

Mediant™ 800 Universal CPE

Network Configuration

Version 7.2

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Abbreviations and Terminology

Each abbreviation, unless widely used, is spelled out in full when first used.

Document Revision Record

LTRT	Description
23610	Initial document release.
23611	Mediant 800C-i MSBR added

Documentation Feedback

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1 Introduction

AudioCodes Mediant 800 Universal Customer Premises Equipment (uCPE) is an ideal platform for UCaaS providers looking to reap the benefits of Network Function Virtualization. The platform integrates an Intel server module that can host SD-WAN or other third-party applications. These devices include branch routers, VoIP SBC and media gateways for SIP interoperability, connectivity, security and resiliency, allowing the customer to have real all-in-one device for SD-WAN or other NFV application.

This document includes the following example scenarios:

■ **Mediant 800C:**

- Mediant 800C uCPE with SBC Application (Only OSN Used)
- Mediant 800C uCPE with SBC Application (Switch and WAN Module Used)

■ **Mediant 800C-i:**

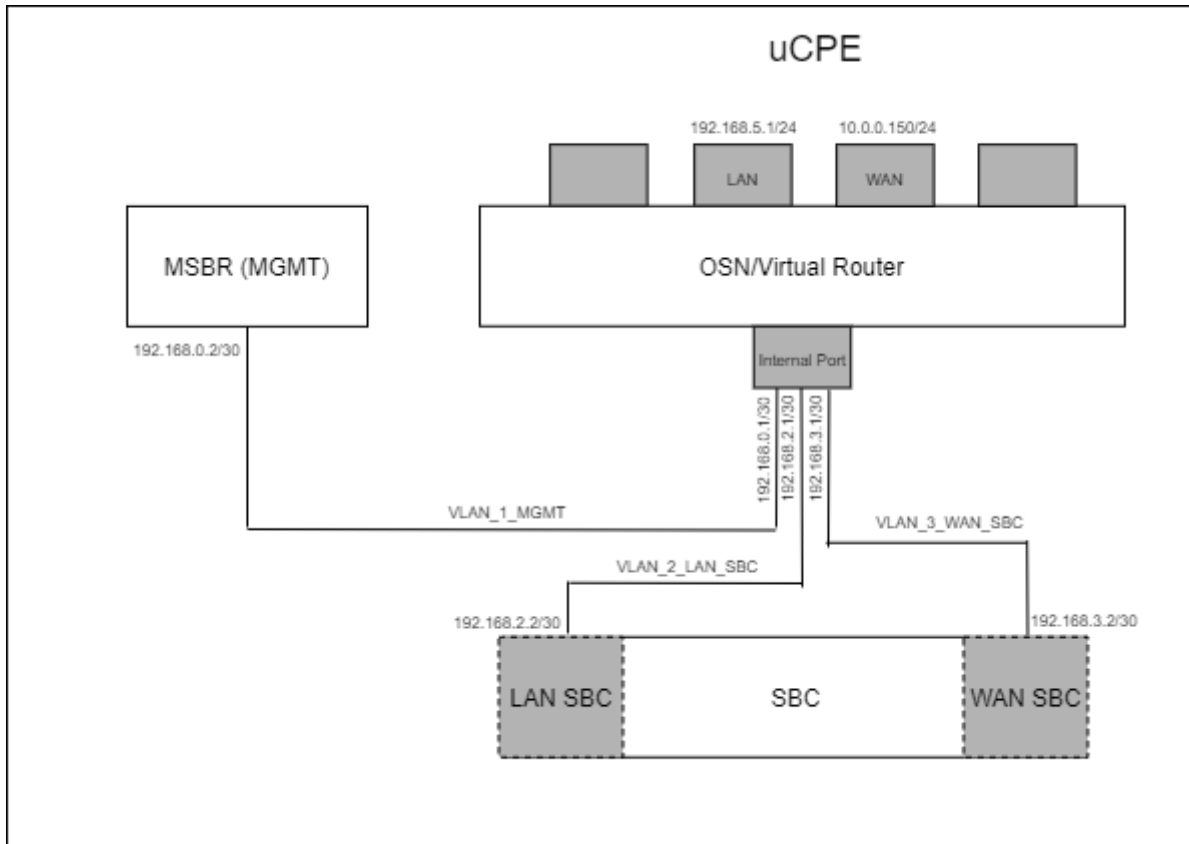
- Mediant 800C-i uCPE with SBC Application (Only OSN Used)
- Mediant 800C-i uCPE with SBC Application (Switch and WAN Module Used)

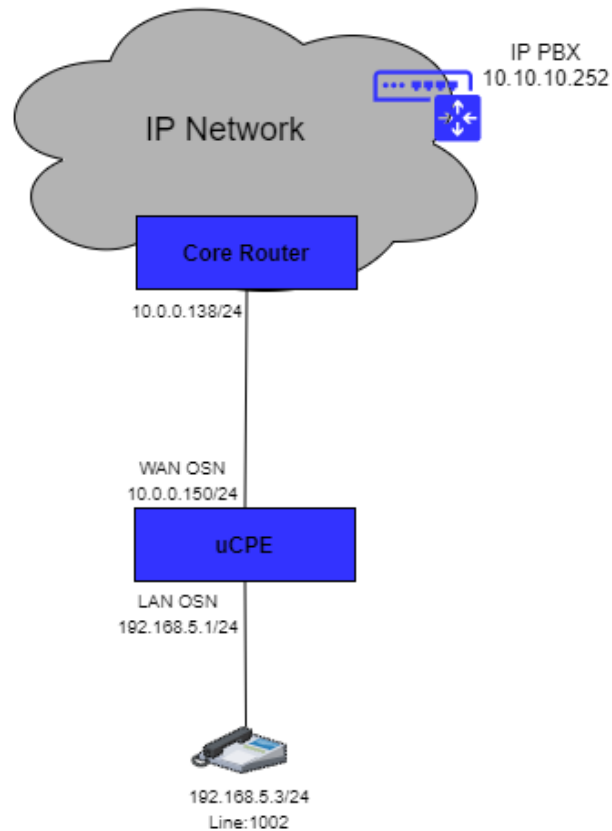
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2 Mediant 800C uCPE with SBC Application (Only OSN Used)

This example scenario shows a virtual router (installed on the OSN) connected to the SBC application.

