Application Note

Cisco 3745 Gateway-PBX Interoperability: Lucent Definity G3r Using E1 R2 Interfaces to an H.323 Gateway

Introduction

- This note describes the connectivity or interoperability of a Lucent Definity G3r PBX to a Cisco 3745 router.
- The network topology diagram shows the set up for end-to-end interoperability between PBXs.

Network Topology

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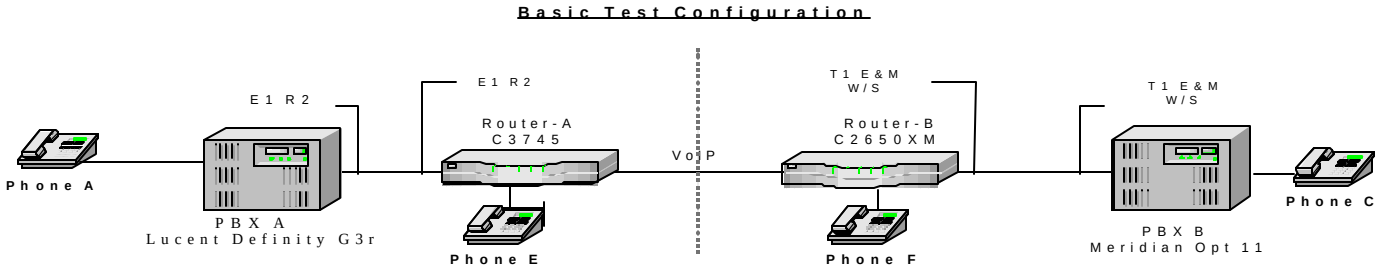

System Components

Hardware Requirements

- Cisco Hardware
  Cisco 3745 with dual multifrequency trunk (MFT) T1 interfaces
- PBX Hardware.
  Lucent Definity G3r Version 7

Software Requirements

- Cisco IOS Software Release 12.2(15)ZJ
- PBX Software Release Version 7

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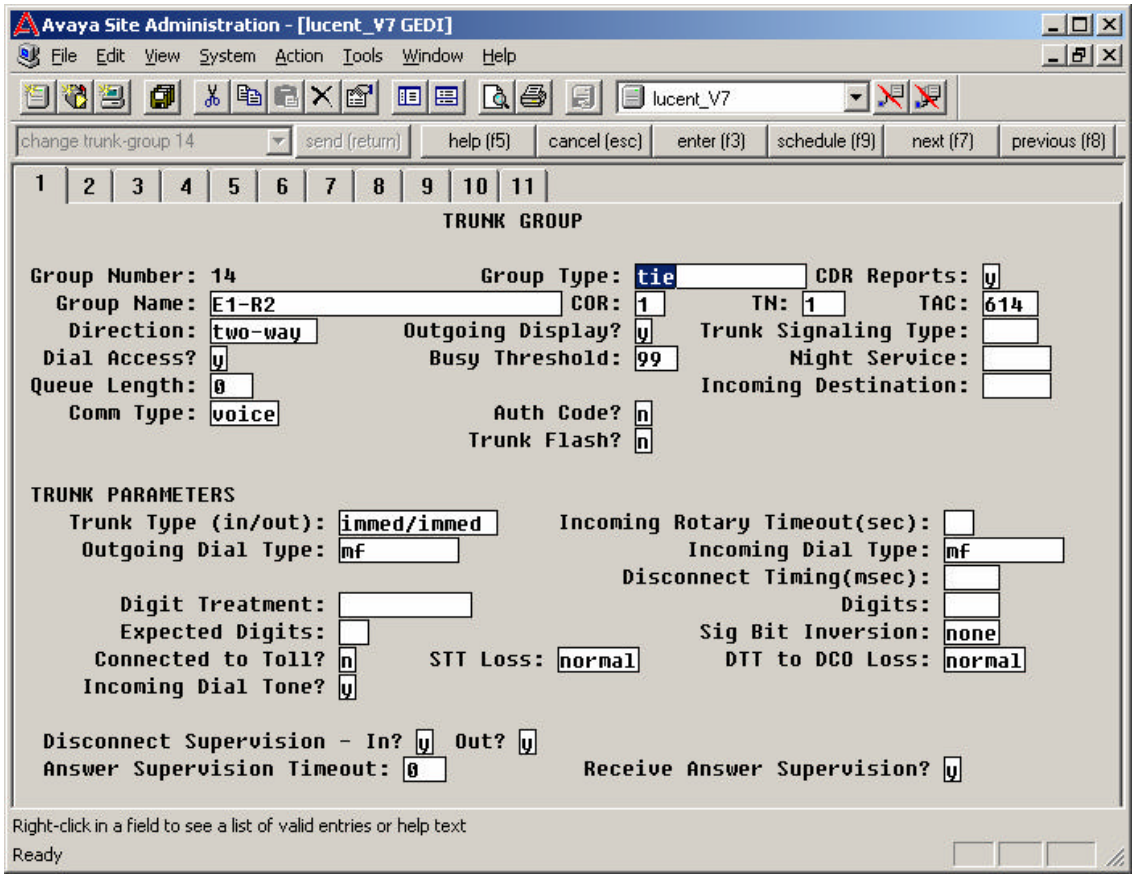
Configuration

