

## SIP Gateway

« H323 Gateway (/workbook/view/ccie-collaboration/task/h323-gateway-MzAyOQ%3D%3D) | CUCM SIP Trunks – Intersite SIP Trunk using CUBE: HQ & Site B (/workbook/view/ccie-collaboration/task/cucm-sip-trunks-intersite-sip-trunk-using-cube-hq-site-b-MzAzMQ%3D%3D) »

Last updated: November 13, 2017

Information below is relevant for your digital E1 gateway (Site C)

- Line code/framing HDB3/CRC4
- ISDN switch type Primary-5ess
- Configure your gateways to take clock (layer1) from network. For PRI circuits configure your gateway as Layer 2 User side.
- Refer to the individual gateway trunk-section for digit sending and receiving details.
- Calling names should always be sent to the PSTN
- Use full span on E1 PRI unless specified otherwise.

### Tasks

- Configure E1 fractional PRI (1-16) channels only on the SiteC 2911 router R3, provision this router as SIP gateway.
- This gateway should send and receive all SIP traffic from its local voice VLAN interface with IP address of 11.102.66.254.

### Configuration: [Click to collapse](#)

#### Site C – R3

```
card type e1 0 1
  isdn switch-type primary-5ess
  network-clock-participate wic 1
  network-clock-select 1 E1 0/1/0
!
controller E1 0/1/0
  linecode HDB3
  framing CRC4
  pri-group timeslots 1-16
  no shutdown
!
voice service voip
  sip
  bind control source-interface vlan 502
  bind media source-interface vlan 502
```

## Verification

```
R3#show isdn status
Global ISDN Switchtype = primary-ni
ISDN Serial0/1/0:15 interface
  dsl 0, interface ISDN Switchtype = primary-ni
  Layer 1 Status:
    ACTIVE
  Layer 2 Status:
    TEI = 0, Ces = 1, SAPI = 0, State = MULTIPLE_FRAME_ESTABLISHED
  Layer 3 Status:
    0 Active Layer 3 Call(s)
  Active dsl 0 CCBs = 0
  The Free Channel Mask: 0x80007FFF
  Number of L2 Discards = 0, L2 Session ID = 9
  Total Allocated ISDN CCBs = 0
```

CONTENTS ▼

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