunnel639  
  no ip address  
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interface Tunnel640  
  no ip address  
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interface Tunnel641  
  no ip address  
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interface Tunnel642  
  no ip address  
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interface Tunnel647  
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interface Tunnel652  
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interface Tunnel653  
  no ip address  
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interface Tunnel654  
  no ip address  
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interface Tunnel655  
  no ip address  
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interface Tunnel656  
  no ip address  
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interface Tunnel657
  no ip address
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interface Tunnel658
  no ip address
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interface Tunnel659
  no ip address
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interface Tunnel660
  no ip address
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interface Tunnel661
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interface Tunnel662
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interface Tunnel663
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interface Tunnel664
  no ip address
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interface Tunnel665
  no ip address
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interface Tunnel666
  no ip address
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interface Tunnel667
  no ip address
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interface Tunnel668
  no ip address
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interface Tunnel669
  no ip address
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interface Tunnel670
  no ip address
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interface Tunnel671
  no ip address
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interface Tunnel672
  no ip address
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interface Tunnel673
  no ip address
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interface Tunnel674
  no ip address
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interface Tunnel675
  no ip address
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interface Tunnel676
  no ip address
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interface Tunnel677
  no ip address
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interface Tunnel678
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no ip address
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interface Tunnel679
no ip address
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interface Tunnel680
no ip address
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interface Tunnel681
no ip address
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interface Tunnel682
no ip address
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interface Tunnel683
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interface Tunnel684
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interface Tunnel685
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interface Tunnel686
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interface Tunnel687
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interface Tunnel688
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interface Tunnel689
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interface Tunnel690
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interface Tunnel691
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interface Tunnel692
no ip address
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interface Tunnel693
no ip address
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interface Tunnel694
no ip address
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interface Tunnel695
no ip address
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interface Tunnel696
no ip address
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interface Tunnel697
no ip address
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interface Tunnel698
no ip address
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interface Tunnel699
no ip address
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!  
interface Tunnel700  
  no ip address  
!  
interface Tunnel701  
  no ip address  
!  
interface Tunnel702  
  no ip address  
!  
interface Tunnel703  
  no ip address  
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interface Tunnel704  
  no ip address  
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interface Tunnel705  
  no ip address  
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interface Tunnel706  
  no ip address  
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interface Tunnel707  
  no ip address  
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interface Tunnel708  
  no ip address  
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interface Tunnel709  
  no ip address  
!  
interface Tunnel710  
  no ip address  
!  
interface Tunnel711  
  no ip address  
!  
interface Tunnel712  
  no ip address  
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interface Tunnel713  
  no ip address  
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interface Tunnel714  
  no ip address  
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interface Tunnel715  
  no ip address  
!  
interface Tunnel716  
  no ip address  
!  
interface Tunnel717  
  no ip address  
!  
interface Tunnel718  
  no ip address  
!  
interface Tunnel719  
  no ip address  
!  
interface Tunnel720  
  no ip address  
!
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interface Tunnel721
  no ip address
!
interface Tunnel722
  no ip address
!
interface Tunnel723
  no ip address
!
interface Tunnel724
  no ip address
!
interface Tunnel725
  no ip address
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interface Tunnel726
  no ip address
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interface Tunnel727
  no ip address
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interface Tunnel728
  no ip address
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interface Tunnel729
  no ip address
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interface Tunnel730
  no ip address
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interface Tunnel731
  no ip address
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interface Tunnel732
  no ip address
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interface Tunnel733
  no ip address
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interface Tunnel734
  no ip address
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interface Tunnel735
  no ip address
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interface Tunnel736
  no ip address
!
interface Tunnel737
  no ip address
!
interface Tunnel738
  no ip address
!
interface Tunnel739
  no ip address
!
interface Tunnel740
  no ip address
!
interface Tunnel741
  no ip address
!
interface Tunnel742
```

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no ip address
!
interface Tunnel743
no ip address
!
interface Tunnel744
no ip address
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interface Tunnel745
no ip address
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interface Tunnel746
no ip address
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interface Tunnel747
no ip address
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interface Tunnel748
no ip address
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interface Tunnel749
no ip address
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interface Tunnel750
no ip address
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interface Tunnel751
no ip address
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interface Tunnel752
no ip address
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interface Tunnel753
no ip address
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interface Tunnel754
no ip address
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interface Tunnel755
no ip address
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interface Tunnel756
no ip address
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interface Tunnel757
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interface Tunnel759
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interface Tunnel760
no ip address
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interface Tunnel761
no ip address
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interface Tunnel762
no ip address
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interface Tunnel763
no ip address
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!  
interface Tunnel764  
  no ip address  
!  
interface Tunnel765  
  no ip address  
!  
interface Tunnel766  
  no ip address  
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interface Tunnel767  
  no ip address  
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interface Tunnel768  
  no ip address  
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interface Tunnel769  
  no ip address  
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interface Tunnel770  
  no ip address  
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interface Tunnel771  
  no ip address  
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interface Tunnel772  
  no ip address  
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interface Tunnel773  
  no ip address  
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interface Tunnel774  
  no ip address  
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interface Tunnel775  
  no ip address  
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interface Tunnel776  
  no ip address  
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interface Tunnel777  
  no ip address  
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interface Tunnel778  
  no ip address  
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interface Tunnel779  
  no ip address  
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interface Tunnel780  
  no ip address  
!  
interface Tunnel781  
  no ip address  
!  
interface Tunnel782  
  no ip address  
!  
interface Tunnel783  
  no ip address  
!  
interface Tunnel784  
  no ip address  
!
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```
interface Tunnel785
  no ip address
!
interface Tunnel786
  no ip address
!
interface Tunnel787
  no ip address
!
interface Tunnel788
  no ip address
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interface Tunnel789
  no ip address
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interface Tunnel790
  no ip address
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interface Tunnel791
  no ip address
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interface Tunnel792
  no ip address
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interface Tunnel793
  no ip address
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interface Tunnel794
  no ip address
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interface Tunnel795
  no ip address
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interface Tunnel796
  no ip address
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interface Tunnel797
  no ip address
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interface Tunnel798
  no ip address
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interface Tunnel799
  no ip address
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interface Tunnel800
  no ip address
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interface Tunnel801
  no ip address
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interface Tunnel802
  no ip address
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interface Tunnel803
  no ip address
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interface Tunnel804
  no ip address
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interface Tunnel805
  no ip address
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interface Tunnel806
```

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no ip address
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interface Tunnel807
no ip address
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interface Tunnel808
no ip address
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interface Tunnel809
no ip address
!
interface Tunnel810
no ip address
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interface Tunnel811
no ip address
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interface Tunnel812
no ip address
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interface Tunnel813
no ip address
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interface Tunnel814
no ip address
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interface Tunnel815
no ip address
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interface Tunnel816
no ip address
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interface Tunnel817
no ip address
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interface Tunnel818
no ip address
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interface Tunnel819
no ip address
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interface Tunnel820
no ip address
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interface Tunnel821
no ip address
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interface Tunnel822
no ip address
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interface Tunnel823
no ip address
!
interface Tunnel824
no ip address
!
interface Tunnel825
no ip address
!
interface Tunnel826
no ip address
!
interface Tunnel827
no ip address
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!  
interface Tunnel828  
no ip address  
!  
interface Tunnel829  
no ip address  
!  
interface Tunnel830  
no ip address  
!  
interface Tunnel831  
no ip address  
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interface Tunnel832  
no ip address  
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interface Tunnel833  
no ip address  
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interface Tunnel834  
no ip address  
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interface Tunnel835  
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interface Tunnel836  
no ip address  
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interface Tunnel837  
no ip address  
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interface Tunnel838  
no ip address  
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interface Tunnel839  
no ip address  
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interface Tunnel840  
no ip address  
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interface Tunnel841  
no ip address  
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interface Tunnel842  
no ip address  
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interface Tunnel843  
no ip address  
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interface Tunnel844  
no ip address  
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interface Tunnel845  
no ip address  
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interface Tunnel846  
no ip address  
!  
interface Tunnel847  
no ip address  
!  
interface Tunnel848  
no ip address  
!
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interface Tunnel849
  no ip address
!
interface Tunnel850
  no ip address
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interface Tunnel851
  no ip address
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interface Tunnel852
  no ip address
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interface Tunnel853
  no ip address
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interface Tunnel854
  no ip address
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interface Tunnel855
  no ip address
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interface Tunnel856
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interface Tunnel857
  no ip address
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interface Tunnel858
  no ip address
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interface Tunnel859
  no ip address
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interface Tunnel860
  no ip address
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interface Tunnel861
  no ip address
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interface Tunnel862
  no ip address
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interface Tunnel863
  no ip address
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interface Tunnel864
  no ip address
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interface Tunnel865
  no ip address
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interface Tunnel866
  no ip address
!
interface Tunnel867
  no ip address
!
interface Tunnel868
  no ip address
!
interface Tunnel869
  no ip address
!
interface Tunnel870
```

```
no ip address
!
interface Tunnel871
no ip address
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interface Tunnel872
no ip address
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interface Tunnel873
no ip address
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interface Tunnel874
no ip address
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interface Tunnel875
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interface Tunnel876
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interface Tunnel877
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interface Tunnel878
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interface Tunnel879
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interface Tunnel880
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interface Tunnel881
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interface Tunnel882
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interface Tunnel883
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interface Tunnel884
no ip address
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interface Tunnel885
no ip address
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interface Tunnel886
no ip address
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interface Tunnel887
no ip address
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interface Tunnel888
no ip address
!
interface Tunnel889
no ip address
!
interface Tunnel890
no ip address
!
interface Tunnel891
no ip address
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!  
interface Tunnel892  
  no ip address  
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interface Tunnel893  
  no ip address  
!  
interface Tunnel894  
  no ip address  
!  
interface Tunnel895  
  no ip address  
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interface Tunnel896  
  no ip address  
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interface Tunnel897  
  no ip address  
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interface Tunnel898  
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interface Tunnel899  
  no ip address  
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interface Tunnel900  
  no ip address  
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interface Tunnel901  
  no ip address  
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interface Tunnel902  
  no ip address  
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interface Tunnel903  
  no ip address  
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interface Tunnel904  
  no ip address  
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interface Tunnel905  
  no ip address  
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interface Tunnel906  
  no ip address  
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interface Tunnel908  
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interface Tunnel909  
  no ip address  
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interface Tunnel910  
  no ip address  
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interface Tunnel911  
  no ip address  
!  
interface Tunnel912  
  no ip address  
!
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interface Tunnel913
  no ip address
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interface Tunnel914
  no ip address
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interface Tunnel915
  no ip address
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interface Tunnel916
  no ip address
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interface Tunnel917
  no ip address
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interface Tunnel918
  no ip address
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interface Tunnel919
  no ip address
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interface Tunnel920
  no ip address
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interface Tunnel921
  no ip address
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interface Tunnel922
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interface Tunnel923
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interface Tunnel924
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interface Tunnel925
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interface Tunnel927
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interface Tunnel928
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interface Tunnel929
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interface Tunnel930
  no ip address
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interface Tunnel931
  no ip address
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interface Tunnel932
  no ip address
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interface Tunnel933
  no ip address
!
interface Tunnel934
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no ip address
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interface Tunnel935
no ip address
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interface Tunnel936
no ip address
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interface Tunnel937
no ip address
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interface Tunnel938
no ip address
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interface Tunnel939
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interface Tunnel940
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interface Tunnel941
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interface Tunnel942
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interface Tunnel946
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interface Tunnel947
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interface Tunnel948
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interface Tunnel949
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interface Tunnel950
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interface Tunnel951
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interface Tunnel952
no ip address
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interface Tunnel953
no ip address
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interface Tunnel954
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interface Tunnel955
no ip address
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!  
interface Tunnel956  
  no ip address  
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interface Tunnel957  
  no ip address  
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interface Tunnel958  
  no ip address  
!  
interface Tunnel959  
  no ip address  
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interface Tunnel960  
  no ip address  
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interface Tunnel961  
  no ip address  
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interface Tunnel962  
  no ip address  
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interface Tunnel963  
  no ip address  
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interface Tunnel964  
  no ip address  
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interface Tunnel965  
  no ip address  
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interface Tunnel966  
  no ip address  
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interface Tunnel967  
  no ip address  
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interface Tunnel968  
  no ip address  
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interface Tunnel969  
  no ip address  
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interface Tunnel970  
  no ip address  
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interface Tunnel971  
  no ip address  
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interface Tunnel972  
  no ip address  
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interface Tunnel973  
  no ip address  
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interface Tunnel974  
  no ip address  
!  
interface Tunnel975  
  no ip address  
!  
interface Tunnel976  
  no ip address  
!
```

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interface Tunnel977
  no ip address
!
interface Tunnel978
  no ip address
!
interface Tunnel979
  no ip address
!
interface Tunnel980
  no ip address
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interface Tunnel981
  no ip address
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interface Tunnel982
  no ip address
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interface Tunnel983
  no ip address
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interface Tunnel984
  no ip address
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interface Tunnel985
  no ip address
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interface Tunnel986
  no ip address
!
interface Tunnel987
  no ip address
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interface Tunnel988
  no ip address
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interface Tunnel989
  no ip address
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interface Tunnel990
  no ip address
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interface Tunnel991
  no ip address
!
interface Tunnel992
  no ip address
!
interface Tunnel993
  no ip address
!
interface Tunnel994
  no ip address
!
interface Tunnel995
  no ip address
!
interface Tunnel996
  no ip address
!
interface Tunnel997
  no ip address
!
interface Tunnel998
```

```

    no ip address
    !
    interface Tunnel999
    no ip address
    !
    interface Tunnel1000
    no ip address
    !
    interface GigabitEthernet0/0/0
    no ip address
    shutdown
    negotiation auto
    !
    interface GigabitEthernet0/0/1
    no ip address
    shutdown
    negotiation auto
    !
    interface GigabitEthernet0/0/2
    no ip address
    negotiation auto
    !
    interface GigabitEthernet0/0/2.1
    encapsulation dot1Q 100
    vrf forwarding C1_0
    ip address <removed>!
    interface GigabitEthernet0/0/2.2
    encapsulation dot1Q 101
    vrf forwarding C1_1
    ip address <removed>!
    interface GigabitEthernet0/0/3
    no ip address
    shutdown
    negotiation auto
    !
    interface GigabitEthernet0/0/4
    no ip address
    shutdown
    negotiation auto
    !
    interface GigabitEthernet0/0/5
    no ip address
    shutdown
    negotiation auto
    !
    interface GigabitEthernet0/0/6
    no ip address
    shutdown
    negotiation auto
    !
    interface GigabitEthernet0/0/7
    no ip address
    shutdown
    negotiation auto
    !
    interface TenGigabitEthernet0/1/0
    ip address <removed> no negotiation auto
    !
    interface TenGigabitEthernet0/1/1
    no ip address
    shutdown
    no negotiation auto
    !
    interface TenGigabitEthernet0/1/2

```

```
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/3
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/4
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/5
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/6
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/7
no ip address
shutdown
no negotiation auto
!
interface GigabitEthernet0
vrf forwarding Mgmt-intf
ip address <removed> negotiation auto
!
router ospf 100
network 50.50.50.0 0.0.0.255 area 0
network 208.200.0.2 0.0.0.0 area 0
network 208.200.0.3 0.0.0.0 area 0
!
router bgp 64001
bgp router-id 111.111.111.111
bgp log-neighbor-changes
!
address-family ipv4 vrf C1_0
network 192.0.0.0
redistribute connected
neighbor 192.0.1.1 remote-as 64001
neighbor 192.0.1.1 activate
exit-address-family
!
address-family ipv4 vrf C1_1
network 193.0.0.0
redistribute connected
neighbor 193.0.2.1 remote-as 64001
neighbor 193.0.2.1 activate
exit-address-family
!
ip forward-protocol nd
!
ip tftp source-interface GigabitEthernet0
ip tftp blocksize 8192
ip http server
ip http authentication local
ip http secure-server
ip ssh bulk-mode 131072
```

```

ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.45.0.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
!
!
!
!
!
control-plane
!
!
!
!
!
line con 0
  exec-timeout 0 0
  stopbits 1
line aux 0
line vty 0 4
  login
  transport input ssh
!
call-home
  ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
  ! the email address configured in Cisco Smart License Portal will be used as contact email
  ! address to send SCH notifications.
  contact-email-addr sch-smart-licensing@cisco.com
  profile "CiscoTAC-1"
    active
    destination transport-method http
  !
  !
  !
  !
  !
end

```



```

!
!
!
!
!
crypto pki trustpoint TP-self-signed-2134189379
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-2134189379
  revocation-check none
  rsakeypair TP-self-signed-2134189379
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
!
!

!
license udi pid C8500-12X4QC sn TTM231100CF
license boot level network-advantage addon dna-advantage
no memory lite
memory free low-watermark processor 984138
hw-module subslot 0/1 mode 10G
hw-module subslot 0/2 mode 40G
hw-module subslot 0/2 breakout none port all
!
!
spanning-tree extend system-id
diagnostic bootup level minimal
!
!
redundancy
  mode none
!
!
crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share
  keyring local ikev2keyring
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
!
!
!
!
!

