



Call Flow Components Configuration Commands

This appendix provides a few sample configuration commands for Cisco Unified Communications System Release 5.0 components that are involved in the call flows discussed in [Chapter 4, “Tested Call Flows”](#). The configuration commands are listed by the type of call flow the components are involved with and are site-specific and site-relevant.

Sample configuration commands for general infrastructure components such as gateways, switches and routers deployed at the various test sites are similar to those listed for IPT components in the *System Architecture Reference Manual for IP Telephony* at:

<http://www.cisco.com/univercd/cc/td/doc/systems/unified/unified1/starmipt/index.htm>

Site-specific physical and logical topology maps are provided in [Chapter 2, “Test Deployment Models and Sites”](#).

This topic contains the following sections:

- [Test Bed 1 Call Flows](#)
- [Test Bed 2 Call Flows](#)

Test Bed 1 Call Flows

Cisco Unified CallManager Post-Routed Call Flow Components

Listed in this section are configuration commands for some of the components that are involved in handling the Cisco Unified CallManager (Unified CallManager) Post-Routed call flow in Test Bed 1:

- [Site1 Cisco 3600 Gatekeeper3](#) (also used in the Parent/Child call flow)
- [Site4 Cisco 5850 Gateway1](#)
- [Site5 Cisco Communications Media Module Gateway1](#)

Site1 Cisco 3600 Gatekeeper3

```
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname CS1-3660-GK3
!
```

```

boot-start-marker
boot system flash:c3660-jsx-mz.124-5.13.T4
boot-end-marker
!
logging buffered 1000000 debugging
enable password any
!
no aaa new-model
!
resource policy
!
clock timezone EST -5
clock summer-time EDT recurring
!
!
ip cef
ip domain name rtp.com
ip name-server 10.12.3.67
ip name-server 10.12.6.67
!
!
interface FastEthernet0/0
 ip address 10.12.3.103 255.255.255.240
 speed 100
 full-duplex
!
interface FastEthernet0/1
 ip address 10.12.1.165 255.255.255.0
 speed 100
 full-duplex
!
ip http server
ip route 0.0.0.0 0.0.0.0 10.12.6.97
ip route 0.0.0.0 0.0.0.0 10.12.3.97
!
!
snmp-server community public RO
snmp-server community private RW
snmp-server enable traps snmp authentication linkdown linkup coldstart warmstart
snmp-server enable traps vrrp
snmp-server enable traps ds1
snmp-server enable traps tty
snmp-server enable traps eigrp
snmp-server enable traps casa
snmp-server enable traps gatekeeper
snmp-server enable traps xgcp
snmp-server enable traps isdn call-information
snmp-server enable traps isdn layer2
snmp-server enable traps isdn chan-not-avail
snmp-server enable traps isdn ietf
snmp-server enable traps icsudsu
snmp-server enable traps ds3
snmp-server enable traps hsrp
snmp-server enable traps config
snmp-server enable traps entity
snmp-server enable traps cpu threshold
snmp-server enable traps config-copy
snmp-server enable traps flash insertion removal
snmp-server enable traps envmon
snmp-server enable traps ds0-busyout
snmp-server enable traps ds1-loopback
snmp-server enable traps bgp
snmp-server enable traps ospf state-change
snmp-server enable traps ospf errors

```

```

snmp-server enable traps ospf retransmit
snmp-server enable traps ospf lsa
snmp-server enable traps ospf cisco-specific state-change nssa-trans-change
snmp-server enable traps ospf cisco-specific state-change shamlink interface-old
snmp-server enable traps ospf cisco-specific state-change shamlink neighbor
snmp-server enable traps ospf cisco-specific errors
snmp-server enable traps ospf cisco-specific retransmit
snmp-server enable traps ospf cisco-specific lsa
snmp-server enable traps pim neighbor-change rp-mapping-change invalid-pim-message
snmp-server enable traps ipmulticast
snmp-server enable traps mvpn
snmp-server enable traps msdp
snmp-server enable traps rsvp
snmp-server enable traps frame-relay
snmp-server enable traps frame-relay subif
snmp-server enable traps syslog
snmp-server enable traps rtr
snmp-server enable traps bulkstat collection transfer
snmp-server enable traps mpls ldp
snmp-server enable traps mpls traffic-eng
snmp-server enable traps mpls vpn
snmp-server enable traps cnpd
snmp-server enable traps stun
snmp-server enable traps dlsw
snmp-server enable traps bstun
snmp-server enable traps pppoe
snmp-server enable traps l2tun session
snmp-server enable traps atm subif
snmp-server enable traps dial
snmp-server enable traps dsp card-status
snmp-server enable traps dsp oper-state
snmp-server enable traps ipmobile
snmp-server enable traps vtp
snmp-server enable traps vsimaster
snmp-server enable traps event-manager
snmp-server enable traps voice
snmp-server enable traps dnis
snmp-server enable traps ccme
snmp-server enable traps srst
snmp-server host 10.12.6.70 public
!
!
control-plane
!
!
gatekeeper
zone local CS1-CCM-ZONE rtp.com 10.12.3.103
zone local DC-CCM-ZONE rtp.com
zone local CS5-CCM-ZONE rtp.com
zone local DC-GW-ZONE rtp.com
zone cluster local GUP CS1-CCM-ZONE
element CS4-CCM-ZONE 10.12.6.103 1719
!
zone cluster remote CS9-GK1 bxb.com
element CS9-3660-GK1 10.12.10.99 1719
!
zone prefix CS1-CCM-ZONE 21... gw-priority 10 CS4-CM6-TRK_7 CS4-CM5-TRK_6
zone prefix CS1-CCM-ZONE 21... gw-priority 5 CS1-CM2-TRK_3 CS1-CM1-TRK_1
zone prefix CS1-CCM-ZONE 21... gw-priority 0 CS4-5850-GW1
zone prefix CS1-CCM-ZONE 22... gw-priority 10 CS4-CM6-TRK_7 CS4-CM5-TRK_6
zone prefix CS1-CCM-ZONE 22... gw-priority 5 CS1-CM2-TRK_3 CS1-CM1-TRK_1
zone prefix CS1-CCM-ZONE 22... gw-priority 0 CS4-5850-GW1
zone prefix CS1-CCM-ZONE 23... gw-priority 10 CS4-CM6-TRK_7 CS4-CM5-TRK_6
zone prefix CS1-CCM-ZONE 23... gw-priority 5 CS1-CM2-TRK_3 CS1-CM1-TRK_1

```

```

zone prefix CS1-CCM-ZONE 23.... gw-priority 0 CS4-5850-GW1
zone prefix CS1-CCM-ZONE 24.... gw-priority 10 CS4-CM6-TRK_7 CS4-CM5-TRK_6
zone prefix CS1-CCM-ZONE 24.... gw-priority 5 CS1-CM2-TRK_3 CS1-CM1-TRK_1
zone prefix CS1-CCM-ZONE 24.... gw-priority 0 CS4-5850-GW1
zone prefix CS5-CCM-ZONE 25....
zone prefix CS5-CCM-ZONE 26....
zone prefix CS9-GK1 39....
zone prefix DC-GW-ZONE 919*
zone prefix DC-GW-ZONE 9.....
gw-type-prefix 1#* default-technology
no shutdown
!
!
line con 0
line aux 0
line vty 0 4
  password any
  login
!
ntp clock-period 17180213
ntp server 10.12.3.98
!
end

```

Site4 Cisco 5850 Gateway1

```

version 12.4
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname CS4-5850-GW1
!
boot-start-marker
boot system flash c5850tb-p9-mz.124-5.13.T4
boot-end-marker
!
!
redundancy
  mode classic-split
logging buffered 10000000 debugging
enable password any
!
no aaa new-model
!
resource policy
!
!
resource-pool disable
clock timezone EST -5
clock summer-time EDT recurring
spe default-firmware spe-firmware-1
ip cef distributed
ip domain name rtp.com
ip name-server 10.12.6.67
ip name-server 10.12.3.67
!
!
isdn switch-type primary-dms100
!
!

```

```
voice service voip
  fax protocol t38 ls-redundancy 0 hs-redundancy 0 fallback none
  h323
  modem passthrough none codec g729r8 pre-ietf
  !
  !
voice class codec 711
  codec preference 1 g729r8
  codec preference 2 g711ulaw
  !
  !
voice statistics type csr
voice statistics time-range since-reset
  !
  !
controller T3 0/0
  cablelength 224
  t1 1-18 controller
  !
controller T1 0/0:1
  framing esf
  pri-group timeslots 1-24
  !
controller T1 0/0:2
  framing esf
  pri-group timeslots 1-24
  !
controller T1 0/0:3
  framing esf
  pri-group timeslots 1-24
  !
controller T1 0/0:4
  framing esf
  pri-group timeslots 1-24
  !
controller T1 0/0:5
  framing esf
  pri-group timeslots 1-24
  !
controller T1 0/0:6
  framing esf
  pri-group timeslots 1-24
  !
controller T1 0/0:7
  framing esf
  pri-group timeslots 1-24
  !
controller T1 0/0:8
  framing esf
  pri-group timeslots 1-24
  !
controller T1 0/0:9
  framing esf
  pri-group timeslots 1-24
  !
controller T1 0/0:10
  framing esf
  pri-group timeslots 1-24
  !
controller T1 0/0:11
  framing esf
  pri-group timeslots 1-24
  !
controller T1 0/0:12
```

```

    framing esf
    pri-group timeslots 1-24
    !
controller T1 0/0:13
    framing esf
    pri-group timeslots 1-24
    !
controller T1 0/0:14
    framing esf
    pri-group timeslots 1-24
    !
controller T1 0/0:15
    framing esf
    pri-group timeslots 1-24
    !
controller T1 0/0:16
    framing esf
    pri-group timeslots 1-24
    !
controller T1 0/0:17
    framing esf
    pri-group timeslots 1-24
    !
controller T1 0/0:18
    framing esf
    pri-group timeslots 1-24
    !
    !
interface FastEthernet6/0
    ip address 10.12.6.106 255.255.255.240
    no ip route-cache cef
    no ip route-cache distributed
    no ip route-cache
    logging event link-status
    speed 100
    full-duplex
    h323-gateway voip interface
    h323-gateway voip id CS4-CCM-ZONE ipaddr 10.12.6.103 1719
    h323-gateway voip h323-id CS4-5850-GW1
    h323-gateway voip tech-prefix 1#
    !
interface GigabitEthernet6/0
    no ip address
    logging event link-status
    shutdown
    negotiation auto
    !
interface FastEthernet6/1
    ip address 10.12.1.144 255.255.255.0
    no ip route-cache cef
    no ip route-cache distributed
    no ip route-cache
    logging event link-status
    speed 100
    full-duplex
    !
interface GigabitEthernet6/1
    no ip address
    logging event link-status
    shutdown
    negotiation auto
    !
interface Serial0/0:1:23
    no ip address

```

```
encapsulation hdlc
 isdn switch-type primary-ni
 isdn incoming-voice modem
 no cdp enable
!
interface Serial0/0:2:23
 no ip address
 encapsulation hdlc
 isdn switch-type primary-ni
 isdn incoming-voice modem
 no cdp enable
!
interface Serial0/0:3:23
 no ip address
 encapsulation hdlc
 isdn switch-type primary-ni
 isdn incoming-voice modem
 no cdp enable
!
interface Serial0/0:4:23
 no ip address
 encapsulation hdlc
 isdn switch-type primary-ni
 isdn incoming-voice modem
 no cdp enable
!
interface Serial0/0:5:23
 no ip address
 encapsulation hdlc
 isdn switch-type primary-ni
 isdn incoming-voice modem
 no cdp enable
!
interface Serial0/0:6:23
 no ip address
 encapsulation hdlc
 isdn switch-type primary-ni
 isdn incoming-voice modem
 no cdp enable
!
interface Serial0/0:7:23
 no ip address
 encapsulation hdlc
 isdn switch-type primary-ni
 isdn incoming-voice modem
 no cdp enable
!
interface Serial0/0:8:23
 no ip address
 encapsulation hdlc
 isdn switch-type primary-ni
 isdn incoming-voice modem
 no cdp enable
!
interface Serial0/0:9:23
 no ip address
 encapsulation hdlc
 isdn switch-type primary-dms100
 isdn incoming-voice modem
 no cdp enable
!
interface Serial0/0:10:23
 no ip address
 encapsulation hdlc
```

```
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial0/0:11:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial0/0:12:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial0/0:13:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial0/0:14:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial0/0:15:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial0/0:16:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial0/0:17:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial0/0:18:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Group-Async0
no ip address
encapsulation slip
group-range 0/00 5/323
```



```

!
!
ip route 0.0.0.0 0.0.0.0 10.12.6.97
no ip http server
!
!
snmp-server community public RO
snmp-server community private RW
snmp-server enable traps snmp authentication linkdown linkup coldstart warmstart
snmp-server enable traps vrrp
snmp-server enable traps calltracker
snmp-server enable traps ds1
snmp-server enable traps tty
snmp-server enable traps eigrp
snmp-server enable traps xgcp
snmp-server enable traps ds3
snmp-server enable traps isdn call-information
snmp-server enable traps isdn layer2
snmp-server enable traps isdn chan-not-avail
snmp-server enable traps isdn ietf
snmp-server enable traps fru-ctrl
snmp-server enable traps flash insertion removal
snmp-server enable traps hsrp
snmp-server enable traps config
snmp-server enable traps entity
snmp-server enable traps cpu threshold
snmp-server enable traps config-copy
snmp-server enable traps envmon
snmp-server enable traps aaa_server
snmp-server enable traps rf
snmp-server enable traps ospf state-change
snmp-server enable traps ospf errors
snmp-server enable traps ospf retransmit
snmp-server enable traps ospf lsa
snmp-server enable traps ospf cisco-specific state-change nssa-trans-change
snmp-server enable traps ospf cisco-specific state-change shamlink interface-old
snmp-server enable traps ospf cisco-specific state-change shamlink neighbor
snmp-server enable traps ospf cisco-specific errors
snmp-server enable traps ospf cisco-specific retransmit
snmp-server enable traps ospf cisco-specific lsa
snmp-server enable traps pim neighbor-change rp-mapping-change invalid-pim-message
snmp-server enable traps ipmulticast
snmp-server enable traps dial
snmp-server enable traps dsp card-status
snmp-server enable traps dsp oper-state
snmp-server enable traps ds0-busyout
snmp-server enable traps dsl-loopback
snmp-server enable traps health-monitor
snmp-server enable traps bgp
snmp-server enable traps syslog
snmp-server enable traps memory bufferpeak
snmp-server enable traps voice
snmp-server enable traps dnis
snmp-server host 10.12.6.70 public
!
!
control-plane
!
!
!
voice-port 0/0:1:D
!
voice-port 0/0:2:D
!

