

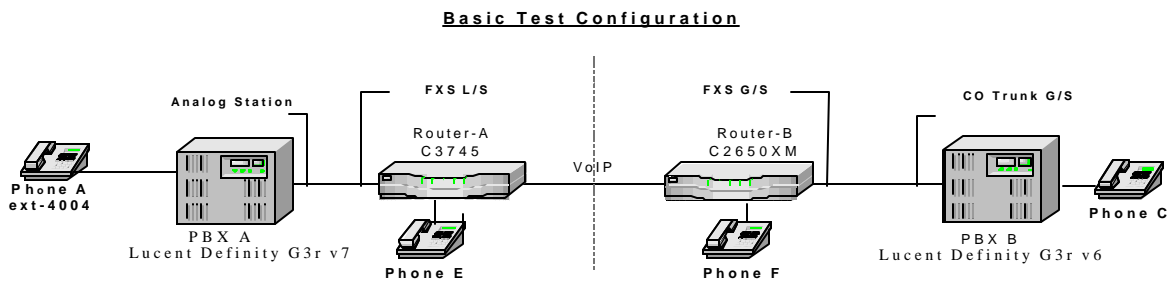
# Cisco 3745 Gateway - PBX Interoperability: Lucent Definity G3r PBX using Analog FXO Interfaces to an H.323 Gateway

## Introduction

This document contains the test results for PBX interoperability between PBXs and the Cisco Network Module with 4FXO to 2FXS Cisco voice interface cards installed in Cisco voice gateways.

## Network Topology

The following diagram shows a sample configuration for a pair of Cisco voice gateways. The Cisco voice gateways are configured for back-to-back VoIP operation. In this example, a Lucent Definity G3r V7 PBX is connected to a Cisco 3745, which is configured back-to-back via an Ethernet to a Cisco 2651XM connected to a Lucent Definity G3r V6 PBX.



## Limitations

None

## System Components

### Hardware Requirements

- Cisco 3745 gateway
- VIC-VG-4FXO and VIC-VG-4FXO network modules
- Lucent Definity G3r, Version 7





Avaya Site Administration - [lucent\_V7 GEDI]

File Edit View System Action Tools Window Help

lucent\_V7

change station 2103 send (return) help (F5) cancel (esc) enter (F3) schedule (F9) next (F7) previous (F8)

1 2 3

STATION

FEATURE OPTIONS

LWC Reception:	msa-spe	Coverage Msg Retrieval?	y
LWC Activation?	y	Auto Answer:	none
CDR Privacy?	n	Data Restriction?	n
Redirect Notification?	y	Call Waiting Indication?	y
Per Button Ring Control?	n	Att. Call Waiting Indication?	y
Bridged Call Alerting?	n	Distinctive Audible Alert?	y
Switchhook Flash?	y	Adjunct Supervision?	y
Ignore Rotary Digits?	n		
H.320 Conversion?	n	Per Station CPN - Send Calling Number?	<input type="checkbox"/>
		Audible Message Waiting?	n

MWI Served User Type:

Select an entry from the list

Ready

NUM



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send (return) help (F5) cancel (esc) enter (F3) schedule (F9) next (F7) previous (F8)

**DIAL PLAN RECORD**

Local Node Number: 1  
ETA Node Number:  
ETA Routing Pattern:

Uniform Dialing Plan: 4-digit  
UDP Extension Search Order: udp-table-first

**FIRST DIGIT TABLE**

First Digit	1	2	3	4	5	6
1:				extension		
2:				extension		
3:				extension		
4:				extension		
5:				extension		
6:			dac			
7:				pextension		
8:	fac					
9:	fac					
0:	attd					
*			fac			
#:						

Ready NUM

## Configuring the Cisco 3745 Gateway

```
Router# show running config
```

```
Building configuration...
```

```
Current configuration : 2004 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  
  timeouts call-disconnect 1  
  timeouts ringing 18  
  timeouts wait-release 3  
  supervisory disconnect dualtone mid-call
```



```
!  
voice-port 4/0/1  
    timing inter-digit 500  
!  
voice-port 4/0/2  
!  
voice-port 4/0/3  
!  
mgcp profile default  
!  
dial-peer cor custom  
!  
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 5 voip  
    destination-pattern 4004  
    session target ipv4:100.1.1.2  
!  
dial-peer voice 100 pots  
    destination-pattern 2400  
    port 4/0/0  
!  
dial-peer voice 101 pots  
    destination-pattern 2401  
    port 4/0/1
```



```
!  
dial-peer voice 102 pots  
  destination-pattern 2402  
  port 4/0/2  
!  
dial-peer voice 103 pots  
  destination-pattern 2403  
  port 4/0/3  
!  
dial-peer voice 1 pots  
  destination-pattern 3000  
  port 2/1/1  
!  
gatekeeper  
  shutdown  
!  
line con 0  
line aux 0  
line vty 0 4  
  login  
!  
end
```

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