```

```

!
!
!
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
 mode tunnel
!
!
crypto ipsec profile dmvpn-hub
 set transform-set tset1
 set pfs group19
 set ikev2-profile ikev2profile
!
!
!
!
!
!
!
!
interface Tunnel1
 bandwidth 100000
 ip address <removed> no ip redirects
 ip mtu 1400
 ip hello-interval eigrp 101 30
 ip hold-time eigrp 101 90
 ip nhrp network-id 1000
 ip nhrp holdtime 900
 ip nhrp redirect
 ip tcp adjust-mss 1200
 ip summary-address eigrp 101 100.0.0.0 255.0.0.0
 cts sgt inline
 tunnel source TenGigabitEthernet0/1/0
 tunnel mode gre multipoint
 tunnel path-mtu-discovery
!
interface TenGigabitEthernet0/0/0
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/1
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/2
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/3
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/4
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/5
 no ip address

```

```

shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/6
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/7
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/0
ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/2
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/3
ip address <removed> no negotiation auto
!
interface FortyGigabitEthernet0/2/0
no ip address
shutdown
no negotiation auto
!
interface FortyGigabitEthernet0/2/4
no ip address
shutdown
no negotiation auto
!
interface FortyGigabitEthernet0/2/8
no ip address
shutdown
no negotiation auto
!
interface GigabitEthernet0
vrf forwarding Mgmt-intf
ip address <removed> negotiation auto
!
router ospf 100
network 100.0.10.0 0.0.0.255 area 0
!
router bgp 64001
bgp router-id 1.1.1.2
bgp log-neighbor-changes
bgp listen range 192.0.0.0/8 peer-group DMVPN_SPOKES
bgp listen limit 10000
timers bgp 10 30
neighbor DMVPN_SPOKES peer-group
neighbor DMVPN_SPOKES remote-as 64001
!
address-family ipv4
network 0.0.0.0
network 150.100.0.0
neighbor DMVPN_SPOKES activate

```

```

    neighbor DMVPN_SPOKES next-hop-self
    neighbor DMVPN_SPOKES as-override split-horizon
    exit-address-family
    !
    ip http server
    ip http authentication local
    ip http secure-server
    ip forward-protocol nd
    !
    ip tftp source-interface GigabitEthernet0
    ip tftp blocksize 8192
    ip route 0.0.0.0 0.0.0.0 Null0
    ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
    !
    !
    !
    !
    !
    control-plane
    !
    !
    !
    !
    !
    line con 0
        exec-timeout 0 0
        stopbits 1
    line aux 0
    line vty 0 4
        login
        transport input ssh
    !
    call-home
        ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
        ! the email address configured in Cisco Smart License Portal will be used as contact email
        ! address to send SCH notifications.
        contact-email-addr sch-smart-licensing@cisco.com
        profile "CiscoTAC-1"
            active
            destination transport-method http
        !
        !
        !
        !
        !
    end

```

Configuration example for a spoke

```

version 17.13
service timestamps debug datetime msec
service timestamps log datetime msec
service internal
service call-home
platform qfp utilization monitor load 80
platform punt-keepalive disable-kernel-core
platform ipsec flexvpn-bypass-tcam
platform hardware crypto-throughput level 8-16g
!
hostname spk1
!

```

Cisco SD-Routing DMVPN Yang Commands

```

!
!
!
!
!
!
license udi pid ASR1001-HX sn JAE24530LQG
license boot level adventerprise
!
no memory lite
memory free low-watermark processor 675468
diagnostic bootup level minimal
!
spanning-tree extend system-id
!
!
!
redundancy
mode none
!
crypto ikev2 proposal ikev2proposal
encryption aes-cbc-192
integrity sha512
group 16
!
crypto ikev2 policy ikev2policy
proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
peer ikev2peer
address 0.0.0.0 0.0.0.0
pre-shared-key Cisco@123
!
!
!
crypto ikev2 profile ikev2profile
match identity remote address 0.0.0.0
authentication remote pre-share
authentication local pre-share
keyring local ikev2keyring
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
!
!
!
!
!
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
mode tunnel
!
!
crypto ipsec profile dmvpn-hub
set transform-set tset1
set pfs group19
set ikev2-profile ikev2profile
!
!

```

```

!
!
!
!
!
interface Loopback1
 ip address <removed>!
interface Tunnel1
 bandwidth 100000
 vrf forwarding C1_0
 ip address <removed> no ip redirects
 ip hello-interval eigrp 101 30
 ip hold-time eigrp 101 90
 ip nhrp network-id 1000
 ip nhrp holdtime 900
 ip nhrp nhs 192.0.1.1 nbma 100.0.10.2 multicast
 ip tcp adjust-mss 1200
 cts sgt inline
 tunnel source Loopback1
 tunnel mode gre multipoint
 tunnel path-mtu-discovery
!
interface Tunnel2
 no ip address
!
interface Tunnel3
 no ip address
!
interface Tunnel4
 no ip address
!
interface Tunnel5
 no ip address
!
interface Tunnel6
 no ip address
!
interface Tunnel7
 no ip address
!
interface Tunnel8
 no ip address
!
interface Tunnel9
 no ip address
!
interface Tunnel10
 no ip address
!
interface Tunnel11
 no ip address
!
interface Tunnel12
 no ip address
!
interface Tunnel13
 no ip address
!
interface Tunnel14
 no ip address
!
interface Tunnel15
 no ip address

```

```
!  
interface Tunnel16  
  no ip address  
!  
interface Tunnel17  
  no ip address  
!  
interface Tunnel18  
  no ip address  
!  
interface Tunnel19  
  no ip address  
!  
interface Tunnel20  
  no ip address  
!  
interface Tunnel21  
  no ip address  
!  
interface Tunnel22  
  no ip address  
!  
interface Tunnel23  
  no ip address  
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interface Tunnel24  
  no ip address  
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interface Tunnel25  
  no ip address  
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interface Tunnel26  
  no ip address  
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interface Tunnel27  
  no ip address  
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interface Tunnel28  
  no ip address  
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interface Tunnel29  
  no ip address  
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interface Tunnel30  
  no ip address  
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interface Tunnel31  
  no ip address  
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interface Tunnel32  
  no ip address  
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interface Tunnel33  
  no ip address  
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interface Tunnel34  
  no ip address  
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interface Tunnel35  
  no ip address  
!  
interface Tunnel36  
  no ip address  
!
```

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interface Tunnel37
  no ip address
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interface Tunnel38
  no ip address
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interface Tunnel39
  no ip address
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interface Tunnel40
  no ip address
!
interface Tunnel41
  no ip address
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interface Tunnel42
  no ip address
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interface Tunnel43
  no ip address
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interface Tunnel44
  no ip address
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interface Tunnel45
  no ip address
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interface Tunnel46
  no ip address
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interface Tunnel47
  no ip address
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interface Tunnel48
  no ip address
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interface Tunnel49
  no ip address
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interface Tunnel50
  no ip address
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interface Tunnel51
  no ip address
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interface Tunnel52
  no ip address
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interface Tunnel53
  no ip address
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interface Tunnel54
  no ip address
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interface Tunnel55
  no ip address
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interface Tunnel56
  no ip address
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interface Tunnel57
  no ip address
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interface Tunnel58
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no ip address
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interface Tunnel59
no ip address
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interface Tunnel60
no ip address
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interface Tunnel61
no ip address
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interface Tunnel62
no ip address
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interface Tunnel63
no ip address
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interface Tunnel64
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interface Tunnel65
no ip address
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interface Tunnel66
no ip address
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interface Tunnel67
no ip address
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interface Tunnel68
no ip address
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interface Tunnel69
no ip address
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interface Tunnel70
no ip address
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interface Tunnel71
no ip address
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interface Tunnel72
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interface Tunnel73
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interface Tunnel74
no ip address
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interface Tunnel75
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interface Tunnel76
no ip address
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interface Tunnel77
no ip address
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interface Tunnel78
no ip address
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interface Tunnel79
no ip address
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interface Tunnel80  
no ip address  
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interface Tunnel81  
no ip address  
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interface Tunnel82  
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interface Tunnel83  
no ip address  
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interface Tunnel84  
no ip address  
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interface Tunnel85  
no ip address  
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interface Tunnel86  
no ip address  
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interface Tunnel87  
no ip address  
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interface Tunnel88  
no ip address  
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interface Tunnel89  
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interface Tunnel90  
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interface Tunnel91  
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interface Tunnel92  
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interface Tunnel93  
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interface Tunnel94  
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interface Tunnel95  
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interface Tunnel96  
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interface Tunnel97  
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interface Tunnel98  
no ip address  
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interface Tunnel99  
no ip address  
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interface Tunnel100  
no ip address  
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interface Tunnel101
  no ip address
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interface Tunnel102
  no ip address
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interface Tunnel103
  no ip address
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interface Tunnel104
  no ip address
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interface Tunnel105
  no ip address
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interface Tunnel106
  no ip address
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interface Tunnel107
  no ip address
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interface Tunnel108
  no ip address
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interface Tunnel109
  no ip address
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interface Tunnel110
  no ip address
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interface Tunnel111
  no ip address
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interface Tunnel112
  no ip address
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interface Tunnel113
  no ip address
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interface Tunnel114
  no ip address
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interface Tunnel115
  no ip address
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interface Tunnel116
  no ip address
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interface Tunnel117
  no ip address
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interface Tunnel118
  no ip address
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interface Tunnel119
  no ip address
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interface Tunnel120
  no ip address
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interface Tunnel121
  no ip address
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interface Tunnel122
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interface Tunnel123
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interface Tunnel124
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interface Tunnel125
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interface Tunnel126
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interface Tunnel127
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interface Tunnel128
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interface Tunnel129
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interface Tunnel130
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interface Tunnel131
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interface Tunnel132
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interface Tunnel133
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interface Tunnel134
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interface Tunnel135
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interface Tunnel136
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interface Tunnel137
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interface Tunnel138
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interface Tunnel139
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interface Tunnel140
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interface Tunnel141
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interface Tunnel142
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interface Tunnel143
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interface Tunnel144  
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interface Tunnel145  
  no ip address  
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interface Tunnel146  
  no ip address  
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interface Tunnel147  
  no ip address  
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interface Tunnel148  
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interface Tunnel149  
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interface Tunnel150  
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interface Tunnel160  
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interface Tunnel161  
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interface Tunnel164  
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interface Tunnel165
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interface Tunnel166
  no ip address
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interface Tunnel167
  no ip address
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interface Tunnel168
  no ip address
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interface Tunnel169
  no ip address
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interface Tunnel170
  no ip address
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interface Tunnel171
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interface Tunnel172
  no ip address
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interface Tunnel173
  no ip address
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interface Tunnel174
  no ip address
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interface Tunnel175
  no ip address
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interface Tunnel176
  no ip address
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interface Tunnel177
  no ip address
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interface Tunnel178
  no ip address
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interface Tunnel179
  no ip address
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interface Tunnel180
  no ip address
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interface Tunnel181
  no ip address
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interface Tunnel182
  no ip address
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interface Tunnel183
  no ip address
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interface Tunnel184
  no ip address
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interface Tunnel185
  no ip address
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interface Tunnel186
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no ip address
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interface Tunnel187
no ip address
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interface Tunnel188
no ip address
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interface Tunnel189
no ip address
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interface Tunnel190
no ip address
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interface Tunnel191
no ip address
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interface Tunnel192
no ip address
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interface Tunnel193
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interface Tunnel199
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interface Tunnel200
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interface Tunnel201
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interface Tunnel202
no ip address
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interface Tunnel203
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interface Tunnel204
no ip address
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interface Tunnel205
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interface Tunnel206
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interface Tunnel207
no ip address
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interface Tunnel208  
  no ip address  
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interface Tunnel209  
  no ip address  
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interface Tunnel210  
  no ip address  
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interface Tunnel211  
  no ip address  
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interface Tunnel212  
  no ip address  
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interface Tunnel213  
  no ip address  
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interface Tunnel214  
  no ip address  
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interface Tunnel215  
  no ip address  
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interface Tunnel216  
  no ip address  
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interface Tunnel217  
  no ip address  
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interface Tunnel218  
  no ip address  
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interface Tunnel219  
  no ip address  
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interface Tunnel220  
  no ip address  
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interface Tunnel221  
  no ip address  
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interface Tunnel222  
  no ip address  
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interface Tunnel223  
  no ip address  
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interface Tunnel224  
  no ip address  
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interface Tunnel225  
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interface Tunnel226  
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interface Tunnel227  
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interface Tunnel228  
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interface Tunnel229
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interface Tunnel230
  no ip address
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interface Tunnel231
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interface Tunnel232
  no ip address
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interface Tunnel233
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interface Tunnel234
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interface Tunnel235
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interface Tunnel236
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interface Tunnel237
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interface Tunnel238
  no ip address
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interface Tunnel239
  no ip address
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interface Tunnel240
  no ip address
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interface Tunnel241
  no ip address
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interface Tunnel242
  no ip address
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interface Tunnel243
  no ip address
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interface Tunnel244
  no ip address
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interface Tunnel245
  no ip address
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interface Tunnel246
  no ip address
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interface Tunnel247
  no ip address
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interface Tunnel248
  no ip address
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interface Tunnel249
  no ip address
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interface Tunnel250
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no ip address
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interface Tunnel251
no ip address
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interface Tunnel252
no ip address
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interface Tunnel253
no ip address
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interface Tunnel254
no ip address
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interface Tunnel255
no ip address
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interface Tunnel256
no ip address
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interface Tunnel257
no ip address
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interface Tunnel258
no ip address
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interface Tunnel259
no ip address
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interface Tunnel260
no ip address
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interface Tunnel261
no ip address
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interface Tunnel262
no ip address
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interface Tunnel263
no ip address
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interface Tunnel264
no ip address
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interface Tunnel265
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interface Tunnel266
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interface Tunnel267
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interface Tunnel268
no ip address
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interface Tunnel269
no ip address
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interface Tunnel270
no ip address
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interface Tunnel271
no ip address
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!  
interface Tunnel272  
  no ip address  
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interface Tunnel273  
  no ip address  
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interface Tunnel274  
  no ip address  
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interface Tunnel275  
  no ip address  
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interface Tunnel278  
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interface Tunnel280  
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interface Tunnel281  
  no ip address  
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interface Tunnel282  
  no ip address  
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interface Tunnel283  
  no ip address  
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interface Tunnel284  
  no ip address  
!  
interface Tunnel285  
  no ip address  
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interface Tunnel286  
  no ip address  
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interface Tunnel287  
  no ip address  
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interface Tunnel288  
  no ip address  
!  
interface Tunnel289  
  no ip address  
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interface Tunnel290  
  no ip address  
!  
interface Tunnel291  
  no ip address  
!  
interface Tunnel292  
  no ip address  
!
```