```

```

voice-port 0/0:3:D
!
voice-port 0/0:4:D
!
voice-port 0/0:5:D
!
voice-port 0/0:6:D
!
voice-port 0/0:7:D
!
voice-port 0/0:8:D
!
voice-port 0/0:9:D
!
voice-port 0/0:10:D
!
voice-port 0/0:11:D
!
voice-port 0/0:12:D
!
voice-port 0/0:13:D
!
voice-port 0/0:14:D
!
voice-port 0/0:15:D
!
voice-port 0/0:16:D
!
voice-port 0/0:17:D
!
voice-port 0/0:18:D
!
!
dial-peer voice 1 voip
 destination-pattern 2.....
 session target ras
 dtmf-relay h245-signal h245-alphanumeric
!
dial-peer voice 1000 pots
 incoming called-number 2.....
 no digit-strip
 direct-inward-dial
 port 0/0:1:D
!
dial-peer voice 2 voip
 session target ras
 incoming called-number 919472....
 dtmf-relay h245-signal h245-alphanumeric
!
dial-peer voice 1001 pots
 destination-pattern 919472....
 no digit-strip
 direct-inward-dial
 port 0/0:1:D
!
dial-peer voice 1002 pots
 incoming called-number 2.....
 direct-inward-dial
 port 0/0:2:D
!
dial-peer voice 1003 pots
 incoming called-number 2.....
 direct-inward-dial
 port 0/0:3:D

```

```
!  
dial-peer voice 1004 pots  
  incoming called-number 2.....  
  direct-inward-dial  
  port 0/0:4:D  
!  
dial-peer voice 1005 pots  
  incoming called-number 2.....  
  direct-inward-dial  
  port 0/0:5:D  
!  
dial-peer voice 1006 pots  
  incoming called-number 2.....  
  direct-inward-dial  
  port 0/0:6:D  
!  
dial-peer voice 1007 pots  
  incoming called-number 2.....  
  direct-inward-dial  
  port 0/0:7:D  
!  
dial-peer voice 1008 pots  
  incoming called-number 2.....  
  direct-inward-dial  
  port 0/0:8:D  
!  
dial-peer voice 1009 pots  
  incoming called-number 2.....  
  direct-inward-dial  
  port 0/0:9:D  
!  
dial-peer voice 1010 pots  
  incoming called-number 2.....  
  direct-inward-dial  
  port 0/0:10:D  
!  
dial-peer voice 1011 pots  
  incoming called-number 2.....  
  direct-inward-dial  
  port 0/0:11:D  
!  
dial-peer voice 1012 pots  
  incoming called-number 2.....  
  direct-inward-dial  
  port 0/0:12:D  
!  
dial-peer voice 1013 pots  
  incoming called-number 2.....  
  direct-inward-dial  
  port 0/0:13:D  
!  
dial-peer voice 1014 pots  
  incoming called-number 2.....  
  direct-inward-dial  
  port 0/0:14:D  
!  
dial-peer voice 1015 pots  
  incoming called-number 2.....  
  direct-inward-dial  
  port 0/0:15:D  
!  
dial-peer voice 1016 pots  
  incoming called-number 2.....  
  direct-inward-dial
```

```

port 0/0:16:D
!
dial-peer voice 1017 pots
  incoming called-number 2.....
  direct-inward-dial
  port 0/0:17:D
!
dial-peer voice 1018 pots
  incoming called-number 2.....
  direct-inward-dial
  port 0/0:18:D
!
!
gateway
!
!
line con 0
  transport output all
  stopbits 1
line vty 0 4
  password any
  login
  transport input all
  transport output all
line 0/00 0/215
  modem InOut
line 4/00 5/323
  modem InOut
!
ntp clock-period 17180050
ntp server 10.12.6.97
end

```

Site5 Cisco Communications Media Module Gateway1

```

version 12.4
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname cs5-cmm-gw1
!
boot-start-marker
boot system bootflash:wscmm-ipvoicek9-mz.124-4.T1.bin
boot-end-marker
!
logging buffered 10000000 debugging
no logging console
enable password any
!
no aaa new-model
!
resource policy
!
clock timezone EST -5
clock summer-time US_EDT recurring
mmi polling-interval 60
no mmi auto-configure
no mmi pvc
mmi snmp-timeout 180
ip subnet-zero

```

```
ip tcp synwait-time 13
!
!
ip ftp username vtgrtp
ip ftp password any
ip domain name rtp.com
ip name-server 10.12.3.67
ip name-server 10.12.6.67
!
isdn switch-type primary-dms100
!
!
controller T1 1/0
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
controller T1 1/1
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
controller T1 1/2
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
controller T1 1/3
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
controller T1 1/4
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
controller T1 1/5
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
controller T1 2/0
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
controller T1 2/1
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
controller T1 2/2
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
controller T1 2/3
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
controller T1 2/4
 framing esf
```

```

linecode b8zs
pri-group timeslots 1-24 service mgcp
!
controller T1 2/5
framing esf
linecode b8zs
pri-group timeslots 1-24 service mgcp
!
controller T1 3/0
framing esf
linecode b8zs
pri-group timeslots 1-24 service mgcp
!
controller T1 3/1
framing esf
linecode b8zs
pri-group timeslots 1-24 service mgcp
!
controller T1 3/2
framing esf
linecode b8zs
pri-group timeslots 1-24 service mgcp
!
controller T1 3/3
framing esf
linecode b8zs
pri-group timeslots 1-24 service mgcp
!
controller T1 3/4
framing esf
linecode b8zs
pri-group timeslots 1-24 service mgcp
!
controller T1 3/5
framing esf
linecode b8zs
pri-group timeslots 1-24 service mgcp
!
!
interface GigabitEthernet1/0
ip address 10.12.7.114 255.255.255.240
no ip proxy-arp
no negotiation auto
no keepalive
!
interface Serial1/0:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial1/1:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial1/2:23

```

```
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial1/3:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial1/4:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial1/5:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial2/0:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial2/1:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial2/2:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial2/3:23
no ip address
```

```
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial2/4:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial2/5:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial3/0:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial3/1:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial3/2:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial3/3:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial3/4:23
no ip address
encapsulation hdlc
```



```
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial13/5:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
ip classless
ip route 0.0.0.0 0.0.0.0 10.12.7.113
!
no ip http server
no ip http secure-server
!
snmp-server community public RO
snmp-server community gbipcc RW
snmp-server enable traps snmp authentication linkdown linkup coldstart warmstart
snmp-server enable traps tty
snmp-server enable traps xgcp
snmp-server enable traps dial
snmp-server enable traps dsp card-status
snmp-server enable traps entity
snmp-server enable traps hsrp
snmp-server enable traps ipmulticast
snmp-server enable traps cpu threshold
snmp-server enable traps syslog
snmp-server enable traps voice poor-qov
snmp-server enable traps dnis
!
control-plane
!
!
voice-port 1/0:23
!
voice-port 1/1:23
!
voice-port 1/2:23
!
voice-port 1/3:23
!
voice-port 1/4:23
!
voice-port 1/5:23
!
voice-port 2/0:23
!
voice-port 2/1:23
!
voice-port 2/2:23
!
voice-port 2/3:23
!
voice-port 2/4:23
!
voice-port 2/5:23
!
voice-port 3/0:23
```

```

!
voice-port 3/1:23
!
voice-port 3/2:23
!
voice-port 3/3:23
!
voice-port 3/4:23
!
voice-port 3/5:23
!
ccm-manager redundant-host CS5-CM2
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server cs5-pub1
ccm-manager config
!
mgcp
mgcp call-agent CS5-CM1 2427 service-type mgcp version 0.1
mgcp dtmf-relay voip codec all mode out-of-band
mgcp rtp unreachable timeout 1000 action notify
mgcp modem passthrough voip mode nse
mgcp package-capability rtp-package
no mgcp package-capability res-package
mgcp package-capability sst-package
mgcp package-capability pre-package
no mgcp timer receive-rtcp
mgcp sdp simple
mgcp fax t38 inhibit
mgcp rtp payload-type g726r16 static
!
mgcp profile default
!
!
banner motd
WARNING !! UNAUTHORIZED ACCESS PROHIBITED.

!
line con 0
  privilege level 15
line vty 0 4
  exec-timeout 0 0
  privilege level 15
  no login
!
exception protocol ftp
exception dump 10.12.13.212
ntp clock-period 17180004
ntp server 10.12.3.138
!
end

```

Parent/Child Call Flow Components

Listed in this section are configuration commands for some of the components that are involved in handling the Parent/Child call flow in Test Bed 1:

- [Site1 Cisco 3600 Gatekeeper1](#)
- [Site4 Cisco 3745 Gateway1](#)
- [Site9 Cisco 3600 Gatekeeper1](#)

Site1 Cisco 3600 Gatekeeper1

```
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname CS1-3660-GK1
!
boot-start-marker
boot system flash:c3660-jsx-mz.124-5.13.T4
boot-end-marker
!
logging buffered 1000000 debugging
no logging console
enable password any
!
no aaa new-model
!
resource policy
!
clock timezone EST -5
clock summer-time EDT recurring
voice-card 1
!
voice-card 2
!
voice-card 3
!
voice-card 4
!
voice-card 5
!
!
ip cef
ip domain name rtp.com
ip name-server 10.12.3.67
ip name-server 10.12.6.67
!
!
controller T1 1/0
    framing sf
    linecode ami
!
controller T1 1/1
    framing sf
    linecode ami
!
controller T1 2/0
    framing sf
    linecode ami
```

```

!
controller T1 2/1
  framing sf
  linecode ami
!
controller T1 3/0
  framing sf
  linecode ami
!
controller T1 3/1
  framing sf
  linecode ami
!
controller T1 4/0
  framing sf
  linecode ami
!
controller T1 4/1
  framing sf
  linecode ami
!
controller T1 5/0
  framing sf
  linecode ami
!
!
interface FastEthernet0/0
  ip address 10.12.3.99 255.255.255.240
  speed 100
  full-duplex
  standby 1 ip 10.12.3.104
  standby 1 timers 1 2
  standby 1 priority 110
  standby 1 preempt
!
interface FastEthernet0/1
  ip address 10.12.1.131 255.255.255.0
  speed 100
  full-duplex
!
ip http server
ip route 0.0.0.0 0.0.0.0 10.12.3.97
!
!
snmp-server community public RO
snmp-server community private RW
snmp-server enable traps snmp authentication linkdown linkup coldstart warmstart
snmp-server enable traps vrrp
snmp-server enable traps ds1
snmp-server enable traps tty
snmp-server enable traps eigrp
snmp-server enable traps casa
snmp-server enable traps gatekeeper
snmp-server enable traps xgcp
snmp-server enable traps isdn call-information
snmp-server enable traps isdn layer2
snmp-server enable traps isdn chan-not-avail
snmp-server enable traps isdn ietf
snmp-server enable traps icsudsu
snmp-server enable traps ds3
snmp-server enable traps hsrp
snmp-server enable traps config
snmp-server enable traps entity
snmp-server enable traps cpu threshold

```

```

snmp-server enable traps config-copy
snmp-server enable traps flash insertion removal
snmp-server enable traps envmon
snmp-server enable traps ds0-busyout
snmp-server enable traps dsl-loopback
snmp-server enable traps bgp
snmp-server enable traps ospf state-change
snmp-server enable traps ospf errors
snmp-server enable traps ospf retransmit
snmp-server enable traps ospf lsa
snmp-server enable traps ospf cisco-specific state-change nssa-trans-change
snmp-server enable traps ospf cisco-specific state-change shamlink interface-old
snmp-server enable traps ospf cisco-specific state-change shamlink neighbor
snmp-server enable traps ospf cisco-specific errors
snmp-server enable traps ospf cisco-specific retransmit
snmp-server enable traps ospf cisco-specific lsa
snmp-server enable traps pim neighbor-change rp-mapping-change invalid-pim-message
snmp-server enable traps ipmulticast
snmp-server enable traps mvpn
snmp-server enable traps msdp
snmp-server enable traps rsvp
snmp-server enable traps frame-relay
snmp-server enable traps frame-relay subif
snmp-server enable traps syslog
snmp-server enable traps rtr
snmp-server enable traps bulkstat collection transfer
snmp-server enable traps mpls ldp
snmp-server enable traps mpls traffic-eng
snmp-server enable traps mpls vpn
snmp-server enable traps cnpd
snmp-server enable traps stun
snmp-server enable traps dlsw
snmp-server enable traps bstun
snmp-server enable traps pppoe
snmp-server enable traps l2tun session
snmp-server enable traps atm subif
snmp-server enable traps dial
snmp-server enable traps dsp card-status
snmp-server enable traps dsp oper-state
snmp-server enable traps ipmobile
snmp-server enable traps vtp
snmp-server enable traps vsimaster
snmp-server enable traps event-manager
snmp-server enable traps voice
snmp-server enable traps dnis
snmp-server enable traps ccme
snmp-server enable traps srst
snmp-server host 10.12.6.70 public
!
!
control-plane
!
!
gatekeeper
zone local CS1-CVP-ZONE rtp.com 10.12.3.104
zone cluster remote DC-CCM-ZONE rtp.com
  element CS1-3660-GK3 10.12.3.103 1719
  element CS4-3660-GK3 10.12.6.103 1719
!
zone cluster remote CS9-GK1 bxb.com
  element CS9-3660-GK1 10.12.10.99 1719
!
zone prefix CS1-CVP-ZONE 1111111111* gw-priority 10 CS1-3745-GW1
zone prefix DC-CCM-ZONE 21680.

