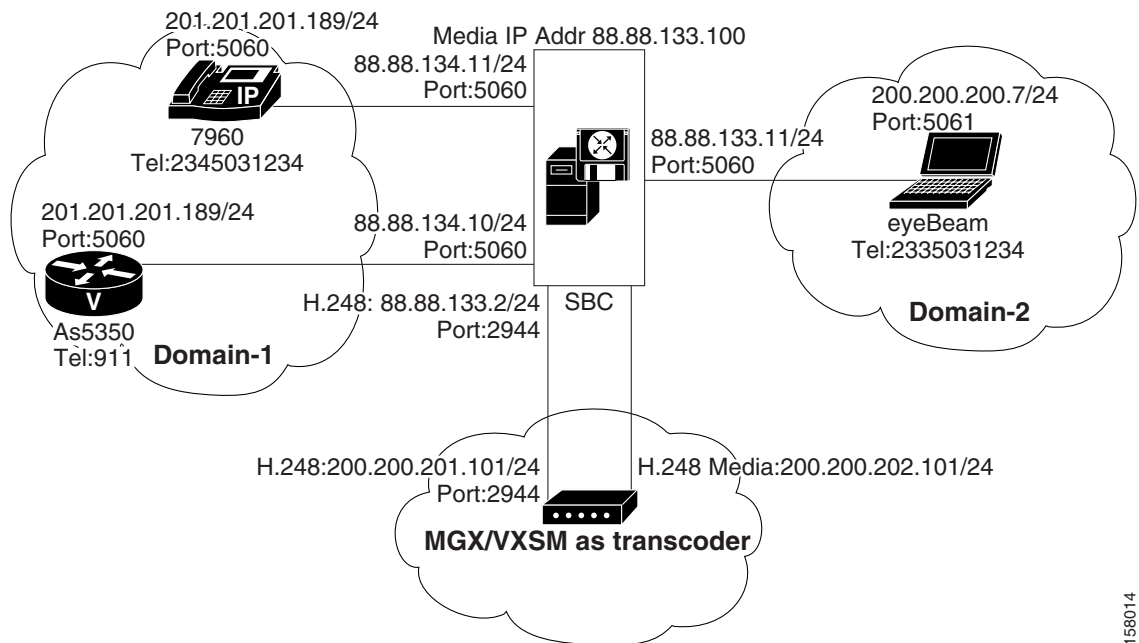




End-to-End SBC Configuration Example on a Cisco XR 12000 Series Router

This section contains a complete Cisco XR 12000 Series Router SBC configuration for the topology shown in [Figure 17](#).

Figure 17 SBC on Cisco XR 12000 Series Router Topology



```
hostname sbc-node9
line template 1
  exec-timeout 0 0
  transport input all
  transport output all
!
line console
  exec-timeout 0 0
!
exception choice 1 compress on filepath disk0:/
exception choice 2 compress on filepath disk0:/tmp
logging on
```

158014

```

logging console debugging
service timestamps log datetime msec
service timestamps debug datetime msec
placement program isis
  affinity location-set 0/0/CPU0 default
!
placement program ospf
  affinity location-set 0/0/CPU0 default
!
placement program default
  affinity location-set 0/0/CPU0 default
!
telnet vrf default ipv4 server max-servers 10
username cisco123
  password 7 094F471A1A0A4640584C
  group root-system
!
aaa authentication login default local
cdp
vty-pool default 0 4 line-template 1
router-id Loopback0
ntp
  server 1.1.1.1 source Loopback0
!
interface Loopback0
  ipv4 address 1.1.1.12 255.255.255.255
!
interface MgmtEth0/0/CPU0/0
  ipv4 address 172.20.210.176 255.255.255.128
!
interface MgmtEth0/0/CPU0/1
  shutdown
!
interface MgmtEth0/0/CPU0/2
  shutdown
!
interface MgmtEth0/3/CPU0/0
  shutdown
!
interface MgmtEth0/3/CPU0/1
  shutdown
!
interface MgmtEth0/3/CPU0/2
  shutdown
!
interface GigabitEthernet0/5/0/0
  description connection to core node1
  cdp
  ipv4 address 192.168.133.2 255.255.255.0
  negotiation auto
  load-interval 30
!
interface GigabitEthernet0/5/0/1
  description connect to 7206-9
  cdp
  ipv4 address 192.168.233.1 255.255.255.0
  negotiation auto
  load-interval 30
!
interface GigabitEthernet0/5/0/2
  shutdown
!
interface GigabitEthernet0/5/0/3
  shutdown