```
interface Tunnel293
  no ip address
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interface Tunnel294
  no ip address
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interface Tunnel295
  no ip address
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interface Tunnel296
  no ip address
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interface Tunnel297
  no ip address
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interface Tunnel298
  no ip address
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interface Tunnel299
  no ip address
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interface Tunnel300
  no ip address
!
interface Tunnel301
  no ip address
!
interface Tunnel302
  no ip address
!
interface Tunnel303
  no ip address
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interface Tunnel304
  no ip address
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interface Tunnel305
  no ip address
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interface Tunnel306
  no ip address
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interface Tunnel307
  no ip address
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interface Tunnel308
  no ip address
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interface Tunnel309
  no ip address
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interface Tunnel310
  no ip address
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interface Tunnel311
  no ip address
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interface Tunnel312
  no ip address
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interface Tunnel313
  no ip address
!
interface Tunnel314
```

```
no ip address
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interface Tunnel315
no ip address
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interface Tunnel316
no ip address
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interface Tunnel317
no ip address
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interface Tunnel318
no ip address
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interface Tunnel319
no ip address
!
interface Tunnel320
no ip address
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interface Tunnel321
no ip address
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interface Tunnel322
no ip address
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interface Tunnel323
no ip address
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interface Tunnel324
no ip address
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interface Tunnel325
no ip address
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interface Tunnel326
no ip address
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interface Tunnel327
no ip address
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interface Tunnel328
no ip address
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interface Tunnel329
no ip address
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interface Tunnel330
no ip address
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interface Tunnel331
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interface Tunnel332
no ip address
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interface Tunnel333
no ip address
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interface Tunnel334
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interface Tunnel335
no ip address
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interface Tunnel336  
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interface Tunnel337  
  no ip address  
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interface Tunnel338  
  no ip address  
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interface Tunnel339  
  no ip address  
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interface Tunnel340  
  no ip address  
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interface Tunnel341  
  no ip address  
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interface Tunnel342  
  no ip address  
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interface Tunnel343  
  no ip address  
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interface Tunnel344  
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interface Tunnel442
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interface Tunnel485
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interface Tunnel506
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interface Tunnel1570
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interface Tunnel760
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interface Tunnel761
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interface Tunnel762
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interface Tunnel767
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interface Tunnel771
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interface Tunnel772
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interface Tunnel773
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interface Tunnel779
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interface Tunnel780
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interface Tunnel781
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interface Tunnel782
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interface Tunnel783
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interface Tunnel794  
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interface Tunnel795  
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interface Tunnel798  
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interface Tunnel799  
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interface Tunnel803  
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interface Tunnel804  
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interface Tunnel805
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interface Tunnel807
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interface Tunnel808
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interface Tunnel809
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interface Tunnel810
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interface Tunnel811
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interface Tunnel812
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interface Tunnel813
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interface Tunnel814
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interface Tunnel815
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interface Tunnel816
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interface Tunnel817
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interface Tunnel818
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interface Tunnel819
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interface Tunnel821
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interface Tunnel825
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interface Tunnel826
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interface Tunnel827
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interface Tunnel828
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interface Tunnel831
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interface Tunnel832
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interface Tunnel836
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interface Tunnel837
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interface Tunnel838
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interface Tunnel839
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interface Tunnel840
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interface Tunnel841
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interface Tunnel842
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interface Tunnel843
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interface Tunnel844
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interface Tunnel845
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interface Tunnel846
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interface Tunnel847
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interface Tunnel849  
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interface Tunnel850  
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interface Tunnel851  
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interface Tunnel852  
  no ip address  
!  
interface Tunnel853  
  no ip address  
!  
interface Tunnel854  
  no ip address  
!  
interface Tunnel855  
  no ip address  
!  
interface Tunnel856  
  no ip address  
!  
interface Tunnel857  
  no ip address  
!  
interface Tunnel858  
  no ip address  
!  
interface Tunnel859  
  no ip address  
!  
interface Tunnel860  
  no ip address  
!  
interface Tunnel861  
  no ip address  
!  
interface Tunnel862  
  no ip address  
!  
interface Tunnel863  
  no ip address  
!  
interface Tunnel864  
  no ip address  
!  
interface Tunnel865  
  no ip address  
!  
interface Tunnel866  
  no ip address  
!  
interface Tunnel867  
  no ip address  
!  
interface Tunnel868  
  no ip address  
!
```

```
interface Tunnel869
  no ip address
!
interface Tunnel870
  no ip address
!
interface Tunnel871
  no ip address
!
interface Tunnel872
  no ip address
!
interface Tunnel873
  no ip address
!
interface Tunnel874
  no ip address
!
interface Tunnel875
  no ip address
!
interface Tunnel876
  no ip address
!
interface Tunnel877
  no ip address
!
interface Tunnel878
  no ip address
!
interface Tunnel879
  no ip address
!
interface Tunnel880
  no ip address
!
interface Tunnel881
  no ip address
!
interface Tunnel882
  no ip address
!
interface Tunnel883
  no ip address
!
interface Tunnel884
  no ip address
!
interface Tunnel885
  no ip address
!
interface Tunnel886
  no ip address
!
interface Tunnel887
  no ip address
!
interface Tunnel888
  no ip address
!
interface Tunnel889
  no ip address
!
interface Tunnel890
```

```
no ip address
!
interface Tunnel891
no ip address
!
interface Tunnel892
no ip address
!
interface Tunnel893
no ip address
!
interface Tunnel894
no ip address
!
interface Tunnel895
no ip address
!
interface Tunnel896
no ip address
!
interface Tunnel897
no ip address
!
interface Tunnel898
no ip address
!
interface Tunnel899
no ip address
!
interface Tunnel900
no ip address
!
interface Tunnel901
no ip address
!
interface Tunnel902
no ip address
!
interface Tunnel903
no ip address
!
interface Tunnel904
no ip address
!
interface Tunnel905
no ip address
!
interface Tunnel906
no ip address
!
interface Tunnel907
no ip address
!
interface Tunnel908
no ip address
!
interface Tunnel909
no ip address
!
interface Tunnel910
no ip address
!
interface Tunnel911
no ip address
```

```
!  
interface Tunnel912  
  no ip address  
!  
interface Tunnel913  
  no ip address  
!  
interface Tunnel914  
  no ip address  
!  
interface Tunnel915  
  no ip address  
!  
interface Tunnel916  
  no ip address  
!  
interface Tunnel917  
  no ip address  
!  
interface Tunnel918  
  no ip address  
!  
interface Tunnel919  
  no ip address  
!  
interface Tunnel920  
  no ip address  
!  
interface Tunnel921  
  no ip address  
!  
interface Tunnel922  
  no ip address  
!  
interface Tunnel923  
  no ip address  
!  
interface Tunnel924  
  no ip address  
!  
interface Tunnel925  
  no ip address  
!  
interface Tunnel926  
  no ip address  
!  
interface Tunnel927  
  no ip address  
!  
interface Tunnel928  
  no ip address  
!  
interface Tunnel929  
  no ip address  
!  
interface Tunnel930  
  no ip address  
!  
interface Tunnel931  
  no ip address  
!  
interface Tunnel932  
  no ip address  
!
```

```
interface Tunnel933
  no ip address
!
interface Tunnel934
  no ip address
!
interface Tunnel935
  no ip address
!
interface Tunnel936
  no ip address
!
interface Tunnel937
  no ip address
!
interface Tunnel938
  no ip address
!
interface Tunnel939
  no ip address
!
interface Tunnel940
  no ip address
!
interface Tunnel941
  no ip address
!
interface Tunnel942
  no ip address
!
interface Tunnel943
  no ip address
!
interface Tunnel944
  no ip address
!
interface Tunnel945
  no ip address
!
interface Tunnel946
  no ip address
!
interface Tunnel947
  no ip address
!
interface Tunnel948
  no ip address
!
interface Tunnel949
  no ip address
!
interface Tunnel950
  no ip address
!
interface Tunnel951
  no ip address
!
interface Tunnel952
  no ip address
!
interface Tunnel953
  no ip address
!
interface Tunnel954
```

```
no ip address
!
interface Tunnel955
no ip address
!
interface Tunnel956
no ip address
!
interface Tunnel957
no ip address
!
interface Tunnel958
no ip address
!
interface Tunnel959
no ip address
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interface Tunnel960
no ip address
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interface Tunnel961
no ip address
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interface Tunnel962
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interface Tunnel963
no ip address
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interface Tunnel964
no ip address
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interface Tunnel965
no ip address
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interface Tunnel966
no ip address
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interface Tunnel967
no ip address
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interface Tunnel968
no ip address
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interface Tunnel969
no ip address
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interface Tunnel970
no ip address
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interface Tunnel971
no ip address
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interface Tunnel972
no ip address
!
interface Tunnel973
no ip address
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interface Tunnel974
no ip address
!
interface Tunnel975
no ip address
```

```
!  
interface Tunnel976  
  no ip address  
!  
interface Tunnel977  
  no ip address  
!  
interface Tunnel978  
  no ip address  
!  
interface Tunnel979  
  no ip address  
!  
interface Tunnel980  
  no ip address  
!  
interface Tunnel981  
  no ip address  
!  
interface Tunnel982  
  no ip address  
!  
interface Tunnel983  
  no ip address  
!  
interface Tunnel984  
  no ip address  
!  
interface Tunnel985  
  no ip address  
!  
interface Tunnel986  
  no ip address  
!  
interface Tunnel987  
  no ip address  
!  
interface Tunnel988  
  no ip address  
!  
interface Tunnel989  
  no ip address  
!  
interface Tunnel990  
  no ip address  
!  
interface Tunnel991  
  no ip address  
!  
interface Tunnel992  
  no ip address  
!  
interface Tunnel993  
  no ip address  
!  
interface Tunnel994  
  no ip address  
!  
interface Tunnel995  
  no ip address  
!  
interface Tunnel996  
  no ip address  
!
```

```
interface Tunnel997
  no ip address
!
interface Tunnel998
  no ip address
!
interface Tunnel999
  no ip address
!
interface Tunnel1000
  no ip address
!
interface GigabitEthernet0/0/0
  no ip address
  shutdown
  negotiation auto
!
interface GigabitEthernet0/0/1
  no ip address
  shutdown
  negotiation auto
!
interface GigabitEthernet0/0/2
  no ip address
  negotiation auto
!
interface GigabitEthernet0/0/2.1
  encapsulation dot1Q 100
  vrf forwarding Cl_0
  ip address <removed>!
interface GigabitEthernet0/0/3
  no ip address
  shutdown
  negotiation auto
!
interface GigabitEthernet0/0/4
  no ip address
  shutdown
  negotiation auto
!
interface GigabitEthernet0/0/5
  no ip address
  shutdown
  negotiation auto
!
interface GigabitEthernet0/0/6
  no ip address
  shutdown
  negotiation auto
!
interface GigabitEthernet0/0/7
  no ip address
  shutdown
  negotiation auto
!
interface TenGigabitEthernet0/1/0
  ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/1/2
```

Cisco SD-Routing DMVPN Yang Commands

```
control-plane
!
!
!
!
!
line con 0
  exec-timeout 0 0
  stopbits 1
line aux 0
line vty 0 4
  login
  transport input ssh
!
call-home
  ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
  ! the email address configured in Cisco Smart License Portal will be used as contact email
  ! address to send SCH notifications.
  contact-email-addr sch-smart-licensing@cisco.com
  profile "CiscoTAC-1"
    active
    destination transport-method http
  !
  !
  !
  !
  !
end
```



```

!
!
!
!
!
!
crypto pki trustpoint TP-self-signed-2134189379
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-2134189379
  revocation-check none
  rsakeypair TP-self-signed-2134189379
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
!
!
!
license udi pid C8500-12X4QC sn TTM231100CF
license boot level network-advantage addon dna-advantage
no memory lite
memory free low-watermark processor 984138
hw-module subslot 0/1 mode 10G
hw-module subslot 0/2 mode 40G
hw-module subslot 0/2 breakout none port all
!
!
spanning-tree extend system-id
diagnostic bootup level minimal
!
!
redundancy
  mode none
!
!
crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share
  keyring local ikev2keyring
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
!
!
!

```

```

!
!
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
 mode tunnel
!
!
crypto ipsec profile dmvpn-hub
 set transform-set tset1
 set pfs group19
 set ikev2-profile ikev2profile
!
!
!
!
!
!
!
!
interface Tunnel1
 bandwidth 100000
 ip address <removed> no ip redirects
 ip mtu 1400
 ip hello-interval eigrp 101 30
 ip hold-time eigrp 101 90
 ip nhrp network-id 1000
 ip nhrp holdtime 900
 ip nhrp redirect
 ip tcp adjust-mss 1200
 ip summary-address eigrp 101 100.0.0.0 255.0.0.0
 cts sgt inline
 tunnel source TenGigabitEthernet0/1/0
 tunnel mode gre multipoint
 tunnel path-mtu-discovery
 tunnel protection ipsec profile dmvpn-hub
!
interface TenGigabitEthernet0/0/0
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/1
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/2
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/3
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/4
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/0/5

```

```
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/6
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/7
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/0
ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/2
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/3
ip address <removed> no negotiation auto
!
interface FortyGigabitEthernet0/2/0
no ip address
shutdown
no negotiation auto
!
interface FortyGigabitEthernet0/2/4
no ip address
shutdown
no negotiation auto
!
interface FortyGigabitEthernet0/2/8
no ip address
shutdown
no negotiation auto
!
interface GigabitEthernet0
vrf forwarding Mgmt-intf
ip address <removed> negotiation auto
!
router ospf 100
network 100.0.10.0 0.0.0.255 area 0
!
router bgp 64001
bgp router-id 1.1.1.2
bgp log-neighbor-changes
bgp listen range 192.0.0.0/8 peer-group DMVPN_SPOKES
bgp listen limit 10000
timers bgp 10 30
neighbor DMVPN_SPOKES peer-group
neighbor DMVPN_SPOKES remote-as 64001
!
address-family ipv4
network 0.0.0.0
network 150.100.0.0
```

