

PE and CE configurations

PE1:

```
*A:PE1# admin display-config
# TiMOS-B-11.0.R4 both/hops ALCATEL SR 7750 Copyright (c) 2000-2013 Alcatel-Lucent.
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# Built on Tue Jul 23 12:48:12 PDT 2013 by builder in /rel11.0/b1/R4/panos/main

# Generated SAT JAN 01 04:23:15 2000 UTC
```

```
exit all
configure
#-----
echo "System Configuration"
#-----
system
  name "PE1"
  snmp
    shutdown
  exit
  time
    snmp
      shutdown
    exit
    zone UTC
  exit
  thresholds
    rmon
    exit
  exit
exit
#-----
echo "System Security Configuration"
#-----
system
  security
    per-peer-queuing
  exit
```

```
exit
#-----
echo "Log Configuration"
#-----
log
exit
#-----
echo "System Security Cpm Hw Filters and PKI Configuration"
#-----
system
security
exit
exit
#-----
echo "QoS Policy Configuration"
#-----
qos
exit
#-----
echo "Card Configuration"
#-----
card 1
card-type iom-xp
mda 1
mda-type c5-1gb-xp-sfp
no shutdown
exit
no shutdown
exit
#-----
echo "Port Configuration"
#-----
port 1/1/1
ethernet
exit
no shutdown
exit
port 1/1/2
ethernet
mode access
exit
no shutdown
exit
port 1/1/3
ethernet
mode access
exit
no shutdown
exit
port 1/1/4
shutdown
ethernet
exit
exit
port 1/1/5
shutdown
ethernet
exit
```

```
exit
#-----
echo "System Sync-If-Timing Configuration"
#-----
system
  sync-if-timing
  begin
  commit
  exit
exit
#-----
echo "Management Router Configuration"
#-----
router management
exit

#-----
echo "Router (Network Side) Configuration"
#-----
router
  interface "system"
    address 50.50.50.1/32
    no shutdown
  exit
  interface "to-rr"
    address 10.10.10.1/30
    port 1/1/1
    no shutdown
  exit
  autonomous-system 100
  router-id 50.50.50.1
#-----
echo "OSPFv2 Configuration"
#-----
ospf
  area 0.0.0.0
    interface "system"
      no shutdown
    exit
    interface "to-rr"
      no shutdown
    exit
  exit
exit
#-----
echo "MPLS Configuration"
#-----
mpls
  shutdown
  interface "system"
    no shutdown
  exit
  interface "to-rr"
    no shutdown
  exit
exit
#-----
echo "RSVP Configuration"
```

```
#-----
 rsvp
  shutdown
  interface "system"
    no shutdown
  exit
  interface "to-rr"
    no shutdown
  exit
 exit
#-----
echo "MPLS LSP Configuration"
#-----
 mpls
 exit
#-----
echo "LDP Configuration"
#-----
 ldp
  interface-parameters
  interface "to-rr"
    exit
  exit
  targeted-session
  exit
  no shutdown
 exit
#-----
echo "Web Portal Protocol Configuration"
#-----
 exit
#-----
echo "Service Configuration"
#-----
 service
  customer 1 create
    description "Default customer"
  exit
  pw-template 1 create
  exit
  vpls 1 customer 1 create
    bgp
      route-distinguisher 100:1
      route-target export target:100:1 import target:100:1
      pw-template-binding 1
    exit
  exit
  bgp-vpls
    max-ve-id 10
    ve-name "PE1"
    ve-id 1
  exit
  no shutdown
 exit
  stp
  shutdown
 exit
```

```
site "MULTIHOME" create
  site-id 10
  sap 1/1/3
  no shutdown
exit
sap 1/1/2 create
exit
sap 1/1/3 create
exit
no shutdown
exit
exit
#-----
echo "Router (Service Side) Configuration"
#-----
router
#-----
echo "OSPFv2 Configuration"
#-----
  ospf
  exit
#-----
echo "BGP Configuration"
#-----
  bgp
  group "internal"
  family l2-vpn
  peer-as 100
  neighbor 50.50.50.50
  exit
  exit
  no shutdown
  exit
  exit
exit

exit all

# Finished SAT JAN 01 04:23:23 2000 UTC

PE2:

*A:PE2# admin display-config
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# Built on Tue Jul 23 12:48:12 PDT 2013 by builder in /rel11.0/b1/R4/panos/main