```

```

zone prefix DC-CCM-ZONE 21681.
zone prefix DC-CCM-ZONE 21682.
zone prefix CS9-GK1 21683.
zone prefix CS9-GK1 21684.
zone prefix CS9-GK1 21685.
zone prefix CS1-CVP-ZONE 2194..
zone prefix DC-CCM-ZONE 24680.
zone prefix DC-CCM-ZONE 24681.
zone prefix DC-CCM-ZONE 24682.
zone prefix CS9-GK1 24683.
zone prefix CS9-GK1 24684.
zone prefix CS9-GK1 24685.
gw-type-prefix 1#* default-technology
no shutdown
!
!
line con 0
  transport output all
line aux 0
  transport output all
line vty 0 4
  exec-timeout 0 0
  password any
  login
  transport input all
  transport output all
!
ntp clock-period 17180292
ntp server 10.12.3.98
!end

```

Site4 Cisco 3745 Gateway1

```

version 12.4
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
no service password-encryption
!
hostname CS4-3745-GW1
!
boot-start-marker
boot system flash:c3745-ipvoice-mz.124-5.13.T4
boot-end-marker
!
logging buffered 1000000 debugging
no logging console
enable password any
!
no aaa new-model
!
resource policy
!
clock timezone EDT -5
clock summer-time EST recurring
no network-clock-participate slot 1
no network-clock-participate slot 2
no network-clock-participate slot 3
no network-clock-participate slot 4
voice-card 1
  no dspfarm
!
voice-card 2

```

```

no dspfarm
!
voice-card 3
no dspfarm
!
voice-card 4
no dspfarm
!
ip cef
!
!
ip domain name rtp.com
ip host isn-vxml 10.12.6.162
ip name-server 10.12.3.67
ip name-server 10.12.6.67
isdn switch-type primary-dms100
!
!
voice call carrier capacity active
!
voice service voip
h323
!
!
voice class codec 1
codec preference 1 g711ulaw
codec preference 2 g729r8
!
!
http client cache memory pool 15000
http client cache memory file 600
ivr prompt memory 15000
!
application
service vru-leg flash:bootstrap.tcl
paramspace english index 0
paramspace english language en
paramspace english location flash
paramspace english prefix en
!
service new-call flash:bootstrap.vxml
paramspace english index 0
paramspace english language en
paramspace english location flash
paramspace english prefix en
!
service survivability flash:survivability.tcl
!
service handoff flash:handoff.tcl
paramspace english index 0
paramspace english language en
paramspace english location flash
paramspace english prefix en
!
!
controller T1 1/0
framing esf
linecode b8zs
pri-group timeslots 1-24
!
controller T1 1/1
framing esf
linecode b8zs
pri-group timeslots 1-24

```

```

!
controller T1 2/0
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 2/1
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 3/0
  framing esf
  linecode b8zs
!
controller T1 3/1
  framing esf
  linecode b8zs
!
controller T1 4/0
  framing esf
  linecode b8zs
!
controller T1 4/1
  framing esf
  linecode b8zs
!
!
interface FastEthernet0/0
  ip address 10.12.6.105 255.255.255.240
  ip route-cache same-interface
  speed 100
  full-duplex
  h323-gateway voip interface
  h323-gateway voip id CS4-CVP-ZONE ipaddr 10.12.6.104 1719 priority 120
  h323-gateway voip h323-id CS4-3745-GW1
  h323-gateway voip tech-prefix 1#
  h323-gateway voip bind srcaddr 10.12.6.105
!
interface FastEthernet0/1
  no ip address
  shutdown
  duplex auto
  speed auto
!
interface Serial1/0:23
  no ip address
  encapsulation hdlc
  isdn switch-type primary-dms100
  isdn incoming-voice voice
  no cdp enable
!
interface Serial1/1:23
  no ip address
  encapsulation hdlc
  isdn switch-type primary-dms100
  isdn incoming-voice voice
  no cdp enable
!
interface Serial2/0:23
  no ip address
  encapsulation hdlc
  isdn switch-type primary-dms100
  isdn incoming-voice voice

```



```
no cdp enable
!
interface Serial2/1:23
no ip address
encapsulation hdslc
isdn switch-type primary-dms100
isdn incoming-voice voice
no cdp enable
!
ip route 0.0.0.0 0.0.0.0 10.12.6.97
!
ip http server
ip http authentication local
ip http timeout-policy idle 600 life 86400 requests 10000
!
snmp-server community gbipcc RW
snmp-server community public RO
snmp-server community private RW
snmp-server system-shutdown
snmp-server enable traps snmp authentication linkdown linkup coldstart warmstart
snmp-server enable traps vrrp
snmp-server enable traps tty
snmp-server enable traps xgcp
snmp-server enable traps flash insertion removal
snmp-server enable traps envmon
snmp-server enable traps icsudsu
snmp-server enable traps isdn call-information
snmp-server enable traps isdn layer2
snmp-server enable traps isdn chan-not-avail
snmp-server enable traps isdn ietf
snmp-server enable traps ds0-busyout
snmp-server enable traps dsl-loopback
snmp-server enable traps atm subif
snmp-server enable traps cnpd
snmp-server enable traps config-copy
snmp-server enable traps config
snmp-server enable traps dial
snmp-server enable traps dsp card-status
snmp-server enable traps entity
snmp-server enable traps frame-relay
snmp-server enable traps frame-relay subif
snmp-server enable traps hsrp
snmp-server enable traps ipmulticast
snmp-server enable traps ospf state-change
snmp-server enable traps ospf errors
snmp-server enable traps ospf retransmit
snmp-server enable traps ospf lsa
snmp-server enable traps ospf cisco-specific state-change nssa-trans-change
snmp-server enable traps ospf cisco-specific state-change shamlink interface
snmp-server enable traps ospf cisco-specific state-change shamlink neighbor
snmp-server enable traps ospf cisco-specific errors
snmp-server enable traps ospf cisco-specific retransmit
snmp-server enable traps ospf cisco-specific lsa
snmp-server enable traps pim neighbor-change rp-mapping-change invalid-pim-message
snmp-server enable traps pppoe
snmp-server enable traps cpu threshold
snmp-server enable traps rsvp
snmp-server enable traps rtr
snmp-server enable traps syslog
snmp-server enable traps l2tun session
snmp-server enable traps vtp
snmp-server enable traps voice poor-qov
snmp-server enable traps dnis
snmp-server host 10.12.6.70 public
```

```

!
!
control-plane
!
!
voice-port 1/0:23
!
voice-port 1/1:23
!
voice-port 2/0:23
!
voice-port 2/1:23
!
!
dial-peer cor custom
!
!
dial-peer voice 1 voip
tech-prefix 1#
!
dial-peer voice 1000 voip
service vru-leg
session target ras
incoming called-number 4444444444T
dtmf-relay rtp-nte h245-signal h245-alphanumeric
codec g711ulaw
no vad
!
dial-peer voice 1001 voip
destination-pattern 2494..
voice-class codec 1
session target ras
incoming called-number 2494..
tech-prefix 2#
dtmf-relay rtp-nte h245-signal h245-alphanumeric
no vad
!
dial-peer voice 2000 pots
incoming called-number 2494..
no digit-strip
direct-inward-dial
port 1/0:23
!
gateway
timer receive-rtp 1200
!
!
line con 0
exec-timeout 0 0
privilege level 15
line aux 0
line vty 0 4
exec-timeout 0 0
password any
login
line vty 5 99
no login
!
ntp clock-period 17179308
ntp server 10.12.6.98
!
end

```

Site9 Cisco 3600 Gatekeeper1

```
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname CS9-3660-GK1
!
boot-start-marker
boot system flash:c3660-jsx-mz.124-5.13.T4
boot-end-marker
!
logging buffered 1000000 debugging
no logging console
enable password any

!
no aaa new-model
!
resource policy
!
memory-size iomem 10
clock timezone EST -5
clock summer-time EDT recurring
!
!
ip cef
ip domain name bxb.com
ip name-server 10.12.10.67
!
!
interface FastEthernet0/0
ip address 10.12.10.99 255.255.255.240
speed 100
full-duplex
!
interface FastEthernet5/0
ip address 10.12.1.153 255.255.255.0
speed 100
full-duplex
!
interface Serial5/0
no ip address
shutdown
clock rate 2000000
!
interface FastEthernet5/1
no ip address
shutdown
duplex auto
speed auto
!
interface Serial5/1
no ip address
shutdown
clock rate 2000000
!
ip http server
ip route 0.0.0.0 0.0.0.0 10.12.10.97
!
!
snmp-server community public RO
```

```

snmp-server community private RW
snmp-server enable traps snmp authentication linkdown linkup coldstart warmstart
snmp-server enable traps vrrp
snmp-server enable traps tty
snmp-server enable traps casa
snmp-server enable traps gatekeeper
snmp-server enable traps xgcp
snmp-server enable traps isdn call-information
snmp-server enable traps isdn layer2
snmp-server enable traps isdn chan-not-avail
snmp-server enable traps isdn ietf
snmp-server enable traps icsudsu
snmp-server enable traps hsrp
snmp-server enable traps config
snmp-server enable traps entity
snmp-server enable traps cpu threshold
snmp-server enable traps config-copy
snmp-server enable traps flash insertion removal
snmp-server enable traps envmon
snmp-server enable traps ds0-busyout
snmp-server enable traps ds1-loopback
snmp-server enable traps bgp
snmp-server enable traps ospf state-change
snmp-server enable traps ospf errors
snmp-server enable traps ospf retransmit
snmp-server enable traps ospf lsa
snmp-server enable traps ospf cisco-specific state-change nssa-trans-change
snmp-server enable traps ospf cisco-specific state-change shamlink interface
snmp-server enable traps ospf cisco-specific state-change shamlink neighbor
snmp-server enable traps ospf cisco-specific errors
snmp-server enable traps ospf cisco-specific retransmit
snmp-server enable traps ospf cisco-specific lsa
snmp-server enable traps pim neighbor-change rp-mapping-change invalid-pim-message
snmp-server enable traps ipmulticast
snmp-server enable traps msdp
snmp-server enable traps rsvp
snmp-server enable traps frame-relay
snmp-server enable traps frame-relay subif
snmp-server enable traps syslog
snmp-server enable traps rtr
snmp-server enable traps bulkstat collection transfer
snmp-server enable traps mpls ldp
snmp-server enable traps mpls traffic-eng
snmp-server enable traps mpls vpn
snmp-server enable traps cnpd
snmp-server enable traps stun
snmp-server enable traps dlsw
snmp-server enable traps bstun
snmp-server enable traps pppoe
snmp-server enable traps l2tun session
snmp-server enable traps atm subif
snmp-server enable traps dial
snmp-server enable traps dsp card-status
snmp-server enable traps ipmobile
snmp-server enable traps vtp
snmp-server enable traps vsimaster
snmp-server enable traps voice poor-gov
snmp-server enable traps dnis
snmp-server host 10.12.6.70 public
!
!
control-plane
!
!
```

```

gatekeeper
zone local CS9-GK1 bxb.com 10.12.10.99
zone cluster remote DC-CCM-ZONE rtp.com
  element CS1-3660-GK3 10.12.3.103 1719
  element CS4-3660-GK3 10.12.6.103 1719
!
zone prefix DC-CCM-ZONE 21....
zone prefix DC-CCM-ZONE 22....
zone prefix DC-CCM-ZONE 23....
zone prefix DC-CCM-ZONE 24....
zone prefix CS9-GK1 39....
gw-type-prefix 1#* default-technology
no shutdown
!
!
line con 0
  transport output all
line aux 0
  transport output all
line vty 0 4
  password any
  login
!
ntp clock-period 17180253
ntp server 10.12.10.98
!
end

```

Cisco Unified Outbound Dialer Call Flow Components

Listed in this section are configuration commands for the Cisco 3745 gateway that is involved in handling the Cisco Unified Outbound Dialer Call Flow in Test Bed 1:

- [Site6 Cisco 3745 Gateway1](#)

Site6 Cisco 3745 Gateway1

```

version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname CS6-3745-GW1
!
boot-start-marker
boot system flash:c3745-ipvoice-mz.124-5.13.T4
boot-end-marker
!
enable password any
!
no aaa new-model
!
resource policy
!
clock timezone EST -5
clock summer-time EDT recurring
no network-clock-participate slot 1
no network-clock-participate slot 2
no network-clock-participate slot 3
no network-clock-participate slot 4

```

```

voice-card 1
  dspfarm
!
voice-card 2
  dspfarm
!
voice-card 3
  dspfarm
!
voice-card 4
  dspfarm
!
ip cef
!
!
ip domain name rtp.com
ip name-server 10.12.6.67
ip name-server 10.12.3.67
isdn switch-type primary-dms100
!
!
controller T1 1/0
  framing esf
  linecode b8zs
  pri-group timeslots 1-24 service mgcp
!
controller T1 1/1
  framing esf
  linecode b8zs
  pri-group timeslots 1-24 service mgcp
!
controller T1 2/0
  framing esf
  linecode b8zs
  pri-group timeslots 1-24 service mgcp
!
controller T1 2/1
  framing esf
  linecode b8zs
  pri-group timeslots 1-24 service mgcp
!
controller T1 3/0
  framing esf
  linecode b8zs
  pri-group timeslots 1-24 service mgcp
!
controller T1 3/1
  framing esf
  linecode b8zs
  pri-group timeslots 1-24 service mgcp
!
controller T1 4/0
  framing esf
  linecode b8zs
  pri-group timeslots 1-24 service mgcp
!
controller T1 4/1
  framing esf
  linecode b8zs
  pri-group timeslots 1-24 service mgcp
!
!
!
!