```

aggregate-address 25.0.0.0 255.0.0.0 summary-only
aggregate-address 24.0.0.0 255.0.0.0 summary-only
aggregate-address 23.0.0.0 255.0.0.0 summary-only
aggregate-address 22.0.0.0 255.0.0.0 summary-only
aggregate-address 21.0.0.0 255.0.0.0 summary-only
aggregate-address 20.0.0.0 255.0.0.0 summary-only
aggregate-address 19.0.0.0 255.0.0.0 summary-only
aggregate-address 18.0.0.0 255.0.0.0 summary-only
aggregate-address 17.0.0.0 255.0.0.0 summary-only
aggregate-address 16.0.0.0 255.0.0.0 summary-only
aggregate-address 15.0.0.0 255.0.0.0 summary-only
aggregate-address 14.0.0.0 255.0.0.0 summary-only
aggregate-address 13.0.0.0 255.0.0.0 summary-only
aggregate-address 12.0.0.0 255.0.0.0 summary-only
aggregate-address 11.0.0.0 255.0.0.0 summary-only
aggregate-address 10.0.0.0 255.0.0.0 summary-only
neighbor DMVPN_SPOKES activate
neighbor DMVPN_SPOKES route-reflector-client
neighbor DMVPN_SPOKES next-hop-self all
neighbor DMVPN_SPOKES as-override split-horizon
neighbor DMVPN_SPOKES route-map SPOKE_ROUTERS out
exit-address-family
!
ip http server
ip http authentication local
ip http secure-server
ip forward-protocol nd
!
ip tftp source-interface GigabitEthernet0
ip tftp blocksize 8192
ip route 0.0.0.0 0.0.0.0 Null0
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
!
!
!
ip prefix-list AGG_ROUTE seq 5 permit 10.0.0.0/8
ip prefix-list AGG_ROUTE seq 10 permit 11.0.0.0/8
ip prefix-list AGG_ROUTE seq 15 permit 12.0.0.0/8
ip prefix-list AGG_ROUTE seq 20 permit 13.0.0.0/8
ip prefix-list AGG_ROUTE seq 25 permit 14.0.0.0/8
ip prefix-list AGG_ROUTE seq 30 permit 15.0.0.0/8
ip prefix-list AGG_ROUTE seq 35 permit 16.0.0.0/8
ip prefix-list AGG_ROUTE seq 40 permit 17.0.0.0/8
ip prefix-list AGG_ROUTE seq 45 permit 18.0.0.0/8
ip prefix-list AGG_ROUTE seq 50 permit 19.0.0.0/8
ip prefix-list AGG_ROUTE seq 55 permit 20.0.0.0/8
ip prefix-list AGG_ROUTE seq 60 permit 21.0.0.0/8
ip prefix-list AGG_ROUTE seq 65 permit 22.0.0.0/8
ip prefix-list AGG_ROUTE seq 70 permit 23.0.0.0/8
ip prefix-list AGG_ROUTE seq 75 permit 24.0.0.0/8
ip prefix-list AGG_ROUTE seq 80 permit 25.0.0.0/8
!
route-map SPOKE_ROUTERS permit 10
match ip address prefix-list AGG_ROUTE
set local-preference 170
!
!
!
!
control-plane
!
!
!
!
!

```

```

!
!
line con 0
  exec-timeout 0 0
  stopbits 1
line aux 0
line vty 0 4
  login
  transport input ssh
!
call-home
  ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
  ! the email address configured in Cisco Smart License Portal will be used as contact email
  ! address to send SCH notifications.
  contact-email-addr sch-smart-licensing@cisco.com
  profile "CiscoTAC-1"
    active
    destination transport-method http
!
!
!
!
!
!
end

```

Configuration example for a spoke

```

version 17.13
service timestamps debug datetime msec
service timestamps log datetime msec
service internal
service call-home
platform qfp utilization monitor load 80
platform punt-keepalive disable-kernel-core
platform ipsec flexvpn-bypass-tcam
platform hardware crypto-throughput level 8-16g
!
hostname spk1
!
boot-start-marker
boot system bootflash:asr1000-universalk9.spk1.dmvpn_soak.SSA.bin
boot-end-marker
!
!
vrf definition Cl_0
  rd 1:0
  !
  address-family ipv4
  exit-address-family
!
vrf definition Mgmt-intf
  !
  address-family ipv4
  exit-address-family
  !
  address-family ipv6
  exit-address-family
!
no logging console
no aaa new-model
!
!
subscriber templating

```

Cisco SD-Routing DMVPN Yang Commands

```
group 16
!
crypto ikev2 policy ikev2policy
proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
peer ikev2peer
address 0.0.0.0 0.0.0.0
pre-shared-key Cisco@123
!
!
!
crypto ikev2 profile ikev2profile
match identity remote address 0.0.0.0
authentication remote pre-share
authentication local pre-share
keyring local ikev2keyring
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
!
!
!
!
!
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
mode tunnel
!
!
crypto ipsec profile dmvpn-hub
set transform-set tset1
set pfs group19
set ikev2-profile ikev2profile
!
!
!
!
!
!
!
!
interface Loopback1
ip address <removed>!
interface Tunnel1
bandwidth 100000
vrf forwarding C1_0
ip address <removed> no ip redirects
ip hello-interval eigrp 101 30
ip hold-time eigrp 101 90
ip nhrp network-id 1000
ip nhrp holdtime 900
ip nhrp nhs 192.0.1.1 nbma 100.0.10.2 multicast
ip tcp adjust-mss 1200
cts sgt inline
tunnel source Loopback1
tunnel mode gre multipoint
tunnel path-mtu-discovery
tunnel protection ipsec profile dmvpn-hub
```

```
!  
interface Tunnel2  
  no ip address  
!  
interface Tunnel3  
  no ip address  
!  
interface Tunnel4  
  no ip address  
!  
interface Tunnel5  
  no ip address  
!  
interface Tunnel6  
  no ip address  
!  
interface Tunnel7  
  no ip address  
!  
interface Tunnel8  
  no ip address  
!  
interface Tunnel9  
  no ip address  
!  
interface Tunnel10  
  no ip address  
!  
interface Tunnel11  
  no ip address  
!  
interface Tunnel12  
  no ip address  
!  
interface Tunnel13  
  no ip address  
!  
interface Tunnel14  
  no ip address  
!  
interface Tunnel15  
  no ip address  
!  
interface Tunnel16  
  no ip address  
!  
interface Tunnel17  
  no ip address  
!  
interface Tunnel18  
  no ip address  
!  
interface Tunnel19  
  no ip address  
!  
interface Tunnel20  
  no ip address  
!  
interface Tunnel21  
  no ip address  
!  
interface Tunnel22  
  no ip address  
!
```

```
interface Tunnel23
  no ip address
!
interface Tunnel24
  no ip address
!
interface Tunnel25
  no ip address
!
interface Tunnel26
  no ip address
!
interface Tunnel27
  no ip address
!
interface Tunnel28
  no ip address
!
interface Tunnel29
  no ip address
!
interface Tunnel30
  no ip address
!
interface Tunnel31
  no ip address
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interface Tunnel32
  no ip address
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interface Tunnel33
  no ip address
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interface Tunnel34
  no ip address
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interface Tunnel35
  no ip address
!
interface Tunnel36
  no ip address
!
interface Tunnel37
  no ip address
!
interface Tunnel38
  no ip address
!
interface Tunnel39
  no ip address
!
interface Tunnel40
  no ip address
!
interface Tunnel41
  no ip address
!
interface Tunnel42
  no ip address
!
interface Tunnel43
  no ip address
!
interface Tunnel44
```

```
no ip address
!
interface Tunnel45
no ip address
!
interface Tunnel46
no ip address
!
interface Tunnel47
no ip address
!
interface Tunnel48
no ip address
!
interface Tunnel49
no ip address
!
interface Tunnel50
no ip address
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interface Tunnel51
no ip address
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interface Tunnel52
no ip address
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interface Tunnel53
no ip address
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interface Tunnel54
no ip address
!
interface Tunnel55
no ip address
!
interface Tunnel56
no ip address
!
interface Tunnel57
no ip address
!
interface Tunnel58
no ip address
!
interface Tunnel59
no ip address
!
interface Tunnel60
no ip address
!
interface Tunnel61
no ip address
!
interface Tunnel62
no ip address
!
interface Tunnel63
no ip address
!
interface Tunnel64
no ip address
!
interface Tunnel65
no ip address
```

```
!  
interface Tunnel66  
  no ip address  
!  
interface Tunnel67  
  no ip address  
!  
interface Tunnel68  
  no ip address  
!  
interface Tunnel69  
  no ip address  
!  
interface Tunnel70  
  no ip address  
!  
interface Tunnel71  
  no ip address  
!  
interface Tunnel72  
  no ip address  
!  
interface Tunnel73  
  no ip address  
!  
interface Tunnel74  
  no ip address  
!  
interface Tunnel75  
  no ip address  
!  
interface Tunnel76  
  no ip address  
!  
interface Tunnel77  
  no ip address  
!  
interface Tunnel78  
  no ip address  
!  
interface Tunnel79  
  no ip address  
!  
interface Tunnel80  
  no ip address  
!  
interface Tunnel81  
  no ip address  
!  
interface Tunnel82  
  no ip address  
!  
interface Tunnel83  
  no ip address  
!  
interface Tunnel84  
  no ip address  
!  
interface Tunnel85  
  no ip address  
!  
interface Tunnel86  
  no ip address  
!
```