# Generated SAT JAN 01 04:23:53 2000 UTC

exit all
configure
#-----
echo "System Configuration"
#-----
  system
  name "PE2"
  snmp
```

```
        shutdown
    exit
time
    sntp
        shutdown
    exit
    zone UTC
exit
thresholds
    rmon
    exit
exit
exit
#-----
echo "System Security Configuration"
#-----
    system
        security
            per-peer-queuing
        exit
    exit
#-----
echo "Log Configuration"
#-----
    log
    exit
#-----
echo "System Security Cpm Hw Filters and PKI Configuration"
#-----
    system
        security
        exit
    exit
#-----
echo "QoS Policy Configuration"
#-----
    qos
    exit
#-----
echo "Card Configuration"
#-----
    card 1
        card-type iom-xp
        mda 1
            mda-type c5-1gb-xp-sfp
            no shutdown
        exit
        no shutdown
    exit
#-----
echo "Port Configuration"
#-----
    port 1/1/1
        ethernet
        exit
        no shutdown
    exit
    port 1/1/2
```

```
    ethernet
      mode access
    exit
  no shutdown
exit
port 1/1/3
  shutdown
  ethernet
  exit
exit
port 1/1/4
  shutdown
  ethernet
  exit
exit
port 1/1/5
  shutdown
  ethernet
  exit
exit
#-----
echo "System Sync-If-Timing Configuration"
#-----
system
  sync-if-timing
  begin
  commit
  exit
exit
#-----
echo "Management Router Configuration"
#-----
router management
exit

#-----
echo "Router (Network Side) Configuration"
#-----
router
  interface "system"
    address 50.50.50.2/32
    no shutdown
  exit
  interface "to-rr"
    address 10.10.10.5/30
    port 1/1/1
    no shutdown
  exit
  autonomous-system 100
  router-id 50.50.50.2
#-----
echo "OSPFv2 Configuration"
#-----
ospf
  area 0.0.0.0
    interface "system"
      no shutdown
    exit
```

```
        interface "to-rr"
            no shutdown
        exit
    exit
exit
#-----
echo "MPLS Configuration"
#-----
    mpls
        shutdown
        interface "system"
            no shutdown
        exit
        interface "to-rr"
            no shutdown
        exit
    exit
#-----
echo "RSVP Configuration"
#-----
    rsvp
        shutdown
        interface "system"
            no shutdown
        exit
        interface "to-rr"
            no shutdown
        exit
    exit
#-----
echo "MPLS LSP Configuration"
#-----
    mpls
    exit
#-----
echo "LDP Configuration"
#-----
    ldp
        interface-parameters
            interface "to-rr"
                exit
        exit
        targeted-session
        exit
        no shutdown
    exit
#-----
echo "Web Portal Protocol Configuration"
#-----
    exit
#-----
echo "Service Configuration"
#-----
    service
        customer 1 create
            description "Default customer"
        exit
```



```
pw-template 1 create
exit
vpls 1 customer 1 create
  bgp
    route-distinguisher 100:1
    route-target export target:100:1 import target:100:1
    pw-template-binding 1
  exit
exit
bgp-vpls
  max-ve-id 10
  ve-name "PE2"
  ve-id 2
  exit
  no shutdown
exit
stp
  shutdown
exit
site "MULTIHOME" create
  site-id 10
  sap 1/1/2
  no shutdown
exit
sap 1/1/2 create
exit
no shutdown
exit
#-----
echo "Router (Service Side) Configuration"
#-----
router
#-----
echo "OSPFv2 Configuration"
#-----
  ospf
  exit
#-----
echo "BGP Configuration"
#-----
  bgp
    group "internal"
    family l2-vpn
    peer-as 100
    neighbor 50.50.50.50
  exit
  exit
  no shutdown
exit
exit
exit all

# Finished SAT JAN 01 04:23:57 2000 UTC
```