```

```
interface FastEthernet0/0
  ip address 10.12.8.114 255.255.255.248
  speed 100
  full-duplex
!
interface FastEthernet0/1
  ip address 10.12.1.148 255.255.255.0
  speed 100
  full-duplex
!
interface Serial1/0:23
  no ip address
  encapsulation hdlc
  isdn switch-type primary-dms100
  isdn incoming-voice voice
  isdn bind-13 ccm-manager
  no cdp enable
!
interface Serial1/1:23
  no ip address
  encapsulation hdlc
  isdn switch-type primary-dms100
  isdn incoming-voice voice
  isdn bind-13 ccm-manager
  no cdp enable
!
interface Serial2/0:23
  no ip address
  encapsulation hdlc
  isdn switch-type primary-dms100
  isdn incoming-voice voice
  isdn bind-13 ccm-manager
  no cdp enable
!
interface Serial2/1:23
  no ip address
  encapsulation hdlc
  isdn switch-type primary-dms100
  isdn incoming-voice voice
  isdn bind-13 ccm-manager
  no cdp enable
!
interface Serial3/0:23
  no ip address
  encapsulation hdlc
  isdn switch-type primary-dms100
  isdn incoming-voice voice
  isdn bind-13 ccm-manager
  no cdp enable
!
interface Serial3/1:23
  no ip address
  encapsulation hdlc
  isdn switch-type primary-dms100
  isdn incoming-voice voice
  isdn bind-13 ccm-manager
  no cdp enable
!
interface Serial4/0:23
  no ip address
  encapsulation hdlc
  isdn switch-type primary-dms100
  isdn incoming-voice voice
  isdn bind-13 ccm-manager
```

```

no cdp enable
!
interface Serial4/1:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
ip route 0.0.0.0 0.0.0.0 10.12.8.113
!
ip http server
!
snmp-server community public RO
snmp-server community private RW
snmp-server enable traps snmp authentication linkdown linkup coldstart warmstart
snmp-server enable traps vrrp
snmp-server enable traps ds1
snmp-server enable traps tty
snmp-server enable traps eigrp
snmp-server enable traps xgcp
snmp-server enable traps flash insertion removal
snmp-server enable traps ds3
snmp-server enable traps envmon
snmp-server enable traps icsudsu
snmp-server enable traps isdn call-information
snmp-server enable traps isdn layer2
snmp-server enable traps isdn chan-not-avail
snmp-server enable traps isdn ietf
snmp-server enable traps ds0-busyout
snmp-server enable traps ds1-loopback
snmp-server enable traps atm subif
snmp-server enable traps cnpd
snmp-server enable traps config-copy
snmp-server enable traps config
snmp-server enable traps dial
snmp-server enable traps dsp card-status
snmp-server enable traps entity
snmp-server enable traps event-manager
snmp-server enable traps frame-relay
snmp-server enable traps frame-relay subif
snmp-server enable traps hsrp
snmp-server enable traps ipmulticast
snmp-server enable traps msdp
snmp-server enable traps mvpn
snmp-server enable traps ospf state-change
snmp-server enable traps ospf errors
snmp-server enable traps ospf retransmit
snmp-server enable traps ospf lsa
snmp-server enable traps ospf cisco-specific state-change nssa-trans-change
snmp-server enable traps ospf cisco-specific state-change shamlink interface-old
snmp-server enable traps ospf cisco-specific state-change shamlink neighbor
snmp-server enable traps ospf cisco-specific errors
snmp-server enable traps ospf cisco-specific retransmit
snmp-server enable traps ospf cisco-specific lsa
snmp-server enable traps pim neighbor-change rp-mapping-change invalid-pim-message
snmp-server enable traps pppoe
snmp-server enable traps cpu threshold
snmp-server enable traps rsvp
snmp-server enable traps rtr
snmp-server enable traps syslog
snmp-server enable traps l2tun session
snmp-server enable traps vtp

```



```
snmp-server enable traps voice fallback poor-gov
snmp-server enable traps dnis
snmp-server host 10.12.6.70 public
!
!
control-plane
!
!
voice-port 1/0:23
!
voice-port 1/1:23
!
voice-port 2/0:23
!
voice-port 2/1:23
!
voice-port 3/0:23
!
voice-port 3/1:23
!
voice-port 4/0:23
!
voice-port 4/1:23
!
ccm-manager redundant-host CS5-CM1
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server 10.12.7.2
ccm-manager config
!
mgcp
mgcp call-agent CS5-CM2 2427 service-type mgcp version 0.1
mgcp dtmf-relay voip codec all mode out-of-band
mgcp rtp unreachable timeout 1000 action notify
mgcp modem passthrough voip mode nse
mgcp package-capability rtp-package
no mgcp package-capability res-package
mgcp package-capability sst-package
no mgcp package-capability fxr-package
mgcp package-capability pre-package
no mgcp timer receive-rtcp
mgcp sdp simple
mgcp fax t38 inhibit
mgcp rtp payload-type g726r16 static
!
mgcp profile default
!
!
line con 0
line aux 0
line vty 0 4
  password any
  login
!
!
end
```

Test Bed 2 Call Flows

Cisco Unified Customer Voice Portal Post-Routed Call Flow Components

Listed in this section are configuration commands for some of the components that are involved in handling the Cisco Unified Customer Voice Portal (Unified CVP) Post-Routed Call Flow in Test Bed 2:

- [Site1 Cisco 3600 Gatekeeper 1](#)
- [Site3 Cisco AS5400HPX Gateway1 \(PSTN\)](#)
- [Site5 Cisco Content Services Switch2](#)
- [Site6 Cisco AS5400HPX Gateway2 \(PSTN and VXML\)](#)
- [Site6 Cisco7206VXR Router](#)
- [Site7 Cisco 6506 MSFC Switch](#)
- [Site8 Cisco 3845 Gateway1](#)

Site1 Cisco 3600 Gatekeeper 1

```

version 12.4
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname PS1-3660-GK1
!
boot-start-marker
boot system flash:c3660-jsx-mz.124-4.7.PI3b
boot-end-marker
!
logging buffered 100000000 debugging
no logging console
enable password any
!
no aaa new-model
!
resource policy
!
clock timezone EST -5
clock summer-time EDT recurring
voice-card 3
!
voice-card 4
!
!
ip cef
ip domain name sjc.com
ip name-server 10.12.11.67
ip name-server 10.12.15.67
!
!
controller T1 1/0
 framing sf
 linecode ami
!
controller T1 1/1
 framing sf

```

```
    linecode ami
!
controller T1 1/2
    framing sf
    linecode ami
!
controller T1 1/3
    framing sf
    linecode ami
!
controller T1 2/0
    framing sf
    linecode ami
!
controller T1 2/1
    framing sf
    linecode ami
!
controller T1 2/2
    framing sf
    linecode ami
!
controller T1 2/3
    framing sf
    linecode ami
!
controller T1 3/0
    framing sf
    linecode ami
!
controller T1 4/0
    framing sf
    linecode ami
!
controller T1 4/1
    framing sf
    linecode ami
!
!
interface FastEthernet0/0
    ip address 10.12.11.100 255.255.255.240
    speed 100
    full-duplex
    standby 1 ip 10.12.11.99
    standby 1 timers 1 2
    standby 1 priority 110
    standby 1 preempt
!
interface FastEthernet0/1
    ip address 10.12.1.3 255.255.255.0
    speed 100
    full-duplex
!
ip http server
ip route 0.0.0.0 0.0.0.0 10.12.11.97
!
!
snmp-server community private RW
snmp-server community public RO
snmp-server enable traps snmp authentication linkdown linkup coldstart warmstart
snmp-server enable traps vrrp
snmp-server enable traps tty
snmp-server enable traps casa
snmp-server enable traps gatekeeper
```

```

snmp-server enable traps xgcp
snmp-server enable traps isdn call-information
snmp-server enable traps isdn layer2
snmp-server enable traps isdn chan-not-avail
snmp-server enable traps isdn ietf
snmp-server enable traps icsudsu
snmp-server enable traps hsrp
snmp-server enable traps config
snmp-server enable traps entity
snmp-server enable traps cpu threshold
snmp-server enable traps config-copy
snmp-server enable traps flash insertion removal
snmp-server enable traps envmon
snmp-server enable traps ds0-busyout
snmp-server enable traps ds1-loopback
snmp-server enable traps bgp
snmp-server enable traps ospf state-change
snmp-server enable traps ospf errors
snmp-server enable traps ospf retransmit
snmp-server enable traps ospf lsa
snmp-server enable traps ospf cisco-specific state-change nssa-trans-change
snmp-server enable traps ospf cisco-specific state-change shamlink interface
snmp-server enable traps ospf cisco-specific state-change shamlink neighbor
snmp-server enable traps ospf cisco-specific errors
snmp-server enable traps ospf cisco-specific retransmit
snmp-server enable traps ospf cisco-specific lsa
snmp-server enable traps pim neighbor-change rp-mapping-change invalid-pim-message
snmp-server enable traps ipmulticast
snmp-server enable traps msdp
snmp-server enable traps rsvp
snmp-server enable traps frame-relay
snmp-server enable traps frame-relay subif
snmp-server enable traps syslog
snmp-server enable traps rtr
snmp-server enable traps bulkstat collection transfer
snmp-server enable traps mpls ldp
snmp-server enable traps mpls traffic-eng
snmp-server enable traps mpls vpn
snmp-server enable traps cnpd
snmp-server enable traps stun
snmp-server enable traps dlsw
snmp-server enable traps bstun
snmp-server enable traps pppoe
snmp-server enable traps l2tun session
snmp-server enable traps atm subif
snmp-server enable traps dial
snmp-server enable traps dsp card-status
snmp-server enable traps ipmobile
snmp-server enable traps vtp
snmp-server enable traps vsimaster
snmp-server enable traps voice poor-gov
snmp-server enable traps dnis
snmp-server host 10.12.15.56 public
!
!
control-plane
!
!
dial-peer cor custom
!
!
gatekeeper
zone local PS1-CVP-ZONE sjc.com 10.12.11.99
zone local DC-CCM-ZONE sjc.com