```
interface Tunnel87
  no ip address
!
interface Tunnel88
  no ip address
!
interface Tunnel89
  no ip address
!
interface Tunnel90
  no ip address
!
interface Tunnel91
  no ip address
!
interface Tunnel92
  no ip address
!
interface Tunnel93
  no ip address
!
interface Tunnel94
  no ip address
!
interface Tunnel95
  no ip address
!
interface Tunnel96
  no ip address
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interface Tunnel97
  no ip address
!
interface Tunnel98
  no ip address
!
interface Tunnel99
  no ip address
!
interface Tunnel100
  no ip address
!
interface Tunnel101
  no ip address
!
interface Tunnel102
  no ip address
!
interface Tunnel103
  no ip address
!
interface Tunnel104
  no ip address
!
interface Tunnel105
  no ip address
!
interface Tunnel106
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interface Tunnel107
  no ip address
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interface Tunnel108
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interface Tunnel1109
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interface Tunnel1110
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interface Tunnel1111
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interface Tunnel1112
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interface Tunnel1113
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interface Tunnel1120
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interface Tunnel1121
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interface Tunnel1122
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interface Tunnel1123
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interface Tunnel1124
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interface Tunnel1125
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interface Tunnel1126
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interface Tunnel1127
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interface Tunnel1128
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interface Tunnel1129
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interface Tunnel619
  no ip address
!
interface Tunnel620
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no ip address
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interface Tunnel621
no ip address
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interface Tunnel622
no ip address
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interface Tunnel623
no ip address
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interface Tunnel624
no ip address
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interface Tunnel625
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interface Tunnel626
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interface Tunnel627
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interface Tunnel628
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interface Tunnel629
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interface Tunnel630
no ip address
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interface Tunnel631
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interface Tunnel632
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interface Tunnel633
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interface Tunnel634
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interface Tunnel635
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interface Tunnel636
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interface Tunnel637
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interface Tunnel638
no ip address
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interface Tunnel639
no ip address
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interface Tunnel640
no ip address
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interface Tunnel641
no ip address
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interface Tunnel642  
  no ip address  
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interface Tunnel643  
  no ip address  
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interface Tunnel644  
  no ip address  
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interface Tunnel645  
  no ip address  
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interface Tunnel646  
  no ip address  
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interface Tunnel647  
  no ip address  
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interface Tunnel648  
  no ip address  
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interface Tunnel649  
  no ip address  
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interface Tunnel650  
  no ip address  
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interface Tunnel651  
  no ip address  
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interface Tunnel652  
  no ip address  
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  no ip address  
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  no ip address  
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  no ip address  
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  no ip address  
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interface Tunnel657  
  no ip address  
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interface Tunnel658  
  no ip address  
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interface Tunnel659  
  no ip address  
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interface Tunnel660  
  no ip address  
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interface Tunnel661  
  no ip address  
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interface Tunnel662  
  no ip address  
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interface Tunnel663
  no ip address
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interface Tunnel664
  no ip address
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interface Tunnel665
  no ip address
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interface Tunnel666
  no ip address
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interface Tunnel667
  no ip address
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interface Tunnel668
  no ip address
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interface Tunnel669
  no ip address
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interface Tunnel670
  no ip address
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interface Tunnel671
  no ip address
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interface Tunnel672
  no ip address
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interface Tunnel673
  no ip address
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interface Tunnel674
  no ip address
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interface Tunnel675
  no ip address
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interface Tunnel676
  no ip address
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interface Tunnel677
  no ip address
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interface Tunnel678
  no ip address
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interface Tunnel679
  no ip address
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interface Tunnel680
  no ip address
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interface Tunnel681
  no ip address
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interface Tunnel682
  no ip address
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interface Tunnel683
  no ip address
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interface Tunnel684
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no ip address
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interface Tunnel685
no ip address
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interface Tunnel686
no ip address
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interface Tunnel687
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interface Tunnel688
no ip address
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interface Tunnel689
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interface Tunnel690
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interface Tunnel691
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interface Tunnel692
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interface Tunnel693
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interface Tunnel694
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interface Tunnel695
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interface Tunnel696
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interface Tunnel697
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interface Tunnel698
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interface Tunnel699
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interface Tunnel700
no ip address
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interface Tunnel701
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interface Tunnel702
no ip address
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interface Tunnel703
no ip address
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interface Tunnel704
no ip address
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interface Tunnel705
no ip address
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interface Tunnel706  
  no ip address  
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interface Tunnel707  
  no ip address  
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interface Tunnel708  
  no ip address  
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interface Tunnel709  
  no ip address  
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interface Tunnel710  
  no ip address  
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interface Tunnel711  
  no ip address  
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interface Tunnel712  
  no ip address  
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interface Tunnel713  
  no ip address  
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interface Tunnel714  
  no ip address  
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interface Tunnel715  
  no ip address  
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interface Tunnel716  
  no ip address  
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interface Tunnel717  
  no ip address  
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interface Tunnel718  
  no ip address  
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interface Tunnel719  
  no ip address  
!  
interface Tunnel720  
  no ip address  
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interface Tunnel721  
  no ip address  
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interface Tunnel722  
  no ip address  
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interface Tunnel723  
  no ip address  
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interface Tunnel724  
  no ip address  
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interface Tunnel725  
  no ip address  
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interface Tunnel726  
  no ip address  
!
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interface Tunnel727
  no ip address
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interface Tunnel728
  no ip address
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interface Tunnel729
  no ip address
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interface Tunnel730
  no ip address
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interface Tunnel731
  no ip address
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interface Tunnel732
  no ip address
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interface Tunnel733
  no ip address
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interface Tunnel734
  no ip address
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interface Tunnel735
  no ip address
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interface Tunnel736
  no ip address
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interface Tunnel737
  no ip address
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interface Tunnel738
  no ip address
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interface Tunnel739
  no ip address
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interface Tunnel740
  no ip address
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interface Tunnel741
  no ip address
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interface Tunnel742
  no ip address
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interface Tunnel743
  no ip address
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interface Tunnel744
  no ip address
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interface Tunnel745
  no ip address
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interface Tunnel746
  no ip address
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interface Tunnel747
  no ip address
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interface Tunnel748
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no ip address
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interface Tunnel1749
no ip address
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interface Tunnel1750
no ip address
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interface Tunnel1751
no ip address
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interface Tunnel1752
no ip address
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interface Tunnel1753
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interface Tunnel1754
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interface Tunnel1755
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interface Tunnel1756
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interface Tunnel1757
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interface Tunnel1758
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interface Tunnel1759
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interface Tunnel1760
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interface Tunnel1761
no ip address
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interface Tunnel1762
no ip address
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interface Tunnel1763
no ip address
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interface Tunnel1764
no ip address
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interface Tunnel1765
no ip address
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interface Tunnel1766
no ip address
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interface Tunnel1767
no ip address
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interface Tunnel1768
no ip address
!
interface Tunnel1769
no ip address
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!  
interface Tunnel770  
  no ip address  
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interface Tunnel771  
  no ip address  
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interface Tunnel772  
  no ip address  
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interface Tunnel773  
  no ip address  
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interface Tunnel774  
  no ip address  
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interface Tunnel775  
  no ip address  
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interface Tunnel776  
  no ip address  
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interface Tunnel777  
  no ip address  
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interface Tunnel778  
  no ip address  
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interface Tunnel779  
  no ip address  
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interface Tunnel780  
  no ip address  
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interface Tunnel781  
  no ip address  
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interface Tunnel782  
  no ip address  
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interface Tunnel783  
  no ip address  
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interface Tunnel784  
  no ip address  
!  
interface Tunnel785  
  no ip address  
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interface Tunnel786  
  no ip address  
!  
interface Tunnel787  
  no ip address  
!  
interface Tunnel788  
  no ip address  
!  
interface Tunnel789  
  no ip address  
!  
interface Tunnel790  
  no ip address  
!
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interface Tunnel791
  no ip address
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interface Tunnel792
  no ip address
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interface Tunnel793
  no ip address
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interface Tunnel794
  no ip address
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interface Tunnel795
  no ip address
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interface Tunnel796
  no ip address
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interface Tunnel797
  no ip address
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interface Tunnel798
  no ip address
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interface Tunnel799
  no ip address
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interface Tunnel800
  no ip address
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interface Tunnel801
  no ip address
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interface Tunnel802
  no ip address
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interface Tunnel803
  no ip address
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interface Tunnel804
  no ip address
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interface Tunnel805
  no ip address
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interface Tunnel806
  no ip address
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interface Tunnel807
  no ip address
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interface Tunnel808
  no ip address
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interface Tunnel809
  no ip address
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interface Tunnel810
  no ip address
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interface Tunnel811
  no ip address
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interface Tunnel812
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no ip address
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interface Tunnel813
no ip address
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interface Tunnel814
no ip address
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interface Tunnel815
no ip address
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interface Tunnel816
no ip address
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interface Tunnel817
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interface Tunnel818
no ip address
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interface Tunnel819
no ip address
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interface Tunnel820
no ip address
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interface Tunnel821
no ip address
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interface Tunnel822
no ip address
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interface Tunnel823
no ip address
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interface Tunnel824
no ip address
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interface Tunnel825
no ip address
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interface Tunnel826
no ip address
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interface Tunnel827
no ip address
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interface Tunnel828
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interface Tunnel829
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interface Tunnel830
no ip address
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interface Tunnel831
no ip address
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interface Tunnel832
no ip address
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interface Tunnel833
no ip address
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interface Tunnel834  
  no ip address  
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interface Tunnel835  
  no ip address  
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interface Tunnel836  
  no ip address  
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interface Tunnel837  
  no ip address  
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interface Tunnel838  
  no ip address  
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interface Tunnel839  
  no ip address  
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interface Tunnel840  
  no ip address  
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interface Tunnel841  
  no ip address  
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interface Tunnel842  
  no ip address  
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interface Tunnel843  
  no ip address  
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interface Tunnel844  
  no ip address  
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interface Tunnel845  
  no ip address  
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interface Tunnel846  
  no ip address  
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interface Tunnel847  
  no ip address  
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interface Tunnel848  
  no ip address  
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interface Tunnel849  
  no ip address  
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interface Tunnel850  
  no ip address  
!  
interface Tunnel851  
  no ip address  
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interface Tunnel852  
  no ip address  
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interface Tunnel853  
  no ip address  
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interface Tunnel854  
  no ip address  
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interface Tunnel855
  no ip address
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interface Tunnel856
  no ip address
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interface Tunnel857
  no ip address
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interface Tunnel858
  no ip address
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interface Tunnel859
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interface Tunnel860
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interface Tunnel861
  no ip address
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interface Tunnel862
  no ip address
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interface Tunnel863
  no ip address
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interface Tunnel864
  no ip address
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interface Tunnel865
  no ip address
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interface Tunnel866
  no ip address
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interface Tunnel867
  no ip address
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interface Tunnel868
  no ip address
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interface Tunnel869
  no ip address
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interface Tunnel870
  no ip address
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interface Tunnel871
  no ip address
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interface Tunnel872
  no ip address
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interface Tunnel873
  no ip address
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interface Tunnel874
  no ip address
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interface Tunnel875
  no ip address
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interface Tunnel876
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no ip address
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interface Tunnel877
no ip address
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interface Tunnel878
no ip address
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interface Tunnel879
no ip address
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interface Tunnel880
no ip address
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interface Tunnel881
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interface Tunnel882
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interface Tunnel883
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interface Tunnel884
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interface Tunnel885
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interface Tunnel886
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interface Tunnel887
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interface Tunnel888
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interface Tunnel889
no ip address
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interface Tunnel890
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interface Tunnel891
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interface Tunnel892
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interface Tunnel893
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interface Tunnel894
no ip address
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interface Tunnel895
no ip address
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interface Tunnel896
no ip address
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interface Tunnel897
no ip address
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interface Tunnel898  
  no ip address  
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interface Tunnel899  
  no ip address  
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interface Tunnel900  
  no ip address  
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interface Tunnel901  
  no ip address  
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interface Tunnel902  
  no ip address  
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interface Tunnel903  
  no ip address  
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interface Tunnel904  
  no ip address  
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interface Tunnel905  
  no ip address  
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interface Tunnel906  
  no ip address  
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interface Tunnel908  
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interface Tunnel911  
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interface Tunnel912  
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interface Tunnel913  
  no ip address  
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interface Tunnel914  
  no ip address  
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interface Tunnel915  
  no ip address  
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interface Tunnel916  
  no ip address  
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interface Tunnel917  
  no ip address  
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interface Tunnel918  
  no ip address  
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interface Tunnel919
  no ip address
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interface Tunnel920
  no ip address
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interface Tunnel921
  no ip address
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interface Tunnel922
  no ip address
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interface Tunnel923
  no ip address
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interface Tunnel924
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interface Tunnel925
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interface Tunnel926
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interface Tunnel927
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interface Tunnel929
  no ip address
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interface Tunnel930
  no ip address
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interface Tunnel931
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interface Tunnel932
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interface Tunnel933
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interface Tunnel934
  no ip address
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interface Tunnel935
  no ip address
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interface Tunnel936
  no ip address
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interface Tunnel937
  no ip address
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interface Tunnel938
  no ip address
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interface Tunnel939
  no ip address
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interface Tunnel940
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no ip address
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interface Tunnel941
no ip address
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interface Tunnel942
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interface Tunnel943
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interface Tunnel944
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interface Tunnel945
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interface Tunnel946
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interface Tunnel947
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interface Tunnel948
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interface Tunnel949
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interface Tunnel950
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interface Tunnel951
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interface Tunnel952
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interface Tunnel953
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interface Tunnel954
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interface Tunnel958
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interface Tunnel959
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interface Tunnel960
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interface Tunnel961
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interface Tunnel962  
  no ip address  
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interface Tunnel963  
  no ip address  
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interface Tunnel964  
  no ip address  
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interface Tunnel965  
  no ip address  
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interface Tunnel966  
  no ip address  
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interface Tunnel967  
  no ip address  
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interface Tunnel968  
  no ip address  
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interface Tunnel969  
  no ip address  
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interface Tunnel970  
  no ip address  
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interface Tunnel971  
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interface Tunnel972  
  no ip address  
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interface Tunnel973  
  no ip address  
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interface Tunnel974  
  no ip address  
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interface Tunnel975  
  no ip address  
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interface Tunnel976  
  no ip address  
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interface Tunnel977  
  no ip address  
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interface Tunnel978  
  no ip address  
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interface Tunnel979  
  no ip address  
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interface Tunnel980  
  no ip address  
!  
interface Tunnel981  
  no ip address  
!  
interface Tunnel982  
  no ip address  
!
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interface Tunnel983
  no ip address
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interface Tunnel984
  no ip address
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interface Tunnel985
  no ip address
!
interface Tunnel986
  no ip address
!
interface Tunnel987
  no ip address
!
interface Tunnel988
  no ip address
!
interface Tunnel989
  no ip address
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interface Tunnel990
  no ip address
!
interface Tunnel991
  no ip address
!
interface Tunnel992
  no ip address
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interface Tunnel993
  no ip address
!
interface Tunnel994
  no ip address
!
interface Tunnel995
  no ip address
!
interface Tunnel996
  no ip address
!
interface Tunnel997
  no ip address
!
interface Tunnel998
  no ip address
!
interface Tunnel999
  no ip address
!
interface Tunnel1000
  no ip address
!
interface GigabitEthernet0/0/0
  no ip address
  shutdown
  negotiation auto
!
interface GigabitEthernet0/0/1
  no ip address
  shutdown
  negotiation auto
!
```

```
interface GigabitEthernet0/0/2
  no ip address
  negotiation auto
!
interface GigabitEthernet0/0/2.1
  encapsulation dot1Q 100
  vrf forwarding C1_0
  ip address <removed>!
interface GigabitEthernet0/0/3
  no ip address
  shutdown
  negotiation auto
!
interface GigabitEthernet0/0/4
  no ip address
  shutdown
  negotiation auto
!
interface GigabitEthernet0/0/5
  no ip address
  shutdown
  negotiation auto
!
interface GigabitEthernet0/0/6
  no ip address
  shutdown
  negotiation auto
!
interface GigabitEthernet0/0/7
  no ip address
  shutdown
  negotiation auto
!
interface TenGigabitEthernet0/1/0
  ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/1/2
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/1/3
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/1/4
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/1/5
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/1/6
  no ip address
  shutdown
```

```

    no negotiation auto
    !
interface TenGigabitEthernet0/1/7
    no ip address
    shutdown
    no negotiation auto
    !
interface GigabitEthernet0
    vrf forwarding Mgmt-intf
    ip address <removed> negotiation auto
    !
router ospf 100
    network 50.50.50.0 0.0.0.255 area 0
    network 208.200.0.2 0.0.0.0 area 0
    !
router bgp 64001
    bgp router-id 111.111.111.111
    bgp log-neighbor-changes
    !
    address-family ipv4 vrf C1_0
        network 192.0.0.0
        redistribute connected
        neighbor 192.0.1.1 remote-as 64001
        neighbor 192.0.1.1 activate
    exit-address-family
    !
ip forward-protocol nd
    !
ip tftp source-interface GigabitEthernet0
ip tftp blocksize 8192
ip http server
ip http authentication local
ip http secure-server
ip ssh bulk-mode 131072
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.45.0.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
    !
    !
    !
    !
    !
control-plane
    !
    !
    !
    !
    !
line con 0
    exec-timeout 0 0
    stopbits 1
line aux 0
line vty 0 4
    login
    transport input ssh
    !
call-home
    ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
    ! the email address configured in Cisco Smart License Portal will be used as contact email
    address to send SCH notifications.
    contact-email-addr sch-smart-licensing@cisco.com
    profile "CiscoTAC-1"
    active

```

```
        destination transport-method http
    !
    !
    !
    !
    !
end
```



```

!
!
!
!
!
!
crypto pki trustpoint TP-self-signed-2134189379
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-2134189379
  revocation-check none
  rsakeypair TP-self-signed-2134189379
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
!
crypto pki trustpoint client
  enrollment url http://[3001:0:0:1::1]:80
  subject-name CN=Hub
  revocation-check none
  rsakeypair client
!
!
!
license udi pid C8500-12X4QC sn TTM231100CF
license boot level network-advantage addon dna-advantage
no memory lite
memory free low-watermark processor 984138
hw-module subslot 0/1 mode 10G
hw-module subslot 0/2 mode 40G
hw-module subslot 0/2 breakout none port all
!
!
spanning-tree extend system-id
diagnostic bootup level minimal
!
!
redundancy
  mode none
!
!
crypto ikev2 proposal IKEv2_PROPOSAL
  encryption aes-gcm-256
  prf sha512
  group 15
!
crypto ikev2 policy IKEv2_POLICY
  proposal IKEv2_PROPOSAL
!
!
crypto ikev2 profile IKEv2_PROFILE
  match identity remote address ::/0
  authentication remote rsa-sig
  authentication local rsa-sig
  pki trustpoint client
!
crypto ikev2 dpd 60 3 on-demand
crypto ikev2 limit max-in-negotiation-sa 10 outgoing
!
!
!
!
!
!

```

```

!
!
!
!
!
!
crypto ipsec transform-set TRANSFORM_SET esp-gcm 256
mode transport
!
crypto ipsec profile IPSec_PROFILE
set transform-set TRANSFORM_SET
set pfs group15
set ikev2-profile IKEv2_PROFILE
!
!
!
!
!
!
!
!
!
interface Loopback1
no ip address
ipv6 address <removed>
ipv6 enable
ospfv3 100 ipv6 area 0
!
interface Loopback2
no ip address
ipv6 address <removed>
ipv6 enable
ospfv3 100 ipv6 area 0
!
interface Tunnell
no ip address
ipv6 address <removed> link-local
ipv6 address <removed>
ipv6 enable
ipv6 mtu 1400
ipv6 tcp adjust-mss 1200
ipv6 nhrp network-id 1000
ipv6 nhrp holdtime 3600
ipv6 nhrp redirect
cts sgt inline
bfd interval 1000 min_rx 1000 multiplier 5
tunnel source Loopback1
tunnel mode gre multipoint ipv6
tunnel path-mtu-discovery
tunnel protection ipsec profile IPSec_PROFILE
!
interface Tunnell1
no ip address
ipv6 address <removed> link-local
ipv6 address <removed>
ipv6 enable
ipv6 mtu 1400
ipv6 tcp adjust-mss 1200
ipv6 nhrp network-id 1000
ipv6 nhrp holdtime 3600
ipv6 nhrp nhs 4003::1 nbma 4004:0:0:1::1 multicast
cts sgt inline
bfd interval 1000 min_rx 1000 multiplier 5

```

```
tunnel source Loopback2
tunnel mode gre multipoint ipv6
tunnel path-mtu-discovery
tunnel protection ipsec profile IPsec_PROFILE
!
interface TenGigabitEthernet0/0/0
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/1
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/2
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/3
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/4
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/5
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/6
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/7
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/1/0
no ip address
no negotiation auto
ipv6 address <removed>
ipv6 enable
ospfv3 100 ipv6 area 0
!
interface TenGigabitEthernet0/1/1
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/1/2
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/1/3
no ip address
no negotiation auto
!
interface FortyGigabitEthernet0/2/0
no ip address
shutdown
no negotiation auto
!
interface FortyGigabitEthernet0/2/4
no ip address
shutdown
```