The virtual router uses the LAN and WAN interface of the OSN . The internal interface connects between the virtual router and SBC through the internal switch.





2.1 Switch System Configuration (Entire Configuration)

2.1.1 Adding VLANs to OSN Interface

```
interface osn
  switchport mode trunk
  switchport trunk native vlan 1
  switchport trunk allowed vlan add 1
  switchport trunk allowed vlan add 2
  switchport trunk allowed vlan add 3
  no shutdown
exit
```

2.1.2 Configuring IP Network Interface for Management

```
interface VLAN 1
  ip address 192.168.0.2 255.255.255.252
  no shutdown
exit
ip route 10.0.0.0 255.255.255.0 192.168.0.1 VLAN 1 1
```

2.2 SBC Voice Configuration (Entire Configuration)

This section describes the voice configuration.

2.2.1 Configuring Underlying Ethernet Device for LAN SBC

```
configure network
network-dev 1
vlan-id 2
name "VLAN2"
activate
exit
```

2.2.2 Configuring IP Network Interface for LAN SBC

```
configure network
interface network-if 0
application-type oamp-media-control
ip-address 192.168.2.2
prefix-length 30
gateway 192.168.2.1
name "LAN_SBC"
underlying-dev "VLAN2"
activate
exit
```

2.2.3 Configuring Underlying Ethernet Device for WAN SBC

```
configure network
network-dev 2
vlan-id 3
name "VLAN3"
activate
exit
```

2.2.4 Configuring IP Network Interface for WAN SBC

```
configure network
interface network-if 1
application-type media-control
ip-address 192.168.3.2
prefix-length 30
gateway 192.168.3.1
name "WAN_SBC"
underlying-dev "VLAN3"
activate
exit
```

2.2.5 Setting Voice Coders

```

configure voip
  coders-and-profiles audio-coders-groups 0
  coders-group-name "AudioCodersGroups_0"
  activate
  audio-coders 0
  name g711-alaw
  p-time 20
  rate 64
  activate
  exit
exit
  
```

2.2.6 Creating LAN Media Realm and Assigning to Interface LAN_SBC

```

realm 1
  name "MR_LAN"
  ipv4if "LAN_SBC"
  udp-port-range-start 6000
  session-leg 10
  activate
  exit
  
```

2.2.7 Creating WAN Media Realm and Assigning to Interface WAN_SBC

```

realm 2
  name "MR_WAN"
  ipv4if "WAN_SBC"
  udp-port-range-start 6000
  session-leg 10
  activate
  exit
  
```

2.2.8 Creating LAN SIP Interface

```

sip-interface 1
  interface-name "SIP_LAN"
  network-interface "LAN_SBC"
  application-type sbc
  tcp-port 0
  tls-port 0
  media-realm-name "MR_LAN"
  activate
  exit
  
```

2.2.9 Creating WAN SIP Interface

```
sip-interface 2
  interface-name "SIP_WAN"
  network-interface "WAN_VOICE"
  application-type sbc
  tcp-port 0
  tls-port 0
  media-realm-name "MR_WAN"
  activate
exit
```

2.2.10 Setting Proxy Server (IP or Hostname)

```
proxy-set 1
  proxy-name "PBX"
  proxy-enable-keep-alive using-options
  sbcipv4-sip-int-name "SIP_WAN"
  activate
  proxy-ip 1
  proxy-address "10.10.10.252"
  activate
exit
exit
```

2.2.11 Creating IP Group for LAN Side

```
ip-group 1
  type user
  name "IPP_GROUP"
  media-realm-name "MR_LAN"
  classify-by-proxy-set disable
  activate
exit
```

2.2.12 Creating IP Group for WAN Side

```
ip-group 2
  name "PBX_GROUP"
  proxy-set-name "PBX"
  media-realm-name "MR_WAN"
  activate
exit
```