```

```

zone local PS3-CCM-ZONE sjc.com
zone local PS7-CCM-ZONE sjc.com
zone prefix PS1-CVP-ZONE 116... gw-priority 10 ps1-cvp5
zone prefix DC-CCM-ZONE 11....
zone prefix PS3-CCM-ZONE 13....
zone prefix DC-CCM-ZONE 15....
zone prefix DC-CCM-ZONE 16....
zone prefix PS7-CCM-ZONE 171...
zone prefix PS7-CCM-ZONE 173...
zone prefix DC-CCM-ZONE 17....
zone prefix DC-CCM-ZONE 18....
zone prefix PS3-CCM-ZONE 313....
zone prefix PS1-CVP-ZONE 3333333333* gw-priority 10 PS3-3825-GW2 PS3-3825-GW1
zone prefix PS1-CVP-ZONE 3613138... gw-priority 10 ps1-cvp1
zone prefix PS1-CVP-ZONE 3613138... gw-priority 5 ps1-cvp2
zone prefix PS1-CVP-ZONE 3613139... gw-priority 10 ps1-cvp1
zone prefix PS1-CVP-ZONE 3613139... gw-priority 5 ps1-cvp2
zone prefix PS1-CVP-ZONE 5317178... gw-priority 10 ps1-cvp1
zone prefix PS1-CVP-ZONE 5317178... gw-priority 5 ps1-cvp2
zone prefix PS1-CVP-ZONE 5317179... gw-priority 10 ps1-cvp1
zone prefix PS1-CVP-ZONE 5317179... gw-priority 5 ps1-cvp2
zone prefix PS1-CVP-ZONE 6016168... gw-priority 10 ps1-cvp2
zone prefix PS1-CVP-ZONE 6016168... gw-priority 5 ps1-cvp1
zone prefix PS1-CVP-ZONE 6016169... gw-priority 10 ps1-cvp2
zone prefix PS1-CVP-ZONE 6016169... gw-priority 5 ps1-cvp1
zone prefix DC-CCM-ZONE 616....
zone prefix PS1-CVP-ZONE 6618188... gw-priority 10 ps1-cvp2
zone prefix PS1-CVP-ZONE 6618188... gw-priority 5 ps1-cvp1
zone prefix PS1-CVP-ZONE 6618189... gw-priority 10 ps1-cvp2
zone prefix PS1-CVP-ZONE 6618189... gw-priority 5 ps1-cvp1
zone prefix PS1-CVP-ZONE 6666666666* gw-priority 10 PS6-5400-GW1 PS6-5400-GW2
PS6-5400-GW3 PS6-5400-GW4
zone prefix PS7-CCM-ZONE 7171...
zone prefix DC-CCM-ZONE 717....
zone prefix PS1-CVP-ZONE 7777777777* gw-priority 10 PS7-3745-GW1
zone prefix DC-CCM-ZONE 818....
zone prefix PS1-CVP-ZONE 8888888888* gw-priority 10 PS8-3845-GW1
zone prefix PS1-CVP-ZONE 919472.... gw-priority 10 PS6-5400-GW4
zone prefix PS1-CVP-ZONE 91950.... gw-priority 10 PS6-5400-GW5
gw-type-prefix 1#* default-technology
no shutdown
!
!
line con 0
line aux 0
line vty 0 4
  exec-timeout 0 0
  password any
  login
!
ntp clock-period 17180393
ntp server 10.12.11.98
!
end

```

Site3 Cisco AS5400HPX Gateway1 (PSTN)

```

! No configuration change since last restart
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec

```

```
no service password-encryption
!  
hostname PS3-5400-GW1
!  
boot-start-marker  
boot system flash:c5400-is-mz.124-5.13.T2  
no boot startup-test  
boot-end-marker  
!  
enable password any  
!  
!  
resource-pool disable  
no aaa new-model  
!  
resource policy  
!  
clock timezone EST -5  
clock summer-time EDT recurring  
spe default-firmware spe-firmware-1  
!  
!  
ip cef  
ip domain name sjc.com  
ip name-server 10.12.11.67  
ip name-server 10.12.15.67  
!  
!  
isdn switch-type primary-dms100  
!  
!  
voice class codec 1  
  codec preference 1 g711ulaw  
  codec preference 2 g729r8  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
controller T1 6/0  
  framing esf  
  linecode b8zs  
  pri-group timeslots 1-24  
!  
controller T1 6/1  
  framing esf  
  linecode b8zs  
  pri-group timeslots 1-24  
!  
controller T1 6/2  
  framing esf  
  linecode b8zs  
  pri-group timeslots 1-24  
!
```

```
controller T1 6/3
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 6/4
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 6/5
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 6/6
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 6/7
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 7/0
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 7/1
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 7/2
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 7/3
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 7/4
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 7/5
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 7/6
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 7/7
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
```

```

!
!
!
interface FastEthernet0/0
 ip address 10.12.13.101 255.255.255.240
 duplex full
 speed 100
 h323-gateway voip interface
 h323-gateway voip id PS1-CVP-ZONE ipaddr 10.12.11.99 1719 priority 120
 h323-gateway voip h323-id PS3-5400-GW1
 h323-gateway voip tech-prefix 1#
!
interface FastEthernet0/1
 ip address 10.12.1.12 255.255.255.0
 duplex full
 speed 100
!
interface Serial0/0
 no ip address
 shutdown
 clock rate 2000000
!
interface Serial6/0
 no ip address
 shutdown
!
interface Serial7/0
 no ip address
 shutdown
!
interface Serial0/1
 no ip address
 shutdown
 clock rate 2000000
!
interface Serial6/0:23
 no ip address
 encapsulation hdlc
 isdn switch-type primary-dms100
 isdn incoming-voice modem
 no cdp enable
!
interface Serial6/1:23
 no ip address
 encapsulation hdlc
 isdn switch-type primary-dms100
 isdn incoming-voice modem
 no cdp enable
!
interface Serial6/2:23
 no ip address
 encapsulation hdlc
 isdn switch-type primary-dms100
 isdn incoming-voice modem
 no cdp enable
!
interface Serial6/3:23
 no ip address
 encapsulation hdlc
 isdn switch-type primary-dms100
 isdn incoming-voice modem
 no cdp enable
!
interface Serial6/4:23

```



```
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial6/5:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial6/6:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial6/7:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
isdn T310 60000
no cdp enable
!
interface Serial7/0:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial7/1:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial7/2:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial7/3:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial7/4:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial7/5:23
```

```

no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial7/6:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial7/7:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Group-Async0
no ip address
encapsulation slip
group-range 1/00 5/107
!
!
ip route 0.0.0.0 0.0.0.0 10.12.13.97
no ip http server
!
!
snmp-server community private RW
snmp-server community public RO
snmp-server enable traps snmp authentication linkdown linkup coldstart warmstart
snmp-server enable traps vrrp
snmp-server enable traps calltracker
snmp-server enable traps tty
snmp-server enable traps xgcp
snmp-server enable traps modem-health
snmp-server enable traps ds0-busyout
snmp-server enable traps ds1-loopback
snmp-server enable traps cnpd
snmp-server enable traps isdn call-information
snmp-server enable traps isdn layer2
snmp-server enable traps isdn chan-not-avail
snmp-server enable traps isdn ietf
snmp-server enable traps fru-ctrl
snmp-server enable traps flash insertion removal
snmp-server enable traps hsrp
snmp-server enable traps config
snmp-server enable traps entity
snmp-server enable traps cpu threshold
snmp-server enable traps config-copy
snmp-server enable traps envmon
snmp-server enable traps aaa_server
snmp-server enable traps bgp
snmp-server enable traps ospf state-change
snmp-server enable traps ospf errors
snmp-server enable traps ospf retransmit
snmp-server enable traps ospf lsa
snmp-server enable traps ospf cisco-specific state-change nssa-trans-change
snmp-server enable traps ospf cisco-specific state-change shamlink interface
snmp-server enable traps ospf cisco-specific state-change shamlink neighbor
snmp-server enable traps ospf cisco-specific errors
snmp-server enable traps ospf cisco-specific retransmit

```

```
snmp-server enable traps ospf cisco-specific lsa
snmp-server enable traps pim neighbor-change rp-mapping-change invalid-pim-message
snmp-server enable traps ipmulticast
snmp-server enable traps msdp
snmp-server enable traps rsvp
snmp-server enable traps frame-relay
snmp-server enable traps frame-relay subif
snmp-server enable traps rtr
snmp-server enable traps syslog
snmp-server enable traps stun
snmp-server enable traps dslw
snmp-server enable traps bstun
snmp-server enable traps pppoe
snmp-server enable traps l2tun session
snmp-server enable traps dial
snmp-server enable traps dsp card-status
snmp-server enable traps voice poor-qov
snmp-server enable traps dnis
snmp-server host 10.12.15.56 public
!
!
!
control-plane
!
!
!
voice-port 6/0:D
!
voice-port 6/1:D
!
voice-port 6/2:D
!
voice-port 6/3:D
!
voice-port 6/4:D
!
voice-port 6/5:D
!
voice-port 6/6:D
!
voice-port 6/7:D
!
voice-port 7/0:D
!
voice-port 7/1:D
!
voice-port 7/2:D
!
voice-port 7/3:D
!
voice-port 7/4:D
!
voice-port 7/5:D
!
voice-port 7/6:D
!
voice-port 7/7:D
!
!
!
dial-peer voice 1 voip
    tech-prefix 1#
!
dial-peer voice 1000 voip
```

```
destination-pattern 361313[8-9]...
voice-class codec 1
session target ras
incoming called-number 361313[8-9]...
tech-prefix 2#
dtmf-relay rtp-nte h245-signal h245-alphanumeric
no vad
!
dial-peer voice 2000 pots
incoming called-number 361313[8-9]...
no digit-strip
direct-inward-dial
port 6/0:D
!
dial-peer voice 2001 pots
incoming called-number 361313[8-9]...
no digit-strip
direct-inward-dial
port 6/1:D
!
dial-peer voice 2002 pots
incoming called-number 361313[8-9]...
no digit-strip
direct-inward-dial
port 6/2:D
!
dial-peer voice 2003 pots
incoming called-number 361313[8-9]...
no digit-strip
direct-inward-dial
port 6/3:D
!
dial-peer voice 2004 pots
incoming called-number 361313[8-9]...
no digit-strip
direct-inward-dial
port 6/4:D
!
dial-peer voice 2005 pots
incoming called-number 361313[8-9]...
no digit-strip
direct-inward-dial
port 6/5:D
!
dial-peer voice 2006 pots
incoming called-number 361313[8-9]...
no digit-strip
direct-inward-dial
port 6/6:D
!
dial-peer voice 2007 pots
incoming called-number 361313[8-9]...
no digit-strip
direct-inward-dial
port 6/7:D
!
dial-peer voice 2008 pots
incoming called-number 361313[8-9]...
no digit-strip
direct-inward-dial
port 7/0:D
!
dial-peer voice 2009 pots
incoming called-number 361313[8-9]...
```

```
no digit-strip
direct-inward-dial
port 7/1:D
!
dial-peer voice 2010 pots
incoming called-number 361313[8-9]...
no digit-strip
direct-inward-dial
port 7/2:D
!
dial-peer voice 2011 pots
incoming called-number 361313[8-9]...
no digit-strip
direct-inward-dial
port 7/3:D
!
dial-peer voice 2012 pots
incoming called-number 361313[8-9]...
no digit-strip
direct-inward-dial
port 7/4:D
!
dial-peer voice 2013 pots
incoming called-number 361313[8-9]...
no digit-strip
direct-inward-dial
port 7/5:D
!
dial-peer voice 2014 pots
incoming called-number 361313[8-9]...
no digit-strip
direct-inward-dial
port 7/6:D
!
dial-peer voice 2015 pots
incoming called-number 361313[8-9]...
no digit-strip
direct-inward-dial
port 7/7:D
!
!
gateway
timer receive-rtcp 1200
!
ss7 mtp2-variant Bellcore 0
ss7 mtp2-variant Bellcore 1
ss7 mtp2-variant Bellcore 2
ss7 mtp2-variant Bellcore 3
!
line con 0
exec-timeout 0 0
line aux 0
line vty 0 4
exec-timeout 0 0
password any
login
line 1/00 2/59
modem InOut
line 3/00 3/107
modem InOut
line 5/00 5/107
modem InOut
!
scheduler allocate 10000 400
```

```
ntp clock-period 17179977
ntp server 10.12.13.98
end
```

Site5 Cisco Content Services Switch2

```
!Active version: sg0740202

configure

!***** GLOBAL *****

username lab des-password any

sntp primary-server 10.12.1.1 version 1

sntp primary-server-poll-interval 120

cdp run

snmp community gbipcc read-write

dns primary 10.12.11.67

dns secondary 10.12.15.67

dns suffix sjc.com

ftp-record DEFAULT_FTP 10.12.1.254 administrator des-password any

ip route 0.0.0.0 0.0.0.0 10.12.15.97 1

!***** INTERFACE *****

interface e1

phy 100Mbps-FD

interface e2

phy 100Mbps-FD

bridge vlan 2

!***** CIRCUIT *****

circuit VLAN1

ip address 10.12.15.102 255.255.255.240

circuit VLAN2

ip address 10.12.1.17 255.255.255.0

!***** SERVICE *****

service PS1-CVP1

ip address 10.12.11.50

keepalive retryperiod 2
```

```
    keepalive maxfailure 1

    keepalive type script ap-kal-httpvxml "10.12.11.50"

    active

service PS1-CVP2

    ip address 10.12.11.51

    keepalive retryperiod 2

    keepalive maxfailure 1

    keepalive type script ap-kal-httpvxml "10.12.11.51"

    active

service PS1-MS1

    type redirect

    port 80

    keepalive type http

    keepalive retryperiod 2

    keepalive maxfailure 1

    keepalive uri "/postinfo.html"

    ip address 10.12.11.55

    domain 10.12.11.55

    active

service PS5-CVP3

    keepalive retryperiod 2

    keepalive maxfailure 1

    ip address 10.12.15.50

    keepalive type script ap-kal-httpvxml "10.12.15.50"

    active

service PS5-CVP4

    keepalive retryperiod 2

    keepalive maxfailure 1

    ip address 10.12.15.51

    keepalive type script ap-kal-httpvxml "10.12.15.51"

    active

service PS5-MS2
```

```
port 80

keepalive type http

keepalive retryperiod 2

keepalive maxfailure 1

keepalive uri "/postinfo.html"

ip address 10.12.15.55

domain 10.12.15.55

active

service PS6-ASRTTS1

protocol tcp

keepalive retryperiod 2

keepalive maxfailure 1

keepalive type tcp

keepalive port 554

ip address 10.12.16.68

port 554

active

service PS6-ASRTTS2

protocol tcp

keepalive retryperiod 2

keepalive maxfailure 1

keepalive type tcp

keepalive port 554

ip address 10.12.16.69

port 554

active

!***** OWNER *****

owner GB

content APPSERVERS

protocol tcp

port 8000

add service PS5-CVP3
```



```
    add service PS5-CVP4
    vip address 10.12.15.107
    active
content ASRTTS
    protocol tcp
    port 554
    add service PS6-ASRTTS1
    add service PS6-ASRTTS2
    primarySorryServer PS6-ASRTTS2
    vip address 10.12.15.108
    active
content MEDIA
    primarySorryServer PS5-MS2
    protocol tcp
    port 80
    url "/@"
    add service PS1-MS1
    add service PS5-MS2
    vip address 10.12.15.109
    active
!***** GROUP *****
group appservers
    add destination service PS5-CVP3
    add destination service PS5-CVP4
    vip address 10.12.15.107
    active
group asrttsservers
    add destination service PS6-ASRTTS2
    vip address 10.12.15.108
    active
group mediaservers
    add destination service PS5-MS2
```

```

vip address 10.12.15.109

active

