

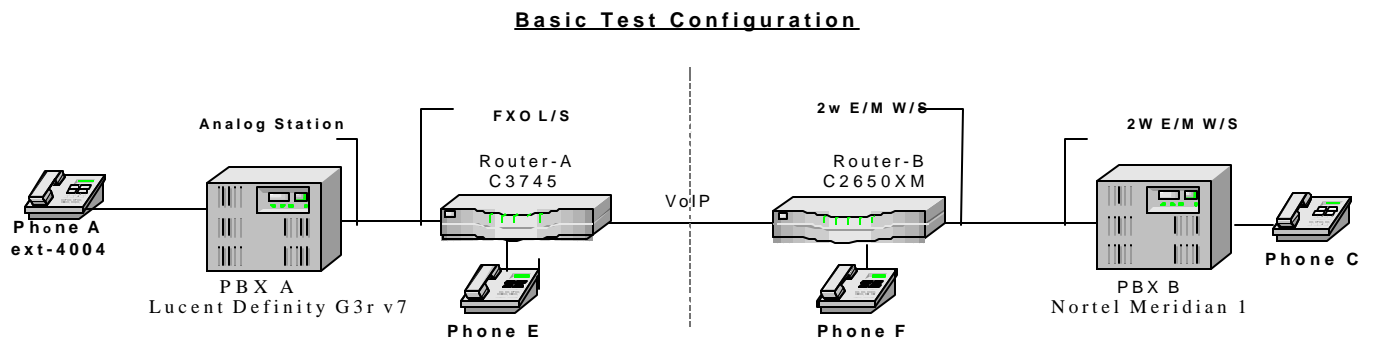
Cisco 3745 Gateway - PBX Interoperability: Avaya Definity G3 PBX using Analog FXO Interfaces to an H.323 Gateway

Introduction

- This note describes the interoperability between the Avaya Definity G3 PBX using analog FXO interfaces to a Cisco 3745 H.323 gateway.
- The Network Topology diagram shows the end-to-end interoperability.

Network Topology

Figure 1. Network Topology



Limitations

- None noted.

System Components

Hardware Requirements

- Cisco 3745
- Avaya Definity G3r PBX
- VIC-VG-2FX0

Software Requirements

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



Avaya Site Administration - [Lucent_V7 GEDI]

File Edit View System Action Tools Window Help

change station 2103 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 | 2 | 3 |

STATION

Extension: 2103	Lock Messages? <input type="text" value="n"/>	BCC: 0
Type: <input type="text" value="2500"/>	Security Code: <input type="text"/>	TN: <input type="text" value="1"/>
Port: <input type="text" value="01A0503"/>	Coverage Path 1: <input type="text"/>	COR: <input type="text" value="1"/>
Name: <input type="text" value="Lucent-V7-A3"/>	Coverage Path 2: <input type="text"/>	COS: <input type="text" value="1"/>
	Hunt-to Station: <input type="text"/>	Tests? <input type="text" value="y"/>

STATION OPTIONS

Off Premise Station? <input type="text" value="n"/>	Message Waiting Indicator: <input type="text"/>
---	---

Right-click in a field to see a list of valid entries or help text

Ready



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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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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 -	Length	- 4 -	- 5 -	- 6 -
1:				extension			
2:				extension			
3:				extension			
4:				extension			
5:				extension			
6:			dac				
7:				peextension			
8:	fac						
9:	fac						
0:	attd						
*			fac				
#:							

Ready NUM

Configuring the Cisco 3745 Router

- The following sample output shows the router configuration for interoperability with the PBX.

```
c3745#sho run
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
!
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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