2.2.13 Creating SBC IP-to-IP Routing Rules

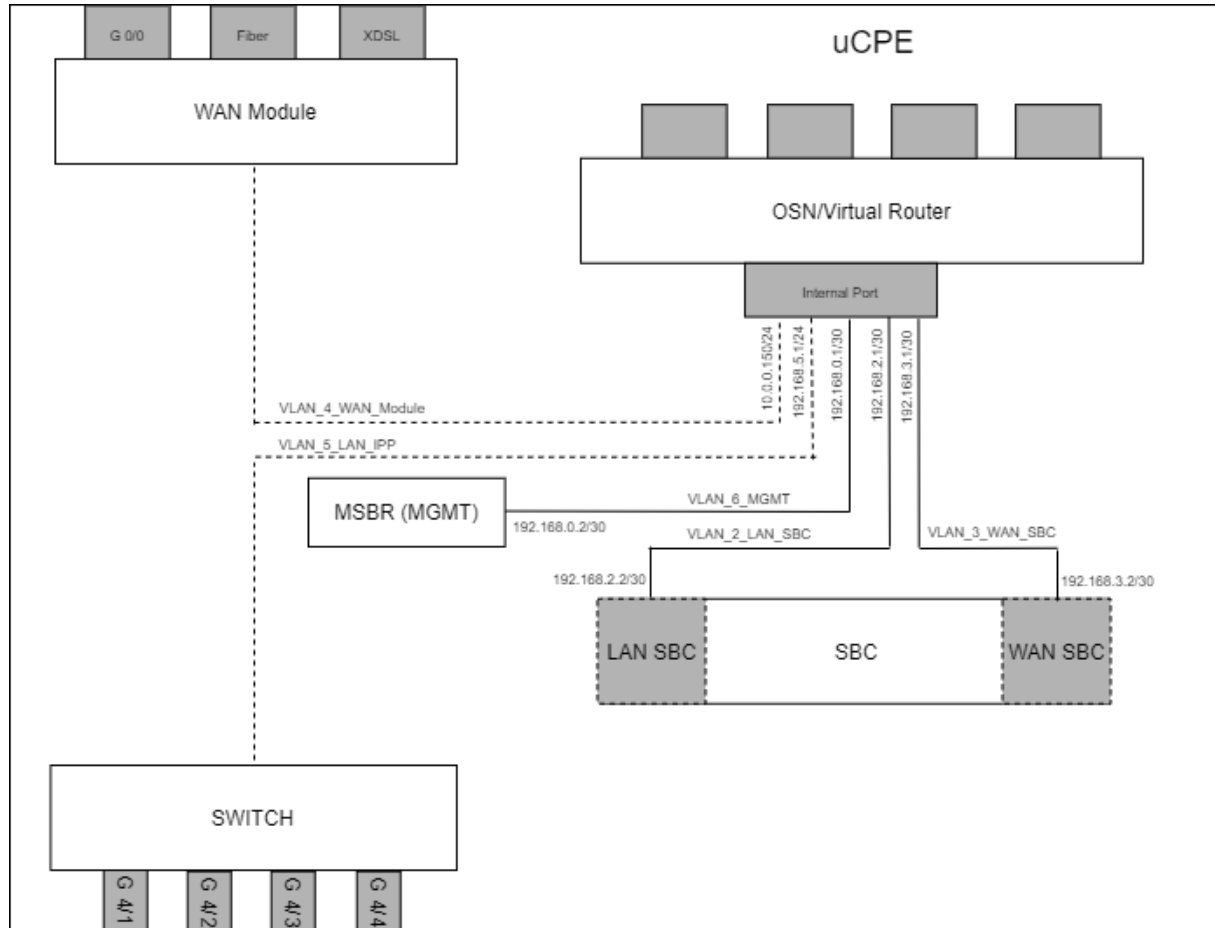
```
sbc routing ip2ip-routing 0
  route-name "Options Termination"
  request-type options
  dst-type dst-address
  dst-address "internal"
  activate
exit
sbc routing ip2ip-routing 1
  route-name "IPP TO PBX"
  src-ip-group-name "IPP_GROUP"
  dst-ip-group-name "PBX_GROUP"
  activate
exit
sbc routing ip2ip-routing 2
  route-name "PBX TO IPP"
  src-ip-group-name "PBX_GROUP"
  dst-ip-group-name "IPP_GROUP"
  activate
exit
sbc classification 0
  classification-name "IP_PHONE"
  src-sip-interface-name "SIP_LAN"
  src-ip-group-name "IPP_GROUP"
  activate
exit
exit
```

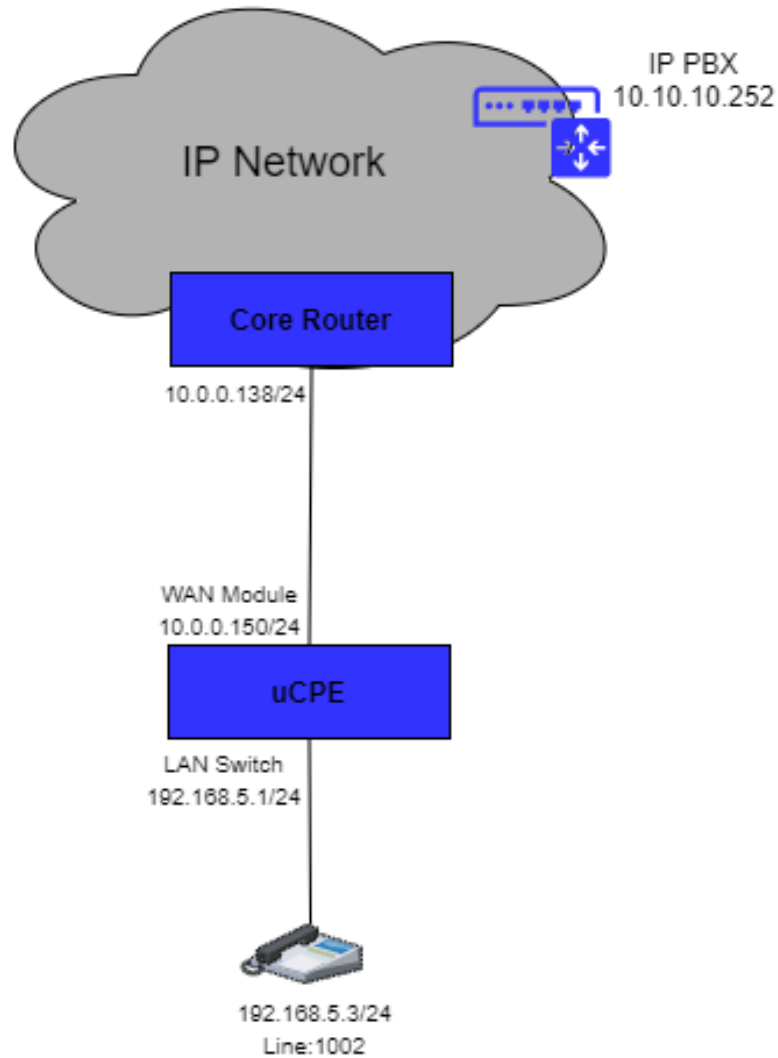
3 Mediant 800C uCPE with SBC Application (Switch and WAN Module Used)

This example scenario shows a virtual router (installed on the OSN) connected to the SBC application.