RR:

```
A:RR# admin display-config
# TiMOS-B-11.0.R4 both/hops ALCATEL SR 7750 Copyright (c) 2000-2013 Alcatel-Luce
nt.
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# Built on Tue Jul 23 12:48:12 PDT 2013 by builder in /rel11.0/b1/R4/panos/main

# Generated SAT JAN 01 04:24:41 2000 UTC

exit all
configure
#-----
echo "System Configuration"
#-----
  system
    name "RR"
    snmp
      shutdown
    exit
    time
      sntp
      shutdown
    exit
    zone UTC
  exit
  thresholds
    rmon
    exit
  exit
exit
#-----
echo "System Security Configuration"
#-----
  system
    security
      per-peer-queuing
    exit
  exit
#-----
echo "Log Configuration"
#-----
  log
  exit
#-----
echo "System Security Cpm Hw Filters and PKI Configuration"
#-----
  system
    security
    exit
  exit
#-----
echo "QoS Policy Configuration"
#-----
  qos
  exit
#-----
echo "Card Configuration"
```

```
#-----
card 1
  card-type iom-xp
  mda 1
    mda-type c5-1gb-xp-sfp
    no shutdown
  exit
  no shutdown
exit
#-----
echo "Port Configuration"
#-----
port 1/1/1
  ethernet
  exit
  no shutdown
exit
port 1/1/2
  ethernet
  exit
  no shutdown
exit
port 1/1/3
  ethernet
  exit
  no shutdown
exit
port 1/1/4
  shutdown
  ethernet
  exit
exit
port 1/1/5
  shutdown
  ethernet
  exit
exit
#-----
echo "System Sync-If-Timing Configuration"
#-----
system
  sync-if-timing
  begin
  commit
  exit
exit
#-----
echo "Management Router Configuration"
#-----
router management
exit

#-----
echo "Router (Network Side) Configuration"
#-----
router
  interface "system"
  address 50.50.50.50/32
```

```
        no shutdown
    exit
interface "to-pe1"
    address 10.10.10.2/30
    port 1/1/1
    no shutdown
exit
interface "to-pe2"
    address 10.10.10.6/30
    port 1/1/2
    no shutdown
exit
interface "to-pe3"
    address 10.10.10.9/30
    port 1/1/3
    no shutdown
exit
autonomous-system 100
router-id 50.50.50.50
#-----
echo "OSPFv2 Configuration"
#-----
    ospf
        area 0.0.0.0
            interface "system"
                no shutdown
            exit
            interface "to-pe1"
                no shutdown
            exit
            interface "to-pe2"
                no shutdown
            exit
            interface "to-pe3"
                no shutdown
            exit
        exit
    exit
#-----
echo "LDP Configuration"
#-----
    ldp
        interface-parameters
            interface "to-pe1"
                exit
            interface "to-pe2"
                exit
            interface "to-pe3"
                exit
        exit
        targeted-session
            exit
        no shutdown
    exit
#-----
echo "Web Portal Protocol Configuration"
#-----
    exit
```

```

#-----
echo "Service Configuration"
#-----
  service
    customer 1 create
      description "Default customer"
    exit
  exit
#-----
echo "Router (Service Side) Configuration"
#-----
  router
#-----
echo "OSPFv2 Configuration"
#-----
  ospf
  exit
#-----
echo "BGP Configuration"
#-----
  bgp
    cluster 10.10.10.10
    group "internal-rr"
      family l2-vpn
      peer-as 100
      neighbor 50.50.50.1
      exit
      neighbor 50.50.50.2
      exit
      neighbor 50.50.50.3
      exit
    exit
  no shutdown
  exit
exit

exit all

# Finished SAT JAN 01 04:24:46 2000 UTC