```

Site6 Cisco AS5400HPX Gateway2 (PSTN and VXML)

```

version 12.4
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname PS6-5400-GW2
!
boot-start-marker
boot system flash:c5400-is-mz.124-5.13.T2
no boot startup-test
boot-end-marker
!
enable secret 5 $1$YEs4$TVzBq7J3hGqy6eftfbtMF.
enable password any
!
!
!
resource-pool disable
no aaa new-model
!
resource policy
!
clock timezone EST -5
clock summer-time EDT recurring
spe default-firmware spe-firmware-1
!
!
ip cef
ip domain name sjc.com
ip host asr-en-us 10.12.16.68
ip host tts-en-us 10.12.16.68
ip host isn-vxml-backup 10.12.11.50
ip host isn-vxml 10.12.11.51
ip host tts-en-us-backup 10.12.16.68
ip host asrtts-en-us 10.12.16.68
ip name-server 10.12.15.67
ip name-server 10.12.11.67
!
!
isdn switch-type primary-dms100
!
!
voice service voip
  fax protocol t38 ls-redundancy 0 hs-redundancy 0 fallback none
  h323
  modem passthrough none codec g729r8 pre-ietf
!
!
voice class codec 1
  codec preference 1 g711ulaw
!
!
ivr asr-server rtsp://10.12.16.68/media/speechrecognizer
ivr tts-server rtsp://10.12.16.68/media/speechsynthesizer
!
application

```

```
service vru-leg flash:bootstrap.tcl
  paramspace english index 0
  paramspace english language en
  paramspace english location flash
  paramspace english prefix en
!
service new-call flash:bootstrap.vxml
  paramspace english index 0
  paramspace english language en
  paramspace english location flash
  paramspace english prefix en
!
service handoff flash:handoff.tcl
  paramspace english index 0
  paramspace english language en
  paramspace english location flash
  paramspace english prefix en
!
!
!
fax interface-type fax-mail
!
!
controller T1 6/0
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 6/1
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 6/2
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 6/3
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 6/4
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 6/5
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 6/6
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 6/7
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 7/0
```

```

framing esf
linecode b8zs
pri-group timeslots 1-24
!
controller T1 7/1
framing esf
linecode b8zs
pri-group timeslots 1-24
!
controller T1 7/2
framing esf
linecode b8zs
pri-group timeslots 1-24
!
controller T1 7/3
framing esf
linecode b8zs
pri-group timeslots 1-24
!
controller T1 7/4
framing esf
linecode b8zs
pri-group timeslots 1-24
!
controller T1 7/5
framing esf
linecode b8zs
pri-group timeslots 1-24
!
controller T1 7/6
framing esf
linecode b8zs
pri-group timeslots 1-24
!
controller T1 7/7
framing esf
linecode b8zs
pri-group timeslots 1-24
!
!
interface FastEthernet0/0
ip address 10.12.16.102 255.255.255.240
duplex full
speed 100
h323-gateway voip interface
h323-gateway voip id PS1-CVP-ZONE ipaddr 10.12.11.99 1719 priority 120
h323-gateway voip h323-id PS6-5400-GW2
h323-gateway voip tech-prefix 1#
h323-gateway voip bind srcaddr 10.12.16.102
!
interface FastEthernet0/1
description connect to PS0-MGMT1 port 22 patch U9/37
ip address 10.12.1.23 255.255.255.0
duplex full
speed 100
!
interface Serial0/0
no ip address
shutdown
clock rate 2000000
!
interface Serial6/0
no ip address
shutdown

```

```
!  
interface Serial7/0  
  no ip address  
  shutdown  
!  
interface Serial10/1  
  no ip address  
  shutdown  
  clock rate 2000000  
!  
interface Serial6/0:23  
  no ip address  
  encapsulation hdlc  
  isdn switch-type primary-dms100  
  isdn incoming-voice modem  
  no cdp enable  
!  
interface Serial6/1:23  
  no ip address  
  encapsulation hdlc  
  isdn switch-type primary-dms100  
  isdn incoming-voice modem  
  no cdp enable  
!  
interface Serial6/2:23  
  no ip address  
  encapsulation hdlc  
  isdn switch-type primary-dms100  
  isdn incoming-voice modem  
  no cdp enable  
!  
interface Serial6/3:23  
  no ip address  
  encapsulation hdlc  
  isdn switch-type primary-dms100  
  isdn incoming-voice modem  
  no cdp enable  
!  
interface Serial6/4:23  
  no ip address  
  encapsulation hdlc  
  isdn switch-type primary-dms100  
  isdn incoming-voice modem  
  no cdp enable  
!  
interface Serial6/5:23  
  no ip address  
  encapsulation hdlc  
  isdn switch-type primary-dms100  
  isdn incoming-voice modem  
  no cdp enable  
!  
interface Serial6/6:23  
  no ip address  
  encapsulation hdlc  
  isdn switch-type primary-dms100  
  isdn incoming-voice modem  
  no cdp enable  
!  
interface Serial6/7:23  
  no ip address  
  encapsulation hdlc  
  isdn switch-type primary-dms100  
  isdn incoming-voice modem
```

```
no cdp enable
!
interface Serial7/0:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial7/1:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial7/2:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial7/3:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial7/4:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial7/5:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial7/6:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
no cdp enable
!
interface Serial7/7:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn incoming-voice modem
isdn T310 60000
no cdp enable
!
interface Group-Async0
no ip address
encapsulation slip
group-range 1/00 5/107
!
```

```

!
ip route 0.0.0.0 0.0.0.0 10.12.16.97
no ip http server
!
!
snmp-server community private RW
snmp-server community public RO
snmp-server enable traps snmp authentication linkdown linkup coldstart warmstart
snmp-server enable traps vrrp
snmp-server enable traps calltracker
snmp-server enable traps tty
snmp-server enable traps xgcp
snmp-server enable traps modem-health
snmp-server enable traps ds0-busyout
snmp-server enable traps ds1-loopback
snmp-server enable traps cnpd
snmp-server enable traps isdn call-information
snmp-server enable traps isdn layer2
snmp-server enable traps isdn chan-not-avail
snmp-server enable traps isdn ietf
snmp-server enable traps fru-ctrl
snmp-server enable traps flash insertion removal
snmp-server enable traps hsrp
snmp-server enable traps config
snmp-server enable traps entity
snmp-server enable traps cpu threshold
snmp-server enable traps config-copy
snmp-server enable traps envmon
snmp-server enable traps aaa_server
snmp-server enable traps bgp
snmp-server enable traps ospf state-change
snmp-server enable traps ospf errors
snmp-server enable traps ospf retransmit
snmp-server enable traps ospf lsa
snmp-server enable traps ospf cisco-specific state-change nssa-trans-change
snmp-server enable traps ospf cisco-specific state-change shamlink interface
snmp-server enable traps ospf cisco-specific state-change shamlink neighbor
snmp-server enable traps ospf cisco-specific errors
snmp-server enable traps ospf cisco-specific retransmit
snmp-server enable traps ospf cisco-specific lsa
snmp-server enable traps pim neighbor-change rp-mapping-change invalid-pim-message
snmp-server enable traps ipmulticast
snmp-server enable traps msdp
snmp-server enable traps rsvp
snmp-server enable traps frame-relay
snmp-server enable traps frame-relay subif
snmp-server enable traps rtr
snmp-server enable traps syslog
snmp-server enable traps stun
snmp-server enable traps dlsw
snmp-server enable traps bstun
snmp-server enable traps pppoe
snmp-server enable traps l2tun session
snmp-server enable traps dial
snmp-server enable traps dsp card-status
snmp-server enable traps voice poor-qov
snmp-server enable traps dnis
snmp-server host 10.12.15.56 public
!
!
control-plane
!
!
!

```

```

voice-port 6/0:D
!
voice-port 6/1:D
!
voice-port 6/2:D
!
voice-port 6/3:D
!
voice-port 6/4:D
!
voice-port 6/5:D
!
voice-port 6/6:D
!
voice-port 6/7:D
!
voice-port 7/0:D
!
voice-port 7/1:D
!
voice-port 7/2:D
!
voice-port 7/3:D
!
voice-port 7/4:D
!
voice-port 7/5:D
!
voice-port 7/6:D
!
voice-port 7/7:D
!
!
dial-peer cor custom
!
!
dial-peer voice 1000 voip
 destination-pattern 601616[8-9]...
 voice-class codec 1
 session target ras
 incoming called-number 601616[8-9]...
 tech-prefix 2#
 dtmf-relay rtp-nte h245-signal h245-alphanumeric
 no vad
!
dial-peer voice 2000 pots
 incoming called-number 601616[8-9]...
 no digit-strip
 direct-inward-dial
 port 6/0:D
!
dial-peer voice 2001 pots
 incoming called-number 601616[8-9]...
 no digit-strip
 direct-inward-dial
 port 6/1:D
!
dial-peer voice 2002 pots
 incoming called-number 601616[8-9]...
 no digit-strip
 direct-inward-dial
 port 6/2:D
!
dial-peer voice 2003 pots

```



```
incoming called-number 601616[8-9]...
no digit-strip
direct-inward-dial
port 6/3:D
!
dial-peer voice 2004 pots
incoming called-number 601616[8-9]...
no digit-strip
direct-inward-dial
port 6/4:D
!
dial-peer voice 2005 pots
incoming called-number 601616[8-9]...
no digit-strip
direct-inward-dial
port 6/5:D
!
dial-peer voice 2006 pots
incoming called-number 601616[8-9]...
no digit-strip
direct-inward-dial
port 6/6:D
!
dial-peer voice 2007 pots
incoming called-number 601616[8-9]...
no digit-strip
direct-inward-dial
port 6/7:D
!
dial-peer voice 2008 pots
incoming called-number 601616[8-9]...
no digit-strip
direct-inward-dial
port 7/0:D
!
dial-peer voice 2009 pots
incoming called-number 601616[8-9]...
no digit-strip
direct-inward-dial
port 7/1:D
!
dial-peer voice 2010 pots
incoming called-number 601616[8-9]...
no digit-strip
direct-inward-dial
port 7/2:D
!
dial-peer voice 2011 pots
incoming called-number 601616[8-9]...
no digit-strip
direct-inward-dial
port 7/3:D
!
dial-peer voice 2012 pots
incoming called-number 601616[8-9]...
no digit-strip
direct-inward-dial
port 7/4:D
!
dial-peer voice 2013 pots
incoming called-number 601616[8-9]...
no digit-strip
direct-inward-dial
port 7/5:D
```

```

!
dial-peer voice 2014 pots
  incoming called-number 601616[8-9]...
  no digit-strip
  direct-inward-dial
  port 7/6:D
!
dial-peer voice 2015 pots
  incoming called-number 601616[8-9]...
  no digit-strip
  direct-inward-dial
  port 7/7:D
!
dial-peer voice 100 voip
  service vru-leg
  voice-class codec 1
  session target ras
  incoming called-number 6666666666T
  dtmf-relay rtp-nte h245-signal h245-alphanumeric
  no vad
!
!
gateway
  timer receive-rtp 1200
!
ss7 mtp2-variant Bellcore 0
ss7 mtp2-variant Bellcore 1
ss7 mtp2-variant Bellcore 2
ss7 mtp2-variant Bellcore 3
!
line con 0
line aux 0
line vty 0 4
  exec-timeout 0 0
  password any
  login
line 1/00 2/59
  modem InOut
line 3/00 3/107
  modem InOut
line 5/00 5/107
  modem InOut
!
scheduler allocate 10000 400
ntp clock-period 17179963
ntp server 10.12.16.97
end

```

Site6 Cisco7206VXR Router

```

version 12.4
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname PS6-7206
!
boot-start-marker
boot system disk0:c7200-jk8s-mz.124-5.13.T2
boot-end-marker
!
enable secret 5 $1$lTwp$4S8Mpo1Q3bkMoFRNeeKK60