The virtual router uses the LAN switch and WAN module interface as its components.

The internal interface connects between the virtual router, LAN switch, WAN module and SBC through the internal switch.





3.1 Switch System Configuration (Entire Configuration)

3.1.1 Enabling OSN as Router Mode

```
configure system
  osn router mode enable
exit
```

OSN as Router Mode is Enabled!!
 This is is offline parameter, Please burn and reset the unit!!

3.1.2 Adding VLANs to OSN Interface

```
configure data
interface osn
    switchport mode trunk
    switchport trunk native vlan 1
    switchport trunk allowed vlan add 1 wan
    switchport trunk allowed vlan add 2
    switchport trunk allowed vlan add 3
    switchport trunk allowed vlan add 4 wan
    switchport trunk allowed vlan add 5
    no shutdown
exit
```

3.1.3 Configuring IP Network Interface for Management

```
interface VLAN 1
    ip address 192.168.0.2 255.255.255.252
    no shutdown
exit
ip route 10.0.0.0 255.255.255.255 192.168.0.1 VLAN 1 1
```

3.1.4 Setting Physical LAN Ethernet 4/1 Assign to VLAN 5

```
interface GigabitEthernet 4/1
    speed auto
    duplex auto
    switchport mode trunk
    switchport trunk native vlan 5
    no shutdown
exit
```

3.1.5 Creating Interface BVI for Setting Physical LAN Ethernet 4/1 Assigning to VLAN 5

```
interface BVI 4
    no ip address
    no shutdown
exit
```

3.1.6 Setting Logical Interface VLAN 4 and Assigning to BVI 4

```
interface VLAN 4
  no ip address
  bridge-group 4
  desc "VLAN4_External_WAN"
  no shutdown
  exit
```

3.1.7 Setting Physical Interface Giga 0/0 and Assigning to BVI 4

```
interface GigabitEthernet 0/0
  no ip address
  bridge-group 4
  desc "WAN Ethernet"
  no shutdown
  exit
```

3.2 SBC Voice Configuration (Entire Configuration)

This section describes the voice configuration.

3.2.1 Configuring Underlying Ethernet Device for LAN SBC

```
configure network
network-dev 1
vlan-id 2
name "VLAN2"
activate
exit
```

3.2.2 Configuring IP Network Interface for LAN SBC

```
configure network
interface network-if 0
application-type media-control
ip-address 192.168.2.2
prefix-length 30
gateway 192.168.2.1
name "LAN_SBC"
underlying-dev "VLAN2"
activate
exit
```

3.2.3 Configuring Underlying Ethernet Device for WAN SBC

```
configure network
network-dev 2
vlan-id 3
name "VLAN3"
activate
exit
```

3.2.4 Configuring IP Network Interface for WAN SBC

```
configure network
interface network-if 1
application-type media-control
ip-address 192.168.3.2
prefix-length 30
gateway 192.168.3.1
name "WAN_SBC"
underlying-dev "VLAN3"
activate
exit
```

3.2.5 Setting Voice Coders

```

configure voip
  coders-and-profiles audio-coders-groups 0
  coders-group-name "AudioCodersGroups_0"
  activate
  audio-coders 0
  name g711-alaw
  p-time 20
  rate 64
  activate
  exit
exit
  
```

3.2.6 Creating LAN Media Realm and Assigning to Interface LAN_SBC

```

realm 1
  name "MR_LAN"
  ipv4if "LAN_SBC"
  udp-port-range-start 6000
  session-leg 10
  activate
  exit
  
```

3.2.7 Creating WAN Media Realm and Assigning to Interface WAN_SBC

```

realm 2
  name "MR_WAN"
  ipv4if "WAN_SBC"
  udp-port-range-start 6000
  session-leg 10
  activate
  exit
  
```

3.2.8 Creating LAN SIP Interface

```

sip-interface 1
  interface-name "SIP_LAN"
  network-interface "LAN_SBC"
  application-type sbc
  tcp-port 0
  tls-port 0
  media-realm-name "MR_LAN"
  activate
  exit
  
```

3.2.9 Creating WAN SIP Interface

```
sip-interface 2
  interface-name "SIP_WAN"
  network-interface "WAN_VOICE"
  application-type sbc
  tcp-port 0
  tls-port 0
  media-realm-name "MR_WAN"
  activate
exit
```

3.2.10 Setting Proxy Server (IP or Hostname)

```
proxy-set 1
  proxy-name "PBX"
  proxy-enable-keep-alive using-options
  sbcipv4-sip-int-name "SIP_WAN"
  activate
  proxy-ip 1
  proxy-address "10.10.10.252"
  activate
exit
exit
```