Configuring the Lucent Definity G3r

Trunk Group

CO Trunk



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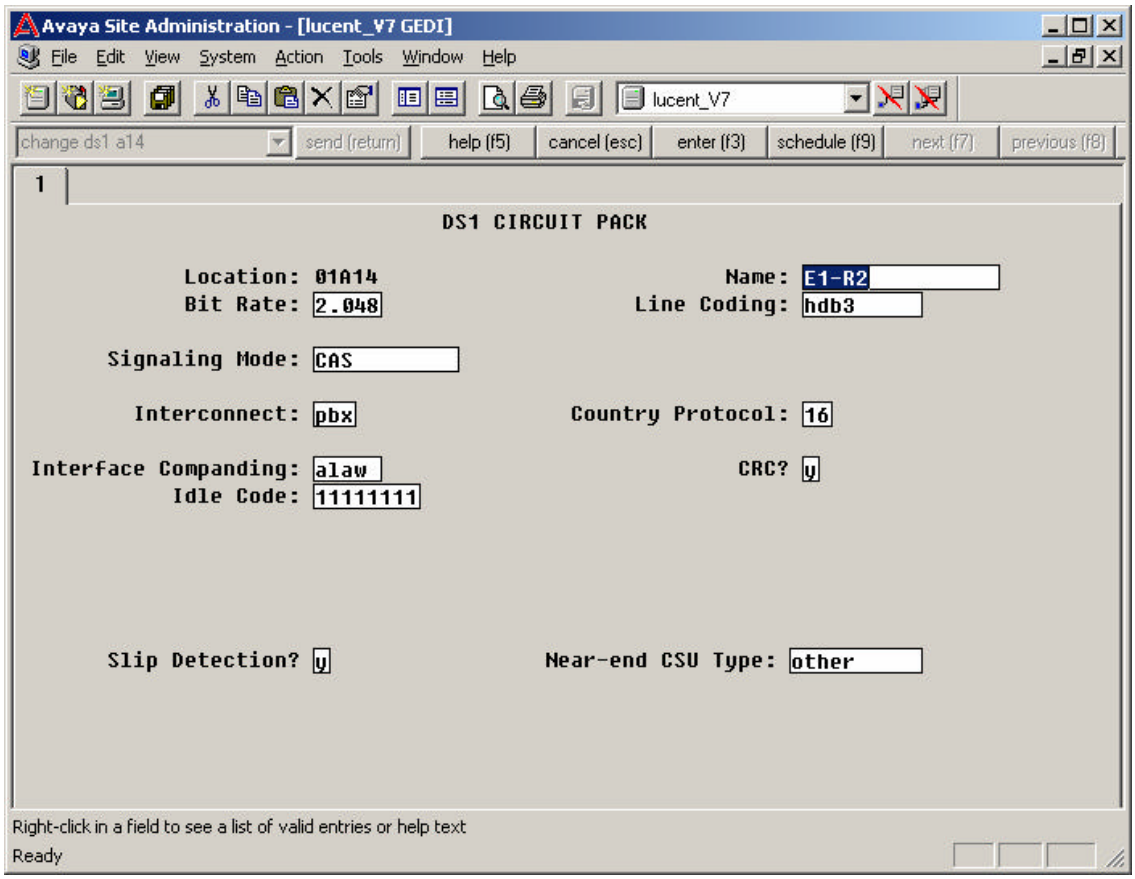