```

    no negotiation auto
    !
    interface FortyGigabitEthernet0/2/8
    no ip address
    shutdown
    no negotiation auto
    !
    interface GigabitEthernet0
    vrf forwarding Mgmt-intf
    ip address <removed> negotiation auto
    !
    router ospfv3 100
    !
    address-family ipv6 unicast
    router-id 1.1.1.2
    exit-address-family
    !
    router bgp 65000
    bgp router-id 1.1.1.2
    bgp log-neighbor-changes
    bgp listen range 2003::/48 peer-group DMVPN_SPOKES
    bgp listen limit 10000
    timers bgp 10 30
    neighbor DMVPN_SPOKES peer-group
    neighbor DMVPN_SPOKES remote-as 65001
    neighbor 4003::1 remote-as 64999
    !
    address-family ipv4
    neighbor DMVPN_SPOKES activate
    no neighbor 4003::1 activate
    exit-address-family
    !
    address-family ipv6
    aggregate-address 3700::/48 summary-only
    aggregate-address 3500::/48 summary-only
    aggregate-address 3300::/48 summary-only
    aggregate-address 3100::/48 summary-only
    neighbor DMVPN_SPOKES activate
    neighbor DMVPN_SPOKES next-hop-self
    neighbor DMVPN_SPOKES as-override split-horizon
    neighbor 4003::1 activate
    neighbor 4003::1 next-hop-self
    neighbor 4003::1 as-override split-horizon
    exit-address-family
    !
    ip http server
    ip http authentication local
    ip http secure-server
    ip forward-protocol nd
    !
    ip tftp source-interface GigabitEthernet0
    ip tftp blocksize 8192
    ip route vrf Mgmt-intf 202.153.144.25 255.255.255.255 9.41.0.1
    ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
    !
    !
    !
    !
    !
    control-plane
    !
    !
    !

```

```

!
!
!
line con 0
  exec-timeout 0 0
  stopbits 1
line aux 0
line vty 0 4
  exec-timeout 0 0
  login
  transport input ssh
!
call-home
  ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
  ! the email address configured in Cisco Smart License Portal will be used as contact email
  ! address to send SCH notifications.
  contact-email-addr sch-smart-licensing@cisco.com
  profile "CiscoTAC-1"
  active
  destination transport-method http
!
!
!
!
!
!
end

```

Configuration example for hub2

```

version 17.6
service timestamps debug datetime msec
service timestamps log datetime msec
service internal
service call-home
platform qfp utilization monitor load 80
platform punt-keepalive disable-kernel-core
!
hostname regional_hub2
!
boot-start-marker
boot system bootflash:asr1001x-universalk9.BLD_V176_THROTTLE_LATEST_20220713_231940.SSA.bin
boot-end-marker
!
!
vrf definition Mgmt-intf
!
  address-family ipv4
  exit-address-family
!
  address-family ipv6
  exit-address-family
!
no logging console
!
no aaa new-model
clock timezone IST 5 30
!
!
!
!
!
!
!

```

```

!
!
!
!
!
login on-success log
ipv6 unicast-routing
!
!
!
!
!
!
subscriber templating
!
!
!
!
!
multilink bundle-name authenticated
!
!
!
!
!
!
!
!
crypto pki server rootca
  no database archive
  grant auto
  hash sha256
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
!
crypto pki trustpoint rootca
  revocation-check crl
  rsakeypair rootca
!
crypto pki trustpoint client
  enrollment url http://[3001:0:0:1::1]:80
  subject-name CN=Hub
  revocation-check none
  rsakeypair client
!
!
crypto pki certificate chain client
!
!
license udi pid ASR1001-X sn JAE184605L3
license accept end user agreement
license boot level adventureprise
memory free low-watermark processor 374207
!
!
spanning-tree extend system-id
diagnostic bootup level minimal
!
!

```

```

redundancy
  mode none
!
!
crypto ikev2 proposal IKEv2_PROPOSAL
  encryption aes-gcm-256
  prf sha512
  group 15
!
crypto ikev2 policy IKEv2_POLICY
  proposal IKEv2_PROPOSAL
!
!
crypto ikev2 profile IKEv2_PROFILE
  match identity remote address ::/0
  authentication remote rsa-sig
  authentication local rsa-sig
  pki trustpoint client
  pki trustpoint rootca
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
!
!
!
!
!
!
crypto ipsec transform-set TRANSFORM_SET esp-gcm 256
  mode transport
!
crypto ipsec profile IPSec_PROFILE
  set transform-set TRANSFORM_SET
  set pfs group15
  set ikev2-profile IKEv2_PROFILE
!
!
!
!
!
!
!
!
!
interface Loopback1
  no ip address
  ipv6 address <removed>
  ipv6 enable
  ospfv3 100 ipv6 area 0
!
interface Loopback2
  no ip address
  ipv6 address <removed>
  ipv6 enable
  ospfv3 100 ipv6 area 0
!
interface Loopback10001
  no ip address
  ipv6 address <removed>

```

```

    ipv6 enable
    ospfv3 100 ipv6 area 0
  !
interface Tunnel1
  no ip address
  ipv6 address <removed> link-local
  ipv6 address <removed>
  ipv6 enable
  ipv6 mtu 1400
  ipv6 tcp adjust-mss 1200
  ipv6 nhrp network-id 1000
  ipv6 nhrp holdtime 3600
  ipv6 nhrp redirect
  cts sgt inline
  bfd interval 1000 min_rx 1000 multiplier 5
  tunnel source Loopback1
  tunnel mode gre multipoint ipv6
  tunnel path-mtu-discovery
  tunnel protection ipsec profile IPsec_PROFILE
  !
interface Tunnel11
  no ip address
  ipv6 address <removed> link-local
  ipv6 address <removed>
  ipv6 enable
  ipv6 mtu 1400
  ipv6 tcp adjust-mss 1200
  ipv6 nhrp network-id 1000
  ipv6 nhrp holdtime 3600
  ipv6 nhrp nhs 4003::1 nbma 4004:0:0:1::1 multicast
  cts sgt inline
  bfd interval 1000 min_rx 1000 multiplier 5
  tunnel source Loopback2
  tunnel mode gre multipoint ipv6
  tunnel path-mtu-discovery
  tunnel protection ipsec profile IPsec_PROFILE
  !
interface TenGigabitEthernet0/0/0
  no ip address
  !
interface TenGigabitEthernet0/0/1
  no ip address
  !
interface GigabitEthernet0/0/0
  no ip address
  negotiation auto
  !
interface GigabitEthernet0/0/1
  no ip address
  negotiation auto
  ipv6 address <removed>
  ipv6 enable
  ospfv3 100 ipv6 area 0
  !
interface GigabitEthernet0/0/2
  no ip address
  negotiation auto
  !
interface GigabitEthernet0/0/3
  no ip address
  negotiation auto
  !
interface GigabitEthernet0/0/4
  no ip address

```

```

    negotiation auto
    !
interface GigabitEthernet0/0/5
    no ip address
    negotiation auto
    !
interface POS0/1/0
    no ip address
    !
interface POS0/1/1
    no ip address
    !
interface GigabitEthernet0
    vrf forwarding Mgmt-intf
    ip address <removed> negotiation auto
    !
router ospfv3 100
    !
    address-family ipv6 unicast
        router-id 1.1.1.3
    exit-address-family
    !
router bgp 65100
    bgp router-id 1.1.1.3
    bgp log-neighbor-changes
    bgp listen range 3003::/48 peer-group DMVPN_SPOKES
    bgp listen limit 10000
    timers bgp 10 30
    neighbor DMVPN_SPOKES peer-group
    neighbor DMVPN_SPOKES remote-as 65100
    neighbor 4003::1 remote-as 64999
    !
    address-family ipv4
        neighbor DMVPN_SPOKES activate
        no neighbor 4003::1 activate
    exit-address-family
    !
    address-family ipv6
        aggregate-address 3800::/48 summary-only
        aggregate-address 3600::/48 summary-only
        aggregate-address 3400::/48 summary-only
        aggregate-address 3200::/48 summary-only
        neighbor DMVPN_SPOKES activate
        neighbor DMVPN_SPOKES next-hop-self
        neighbor DMVPN_SPOKES as-override split-horizon
        neighbor 4003::1 activate
        neighbor 4003::1 next-hop-self
        neighbor 4003::1 as-override split-horizon
    exit-address-family
    !
ip http server
ip http secure-server
ip forward-protocol nd
    !
ip tftp source-interface GigabitEthernet0
ip route vrf Mgmt-intf 202.153.144.25 255.255.255.255 9.41.0.1
    !
    !
    !
    !
    !
control-plane
    !

```

```

!
!
!
!
!
line con 0
  exec-timeout 0 0
  stopbits 1
line aux 0
line vty 0 4
  exec-timeout 0 0
  login
  transport input ssh
!
call-home
  ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
  ! the email address configured in Cisco Smart License Portal will be used as contact email
  ! address to send SCH notifications.
  contact-email-addr sch-smart-licensing@cisco.com
  profile "CiscoTAC-1"
    active
    destination transport-method http
ntp master
!
!
!
!
!
!
end

```

Configuration example for root

```

version 17.6
service timestamps debug datetime msec
service timestamps log datetime msec
service internal
service call-home
platform qfp utilization monitor load 80
platform punt-keepalive disable-kernel-core
!
hostname root_primary
!
boot-start-marker
boot system bootflash:c8000aep-universalk9.DC2-Hub1.dmvpn_soak.SSA.bin
boot-end-marker
!
!
vrf definition Mgmt-intf
!
  address-family ipv4
  exit-address-family
!
  address-family ipv6
  exit-address-family
!
no logging console
!
no aaa new-model
!
!
!
!
!

```

```

!
!
!
!
!
!
login on-success log
ipv6 unicast-routing
!
!
!
!
!
!
subscriber templating
!
!
!
!
!
multilink bundle-name authenticated
!
!
!
!
!
!
!
crypto pki trustpoint TP-self-signed-345927470
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-345927470
  revocation-check none
  rsakeypair TP-self-signed-345927470
  hash sha256
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
  hash sha256
!
crypto pki trustpoint client
  enrollment url http://[3001:0:0:1::1]:80
  subject-name CN=Hub
  revocation-check none
  rsakeypair client
!
!
!
!
license udi pid C8500-12X sn TTM224202LR
license boot level network-advantage addon dna-advantage
no memory lite
memory free low-watermark processor 675468
!
!
spanning-tree extend system-id
diagnostic bootup level minimal
!
!

```

```

redundancy
  mode none
!
!
crypto ikev2 proposal IKEv2_PROPOSAL
  encryption aes-gcm-256
  prf sha512
  group 15
!
crypto ikev2 policy IKEv2_POLICY
  proposal IKEv2_PROPOSAL
!
!
crypto ikev2 profile IKEv2_PROFILE
  match identity remote address ::/0
  authentication remote rsa-sig
  authentication local rsa-sig
  pki trustpoint client
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
!
!
!
!
!
!
crypto ipsec transform-set TRANSFORM_SET esp-gcm 256
  mode transport
!
crypto ipsec profile IPSec_PROFILE
  set transform-set TRANSFORM_SET
  set pfs group15
  set ikev2-profile IKEv2_PROFILE
!
!
!
!
!
!
!
!
!
interface Loopback1
  no ip address
  ipv6 address <removed>
  ipv6 enable
  ospfv3 100 ipv6 area 0
!
interface Tunnel1
  no ip address
  ipv6 address <removed> link-local
  ipv6 address <removed>
  ipv6 enable
  ipv6 mtu 1400
  ipv6 tcp adjust-mss 1200
  ipv6 nhrp network-id 1000
  ipv6 nhrp holdtime 3600
  ipv6 nhrp redirect

```

```
cts sgt inline
bfd interval 1000 min_rx 1000 multiplier 5
tunnel source Loopback1
tunnel mode gre multipoint ipv6
tunnel path-mtu-discovery
tunnel protection ipsec profile IPsec_PROFILE
!
interface TenGigabitEthernet0/0/0
no ip address
no negotiation auto
ipv6 address <removed>
ipv6 enable
ospfv3 100 ipv6 area 0
!
interface TenGigabitEthernet0/0/1
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/2
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/3
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/4
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/5
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/6
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/7
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/8
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/9
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/10
no ip address
no negotiation auto
!
interface TenGigabitEthernet0/0/11
no ip address
no negotiation auto
!
interface GigabitEthernet0
vrf forwarding Mgmt-intf
ip address <removed> negotiation auto
!
router ospfv3 100
!
```

```

address-family ipv6 unicast
  router-id 1.1.1.1
exit-address-family
!
router bgp 64999
  bgp router-id 1.1.1.1
  bgp log-neighbor-changes
  timers bgp 10 30
  neighbor 4003:0:0:1::1 remote-as 65000
  neighbor 4003:0:0:2::1 remote-as 65100
  !
address-family ipv4
  no neighbor 4003:0:0:1::1 activate
  no neighbor 4003:0:0:2::1 activate
exit-address-family
!
address-family ipv6
  neighbor 4003:0:0:1::1 activate
  neighbor 4003:0:0:1::1 next-hop-self
  neighbor 4003:0:0:1::1 as-override split-horizon
  neighbor 4003:0:0:2::1 activate
  neighbor 4003:0:0:2::1 next-hop-self
  neighbor 4003:0:0:2::1 as-override split-horizon
exit-address-family
!
ip http server
ip http authentication local
ip http secure-server
ip forward-protocol nd
!
ip tftp source-interface GigabitEthernet0
ip tftp blocksize 8192
ip route vrf Mgmt-intf 202.153.144.25 255.255.255.255 9.41.0.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
ip ssh bulk-mode 131072
!
!
!
!
!
!
control-plane
!
!
!
!
!
!
line con 0
  exec-timeout 0 0
  stopbits 1
line aux 0
line vty 0
  exec-timeout 0 0
  login
  length 0
  transport input ssh
line vty 1 4
  exec-timeout 0 0
  login
  transport input ssh
!
call-home
  ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com

```

Configuration example for spoke

Cisco SD-Routing DMVPN Yang Commands

Cisco SD-Routing DMVPN Yang Commands

```

!
!
crypto ikev2 profile IKEv2_PROFILE
  match identity remote address ::/0
  authentication remote rsa-sig
  authentication local rsa-sig
  pki trustpoint client
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
!
!
!
!
!
!
!
crypto ipsec transform-set TRANSFORM_SET esp-gcm 256
  mode transport
!
crypto ipsec profile IPSec_PROFILE
  set transform-set TRANSFORM_SET
  set pfs group15
  set ikev2-profile IKEv2_PROFILE
!
!
!
!
!
!
!
!
!
!
interface Loopback1
  no ip address
  ipv6 address <removed>
  ipv6 enable
  ospfv3 100 ipv6 area 0
!
interface Tunnell
  vrf forwarding C1_1
  no ip address
  ipv6 address <removed> link-local
  ipv6 address <removed>
  ipv6 enable
  ipv6 mtu 1400
  ipv6 tcp adjust-mss 1200
  ipv6 nhrp network-id 1000
  ipv6 nhrp holdtime 3600
  ipv6 nhrp nhs 2003::1 nbma 2004:0:0:1::1 multicast
  cts sgt inline
  bfd interval 1000 min_rx 1000 multiplier 5
  tunnel source Loopback1
  tunnel mode gre multipoint ipv6
  tunnel path-mtu-discovery
  tunnel protection ipsec profile IPSec_PROFILE
!
interface GigabitEthernet0/0/0
  no ip address
  negotiation auto

```