3.2.11 Creating IP Group for LAN Side

```
ip-group 1
  type user
  name "IPP_GROUP"
  media-realm-name "MR_LAN"
  classify-by-proxy-set disable
  activate
exit
```

3.2.12 Creating IP Group for WAN Side

```
ip-group 2
  name "PBX_GROUP"
  proxy-set-name "PBX"
  media-realm-name "MR_WAN"
  activate
exit
```

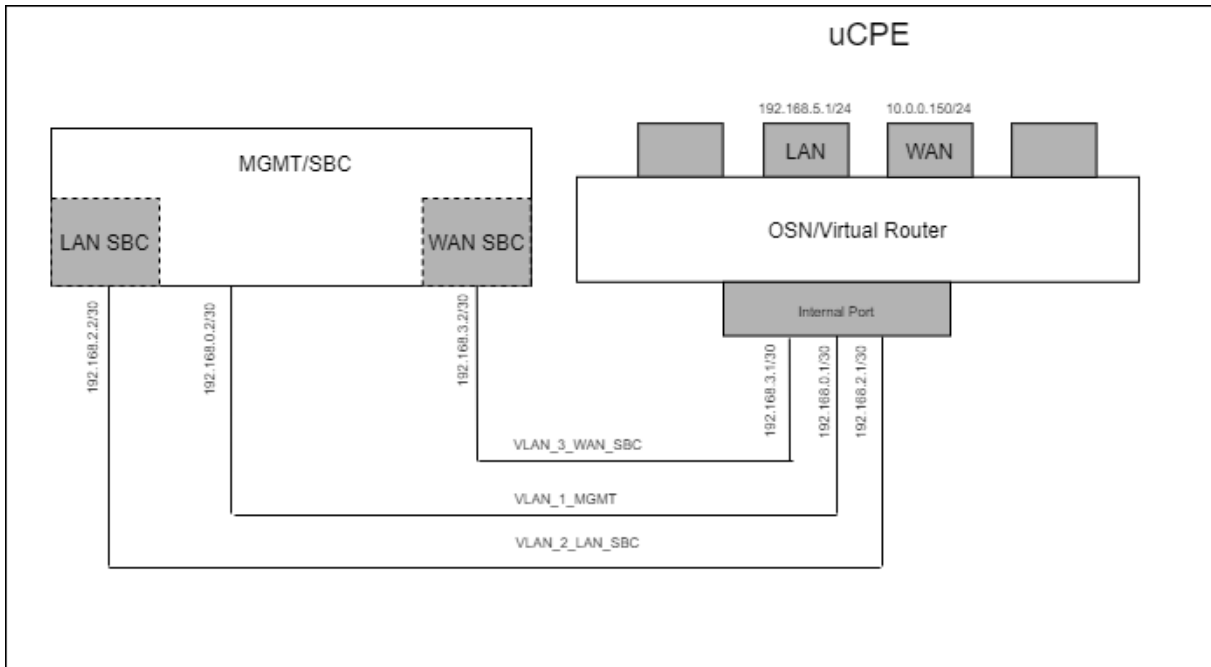
3.2.13 Creating SBC IP-to-IP Routing Rules

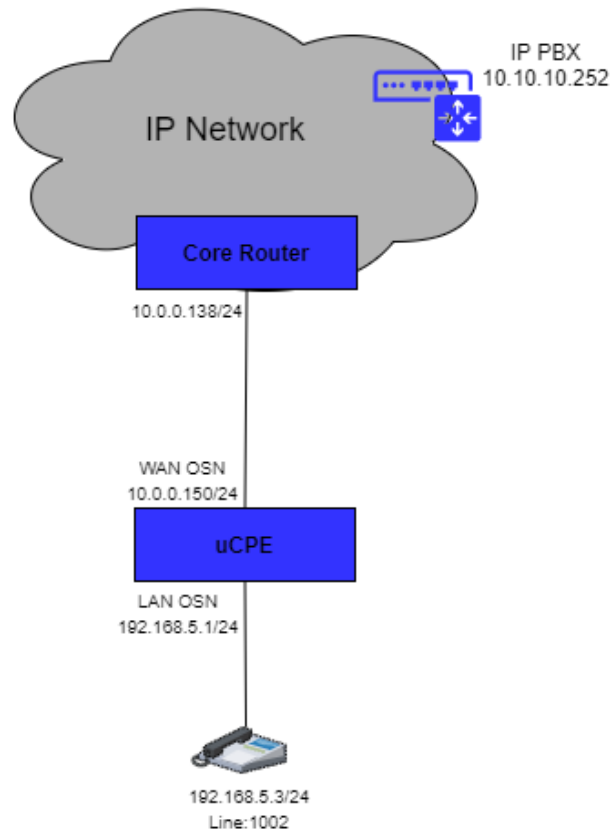
```
sbc routing ip2ip-routing 0
  route-name "Options Termination"
  request-type options
  dst-type dst-address
  dst-address "internal"
  activate
exit
sbc routing ip2ip-routing 1
  route-name "IPP TO PBX"
  src-ip-group-name "IPP_GROUP"
  dst-ip-group-name "PBX_GROUP"
  activate
exit
sbc routing ip2ip-routing 2
  route-name "PBX TO IPP"
  src-ip-group-name "PBX_GROUP"
  dst-ip-group-name "IPP_GROUP"
  activate
exit
sbc classification 0
  classification-name "IP_PHONE"
  src-sip-interface-name "SIP_LAN"
  src-ip-group-name "IPP_GROUP"
  activate
exit
exit
```

4 Mediant 800C-i uCPE with SBC Application (Only OSN Used)

This example scenario shows a virtual router (installed on the OSN) connected to the SBC application.