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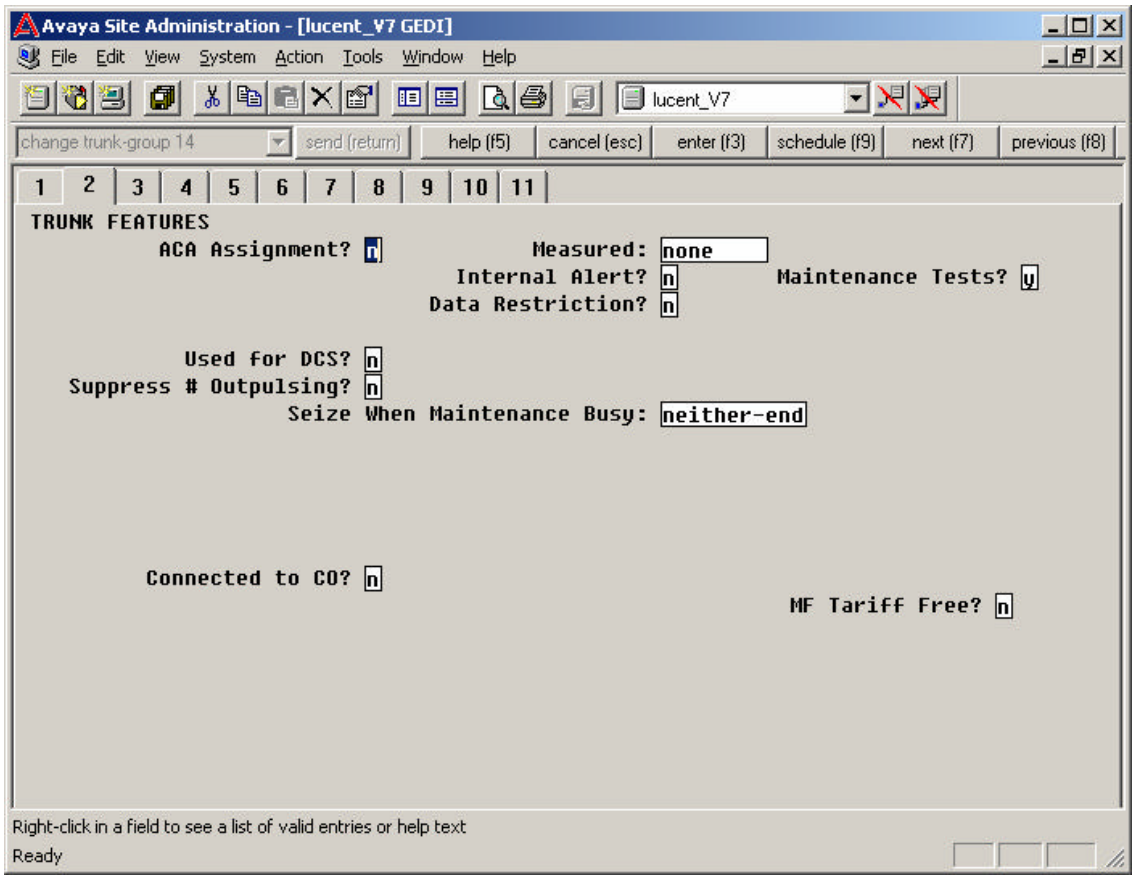

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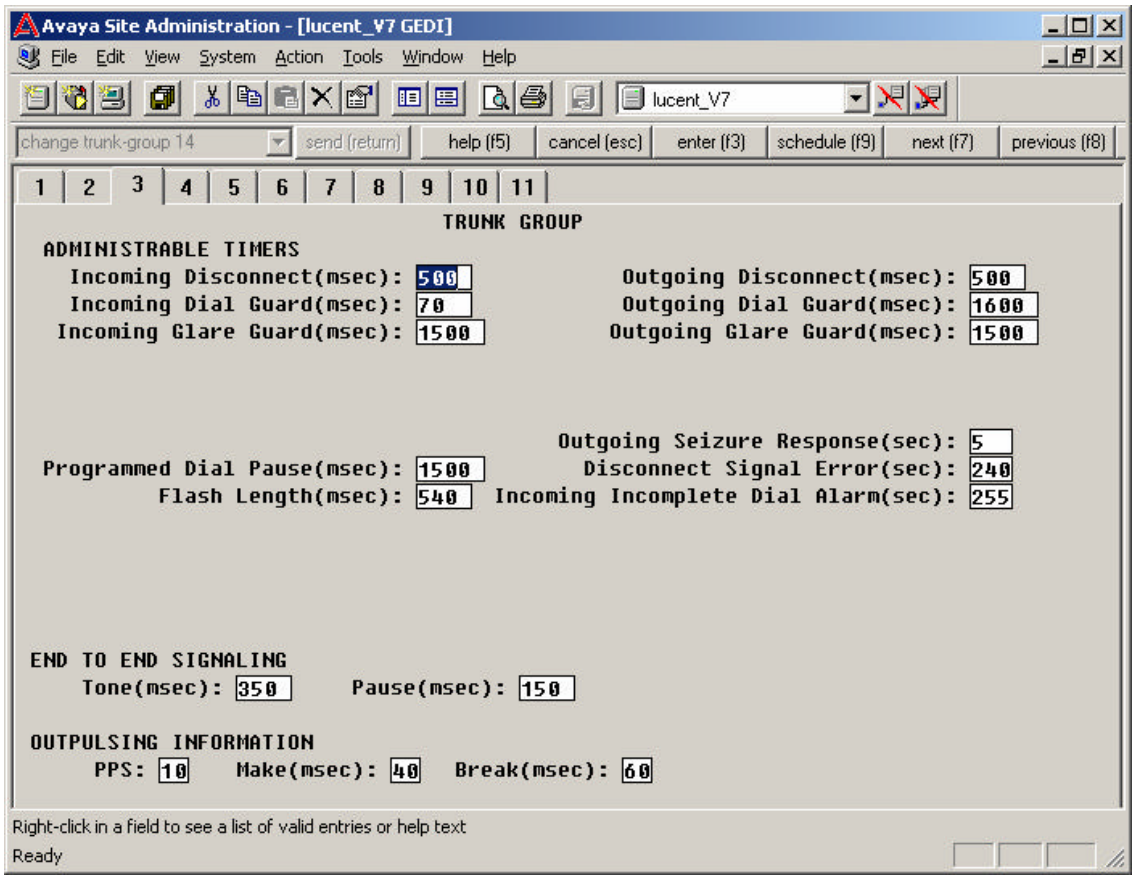