```

```
enable password any
!
no aaa new-model
!
resource policy
!
clock timezone EST -5
clock summer-time EDT recurring
!
!
ip cef
ip domain name sjc.com
ip name-server 10.12.15.67
ip name-server 10.12.11.67
no ip dhcp use vrf connected
!
ip dhcp pool ps6-phones
    network 10.12.16.224 255.255.255.224
    dns-server 10.12.15.67 10.12.11.67
    domain-name sjc.com
    option 150 ip 10.12.15.2
    default-router 10.12.16.225
!
!
interface FastEthernet0/0
    no ip address
    duplex full
    speed 100
!
interface FastEthernet0/0.1
    encapsulation dot1Q 608
    ip address 10.12.16.65 255.255.255.248
    no snmp trap link-status
!
interface FastEthernet0/0.2
    encapsulation dot1Q 611
    ip address 10.12.16.97 255.255.255.240
    no snmp trap link-status
!
interface FastEthernet0/0.3
    encapsulation dot1Q 614
    ip address 10.12.16.177 255.255.255.248
    no snmp trap link-status
!
interface FastEthernet0/0.4
    encapsulation dot1Q 615
    ip address 10.12.16.193 255.255.255.248
    no snmp trap link-status
!
interface FastEthernet0/0.5
    encapsulation dot1Q 616
    ip address 10.12.16.209 255.255.255.240
    no snmp trap link-status
!
interface FastEthernet0/0.6
    encapsulation dot1Q 617
    ip address 10.12.16.225 255.255.255.224
    no snmp trap link-status
!
interface FastEthernet0/0.7
!
interface FastEthernet0/1
    description connect to PS0-MGMT1 port 18 patch U14/12
    ip address 10.12.1.19 255.255.255.0
```

```

duplex full
speed 100
no mop enabled
!
interface Serial2/0
no ip address
encapsulation frame-relay
no keepalive
dsu bandwidth 44210
framing c-bit
cablelength 10
serial restart-delay 0
!
interface Serial2/0.1 point-to-point
ip address 10.12.2.21 255.255.255.252
frame-relay interface-dlci 600
!
router ospf 1
log-adjacency-changes
area 6 stub no-summary
network 10.12.2.0 0.0.0.255 area 0
network 10.12.16.0 0.0.0.255 area 6
!
!
no ip http server
no ip http secure-server
!
!
logging alarm informational
snmp-server community private RW
snmp-server community public RO
snmp-server enable traps snmp authentication linkdown linkup coldstart warmstart
snmp-server enable traps vrrp
snmp-server enable traps ds1
snmp-server enable traps tty
snmp-server enable traps eigrp
snmp-server enable traps casa
snmp-server enable traps gatekeeper
snmp-server enable traps xgcp
snmp-server enable traps bulkstat collection transfer
snmp-server enable traps director server-up server-down
snmp-server enable traps isdn call-information
snmp-server enable traps isdn layer2
snmp-server enable traps isdn chan-not-avail
snmp-server enable traps isdn ietf
snmp-server enable traps ds3
snmp-server enable traps atm subif
snmp-server enable traps channel
snmp-server enable traps ima
snmp-server enable traps srp
snmp-server enable traps flash insertion removal
snmp-server enable traps hsrp
snmp-server enable traps config
snmp-server enable traps entity
snmp-server enable traps fru-ctrl
snmp-server enable traps cpu threshold
snmp-server enable traps config-copy
snmp-server enable traps envmon
snmp-server enable traps aaa_server
snmp-server enable traps bgp
snmp-server enable traps ospf state-change
snmp-server enable traps ospf errors
snmp-server enable traps ospf retransmit
snmp-server enable traps ospf lsa

```

```

snmp-server enable traps ospf cisco-specific state-change nssa-trans-change
snmp-server enable traps ospf cisco-specific state-change shamlink interface-old
snmp-server enable traps ospf cisco-specific state-change shamlink neighbor
snmp-server enable traps ospf cisco-specific errors
snmp-server enable traps ospf cisco-specific retransmit
snmp-server enable traps ospf cisco-specific lsa
snmp-server enable traps pim neighbor-change rp-mapping-change invalid-pim-message
snmp-server enable traps ipmulticast
snmp-server enable traps mvpn
snmp-server enable traps msdp
snmp-server enable traps rsvp
snmp-server enable traps frame-relay
snmp-server enable traps frame-relay subif
snmp-server enable traps syslog
snmp-server enable traps rtr
snmp-server enable traps vsimaster
snmp-server enable traps mpls ldp
snmp-server enable traps mpls traffic-eng
snmp-server enable traps mpls vpn
snmp-server enable traps cnpd
snmp-server enable traps stun
snmp-server enable traps dlsw
snmp-server enable traps bstun
snmp-server enable traps pppoe
snmp-server enable traps l2tun session
snmp-server enable traps ipmobile
snmp-server enable traps dial
snmp-server enable traps dsp card-status
snmp-server enable traps isakmp policy add
snmp-server enable traps isakmp policy delete
snmp-server enable traps isakmp tunnel start
snmp-server enable traps isakmp tunnel stop
snmp-server enable traps ipsec cryptomap add
snmp-server enable traps ipsec cryptomap delete
snmp-server enable traps ipsec cryptomap attach
snmp-server enable traps ipsec cryptomap detach
snmp-server enable traps ipsec tunnel start
snmp-server enable traps ipsec tunnel stop
snmp-server enable traps ipsec too-many-sas
snmp-server enable traps event-manager
snmp-server enable traps alarms informational
snmp-server enable traps voice fallback poor-qov
snmp-server enable traps dnis
snmp-server host 10.12.15.56 public
!
!
control-plane
!
!
gatekeeper
shutdown
!
!
line con 0
stopbits 1
line aux 0
stopbits 1
line vty 0 4
exec-timeout 0 0
password any
login
!
ntp clock-period 17180086
ntp server 10.12.1.1

```

```
!
end
```

Site7 Cisco 6506 MSFC Switch

```
version 12.1
service nagle
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
no service password-encryption
!
hostname ps7-6506-msfc
!
boot system bootflash:c6msfc2-psv-mz.121-26.E3.bin
boot system bootflash:c6msfc2-psv-mz.121-26.E2.bin
boot bootldr bootflash:c6msfc2-boot-mz.121-11b.E4.bin
enable password any
!
clock timezone US_Eastern -5
clock summer-time US_EDT recurring
clock calendar-valid
ip subnet-zero
no ip source-route
!
!
ip ftp username vtgrtp
ip ftp password any
ip domain-name sjc.com
ip name-server 10.12.15.67
ip name-server 10.12.11.67
!
ip dhcp pool ps7-phones
network 10.12.17.224 255.255.255.224
dns-server 10.12.15.67 10.12.11.67
domain-name sjc.com
option 150 ip 10.12.15.2
default-router 10.12.17.225
!
ip multicast-routing
mls rp ip
!
!
interface Loopback0
ip address 169.254.5.1 255.255.0.0
no ip route-cache
no ip mroute-cache
!
interface Vlan1
no ip address
no ip redirects
no ip unreachable
shutdown
!
interface Vlan10
description Mangement
ip address 10.12.1.48 255.255.255.0
no ip redirects
no ip unreachable
!
interface Vlan701
description PS7_CM1
```

```
ip address 10.12.17.1 255.255.255.248
no ip redirects
no ip unreachable
!
interface Vlan705
description PS7_PG7
ip address 10.12.17.33 255.255.255.240
no ip redirects
no ip unreachable
!
interface Vlan710
description PS7_IOS_CAT
ip address 10.12.17.97 255.255.255.240
no ip redirects
no ip unreachable
!
interface Vlan711
description PS7_CMM_GW1_XCB
ip address 10.12.17.113 255.255.255.248
no ip redirects
no ip unreachable
!
interface Vlan714
description PS7-Desktops
ip address 10.12.17.177 255.255.255.248
no ip redirects
no ip unreachable
!
interface Vlan715
description PS7_CAM1_2
ip address 10.12.17.193 255.255.255.248
no ip redirects
no ip unreachable
!
interface Vlan716
description PS7_CIL1_2
ip address 10.12.17.209 255.255.255.240
no ip redirects
no ip unreachable
!
interface Vlan717
description PS7-Phones
ip address 10.12.17.225 255.255.255.224
no ip redirects
no ip unreachable
!
router ospf 1
log-adjacency-changes
area 7 stub
network 10.12.2.0 0.0.0.255 area 0
network 10.12.17.0 0.0.0.255 area 7
!
ip classless
no ip http server
!
!
ip access-list extended BLOCK_RTP
deny udp any any range 16383 16384
permit ip any any
snmp-server community public RO
snmp-server community private RW
snmp-server system-shutdown
snmp-server enable traps snmp authentication warmstart linkdown linkup coldstart
snmp-server enable traps slb real virtual csrp
```

```

snmp-server enable traps flash insertion removal
snmp-server enable traps hsrp
snmp-server enable traps config
snmp-server enable traps entity
snmp-server enable traps config-copy
snmp-server enable traps fru-ctrl
snmp-server enable traps bgp
snmp-server enable traps rsvp
snmp-server enable traps frame-relay
snmp-server enable traps rtr
snmp-server enable traps isdn call-information
snmp-server enable traps isdn layer2
snmp-server enable traps dlsw
snmp-server host 10.12.15.56 public
!
banner motd

```

```

alias configure ro router ospf
alias exec c conf t
alias exec ipr sh ip route
alias exec sion sh ip ospf nei
alias exec cipr clear ip route
!
line con 0
  exec-timeout 0 0
  privilege level 15
  logging synchronous
line vty 0 4
  password any
  login
!
exception protocol ftp
exception dump 10.12.13.212
ntp clock-period 17179894
ntp update-calendar
ntp server 10.12.2.1
!
end

```

Site8 Cisco 3845 Gateway1

```

version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname PS8-3845-GW1
!
boot-start-marker
boot system flash c3845-ipvoice-mz.124-5.13.T2
boot-end-marker
!
logging buffered 51200 warnings
enable password any
!
no aaa new-model
!
resource policy
!
clock timezone EST -5

```



```
clock summer-time EDT recurring
ip cef
!
!
ip domain name sjc.com
ip host isn-vxml 10.12.15.51
ip host isn-vxml-backup 10.12.15.50
ip name-server 10.12.15.67
ip name-server 10.12.11.67
voice-card 0
  no dspfarm
!
!
voice service voip
  h323
!
!
voice class codec 1
  codec preference 1 g711ulaw
  codec preference 2 g728
!
!
application
  service vru-leg flash:bootstrap.tcl
    paramspace english index 0
    paramspace english language en
    paramspace english location flash
    paramspace english prefix en
  !
  service new-call flash:bootstrap.vxml
    paramspace english index 0
    paramspace english language en
    paramspace english location flash
    paramspace english prefix en
  !
  service handoff flash:handoff.tcl
    paramspace english index 0
    paramspace english language en
    paramspace english location flash
    paramspace english prefix en
  !
!
!
username lab privilege 15 secret 5 $1$gODC$agrhrLhlnKyqn1r0c.Q.T.
!
!
interface GigabitEthernet0/0
  ip address 10.12.18.99 255.255.255.240
  duplex full
  speed 100
  media-type rj45
  negotiation auto
  h323-gateway voip interface
  h323-gateway voip id PS5-CVP-ZONE ipaddr 10.12.15.99 1719 priority 120
  h323-gateway voip h323-id PS8-3845-GW1
  h323-gateway voip tech-prefix 1#
  h323-gateway voip bind srcaddr 10.12.18.99
!
interface GigabitEthernet0/1
  ip address 10.12.1.31 255.255.255.0
  duplex full
  speed 100
  media-type rj45
  negotiation auto
!
```

```

ip route 0.0.0.0 0.0.0.0 10.12.18.97
!
ip http server
ip http authentication local
ip http timeout-policy idle 600 life 86400 requests 10000
!
snmp-server community private RW
snmp-server community public RO
snmp-server enable traps snmp authentication linkdown linkup coldstart warmstart
snmp-server enable traps vrrp
snmp-server enable traps tty
snmp-server enable traps xgcp
snmp-server enable traps flash insertion removal
snmp-server enable traps envmon
snmp-server enable traps icsudsu
snmp-server enable traps isdn call-information
snmp-server enable traps isdn layer2
snmp-server enable traps isdn chan-not-avail
snmp-server enable traps isdn ietf
snmp-server enable traps ds0-busyout
snmp-server enable traps ds1-loopback
snmp-server enable traps atm subif
snmp-server enable traps cnpd
snmp-server enable traps config-copy
snmp-server enable traps config
snmp-server enable traps dial
snmp-server enable traps dsp card-status
snmp-server enable traps entity
snmp-server enable traps frame-relay
snmp-server enable traps frame-relay subif
snmp-server enable traps hsrp
snmp-server enable traps ipmobile
snmp-server enable traps ipmulticast
snmp-server enable traps ospf state-change
snmp-server enable traps ospf errors
snmp-server enable traps ospf retransmit
snmp-server enable traps ospf lsa
snmp-server enable traps ospf cisco-specific state-change nssa-trans-change
snmp-server enable traps ospf cisco-specific state-change shamlink interface
snmp-server enable traps ospf cisco-specific state-change shamlink neighbor
snmp-server enable traps ospf cisco-specific errors
snmp-server enable traps ospf cisco-specific retransmit
snmp-server enable traps ospf cisco-specific lsa
snmp-server enable traps pim neighbor-change rp-mapping-change invalid-pim-message
snmp-server enable traps pppoe
snmp-server enable traps cpu threshold
snmp-server enable traps rsvp
snmp-server enable traps rtr
snmp-server enable traps syslog
snmp-server enable traps l2tun session
snmp-server enable traps vtp
snmp-server enable traps voice poor-qov
snmp-server enable traps dnis
snmp-server host 10.12.15.56 public
!
!
control-plane
!
!
dial-peer voice 1 voip
    tech-prefix 1#
!
dial-peer voice 2000 voip
    service vru-leg

```

```

voice-class codec 1
session target ras
incoming called-number 8888888888T
dtmf-relay rtp-nte h245-signal h245-alphanumeric
clid restrict
no vad
!
gateway
timer receive-rtp 1200
!
!
line con 0
login local
stopbits 1
line aux 0
stopbits 1
line vty 0 4
exec-timeout 0 0
password any
login
line vty 5 15
privilege level 15
login local
!
scheduler allocate 20000 1000
ntp server 10.12.18.97
!
end

```

Cisco Unified Outbound Dialer Call Flow Components

Listed in this section are configuration commands for the Cisco 5400 voice gateway that is involved in handling the Cisco Unified Outbound Dialer Call Flow in Test Bed 2.