The virtual router uses the LAN and WAN interface of the OSN. The internal interface connects between the virtual router and SBC through the internal switch.





4.1 Switch System Configuration (Entire Configuration)

4.1.1 Adding VLANs to OSN Interface

```
interface osn
  switchport mode trunk
  switchport trunk native vlan 1
  switchport trunk allowed vlan add 1
  switchport trunk allowed vlan add 2
  switchport trunk allowed vlan add 3
  no shutdown
exit
```

4.1.2 Configuring IP Network Interface for Management

```
interface VLAN 1
  ip address 192.168.0.2 255.255.255.252
  no shutdown
exit
```

4.1.3 Configuring IP Network Interface for LAN SBC

```
interface VLAN 2
  ip address 192.168.2.2 255.255.255.252 alias "LAN_SBC"
  no shutdown
exit
```


4.1.4 Configuring IP Network Interface for WAN SBC

```
interface VLAN 3
  ip address 192.168.3.2 255.255.255.252 alias "WAN_SBC"
  no shutdown
exit
```

4.1.5 Configuring Static Route

```
ip route 10.0.0.0 255.255.255.0 192.168.0.1 VLAN 1 1
ip route 192.168.5.0 255.255.255.0 192.168.2.1 VLAN 2 1
ip route 10.0.0.252 255.255.255.255 192.168.3.1 VLAN 3 1
```

4.2 SBC Voice Configuration (Entire Configuration)

This section describes the voice configuration.

4.2.1 Setting Voice Coders

```
configure voip
  coders-and-profiles audio-coders-groups 0
  coders-group-name "AudioCodersGroups_0"
  activate
  audio-coders 0
  name g711-alaw
  p-time 20
  rate 64
  activate
  exit
exit
```

4.2.2 Creating LAN Media Realm and Assigning to Interface LAN_SBC

```
realm 1
  name "MR_LAN"
  network-source-ipv4 "LAN_SBC"
  udp-port-range-start 6000
  session-leg 20
  activate
  exit
```

4.2.3 Creating WAN Media Realm and Assigning to Interface WAN_SBC

```
realm 2
  name "MR_WAN"
  network-source-ipv4 "WAN_SBC"
  udp-port-range-start 6000
  session-leg 20
  activate
  exit
```

4.2.4 Creating LAN SIP Interface

```
sip-interface 1
  interface-name "SIP_LAN"
  network-source "LAN_SBC"
  application-type sbc
  tcp-port 0
  tls-port 0
  media-realm-name "MR_LAN"
  activate
  exit
```

4.2.5 Creating WAN SIP Interface

```
sip-interface 2
  interface-name "SIP_WAN"
  network-source "WAN_SBC"
  application-type sbc
  tcp-port 0
  tls-port 0
  media-realm-name "MR_WAN"
  activate
exit
```

4.2.6 Setting Proxy Server (IP or Hostname)

```
proxy-set 1
  proxy-name "PBX"
  proxy-enable-keep-alive using-options
  sbcipv4-sip-int-name "SIP_WAN"
  activate
  proxy-ip 1
  proxy-address "10.0.0.252"
  activate
  exit
exit
```

4.2.7 Creating IP Group for LAN Side

```
ip-group 1
  type user
  name "IPP_GROUP"
  media-realm-name "MR_LAN"
  classify-by-proxy-set disable
  activate
  exit
```

4.2.8 Creating IP Group for WAN Side

```
ip-group 2
  name "PBX_GROUP"
  proxy-set-name "PBX"
  media-realm-name "MR_WAN"
  activate
  exit
```