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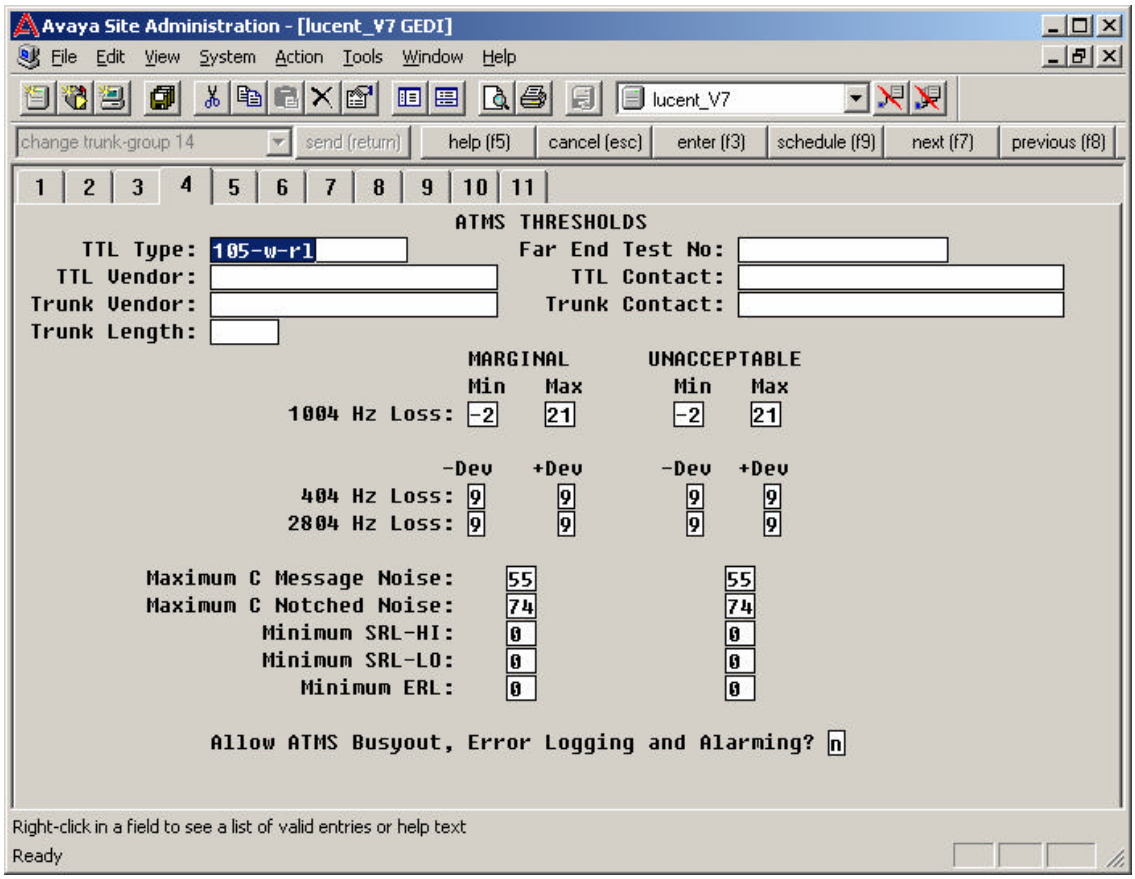