```

```

!
interface SBC1
  description ==== DOMAIN-2 Network ====
  ipv4 address 88.88.133.1 255.255.255.0
  service-location preferred-active 0/3/CPU0
!
interface SBC2
  description ==== DOMAIN-1 Network ====
  ipv4 address 88.88.134.1 255.255.255.0
  service-location preferred-active 0/3/CPU0
!
router static
  address-family ipv4 unicast
    171.0.0.0/8 172.20.210.129
    172.0.0.0/8 172.20.210.129
  !
!
router isis core
  is-type level-2-only
  net 50.0001.0000.0000.0012.00
  nsf cisco
  address-family ipv4 unicast
    redistribute ospf vlan109 level-2 metric 20
  !
  interface SBC1
    passive
    address-family ipv4 unicast
  !
  !
  interface SBC2
    passive
    address-family ipv4 unicast
  !
  !
  interface Loopback0
    passive
    address-family ipv4 unicast
  !
  !
  interface GigabitEthernet0/5/0/0
    address-family ipv4 unicast
  !
  !
!
router ospf vlan109
  log adjacency changes detail
  nsf cisco
  redistribute isis core metric 10
  area 0
    interface GigabitEthernet0/5/0/1
    !
    interface SBC1
      passive
    !
    interface SBC2
      passive
    !
  !
!
sbc ABC
  service-location preferred-active 0/3/CPU0
sbe
  media-gateway ipv4 200.200.201.101
  codecs m=audio 1234 RTP/AVP 0 18,a=rtpmap:0 PCMU/8000,a=rtpmap:18 G729/8000

```

```

transcoder
!
control address h248 index 1
  ipv4 88.88.133.2
  port 2944
  transport udp
!
activate
adjacency sip 7960-8
  signaling-address ipv4 88.88.134.11
  signaling-port 5060
  remote-address ipv4 201.201.201.189/32
  signaling-peer 201.201.201.189
  signaling-peer-port 5060
  account DOMAIN-1
  attach
!
adjacency sip eyeBEAM-1
  signaling-address ipv4 88.88.133.11
  signaling-port 5060
  remote-address ipv4 200.200.200.7/32
  signaling-peer 200.200.200.7
  signaling-peer-port 5061
  account DOMAIN-2
  attach
!
adjacency sip SIP-AS5350-9
  signaling-address ipv4 88.88.134.10
  signaling-port 5060
  remote-address ipv4 201.201.201.190/32
  signaling-peer 201.201.201.190
  signaling-peer-port 5060
  account DOMAIN-1
  attach
!
cac-policy-set 1
  first-cac-scope global
  first-cac-table WHITE-LIST-BY-CATEGORY
  cac-table STANDARD-POLICY-LIST
  match-type policy-set
  entry 1
    match-value global
    action cac-complete
    max-num-calls 2
  !
!
cac-table WHITE-LIST-BY-CATEGORY
  match-type category
  entry 1
    match-value EMERGENCY
    action cac-complete
  !
  entry 2
    match-value NON-EMERGENCY
    action next-table STANDARD-POLICY-LIST
  !
!
complete
!
active-cac-policy-set 1
call-policy-set 1
  first-call-routing-table ROUTE-DEST-NUM
  first-number-analysis-table NA-CATEGORIZE-DNIS
  rtg-dst-address-table ROUTE-DEST-NUM

```

```
entry 1
  action complete
  dst-adjacency SIP-AS5350-9
  match-address 234501
  prefix
  !
entry 2
  action complete
  dst-adjacency 7960-8
  match-address 2345031234
  !
entry 3
  action complete
  dst-adjacency eyeBEAM-1
  match-address 2335031234
  !
entry 4
  action complete
  dst-adjacency SIP-AS5350-9
  match-address 911
  !
!
na-dst-prefix-table NA-CATEGORIZE-DNIS
  entry 1
    action accept
    match-prefix 911
    category EMERGENCY
  !
  entry 2
    action accept
    match-prefix 233
    category NON-EMERGENCY
  !
!
  complete
!
active-call-policy-set 1
!
dbe
  media-address ipv4 88.88.133.100
  activate
!
!
end
```