- [Site6 Cisco 5400 Voice Gateway](#)

Site6 Cisco 5400 Voice Gateway

```

!
version 12.4
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
no service password-encryption
service internal
!
hostname PS6-5400-GW5
!
boot-start-marker
boot system flash:c5400-is-mz.124-5.13.T2
no boot startup-test
boot-end-marker
!
logging buffered 1000000 debugging
enable password any
!
!
!
resource-pool disable
no aaa new-model

```

```

!
resource policy
!
clock timezone EDT -5
clock summer-time EST recurring
tdm clock priority 1 7/0
spe default-firmware spe-firmware-1
!
!
ip cef
ip domain name sjc.com
ip host isn-vxml 10.12.11.51
ip host isn-vxml-backup 10.12.11.50
ip name-server 10.12.15.67
ip name-server 10.12.11.67
!
!
isdn switch-type primary-dms100
!
!
voice service voip
  fax protocol t38 ls-redundancy 0 hs-redundancy 0 fallback none
  h323
  modem passthrough none codec g729r8 pre-ietf
!
!
voice class codec 1
  codec preference 1 g711ulaw
  codec preference 2 g729r8
!
voice class codec 711
  codec preference 1 g711ulaw
!
!
application
  service vru-leg flash:Bootstrap.tcl
  paramspace english index 0
  paramspace english language en
  paramspace english location flash
  paramspace english prefix en
!
  service new-call flash:bootstrap.vxml
  paramspace english index 0
  paramspace english language en
  paramspace english location flash
  paramspace english prefix en
!
  service handoff flash:handoff.tcl
  paramspace english index 0
  paramspace english language en
  paramspace english location flash
  paramspace english prefix en
!
!
fax interface-type fax-mail
!
!
controller T1 6/0
  framing esf
  linecode b8zs
  pri-group timeslots 1-24
!
controller T1 6/1
  framing esf

```

```
    linecode b8zs
    pri-group timeslots 1-24
    !
controller T1 6/2
    framing esf
    linecode b8zs
    pri-group timeslots 1-24
    !
controller T1 6/3
    framing esf
    linecode b8zs
    pri-group timeslots 1-24
    !
controller T1 6/4
    framing esf
    linecode b8zs
    pri-group timeslots 1-24
    !
controller T1 6/5
    framing esf
    linecode b8zs
    pri-group timeslots 1-24
    !
controller T1 6/6
    framing esf
    linecode b8zs
    pri-group timeslots 1-24
    !
controller T1 6/7
    framing esf
    linecode b8zs
    pri-group timeslots 1-24
    !
controller T1 7/0
    framing esf
    linecode b8zs
    pri-group timeslots 1-24
    !
controller T1 7/1
    framing esf
    linecode b8zs
    pri-group timeslots 1-24
    !
controller T1 7/2
    framing esf
    linecode b8zs
    pri-group timeslots 1-24
    !
controller T1 7/3
    framing esf
    linecode b8zs
    pri-group timeslots 1-24
    !
controller T1 7/4
    framing esf
    linecode b8zs
    pri-group timeslots 1-24
    !
controller T1 7/5
    framing esf
    linecode b8zs
    pri-group timeslots 1-24
    !
controller T1 7/6
```

```

framing esf
linecode b8zs
pri-group timeslots 1-24
!
controller T1 7/7
framing esf
linecode b8zs
pri-group timeslots 1-24
!
!
interface FastEthernet0/0
ip address 10.12.16.105 255.255.255.240
logging event link-status
duplex full
speed 100
h323-gateway voip interface
h323-gateway voip id PS1-CVP-ZONE ipaddr 10.12.11.99 1719 priority 120
h323-gateway voip h323-id PS6-5400-GW5
h323-gateway voip tech-prefix 1#
h323-gateway voip bind srcaddr 10.12.16.105
!
interface FastEthernet0/1
ip address 10.12.1.57 255.255.255.0
duplex full
speed 100
!
interface Serial0/0
no ip address
shutdown
clock rate 2000000
!
interface Serial6/0
no ip address
shutdown
!
interface Serial7/0
no ip address
shutdown
!
interface Serial0/1
no ip address
shutdown
clock rate 2000000
!
interface Serial6/0:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn protocol-emulate network
isdn incoming-voice modem
no cdp enable
!
interface Serial6/1:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn protocol-emulate network
isdn incoming-voice modem
no cdp enable
!
interface Serial6/2:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100

```

```
    isdn protocol-emulate network
    isdn incoming-voice modem
    no cdp enable
    !
interface Serial6/3:23
    no ip address
    encapsulation hdlc
    isdn switch-type primary-dms100
    isdn protocol-emulate network
    isdn incoming-voice modem
    no cdp enable
    !
interface Serial6/4:23
    no ip address
    encapsulation hdlc
    isdn switch-type primary-dms100
    isdn protocol-emulate network
    isdn incoming-voice modem
    no cdp enable
    !
interface Serial6/5:23
    no ip address
    encapsulation hdlc
    isdn switch-type primary-dms100
    isdn protocol-emulate network
    isdn incoming-voice modem
    no cdp enable
    !
interface Serial6/6:23
    no ip address
    encapsulation hdlc
    isdn switch-type primary-dms100
    isdn protocol-emulate network
    isdn incoming-voice modem
    no cdp enable
    !
interface Serial6/7:23
    no ip address
    encapsulation hdlc
    isdn switch-type primary-dms100
    isdn protocol-emulate network
    isdn incoming-voice modem
    no cdp enable
    !
interface Serial7/0:23
    no ip address
    encapsulation hdlc
    isdn switch-type primary-dms100
    isdn protocol-emulate network
    isdn incoming-voice modem
    no cdp enable
    !
interface Serial7/1:23
    no ip address
    encapsulation hdlc
    isdn switch-type primary-dms100
    isdn protocol-emulate network
    isdn incoming-voice modem
    no cdp enable
    !
interface Serial7/2:23
    no ip address
    encapsulation hdlc
    isdn switch-type primary-dms100
```

```

isdn protocol-emulate network
isdn incoming-voice modem
no cdp enable
!
interface Serial7/3:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn protocol-emulate network
isdn incoming-voice modem
no cdp enable
!
interface Serial7/4:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn protocol-emulate network
isdn incoming-voice modem
no cdp enable
!
interface Serial7/5:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn protocol-emulate network
isdn incoming-voice modem
no cdp enable
!
interface Serial7/6:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn protocol-emulate network
isdn incoming-voice modem
no cdp enable
!
interface Serial7/7:23
no ip address
encapsulation hdlc
isdn switch-type primary-dms100
isdn protocol-emulate network
isdn incoming-voice modem
no cdp enable
!
interface Group-Async0
no ip address
encapsulation slip
group-range 1/00 5/107
!
!
ip route 0.0.0.0 0.0.0.0 10.12.16.97
no ip http server
!
!
snmp-server community public RO
snmp-server community private RW
snmp-server enable traps snmp authentication linkdown linkup coldstart warmstart
snmp-server enable traps vrrp
snmp-server enable traps calltracker
snmp-server enable traps tty
snmp-server enable traps xgcp
snmp-server enable traps modem-health
snmp-server enable traps ds0-busyout
snmp-server enable traps ds1-loopback

```



```
snmp-server enable traps cnpd
snmp-server enable traps isdn call-information
snmp-server enable traps isdn layer2
snmp-server enable traps isdn chan-not-avail
snmp-server enable traps isdn ietf
snmp-server enable traps fru-ctrl
snmp-server enable traps flash insertion removal
snmp-server enable traps hsrp
snmp-server enable traps config
snmp-server enable traps entity
snmp-server enable traps cpu threshold
snmp-server enable traps config-copy
snmp-server enable traps envmon
snmp-server enable traps aaa_server
snmp-server enable traps bgp
snmp-server enable traps ospf state-change
snmp-server enable traps ospf errors
snmp-server enable traps ospf retransmit
snmp-server enable traps ospf lsa
snmp-server enable traps ospf cisco-specific state-change nssa-trans-change
snmp-server enable traps ospf cisco-specific state-change shamlink interface
snmp-server enable traps ospf cisco-specific state-change shamlink neighbor
snmp-server enable traps ospf cisco-specific errors
snmp-server enable traps ospf cisco-specific retransmit
snmp-server enable traps ospf cisco-specific lsa
snmp-server enable traps pim neighbor-change rp-mapping-change invalid-pim-message
snmp-server enable traps ipmulticast
snmp-server enable traps msdp
snmp-server enable traps rsvp
snmp-server enable traps frame-relay
snmp-server enable traps frame-relay subif
snmp-server enable traps rtr
snmp-server enable traps syslog
snmp-server enable traps stun
snmp-server enable traps dlsw
snmp-server enable traps bstun
snmp-server enable traps pppoe
snmp-server enable traps l2tun session
snmp-server enable traps dial
snmp-server enable traps dsp card-status
snmp-server enable traps voice poor-qov
snmp-server enable traps dnis
snmp-server host 10.12.15.56 public
!
!
control-plane
!
!
voice-port 6/0:D
!
voice-port 6/1:D
!
voice-port 6/2:D
!
voice-port 6/3:D
!
voice-port 6/4:D
!
voice-port 6/5:D
!
voice-port 6/6:D
!
voice-port 6/7:D
!
```

```

voice-port 7/0:D
!
voice-port 7/1:D
!
voice-port 7/2:D
!
voice-port 7/3:D
!
voice-port 7/4:D
!
voice-port 7/5:D
!
voice-port 7/6:D
!
voice-port 7/7:D
!
!
!
dial-peer voice 1 voip
  tech-prefix 1#
!
dial-peer voice 3 voip
  tone ringback alert-no-PI
  voice-class codec 711
  session target ras
  incoming called-number 91950....
  dtmf-relay rtp-nte h245-signal h245-alphanumeric
!
dial-peer voice 1003 pots
  destination-pattern 919501....
  no digit-strip
  direct-inward-dial
  port 6/0:D
!
dial-peer voice 1004 pots
  destination-pattern 919501....
  no digit-strip
  direct-inward-dial
  port 6/1:D
!
dial-peer voice 1005 pots
  destination-pattern 919501....
  no digit-strip
  direct-inward-dial
  port 6/2:D
!
dial-peer voice 1006 pots
  destination-pattern 919501....
  no digit-strip
  direct-inward-dial
  port 6/3:D
!
dial-peer voice 3001 pots
  destination-pattern 919503....
  no digit-strip
  direct-inward-dial
  port 6/5:D
!
dial-peer voice 3002 pots
  destination-pattern 919503....
  no digit-strip
  direct-inward-dial
  port 6/6:D
!

```

```
dial-peer voice 3003 pots
  tone ringback alert-no-PI
  destination-pattern 919503....
  no digit-strip
  direct-inward-dial
  port 6/7:D
!
dial-peer voice 1009 pots
  destination-pattern 919502....
  no digit-strip
  direct-inward-dial
  port 6/4:D
!
dial-peer voice 1000 voip
  destination-pattern 601616[8-9]...
  voice-class codec 1
  session target ras
  incoming called-number 601616[8-9]...
  tech-prefix 2#
  dtmf-relay rtp-nte h245-signal h245-alphanumeric
  no vad
!
dial-peer voice 100 voip
  service vru-leg
  voice-class codec 1
  session target ras
  incoming called-number 6666666666T
  dtmf-relay rtp-nte h245-signal h245-alphanumeric
  no vad
!
dial-peer voice 101 voip
  service vru-leg
  voice-class codec 1
  session target ras
  incoming called-number 5555555555T
  dtmf-relay rtp-nte h245-signal h245-alphanumeric
  no vad
!
!
gateway
  timer receive-rtp 1200
!
no environment
ss7 mtp2-variant Bellcore 0
ss7 mtp2-variant Bellcore 1
ss7 mtp2-variant Bellcore 2
ss7 mtp2-variant Bellcore 3
!
line con 0
line aux 0
line vty 0 4
  exec-timeout 0 0
  password any
  login
line vty 5 99
  no login
line 1/00 2/59
  no flush-at-activation
  modem InOut
line 3/00 3/107
  no flush-at-activation
  modem InOut
line 5/00 5/107
  no flush-at-activation
```

```
modem InOut
!  
scheduler allocate 10000 400  
ntp clock-period 17179889  
end
```