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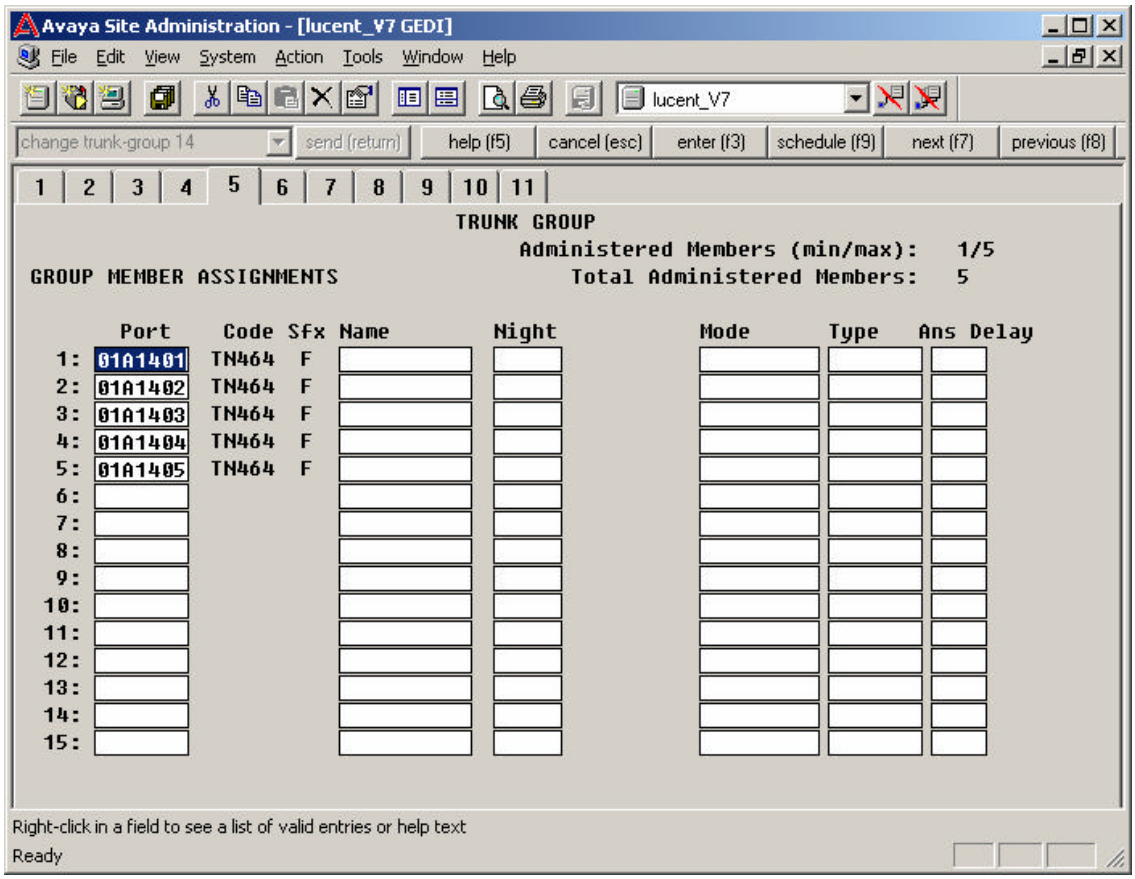

