

Cisco 3745 Gateway - PBX Interoperability: Lucent Definity G3r PBX using Analog E&M Interfaces to an H.323 Gateway

Introduction

This document contains the results for PBX interoperability testing between PBXs and the Cisco Network Module with E&M to the FXS Voice Interface Cards installed in Cisco voice gateways.

Network Topology

The following diagram shows a pair of Cisco voice gateways that are configured for back-to-back VoIP operation. In this example, connectivity and interoperability is achieved through a Lucent Definity G3r V7 PBX that is connected to a Cisco 3745 back-to-back via an Ethernet connection to a Cisco 2651XM connected to a Lucent Definity G3r V6 PBX.

Phone A ext-4004 PBX A Lucent Definity G3r v7 E&M type I I/S FXS CO Trunk -1xxxx Router-B C2650XM Phone C PBX B Lucent Definity G3r v6

Basic Test Configuration

Limitations

None

System Components

Hardware Requirements

- Cisco 3745 gateway
- Lucent Definity G3r PBX V7

Software Requirements

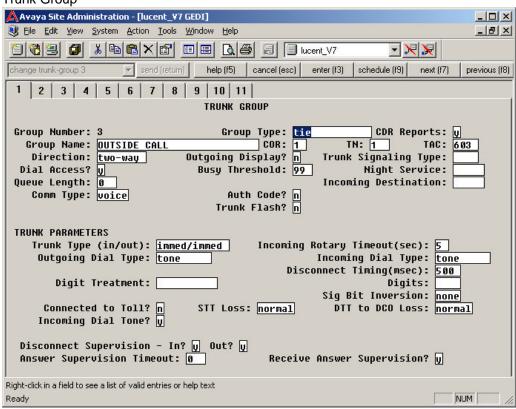
- Cisco IOS Software Release 12.2(15)ZJ (c3745-jsx-mz-v122_15_zj_throttle.0.5.0)
- Lucent Definity PBX Software Release G3r V7
- VIC-VG-2E/M network module



Configuration

Configuring the Lucent Definity G3r V7

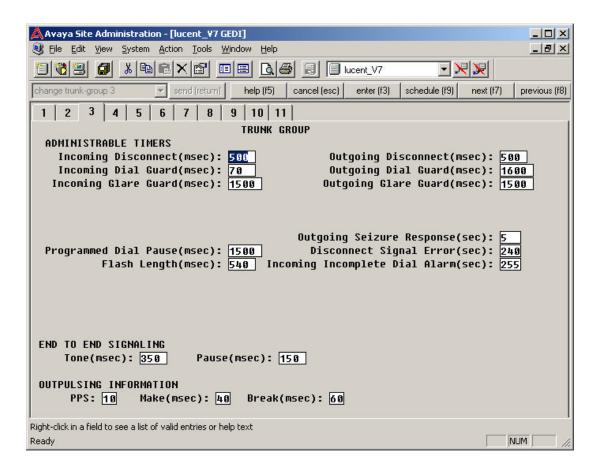
Trunk Group



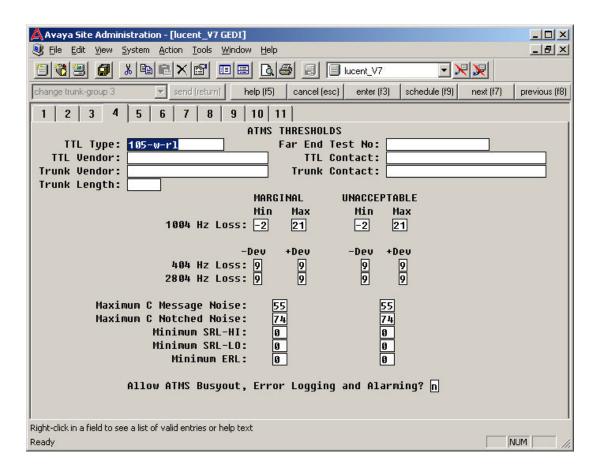


Avaya Site Administration - [lucent_Y7 GEDI]	X
File Edit View System Action Tools Window Help	
[] (] []	
change trunk-group 3 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) pro	evious (f8)
1 2 3 4 5 6 7 8 9 10 11	
TRUNK FEATURES ACA Assignment? Internal Alert? Data Restriction? Output Data Restriction?	ע
Used for DCS? <mark>n</mark> Suppress # Outpulsing? n Seize When Maintenance Busy: <u>neither-end</u>	
Incoming Tone (DTMF) ANI: no Per Call CPN Blocking Code: Connected to CO? n Per Call CPN Unblocking Code:	
Right-click in a field to see a list of valid entries or help text Ready NUM	

