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# Integration Reference Manual

Configuring Cisco Media Gateway

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# Configuring Cisco Media Gateway

This page provides an overview of the main steps that are required to configure Cisco Media Gateway.

## Integrating with Cisco Media Gateway

### 1. Check Prerequisites.

#### Verify that Cisco Media Gateway is working

Verify that Cisco Media Gateway is functional and handling calls appropriately.

The procedures in this topic assume that Cisco Media Gateway is functional and handling calls appropriately. For more information, see Cisco Media Gateway-specific documentation.

### 2. Configure an E1 environment.

#### Configuring an E1 environment

##### **Purpose**

To configure an E1 environment. This section provides an example of an E1 configuration.

##### **Start**

1. Configure a controller:  
controller E1 0/2/0  
framing NO-CRC4  
ds0-group 0 timeslots 1 type fxo-loop-start  
ds0-group 1 timeslots 2 type fxo-loop-start  
ds0-group 2 timeslots 3 type fxo-loop-start
2. Configure voice ports:  
voice-port 0/2/0:0  
output attenuation 0  
station-id name 2300090  
voice-port 0/2/0:1  
output attenuation 0  
station-id name 2300091

```
voice-port 0/2/0:2
output attenuation 0
station-id name 2300092
```

3. Configure dial peers:

```
dial-peer voice 2300090 pots
destination-pattern 6...
supplementary-service pass-through
port 0/2/0:0
forward-digits all
dial-peer voice 2300091 pots
destination-pattern 6...
supplementary-service pass-through
port 0/2/0:1
forward-digits all
dial-peer voice 2300092 pots
destination-pattern 6...
supplementary-service pass-through
port 0/2/0:2
forward-digits all
dial-peer voice 8800 voip
service session
destination-pattern 8800
voice-class codec 4
session protocol sipv2
session target ipv4:192.168.50.137
dtmf-relay rtp-nte
supplementary-service pass-through
```

**End**

### Next Steps

- [Configuring a T1 CAS environment](#)

## 3. Configure a T1 CAS environment.

### Configuring a T1 CAS environment

#### Purpose

To configure a T1 CAS environment. This section provides an example of a T1 CAS configuration.

#### Start

1. Configure a controller:

```
controller T1 1/0/1
framing sf
clock source internal
```

```
linecode ami
ds0-group 0 timeslots 1 type e&m-immediate-start
ds0-group 1 timeslots 2 type e&m-immediate-start
ds0-group 2 timeslots 3 type e&m-immediate-start
```

2. Configure voice ports:

```
voice-port 0/2/0:0
output attenuation 0
station-id name 2300090
voice-port 0/2/0:1
output attenuation 0
station-id name 2300091
voice-port 0/2/0:2
output attenuation 0
station-id name 2300092
```

3. Configure dial peers:

```
dial-peer voice 2300090 pots
destination-pattern 6...
supplementary-service pass-through
port 0/2/0:0
forward-digits all
dial-peer voice 2300091 pots
destination-pattern 6...
supplementary-service pass-through
port 0/2/0:1
forward-digits all
dial-peer voice 2300092 pots
destination-pattern 6...
supplementary-service pass-through
port 0/2/0:2
forward-digits all
dial-peer voice 8800 voip
service session
destination-pattern 8800
voice-class codec 4
session protocol sipv2
session target ipv4:192.168.50.137
dtmf-relay rtp-nte
supplementary-service pass-through
```

**End**

### Next Steps

- [Configuring a T1 PRI environment](#)

## 4. Configure a T1 PRI environment.

## Configuring a T1 PRI environment

### Purpose

To configure a T1 PRI environment. This section provides an example of a T1 PRI configuration.

### Start

1. Configure a controller:  
`controller T1 0/0/0`  
`framing esf`  
`linecode b8zs`  
`pri-group timeslots 1-24`
2. Configure an interface serial:  
`interface Serial0/0/0:23`  
`no ip address`  
`encapsulation hdlc`  
`isdn switch-type primary-ni`  
`isdn incoming-voice voice`  
`no cdp enable`
3. Configure a voice port:  
`voice-port 0/0/0:23`
4. Configuring dial peers:  
`dial-peer voice 9 pots`  
`destination-pattern 9T`  
`incoming called-number 9...`  
`port 0/0/0:23`  
`dial-peer voice 8800 voip`  
`service session`  
`destination-pattern 8800`  
`voice-class codec 4`  
`session protocol sipv2`  
`session target ipv4:192.168.50.137`  
`dtmf-relay rtp-nte`  
`supplementary-service pass-through`

### End

### Next Steps

- [Configuring an E1 PRI environment](#)

## 5. Configure an E1 PRI environment.

## Configuring an E1 PRI environment

### Purpose

To configure an E1 PRI environment. This section provides an example of an E1 PRI configuration.

### Start

1. Configure a controller:  
`controller E1 0/2/1`  
`framing NO-CRC4`  
`pri-group timeslots 1-31`
2. Configure an interface serial:  
`interface Serial0/2/1:15`  
`no ip address`  
`encapsulation hdlc`  
`isdn switch-type primary-net5`  
`isdn protocol-emulate network`  
`isdn incoming-voice voice`  
`no cdp enable`
3. Configure a voice port:  
`voice-port 0/2/1:15`
4. Configure dial peers:  
`dial-peer voice 130 pots`  
`destination-pattern 130T`  
`direct-inward-dial`  
`port 0/2/1:15`  
`dial-peer voice 8800 voip`  
`service session`  
`destination-pattern 8800`  
`voice-class codec 4`  
`session protocol sipv2`  
`session target ipv4:192.168.50.137`  
`dtmf-relay rtp-nte`  
`supplementary-service pass-through`

### End

### Next Steps

- [Configuring a SIP User Agent](#)

## 6. Configure a SIP User Agent.

## Configuring a SIP User Agent

### **Purpose**

To configure a SIP User Agent. This section provides an example of a SIP User Agent configuration.

### **Start**

Configure a SIP User Agent: enter global configuration "configure terminal":

```
sip-ua  
timers notify 400  
sip-server dns:host.genesyslab.com
```

### **End**