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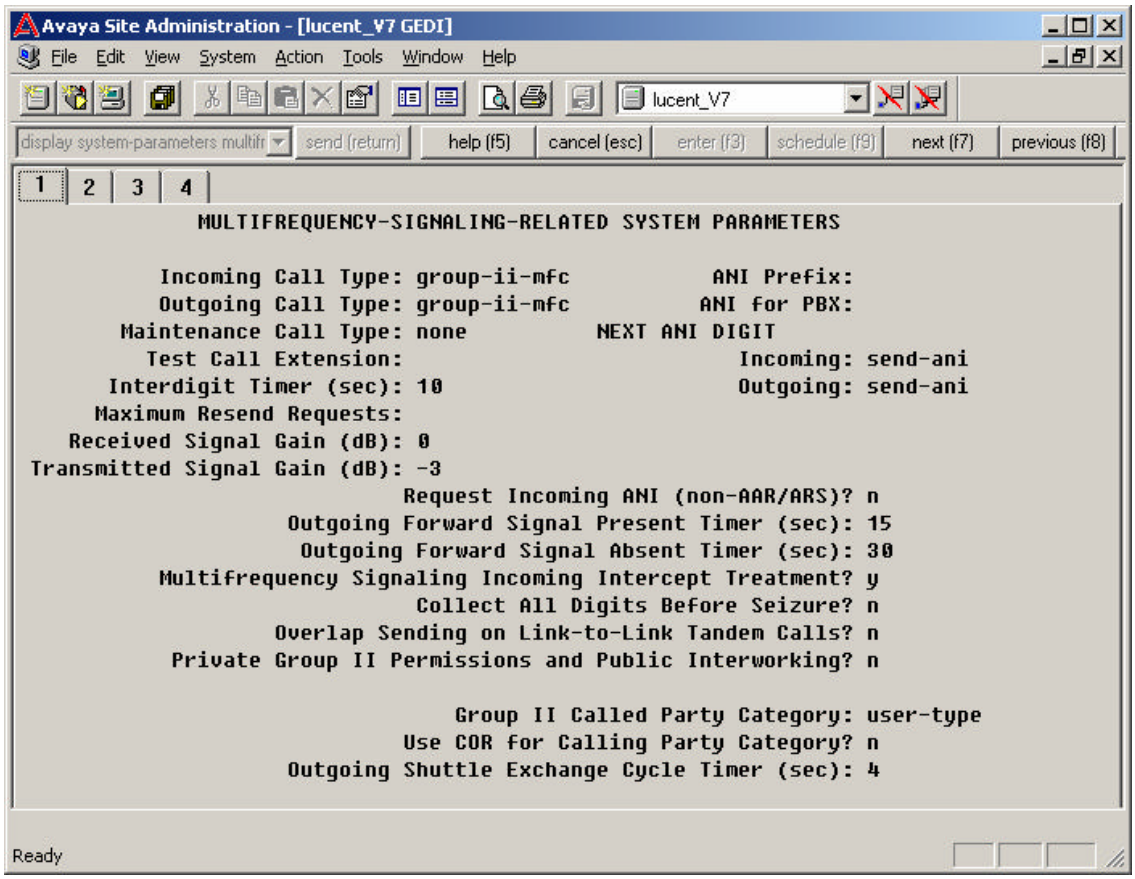

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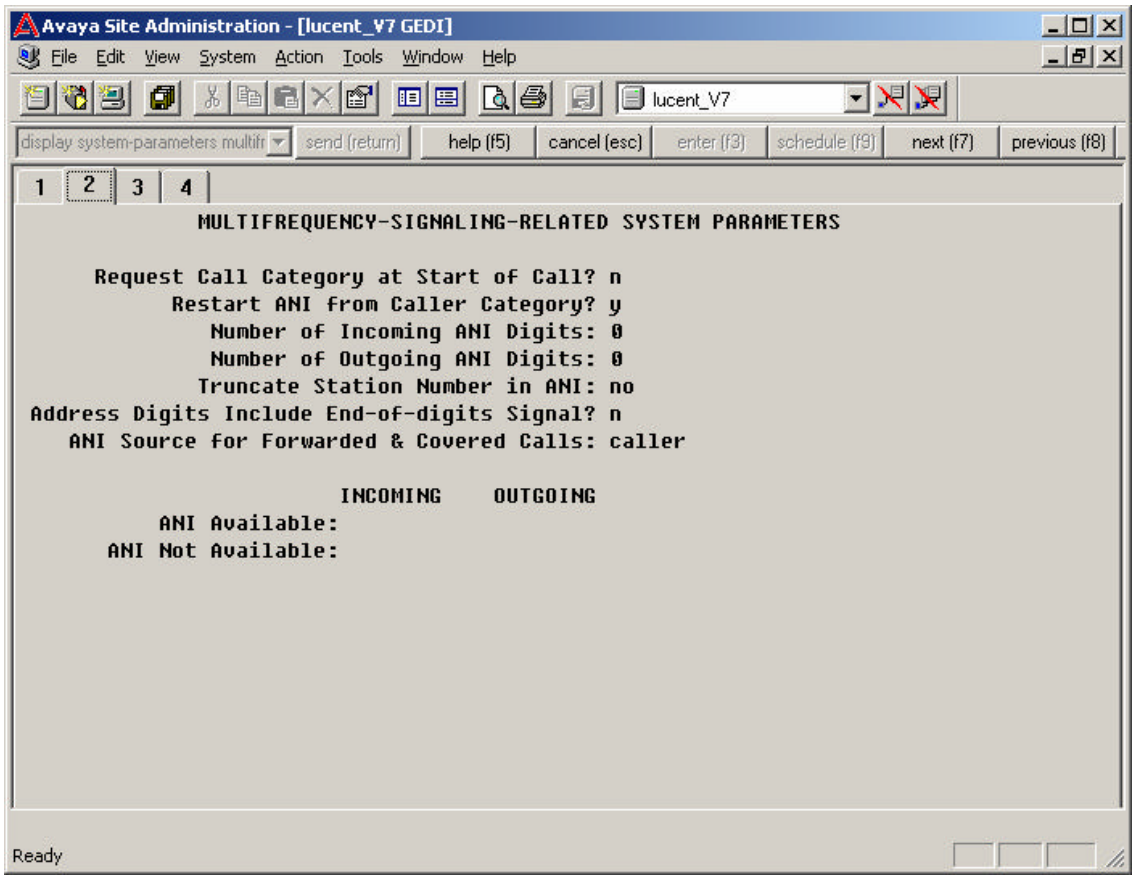