```

!
interface GigabitEthernet0/0/1
  no ip address
  negotiation auto
!
interface GigabitEthernet0/0/2
  no ip address
  negotiation auto
!
interface GigabitEthernet0/0/2.1
  encapsulation dot1Q 100
  vrf forwarding C1_1
  ipv6 address <removed>
  ipv6 enable
!
interface GigabitEthernet0/0/3
  no ip address
  negotiation auto
!
interface GigabitEthernet0/0/4
  no ip address
  negotiation auto
!
interface GigabitEthernet0/0/5
  no ip address
  negotiation auto
!
interface GigabitEthernet0/0/6
  no ip address
  negotiation auto
!
interface GigabitEthernet0/0/7
  no ip address
  negotiation auto
!
interface TenGigabitEthernet0/1/0
  no ip address
  no negotiation auto
  ipv6 address <removed>
  ipv6 enable
  ospfv3 100 ipv6 area 0
!
interface TenGigabitEthernet0/1/1
  no ip address
  no negotiation auto
!
interface TenGigabitEthernet0/1/2
  no ip address
  no negotiation auto
!
interface TenGigabitEthernet0/1/3
  no ip address
  no negotiation auto
!
interface TenGigabitEthernet0/1/4
  no ip address
  no negotiation auto
!
interface TenGigabitEthernet0/1/5
  no ip address
  no negotiation auto
!
interface TenGigabitEthernet0/1/6
  no ip address

```

```

    no negotiation auto
    !
interface TenGigabitEthernet0/1/7
    no ip address
    no negotiation auto
    !
interface GigabitEthernet0
    vrf forwarding Mgmt-intf
    ip address <removed> negotiation auto
    !
router ospfv3 100
    !
    address-family ipv6 unicast
        router-id 21.21.21.21
    exit-address-family
    !
router bgp 65001
    bgp router-id 21.21.21.21
    bgp log-neighbor-changes
    timers bgp 10 30
    !
    address-family ipv6 vrf C1_1
        network 2003::/48
        network 3100:0:0:1::/64
        neighbor 2003::1 remote-as 65000
        neighbor 2003::1 activate
    exit-address-family
    !
ip forward-protocol nd
    !
ip tftp source-interface GigabitEthernet0
ip tftp blocksize 8192
ip http server
ip http authentication local
ip http secure-server
ip ssh bulk-mode 131072
ip route vrf Mgmt-intf 202.153.144.25 255.255.255.255 9.41.0.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.45.0.1
    !
    !
    !
    !
    !
control-plane
    !
    !
    !
    !
    !
line con 0
    exec-timeout 0 0
    stopbits 1
line aux 0
line vty 0 4
    exec-timeout 0 0
    login
    transport input ssh
    !
call-home
    ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
    ! the email address configured in Cisco Smart License Portal will be used as contact email
    address to send SCH notifications.

```

```
contact-email-addr sch-smart-licensing@cisco.com
profile "CiscoTAC-1"
  active
  destination transport-method http
ntp master
!
!
!
!
!
!
end
```



```

!
!
!
!
!
crypto pki trustpoint TP-self-signed-2134189379
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-2134189379
  revocation-check none
  rsakeypair TP-self-signed-2134189379
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
!
!
license udi pid C8500-12X4QC sn TTM231100CF
license boot level network-advantage addon dna-advantage
no memory lite
memory free low-watermark processor 984138
hw-module subslot 0/1 mode 10G
hw-module subslot 0/2 mode 40G
hw-module subslot 0/2 breakout none port all
!
!
spanning-tree extend system-id
diagnostic bootup level minimal
!
!
redundancy
  mode none
!
!
!
!
!
!
!
class-map match-all group1_Routing
  match ip precedence 6
class-map match-all group2_Routing
  match ip precedence 6
class-map match-all group2_voice
  match access-group 100
class-map match-all group1_voice
  match access-group 100
!
policy-map group2
  class group2_voice
    priority percent 20
  class group2_Routing
    bandwidth percent 10
policy-map group2_parent
  class class-default
    shape average 2000000
    service-policy group2
policy-map group1
  class group1_voice
    priority 1000
  class group1_Routing
    bandwidth percent 20
policy-map group1_parent

```

```

class class-default
  shape average 3000000
  service-policy group1
!
!
!
!
!
!
!
crypto isakmp policy 10
  encryption aes 256
  hash sha256
  authentication pre-share
  group 14
crypto isakmp key cisco123 address 0.0.0.0
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
  mode transport
!
!
crypto ipsec profile dmvpn-hub-ikev1
  set transform-set tset1
  set pfs group19
!
!
!
!
!
!
!
!
!
interface Tunnell
  ip address <removed> no ip redirects
  ip mtu 1400
  ip hello-interval eigrp 101 30
  ip hold-time eigrp 101 90
  ip nhrp network-id 1000
  ip nhrp redirect
  ip tcp adjust-mss 1200
  ip summary-address eigrp 101 10.0.0.0 255.0.0.0
  nhrp map group spoke_group1 service-policy output group1_parent
  nhrp map group spoke_group2 service-policy output group2_parent
  cts sgt inline
  bfd interval 1000 min_rx 1000 multiplier 5
  no bfd echo
  tunnel source TenGigabitEthernet0/1/0
  tunnel mode gre multipoint
  tunnel path-mtu-discovery
  tunnel protection ipsec profile dmvpn-hub-ikev1
!
interface TenGigabitEthernet0/0/0
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/0/1
  no ip address
  shutdown
  no negotiation auto
!

```

```
interface TenGigabitEthernet0/0/2
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/0/3
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/0/4
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/0/5
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/0/6
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/0/7
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/1/0
  ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/1/2
  no ip address
  shutdown
  no negotiation auto
!
interface TenGigabitEthernet0/1/3
  ip address <removed> no negotiation auto
!
interface FortyGigabitEthernet0/2/0
  no ip address
  shutdown
  no negotiation auto
!
interface FortyGigabitEthernet0/2/4
  no ip address
  shutdown
  no negotiation auto
!
interface FortyGigabitEthernet0/2/8
  no ip address
  shutdown
  no negotiation auto
!
interface GigabitEthernet0
  vrf forwarding Mgmt-intf
  ip address <removed> negotiation auto
```

```

!
!
router eigrp 101
  network 150.100.0.0
  network 192.0.0.0 0.255.255.255
!
router nhrp 200
  network 100.0.0.0
!
ip http server
ip http authentication local
ip http secure-server
ip forward-protocol nd
!
ip tftp source-interface GigabitEthernet0
ip tftp blocksize 8192
ip route 0.0.0.0 0.0.0.0 100.0.10.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
!
!
!
snmp-server user roni g1 v3
snmp-server group g1 v3 noauth
snmp-server group g1 v3 auth read campus write campus
snmp mib nhrp
!
!
!
control-plane
!
!
!
!
!
!
line con 0
  exec-timeout 0 0
  stopbits 1
line aux 0
line vty 0 4
  login
  transport input ssh
!
call-home
  ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
  ! the email address configured in Cisco Smart License Portal will be used as contact email
  ! address to send SCH notifications.
  contact-email-addr sch-smart-licensing@cisco.com
  profile "CiscoTAC-1"
  active
  destination transport-method http
!
!
!
!
!
!
end

```

Configuration example for a spoke

```

version 17.13
service timestamps debug datetime msec
service timestamps log datetime msec

```

Cisco SD-Routing DMVPN Yang Commands

```

    hash sha256
  !
  crypto pki trustpoint SLA-TrustPoint
    enrollment pkcs12
    revocation-check crl
    hash sha256
  !
  !
  !
  !
  !
  !
  !
  !
  license udi pid ASR1001-HX sn JAE24530LQG
  license boot level adventerprise
  !
  no memory lite
  memory free low-watermark processor 675468
  diagnostic bootup level minimal
  !
  spanning-tree extend system-id
  !
  !
  !
  redundancy
    mode none
  !
  !
  !
  !
  !
  !
  class-map match-all group1_Routing
    match ip precedence 6
  class-map match-all group2_Routing
    match ip precedence 6
  class-map match-all group2_voice
    match access-group 100
  class-map match-all group1_voice
    match access-group 100
  !
  policy-map group2
    class group2_voice
      priority percent 20
    class group2_Routing
      bandwidth percent 10
  policy-map group2_parent
    class class-default
      shape average 2000000
      service-policy group2
  policy-map group1
    class group1_voice
      priority 1000
    class group1_Routing
      bandwidth percent 20
  policy-map group1_parent
    class class-default
      shape average 3000000
      service-policy group1
  !

```

```

!
!
!
!
!
!
crypto isakmp policy 10
  encryption aes 256
  hash sha256
  authentication pre-share
  group 14
crypto isakmp key cisco123 address 0.0.0.0
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
  mode transport
!
!
crypto ipsec profile dmvpn-hub-ikev1
  set transform-set tset1
  set pfs group19
!
!
!
!
!
!
!
!
interface Loopback1
  ip address <removed>!
interface Tunnel1
  vrf forwarding C1_1
  ip address <removed> no ip redirects
  ip hello-interval eigrp 101 30
  ip hold-time eigrp 101 90
  ip nhrp network-id 1000
  ip nhrp nhs 192.0.1.1 nbma 100.0.10.2 multicast
  ip tcp adjust-mss 1200
  nhrp group spoke_group1
  cts sgt inline
  bfd interval 1000 min_rx 1000 multiplier 5
  no bfd echo
  tunnel source Loopback1
  tunnel mode gre multipoint
  tunnel path-mtu-discovery
  tunnel protection ipsec profile dmvpn-hub-ikev1
!
interface GigabitEthernet0/0/0
  no ip address
  shutdown
  negotiation auto
!
interface GigabitEthernet0/0/1
  no ip address
  shutdown
  negotiation auto
!
interface GigabitEthernet0/0/2
  no ip address
  negotiation auto
!

```

```
interface GigabitEthernet0/0/2.1
 encapsulation dot1Q 100
 vrf forwarding Cl_1
 ip address <removed>!
interface GigabitEthernet0/0/3
 no ip address
 shutdown
 negotiation auto
!
interface GigabitEthernet0/0/4
 no ip address
 shutdown
 negotiation auto
!
interface GigabitEthernet0/0/5
 no ip address
 shutdown
 negotiation auto
!
interface GigabitEthernet0/0/6
 no ip address
 shutdown
 negotiation auto
!
interface GigabitEthernet0/0/7
 no ip address
 shutdown
 negotiation auto
!
interface TenGigabitEthernet0/1/0
 ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/1/2
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/1/3
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/1/4
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/1/5
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/1/6
 no ip address
 shutdown
 no negotiation auto
!
interface TenGigabitEthernet0/1/7
 no ip address
```

```

shutdown
no negotiation auto
!
interface GigabitEthernet0
vrf forwarding Mgmt-intf
ip address <removed> negotiation auto
!
!
router eigrp 101
!
address-family ipv4 vrf C1_1 autonomous-system 101
network 10.2.2.0 0.0.0.255
network 192.0.0.0 0.255.255.255
passive-interface GigabitEthernet0/0/2.1
exit-address-family
!
ip forward-protocol nd
!
ip tftp source-interface GigabitEthernet0
ip tftp blocksize 8192
ip http server
ip http authentication local
ip http secure-server
ip ssh bulk-mode 131072
ip route 0.0.0.0 0.0.0.0 50.50.50.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.45.0.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
!
!
!
!
!
control-plane
!
!
!
!
!
line con 0
exec-timeout 0 0
stopbits 1
line aux 0
line vty 0 4
login
transport input ssh
!
call-home
! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
! the email address configured in Cisco Smart License Portal will be used as contact email
address to send SCH notifications.
contact-email-addr sch-smart-licensing@cisco.com
profile "CiscoTAC-1"
active
destination transport-method http
!
!
!
!
!
!
end

```



```

!
!
!
!
!
crypto pki trustpoint TP-self-signed-2134189379
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-2134189379
  revocation-check none
  rsakeypair TP-self-signed-2134189379
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
!
!
!
license udi pid C8500-12X4QC sn TTM231100CF
license boot level network-advantage addon dna-advantage
no memory lite
memory free low-watermark processor 984138
hw-module subslot 0/1 mode 10G
hw-module subslot 0/2 mode 40G
hw-module subslot 0/2 breakout none port all
!
!
spanning-tree extend system-id
diagnostic bootup level minimal
!
!
redundancy
  mode none
!
!
crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share
  keyring local ikev2keyring
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
class-map match-all group1_Routing
  match ip precedence 6
class-map match-all group2_Routing

```

```

    match ip precedence 6
class-map match-all group2_voice
    match access-group 100
class-map match-all group1_voice
    match access-group 100
!
policy-map group2
    class group2_voice
        priority percent 20
    class group2_Routing
        bandwidth percent 10
policy-map group2_parent
    class class-default
        shape average 2000000
        service-policy group2
policy-map group1
    class group1_voice
        priority 1000
    class group1_Routing
        bandwidth percent 20
policy-map group1_parent
    class class-default
        shape average 3000000
        service-policy group1
!
!
!
!
!
!
!
!
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
    mode transport
!
!
crypto ipsec profile dmvpn-hub
    set transform-set tset1
    set pfs group19
    set ikev2-profile ikev2profile
!
!
!
!
!
!
!
!
interface Tunnel1
    ip address <removed> no ip redirects
    ip mtu 1400
    ip hello-interval eigrp 101 30
    ip hold-time eigrp 101 90
    ip nhrp network-id 1000
    ip nhrp redirect
    ip tcp adjust-mss 1200
    ip summary-address eigrp 101 10.0.0.0 255.0.0.0
    nhrp map group spoke_group1 service-policy output group1_parent
    nhrp map group spoke_group2 service-policy output group2_parent
    cts sgt inline
    bfd interval 1000 min_rx 1000 multiplier 5
    no bfd echo

```

```

tunnel source TenGigabitEthernet0/1/0
tunnel mode gre multipoint
tunnel path-mtu-discovery
tunnel protection ipsec profile dmvpn-hub
!
interface TenGigabitEthernet0/0/0
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/1
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/2
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/3
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/4
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/5
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/6
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/7
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/0
ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/2
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/3
ip address <removed> no negotiation auto
!
interface FortyGigabitEthernet0/2/0
no ip address
shutdown

```

```

    no negotiation auto
    !
interface FortyGigabitEthernet0/2/4
    no ip address
    shutdown
    no negotiation auto
    !
interface FortyGigabitEthernet0/2/8
    no ip address
    shutdown
    no negotiation auto
    !
interface GigabitEthernet0
    vrf forwarding Mgmt-intf
    ip address <removed> negotiation auto
    !
    !
router eigrp 101
    network 150.100.0.0
    network 192.0.0.0 0.255.255.255
    !
router nhrp 200
    network 100.0.0.0
    !
ip http server
ip http authentication local
ip http secure-server
ip forward-protocol nd
    !
ip tftp source-interface GigabitEthernet0
ip tftp blocksize 8192
ip route 0.0.0.0 0.0.0.0 100.0.10.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
    !
    !
    !
snmp-server user roni g1 v3
snmp-server group g1 v3 noauth
snmp-server group g1 v3 auth read campus write campus
snmp mib nhrp
    !
    !
    !
control-plane
    !
    !
    !
    !
    !
    !
line con 0
    exec-timeout 0 0
    stopbits 1
line aux 0
line vty 0 4
    login
    transport input ssh
    !
call-home
    ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
    ! the email address configured in Cisco Smart License Portal will be used as contact email
    address to send SCH notifications.
    contact-email-addr sch-smart-licensing@cisco.com
    profile "CiscoTAC-1"

```