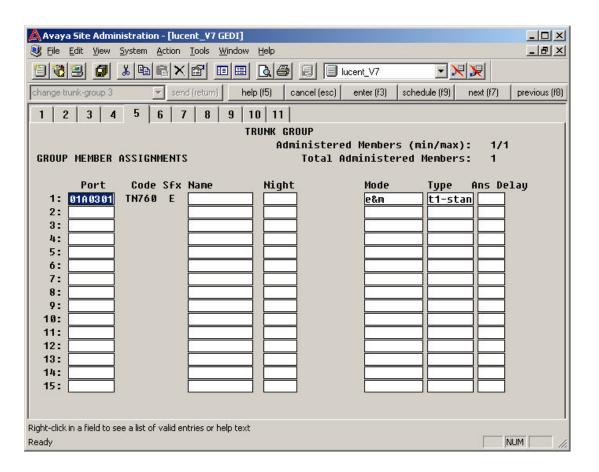




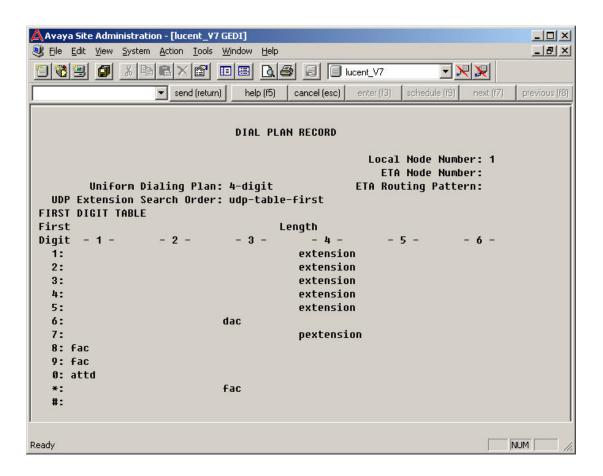




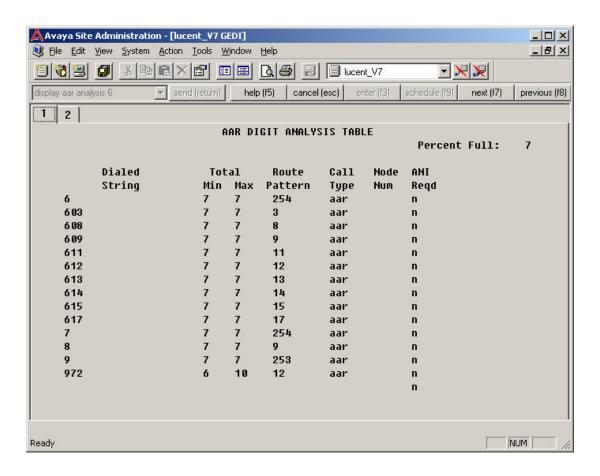












Configuring the Cisco 3745 Gateway

```
Router# show running config
Building configuration...

Current configuration : 1694 bytes
!

version 12.2

service timestamps debug uptime

service timestamps log uptime

no service password-encryption
!

hostname c3745
```



```
boot system flash:c3745-jsx-mz-v122_15_zj_throttle.0.5.0
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-card 4
no dspfarm
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
 metering
 dnis-digits min 4 max 5
```



```
controller E1 2/1
interface FastEthernet0/0
 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
voice-port 2/1/0
voice-port 2/1/1
voice-port 4/0/0
operation 4-wire
signal immediate
voice-port 4/0/1
 operation 4-wire
```



```
mgcp profile default
dial-peer cor custom
dial-peer voice 1 pots
destination-pattern 20..
port 4/0/0
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
dial-peer voice 5 voip
destination-pattern 4004
session target ipv4:100.1.1.2
gatekeeper
 shutdown
line con 0
line aux 0
line vty 0 4
login
```



!

end

Important Information

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.





Corporate Headquarters

Cisco Systems, Inc. 170 West Tasman Drive San Jose, CA 95134-1706 USA www.cisco.com Tel: 408 526-4000

800 553-NETS (6387)

Fax: 408 526-4100

European Headquarters

Cisco Systems International BV

Haarlerbergpark Haarlerbergweg 13-19 1101 CH Amsterdam The Netherlands www-europe.cisco.com

Tel: 31 0 20 357 1000 Fax: 31 0 20 357 1100

Americas Headquarters

Cisco Systems, Inc. 170 West Tasman Drive San Jose, CA 95134-1706

USA

www.cisco.com Tel: 408 526-7660 Fax: 408 527-0883 Asia Pacific Headquarters

Cisco Systems, Inc. Capital Tower 168 Robinson Road #22-01 to #29-01 Singapore 068912 www.cisco.com

Tel: +65 317 7777 Fax: +65 317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on the Cisco Web site at www.cisco.com/go/offices.

Argentina • Australia • Australia • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia • Czech Republic • Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland • Israel • Italy • Japan • Korea • Luxembourg • Malaysia • Mexico• The Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal • Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden • Switzerland • Taiwan • Thailand • Turkey Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

Copyright 2003 Cisco Systems, Inc. All rights reserved. Cisco, Cisco Systems, and the Cisco Systems logo are registered trademarks or trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and certain other countries. All other trademarks mentioned in this document or Web site are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0301R)