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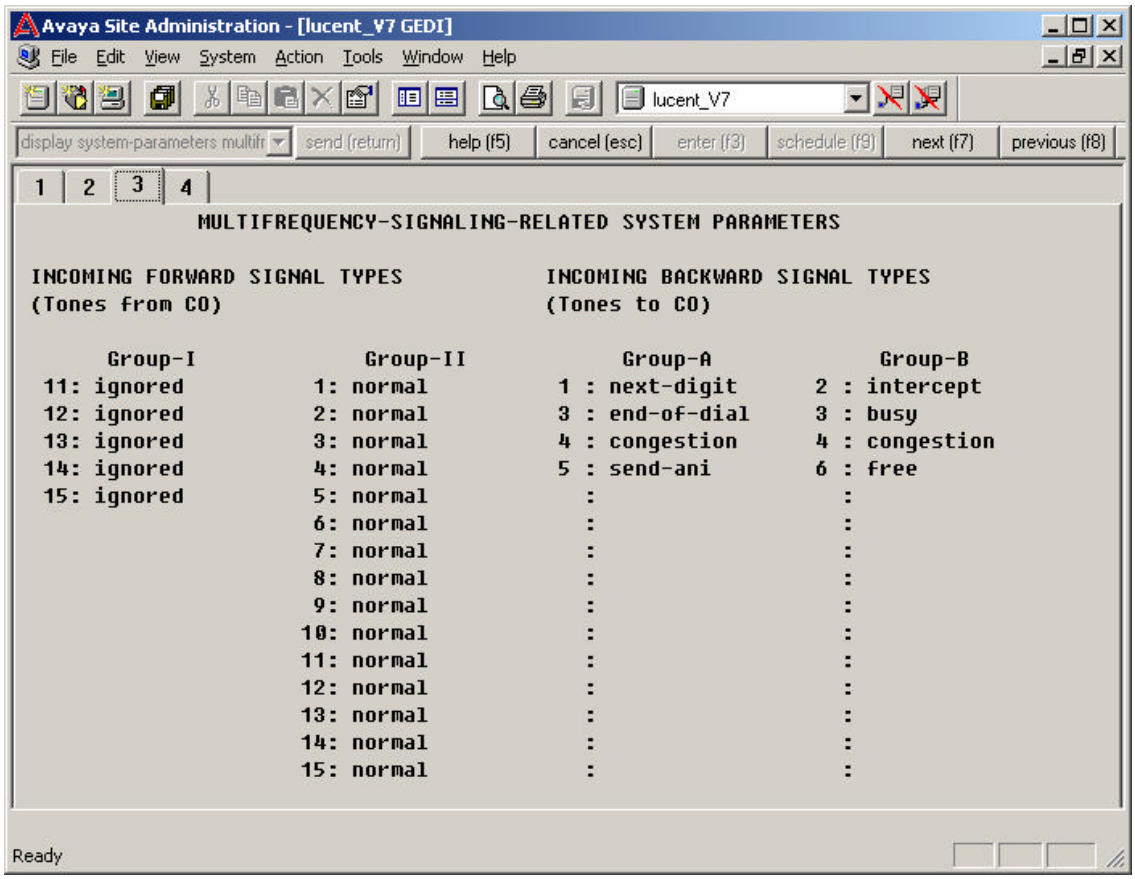