4.2.9 Creating SBC IP-to-IP Routing Rules

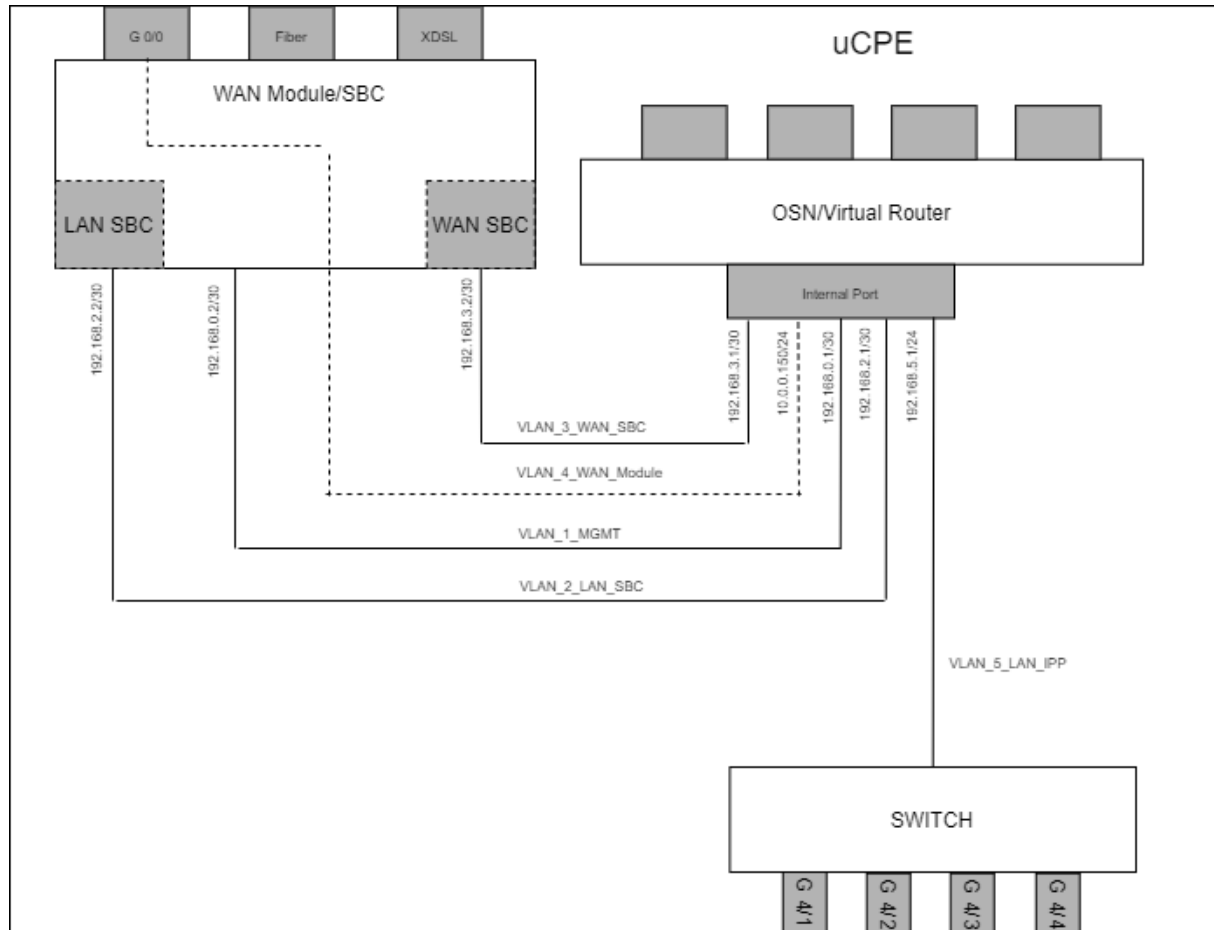
```
sbc routing ip2ip-routing 0
  route-name "Options Termination"
  request-type options
  dst-type dst-address
  dst-address "internal"
  activate
exit
sbc routing ip2ip-routing 1
  route-name "IPP TO PBX"
  src-ip-group-name "IPP_GROUP"
  dst-ip-group-name "PBX_GROUP"
  activate
exit
sbc routing ip2ip-routing 2
  route-name "PBX TO IPP"
  src-ip-group-name "PBX_GROUP"
  dst-ip-group-name "IPP_GROUP"
  activate
exit
sbc classification 0
  classification-name "IP_PHONE"
  src-sip-interface-name "SIP_LAN"
  src-ip-group-name "IPP_GROUP"
  activate
exit
exit
```

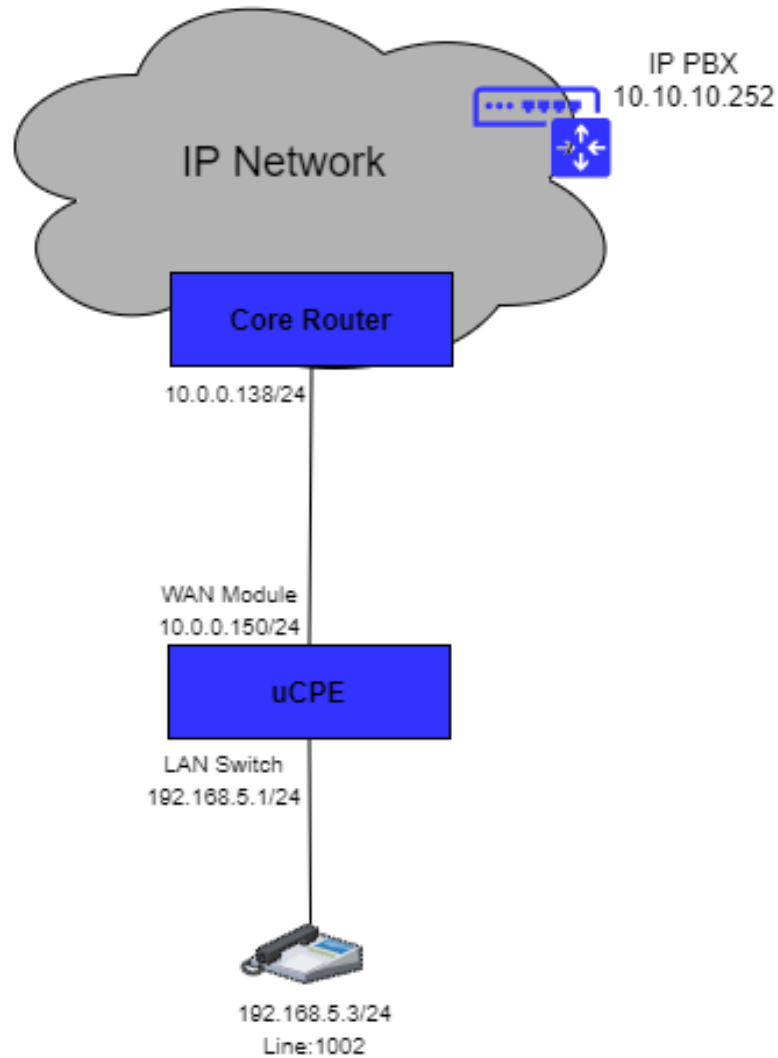
5 Mediant 800C-i uCPE with SBC Application (Switch and WAN Module Used)

This example scenario shows a virtual router (installed on the OSN) connected to the SBC application.

The virtual router uses the LAN switch and WAN module interface as its components.

The internal interface connects between the virtual router, LAN switch, WAN module and SBC through the internal switch.