```

PE3:

```

*A:PE3# admin display-config
# TiMOS-B-11.0.R4 both/hops ALCATEL SR 7750 Copyright (c) 2000-2013 Alcatel-Lucent.
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# Built on Tue Jul 23 12:48:12 PDT 2013 by builder in /rel11.0/b1/R4/panos/main

# Generated SAT JAN 01 04:25:31 2000 UTC

```

```

exit all
configure
#-----
echo "System Configuration"
#-----

```

```
system
  name "PE3"
  snmp
    shutdown
  exit
  time
    sntp
    shutdown
  exit
  zone UTC
  exit
  thresholds
    rmon
  exit
  exit
  exit
#-----
echo "System Security Configuration"
#-----
system
  security
    per-peer-queuing
  exit
  exit
#-----
echo "Log Configuration"
#-----
log
  exit
#-----
echo "System Security Cpm Hw Filters and PKI Configuration"
#-----
system
  security
    exit
  exit
#-----
echo "QoS Policy Configuration"
#-----
qos
  exit
#-----
echo "Card Configuration"
#-----
card 1
  card-type iom-xp
  mda 1
    mda-type c5-1gb-xp-sfp
    no shutdown
  exit
  no shutdown
  exit
#-----
echo "Port Configuration"
#-----
port 1/1/1
  ethernet
  exit
```

```
    no shutdown
exit
port 1/1/2
    ethernet
        mode access
    exit
    no shutdown
exit
port 1/1/3
    ethernet
    exit
    no shutdown
exit
port 1/1/4
    shutdown
    ethernet
    exit
exit
port 1/1/5
    shutdown
    ethernet
    exit
exit
#-----
echo "System Sync-If-Timing Configuration"
#-----
system
    sync-if-timing
        begin
        commit
    exit
exit
#-----
echo "Management Router Configuration"
#-----
router management
exit

#-----
echo "Router (Network Side) Configuration"
#-----
router
    interface "system"
        address 50.50.50.3/32
        no shutdown
    exit
    interface "to-pe4"
        address 10.10.10.13/30
        port 1/1/3
        no shutdown
    exit
    interface "to-rr"
        address 10.10.10.10/30
        port 1/1/1
        no shutdown
    exit
    autonomous-system 100
    router-id 50.50.50.3
```

```
#-----  
echo "OSPFv2 Configuration"  
#-----  
    ospf  
    area 0.0.0.0  
    interface "system"  
        no shutdown  
    exit  
    interface "to-pe4"  
        no shutdown  
    exit  
    interface "to-rr"  
        no shutdown  
    exit  
    exit  
    exit  
#-----  
echo "MPLS Configuration"  
#-----  
    mpls  
    shutdown  
    interface "system"  
        no shutdown  
    exit  
    interface "to-rr"  
        no shutdown  
    exit  
    exit  
#-----  
echo "RSVP Configuration"  
#-----  
    rsvp  
    shutdown  
    interface "system"  
        no shutdown  
    exit  
    interface "to-rr"  
        no shutdown  
    exit  
    exit  
#-----  
echo "MPLS LSP Configuration"  
#-----  
    mpls  
    exit  
#-----  
echo "LDP Configuration"  
#-----  
    ldp  
    interface-parameters  
    interface "to-pe4"  
        exit  
    interface "to-rr"  
        exit  
    exit  
    targeted-session  
    exit  
    no shutdown
```



```
    exit
#-----
echo "Web Portal Protocol Configuration"
#-----
    exit

#-----
echo "Service Configuration"
#-----
service
  sdp 34 mpls create
    description "to-pe4"
    far-end 50.50.50.4
    ldp
    keep-alive
    no shutdown
  exit
  no shutdown
exit
customer 1 create
  description "Default customer"
exit
pw-template 1 create
exit
vpls 1 customer 1 create
  bgp
    route-distinguisher 100:1
    route-target export target:100:1 import target:100:1
    pw-template-binding 1
  exit
exit
  bgp-vpls
    max-ve-id 10
    ve-name "PE3"
    ve-id 3
  exit
  no shutdown
exit
  stp
    no shutdown
  exit
  sap 1/1/2 create
  exit
  mesh-sdp 34:1 create
    no shutdown
  exit
  no shutdown
exit
exit
#-----
echo "Router (Service Side) Configuration"
#-----
  router
#-----
echo "OSPFv2 Configuration"
#-----
  ospf
  exit
```

```
#-----  
echo "BGP Configuration"  
#-----  
    bgp  
        group "internal"  
            family l2-vpn  
            peer-as 100  
            neighbor 50.50.50.50  
        exit  
    exit  
    no shutdown  
exit  
exit  
  
exit all  
  
# Finished SAT JAN 01 04:25:37 2000 UTC
```