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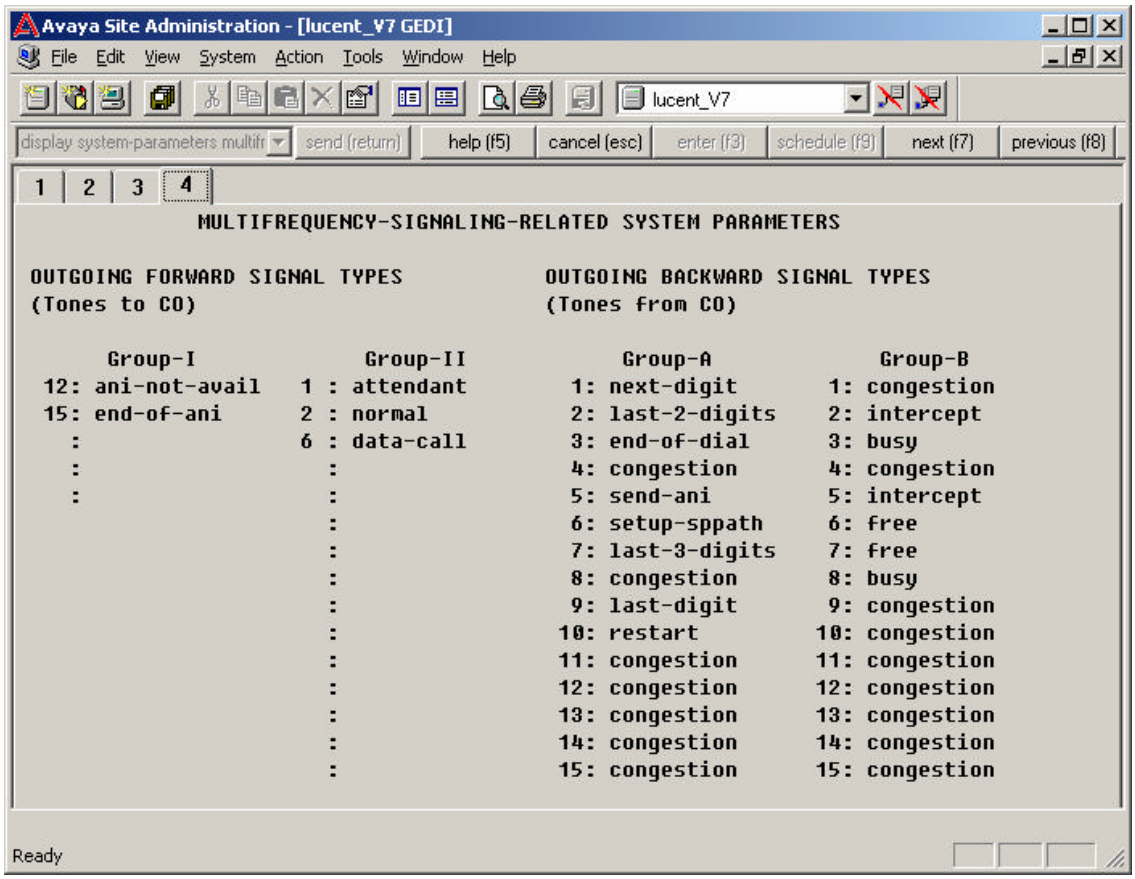

Configuring the Cisco 3745 Router

```
c3745#show running
Building configuration...
Current configuration : 1514 bytes
!
version 12.2
service timestamps debug datetime msec
service timestamps log uptime
no service password-encryption
!
hostname c3745
!
boot system flash:c3745-jsx-mz-v122_15_zj_throttle.0.5.0
```

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```
logging queue-limit 100
logging buffered 1000000 debugging
!
ip subnet-zero
!
no ip domain lookup
!
mpls ldp logging neighbor-changes
isdn switch-type primary-ni
!
voice-card 2
 no dspfarm
!
voice-card 3
 no dspfarm
!
voice rtp send-recv
!
no voice hpi capture buffer
no voice hpi capture destination
!
mta receive maximum-recipients 0
!
controller E1 2/0
 ds0-group 1 timeslots 1-5 type r2-analog r2-compelled ani
 cas-custom 1
  country argentina
!
controller E1 2/1
!
interface FastEthernet0/0
```

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```
 ip address 100.1.1.1 255.255.255.0
 duplex auto
 speed auto
!
interface FastEthernet0/1
 ip address 172.20.8.20 255.255.255.0
 duplex auto
 speed auto
!
ip default-gateway 10.1.1.2
ip http server
ip classless
ip route 0.0.0.0 0.0.0.0 FastEthernet0/1
!
call rsvp-sync
!
voice-port 2/0:1
 cptone AR
!
voice-port 2/1/0
!
voice-port 2/1/1
!
mgcp profile default
!
dial-peer cor custom
!
dial-peer voice 1 pots
 destination-pattern 20..
 direct-inward-dial
 port 2/0:1
```

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```
 prefix 20
!
dial-peer voice 3 voip
 destination-pattern 26..
 session target ipv4:100.1.1.2
!
dial-peer voice 4 voip
 destination-pattern 4000
 session target ipv4:100.1.1.2
!
dial-peer voice 2 pots
 destination-pattern 3000
 port 2/1/1
!
line con 0
line aux 0
line vty 0 4
 login
!
end
```

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