```

active
destination transport-method http
!
!
!
!
!
!
end

```

Configuration example for a spoke

```

version 17.13
service timestamps debug datetime msec
service timestamps log datetime msec
service internal
service call-home
platform qfp utilization monitor load 80
platform punt-keepalive disable-kernel-core
platform ipsec flexvpn-bypass-tcam
platform hardware crypto-throughput level 8-16g
!
hostname spk1
!
boot-start-marker
boot system bootflash:asr1000-universalk9.spk1.dmvpn_soak.SSA.bin
boot-end-marker
!
!
vrf definition C1_1
rd 1:1
!
address-family ipv4
exit-address-family
!
vrf definition Mgmt-intf
!
address-family ipv4
exit-address-family
!
address-family ipv6
exit-address-family
!
no logging console
no aaa new-model
!
!
subscriber templating
!
!
!
!
!
!
!
!
!
!
!
login on-success log
!
!
```

```

!
!
!
!
!
!
!
!
!
!
crypto pki trustpoint TP-self-signed-1147572831
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-1147572831
  revocation-check none
  rsa-keypair TP-self-signed-1147572831
  hash sha256
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
  hash sha256
!
!
!
!
!
!
!
!
!
!
license udi pid ASR1001-HX sn JAE24530LQG
license boot level adventerprise
!
no memory lite
memory free low-watermark processor 675468
diagnostic bootup level minimal
!
spanning-tree extend system-id
!
!
!
redundancy
  mode none
!
crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share

```

```

    keyring local ikev2keyring
    !
    crypto ikev2 dpd 60 3 on-demand
    !
    !
    !
    class-map match-all group1_Routing
    match ip precedence 6
    class-map match-all group2_Routing
    match ip precedence 6
    class-map match-all group2_voice
    match access-group 100
    class-map match-all group1_voice
    match access-group 100
    !
    policy-map group2
    class group2_voice
    priority percent 20
    class group2_Routing
    bandwidth percent 10
    policy-map group2_parent
    class class-default
    shape average 2000000
    service-policy group2
    policy-map group1
    class group1_voice
    priority 1000
    class group1_Routing
    bandwidth percent 20
    policy-map group1_parent
    class class-default
    shape average 3000000
    service-policy group1
    !
    !
    !
    !
    !
    !
    !
    !
    !
    !
    crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
    mode transport
    !
    !
    crypto ipsec profile dmvpn-hub
    set transform-set tset1
    set pfs group19
    set ikev2-profile ikev2profile
    !
    !
    !
    !
    !
    !
    !
    interface Loopback1
    ip address <removed>
    interface Tunnel1
    vrf forwarding C1_1

```

```
ip address <removed> no ip redirects
ip hello-interval eigrp 101 30
ip hold-time eigrp 101 90
ip nhrp network-id 1000
ip nhrp nhs 192.0.1.1 nbma 100.0.10.2 multicast
ip tcp adjust-mss 1200
nhrp group spoke_group1
cts sgt inline
bfd interval 1000 min_rx 1000 multiplier 5
no bfd echo
tunnel source Loopback1
tunnel mode gre multipoint
tunnel path-mtu-discovery
tunnel protection ipsec profile dmvpn-hub
!
interface GigabitEthernet0/0/0
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/1
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/2
no ip address
negotiation auto
!
interface GigabitEthernet0/0/2.1
encapsulation dot1Q 100
vrf forwarding Cl_1
ip address <removed>!
interface GigabitEthernet0/0/3
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/4
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/5
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/6
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/7
no ip address
shutdown
negotiation auto
!
interface TenGigabitEthernet0/1/0
ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
no ip address
shutdown
```

```

    no negotiation auto
  !
  interface TenGigabitEthernet0/1/2
    no ip address
    shutdown
    no negotiation auto
  !
  interface TenGigabitEthernet0/1/3
    no ip address
    shutdown
    no negotiation auto
  !
  interface TenGigabitEthernet0/1/4
    no ip address
    shutdown
    no negotiation auto
  !
  interface TenGigabitEthernet0/1/5
    no ip address
    shutdown
    no negotiation auto
  !
  interface TenGigabitEthernet0/1/6
    no ip address
    shutdown
    no negotiation auto
  !
  interface TenGigabitEthernet0/1/7
    no ip address
    shutdown
    no negotiation auto
  !
  interface GigabitEthernet0
    vrf forwarding Mgmt-intf
    ip address <removed> negotiation auto
  !
  !
  router eigrp 101
  !
    address-family ipv4 vrf C1_1 autonomous-system 101
      network 10.2.2.0 0.0.0.255
      network 192.0.0.0 0.255.255.255
      passive-interface GigabitEthernet0/0/2.1
    exit-address-family
  !
  ip forward-protocol nd
  !
  ip tftp source-interface GigabitEthernet0
  ip tftp blocksize 8192
  ip http server
  ip http authentication local
  ip http secure-server
  ip ssh bulk-mode 131072
  ip route 0.0.0.0 0.0.0.0 50.50.50.1
  ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.45.0.1
  ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
  !
  !
  !
  !
  !
  control-plane
  !

```

```
!  
!  
!  
!  
!  
line con 0  
  exec-timeout 0 0  
  stopbits 1  
line aux 0  
line vty 0 4  
  login  
  transport input ssh  
!  
call-home  
  ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com  
  ! the email address configured in Cisco Smart License Portal will be used as contact email  
  ! address to send SCH notifications.  
  contact-email-addr sch-smart-licensing@cisco.com  
  profile "CiscoTAC-1"  
    active  
    destination transport-method http  
!  
!  
!  
!  
!  
!  
end
```



```

!
!
!
!
!
crypto pki trustpoint TP-self-signed-2134189379
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-2134189379
  revocation-check none
  rsakeypair TP-self-signed-2134189379
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
!
!
!
license udi pid C8500-12X4QC sn TTM231100CF
license boot level network-advantage addon dna-advantage
no memory lite
memory free low-watermark processor 984138
hw-module subslot 0/1 mode 10G
hw-module subslot 0/2 mode 40G
hw-module subslot 0/2 breakout none port all
!
!
spanning-tree extend system-id
diagnostic bootup level minimal
!
!
redundancy
  mode none
!
!
crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share
  keyring local ikev2keyring
!
crypto ikev2 dpd 60 3 on-demand
!
!
!
!
class-map match-all group1_Routing
  match ip precedence 6
class-map match-all group2_Routing

```

```

    match ip precedence 6
class-map match-all group2_voice
    match access-group 100
class-map match-all group1_voice
    match access-group 100
!
policy-map group2
    class group2_voice
        priority percent 20
    class group2_Routing
        bandwidth percent 10
policy-map group2_parent
    class class-default
        shape average 2000000
        service-policy group2
policy-map group1
    class group1_voice
        priority 1000
    class group1_Routing
        bandwidth percent 20
policy-map group1_parent
    class class-default
        shape average 3000000
        service-policy group1
!
!
!
!
!
!
!
!
!
crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
    mode transport
!
!
crypto ipsec profile dmvpn-hub
    set transform-set tset1
    set pfs group19
    set ikev2-profile ikev2profile
!
!
!
!
!
!
!
interface Tunnel1
    ip address <removed> no ip redirects
    ip mtu 1400
    ip hello-interval eigrp 101 30
    ip hold-time eigrp 101 90
    ip nhrp network-id 1000
    ip nhrp redirect
    ip tcp adjust-mss 1200
    ip summary-address eigrp 101 10.0.0.0 255.0.0.0
    nhrp map group spoke_group1 service-policy output group1_parent
    nhrp map group spoke_group2 service-policy output group2_parent
    cts sgt inline
    bfd interval 1000 min_rx 1000 multiplier 5
    no bfd echo

```

```
tunnel source TenGigabitEthernet0/1/0
tunnel mode gre multipoint
tunnel path-mtu-discovery
tunnel protection ipsec profile dmvpn-hub
!
interface TenGigabitEthernet0/0/0
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/1
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/2
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/3
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/4
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/5
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/6
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/0/7
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/0
ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/2
no ip address
shutdown
no negotiation auto
!
interface TenGigabitEthernet0/1/3
ip address <removed> no negotiation auto
!
interface FortyGigabitEthernet0/2/0
no ip address
shutdown
```

```

    no negotiation auto
    !
    interface FortyGigabitEthernet0/2/4
    no ip address
    shutdown
    no negotiation auto
    !
    interface FortyGigabitEthernet0/2/8
    no ip address
    shutdown
    no negotiation auto
    !
    interface GigabitEthernet0
    vrf forwarding Mgmt-intf
    ip address <removed> negotiation auto
    !
    !
    router eigrp 101
    network 150.100.0.0
    network 192.0.0.0 0.255.255.255
    !
    router nhrp 200
    network 100.0.0.0
    !
    ip http server
    ip http authentication local
    ip http secure-server
    ip forward-protocol nd
    !
    ip tftp source-interface GigabitEthernet0
    ip tftp blocksize 8192
    ip route 0.0.0.0 0.0.0.0 100.0.10.1
    ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
    !
    !
    !
    snmp-server user roni gl v3
    snmp-server group gl v3 noauth
    snmp-server group gl v3 auth read campus write campus
    snmp mib nhrp
    !
    !
    !
    control-plane
    !
    !
    !
    !
    !
    !
    line con 0
    exec-timeout 0 0
    stopbits 1
    line aux 0
    line vty 0 4
    login
    transport input ssh
    !
    call-home
    ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
    ! the email address configured in Cisco Smart License Portal will be used as contact email
    address to send SCH notifications.
    contact-email-addr sch-smart-licensing@cisco.com
    profile "CiscoTAC-1"

```

Configuration example for a spoke

Cisco SD-Routing DMVPN Yang Commands

```

!
!
!
!
!
!
!
!
!
crypto pki trustpoint TP-self-signed-1147572831
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-1147572831
  revocation-check none
  rsakeypair TP-self-signed-1147572831
  hash sha256
!
crypto pki trustpoint SLA-TrustPoint
  enrollment pkcs12
  revocation-check crl
  hash sha256
!
!
!
!
!
!
!
!
!
!
license udi pid ASR1001-HX sn JAE24530LQG
license boot level advenenterprise
!
no memory lite
memory free low-watermark processor 675468
diagnostic bootup level minimal
!
spanning-tree extend system-id
!
!
!
redundancy
  mode none
!
crypto ikev2 proposal ikev2proposal
  encryption aes-cbc-192
  integrity sha512
  group 16
!
crypto ikev2 policy ikev2policy
  proposal ikev2proposal
!
crypto ikev2 keyring ikev2keyring
  peer ikev2peer
    address 0.0.0.0 0.0.0.0
    pre-shared-key Cisco@123
!
!
!
crypto ikev2 profile ikev2profile
  match identity remote address 0.0.0.0
  authentication remote pre-share

```

```

    authentication local pre-share
    keyring local ikev2keyring
    !
    crypto ikev2 dpd 60 3 on-demand
    !
    !
    !
    !
    class-map match-all group1_Routing
    match ip precedence 6
    class-map match-all group2_Routing
    match ip precedence 6
    class-map match-all group2_voice
    match access-group 100
    class-map match-all group1_voice
    match access-group 100
    !
    policy-map group2
    class group2_voice
    priority percent 20
    class group2_Routing
    bandwidth percent 10
    policy-map group2_parent
    class class-default
    shape average 2000000
    service-policy group2
    policy-map group1
    class group1_voice
    priority 1000
    class group1_Routing
    bandwidth percent 20
    policy-map group1_parent
    class class-default
    shape average 3000000
    service-policy group1
    !
    !
    !
    !
    !
    !
    !
    !
    !
    !
    crypto ipsec transform-set tset1 esp-aes 256 esp-sha256-hmac
    mode transport
    !
    !
    crypto ipsec profile dmvpn-hub
    set transform-set tset1
    set pfs group19
    set ikev2-profile ikev2profile
    !
    !
    !
    !
    !
    !
    !
    interface Loopback1
    ip address <removed>!
    interface Tunnell

```

```

vrf forwarding C1_1
ip address <removed> no ip redirects
ip hello-interval eigrp 101 30
ip hold-time eigrp 101 90
ip nhrp network-id 1000
ip nhrp nhs 192.0.1.1 nbma 100.0.10.2 multicast
ip tcp adjust-mss 1200
nhrp group spoke_group1
cts sgt inline
bfd interval 1000 min_rx 1000 multiplier 5
no bfd echo
tunnel source Loopback1
tunnel mode gre multipoint
tunnel path-mtu-discovery
tunnel protection ipsec profile dmvpn-hub
!
interface GigabitEthernet0/0/0
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/1
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/2
no ip address
negotiation auto
!
interface GigabitEthernet0/0/2.1
encapsulation dot1Q 100
vrf forwarding C1_1
ip address <removed>!
interface GigabitEthernet0/0/3
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/4
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/5
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/6
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet0/0/7
no ip address
shutdown
negotiation auto
!
interface TenGigabitEthernet0/1/0
ip address <removed> no negotiation auto
!
interface TenGigabitEthernet0/1/1
no ip address

```

```

    shutdown
    no negotiation auto
    !
interface TenGigabitEthernet0/1/2
    no ip address
    shutdown
    no negotiation auto
    !
interface TenGigabitEthernet0/1/3
    no ip address
    shutdown
    no negotiation auto
    !
interface TenGigabitEthernet0/1/4
    no ip address
    shutdown
    no negotiation auto
    !
interface TenGigabitEthernet0/1/5
    no ip address
    shutdown
    no negotiation auto
    !
interface TenGigabitEthernet0/1/6
    no ip address
    shutdown
    no negotiation auto
    !
interface TenGigabitEthernet0/1/7
    no ip address
    shutdown
    no negotiation auto
    !
interface GigabitEthernet0
    vrf forwarding Mgmt-intf
    ip address <removed> negotiation auto
    !
    !
router eigrp 101
    !
    address-family ipv4 vrf C1_1 autonomous-system 101
        network 10.2.2.0 0.0.0.255
        network 192.0.0.0 0.255.255.255
        passive-interface GigabitEthernet0/0/2.1
    exit-address-family
    !
ip forward-protocol nd
    !
ip tftp source-interface GigabitEthernet0
ip tftp blocksize 8192
ip http server
ip http authentication local
ip http secure-server
ip ssh bulk-mode 131072
ip route 0.0.0.0 0.0.0.0 50.50.50.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.45.0.1
ip route vrf Mgmt-intf 202.153.144.90 255.255.255.255 9.41.0.1
    !
    !
    !
    !
    !
control-plane

```

```
!  
!  
!  
!  
!  
!  
line con 0  
  exec-timeout 0 0  
  stopbits 1  
line aux 0  
line vty 0 4  
  login  
  transport input ssh  
!  
call-home  
  ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com  
  ! the email address configured in Cisco Smart License Portal will be used as contact email  
  ! address to send SCH notifications.  
  contact-email-addr sch-smart-licensing@cisco.com  
  profile "CiscoTAC-1"  
    active  
    destination transport-method http  
!  
!  
!  
!  
!  
end
```