5.1 Switch System Configuration (Entire Configuration)

5.1.1 Enabling OSN as Router Mode

```
configure system
  osn router mode enable
exit
```

OSN as Router Mode is Enabled!!
This is is offline parameter, Please burn and reset the unit!!

5.1.2 Adding VLANs to OSN Interface

```
configure data
interface osn
    switchport mode trunk
    switchport trunk native vlan 1
    switchport trunk allowed vlan add 1 wan
    switchport trunk allowed vlan add 2 wan
    switchport trunk allowed vlan add 3 wan
    switchport trunk allowed vlan add 4 wan
    switchport trunk allowed vlan add 5
    no shutdown
exit
```



Note: VLANs not for LAN must use the hardcoded string “wan” (e.g., for WAN, SBC/Gateway, and Management interfaces).

5.1.3 Configuring IP Network Interface for Management

```
interface VLAN 1
    ip address 192.168.0.2 255.255.255.252
    no shutdown
exit
```

5.1.4 Setting Physical LAN Ethernet 1/1 Assigning to VLAN 5

```
interface GigabitEthernet 1/1
    speed auto
    duplex auto
    switchport mode trunk
    switchport trunk native vlan 5
    no shutdown
exit
```

5.1.5 Creating Interface BVI for Setting Physical LAN Ethernet 1/1 Assigning to VLAN 5

```
interface BVI 4
    no ip address
    no shutdown
exit
```

5.1.6 Setting Logical Interface VLAN 4 and Assigning to BVI 4

```
interface VLAN 4
  no ip address
  bridge-group 4
  desc "VLAN4_External_WAN"
  no shutdown
exit
```

5.1.7 Setting Physical Interface Giga 0/0 and Assigning to BVI 4

```
interface GigabitEthernet 0/0
  no ip address
  bridge-group 4
  desc "WAN Ethernet"
  no shutdown
exit
```

5.1.8 Configuring IP Network Interface for LAN SBC

```
interface VLAN 2
  ip address 192.168.2.2 255.255.255.252 alias "LAN_SBC"
  desc "LAN switch vlan 2"
  no shutdown
exit
```

5.1.9 Configuring IP Network Interface for WAN SBC

```
interface VLAN 3
  ip address 192.168.3.2 255.255.255.252 alias "WAN_SBC"
  desc "LAN switch vlan 3"
  no shutdown
exit
```

5.1.10 Configuring Static Route

```
ip route 10.0.0.0 255.255.255.0 192.168.0.1 VLAN 1 1
ip route 192.168.5.0 255.255.255.0 192.168.2.1 VLAN 2 1
ip route 10.0.0.252 255.255.255.255 192.168.3.1 VLAN 3 1
```


5.2 SBC Voice Configuration (Entire Configuration)

This section describes the voice configuration.

5.2.1 Setting Voice Coders

```
configure voip
coders-and-profiles audio-coders-groups 0
coders-group-name "AudioCodersGroups_0"
activate
audio-coders 0
name g711-alaw
p-time 20
rate 64
activate
exit
exit
```

5.2.2 Creating LAN Media Realm and Assigning to Interface LAN_SBC

```
realm 1
name "MR_LAN"
network-source-ipv4 "LAN_SBC"
udp-port-range-start 6000
session-leg 20
activate
exit
```

5.2.3 Creating WAN Media Realm and Assigning to Interface WAN_SBC

```
realm 2
name "MR_WAN"
network-source-ipv4 "WAN_SBC"
udp-port-range-start 6000
session-leg 20
activate
exit
```

5.2.4 Creating LAN SIP Interface

```
sip-interface 1
interface-name "SIP_LAN"
network-source "LAN_SBC"
application-type sbc
tcp-port 0
tls-port 0
media-realm-name "MR_LAN"
activate
exit
```

5.2.5 Creating WAN SIP Interface

```
sip-interface 2
  interface-name "SIP_WAN"
  network-source "WAN_SBC"
  application-type sbc
  tcp-port 0
  tls-port 0
  media-realm-name "MR_WAN"
  activate
exit
```

5.2.6 Setting Proxy Server (IP or Hostname)

```
proxy-set 1
  proxy-name "PBX"
  proxy-enable-keep-alive using-options
  sbcipv4-sip-int-name "SIP_WAN"
  activate
  proxy-ip 1
  proxy-address "10.0.0.252"
  activate
exit
exit
```

5.2.7 Creating IP Group for LAN Side

```
ip-group 1
  type user
  name "IPP_GROUP"
  media-realm-name "MR_LAN"
  classify-by-proxy-set disable
  activate
exit
```

5.2.8 Creating IP Group for WAN Side

```
ip-group 2
  name "PBX_GROUP"
  proxy-set-name "PBX"
  media-realm-name "MR_WAN"
  activate
exit
```

5.2.9 Creating SBC IP-to-IP Routing Rules

```
sbc routing ip2ip-routing 0
  route-name "Options Termination"
  request-type options
  dst-type dst-address
  dst-address "internal"
  activate
exit
sbc routing ip2ip-routing 1
  route-name "IPP TO PBX"
  src-ip-group-name "IPP_GROUP"
  dst-ip-group-name "PBX_GROUP"
  activate
exit
sbc routing ip2ip-routing 2
  route-name "PBX TO IPP"
  src-ip-group-name "PBX_GROUP"
  dst-ip-group-name "IPP_GROUP"
  activate
exit
sbc classification 0
  classification-name "IP_PHONE"
  src-sip-interface-name "SIP_LAN"
  src-ip-group-name "IPP_GROUP"
  activate
exit
exit
```

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