PE4:

```
A:PE4# admin display-config  
# TiMOS-B-9.0.R23 both/hops ALCATEL SR 7710 Copyright (c) 2000-2013 Alcatel-Luce  
nt.  
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# Built on Tue Aug 20 11:13:29 PDT 2013 by builder in /rel9.0/b1/R23/panos/main
```

```
# Generated WED SEP 24 01:27:18 2014 UTC
```

```
exit all  
configure  
#-----  
echo "System Configuration"  
#-----  
    system  
        name "PE4"  
        ccm 1  
        exit  
        snmp  
            shutdown  
        exit  
        time  
            sntp  
                shutdown  
            exit  
        zone UTC  
    exit  
    thresholds  
        rmon  
    exit  
exit  
exit  
#-----  
echo "System Security Configuration"  
#-----  
    system  
        security  
            per-peer-queuing
```

```
    exit
  exit
#-----
echo "Log Configuration"
#-----
  log
  exit
#-----
echo "System Security Cpm Hw Filters and PKI Configuration"
#-----
  system
  security
  exit
  exit
#-----
echo "QoS Policy Configuration"
#-----
  qos
  exit
#-----
echo "Card Configuration"
#-----
  card 1
  card-type iom-9g
  mda 2
  mda-type c8-10/100eth-tx
  no shutdown
  exit
  no shutdown
  exit
#-----
echo "Port Configuration"
#-----
  port 1/2/1
  ethernet
  mtu 9212
  exit
  no shutdown
  exit
  port 1/2/2
  ethernet
  mode access
  exit
  no shutdown
  exit
  port 1/2/3
  shutdown
  ethernet
  exit
  exit
  port 1/2/4
  shutdown
  ethernet
  exit
  exit
  port 1/2/5
  shutdown
  ethernet
```

```
    exit
  exit
  port 1/2/6
    shutdown
    ethernet
  exit
  exit
  port 1/2/7
    shutdown
    ethernet
  exit
  exit
  port 1/2/8
    shutdown
    ethernet
  exit
  exit
#-----
echo "System Sync-If-Timing Configuration"
#-----
  system
    sync-if-timing
    begin
    commit
  exit
  exit
#-----
echo "Management Router Configuration"
#-----
  router management
  exit

#-----
echo "Router (Network Side) Configuration"
#-----
  router
    interface "system"
      address 50.50.50.4/32
      no shutdown
    exit
    interface "to-pe4"
      address 10.10.10.14/30
      port 1/2/1
      no shutdown
    exit
    autonomous-system 100
    router-id 50.50.50.4
#-----
echo "OSPFv2 Configuration"
#-----
  ospf
    area 0.0.0.0
      interface "system"
        no shutdown
      exit
      interface "to-pe4"
        no shutdown
      exit
    exit
```

```
        exit
    exit
#-----
echo "LDP Configuration"
#-----
    ldp
        interface-parameters
            interface "to-pe4"
                exit
            exit
        targeted-session
            exit
        no shutdown
    exit
exit

#-----
echo "Service Configuration"
#-----
    service
        customer 1 create
            description "Default customer"
        exit
        sdp 43 mpls create
            description "to-pe3"
            far-end 50.50.50.3
            ldp
                keep-alive
                no shutdown
            exit
            no shutdown
        exit
        vpls 1 customer 1 create
            stp
                no shutdown
            exit
            sap 1/2/2 create
            exit
            mesh-sdp 43:1 create
                no shutdown
            exit
            no shutdown
        exit
    exit

#-----
echo "Router (Service Side) Configuration"
#-----
    router
#-----
echo "OSPFv2 Configuration"
#-----
    ospf
        exit
    exit

exit all
```

Finished WED SEP 24 01:27:25 2014 UT

CE2:

```
interface Port-channel1
  mac-address 24af.4ab0.f8d5
  ip address 192.168.0.2 255.255.255.0
  hold-queue 150 in
!
interface Embedded-Service-Engine0/0
  no ip address
  shutdown
!
interface GigabitEthernet0/0
  no ip address
  duplex auto
  speed auto
  channel-group 1
!
interface GigabitEthernet0/1
  no ip address
  duplex auto
  speed auto
  channel-group 1
```