

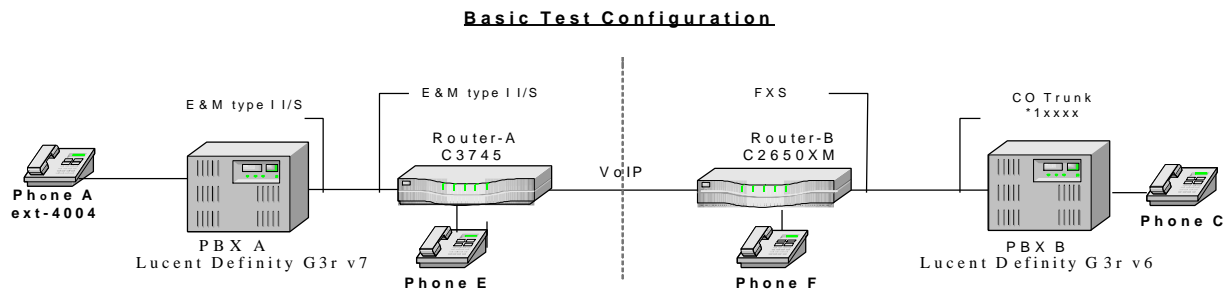
Cisco 2650XM Gateway - PBX Interoperability: Lucent Definity G3r PBX using Analog FXO Interfaces to an H.323 Gateway

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.



Limitations

None

System Components

Hardware Requirements

- Cisco 2651XM gateway
- Lucent Definity G3r PBX, Version 6

Software Requirements

- Cisco IOS Software Release 12.2(15)ZJ (c2600-jsx-mz-v122_15_zj_throttle.0.5.0)
- Lucent Definity PBX Software Release G3r V6
- VIC-VG-2FXS network module



Configuration

Configuring the Lucent Definity G3r V6

Trunk Group

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Lucent_V6

change trunk-group 7 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous

1 2 3 4 5 6 7 8 9 10 11

TRUNK GROUP

Group Number: 7 Group Type: CO CDR Reports: y

Group Name: CO TRUNK - SLOT 7 COR: 1 TN: 1 TAC: 607

Direction: two-way Outgoing Display? y

Dial Access? y Busy Threshold: 99 Night Service:

Queue Length: 0 Country: 1 Incoming Destination: 4004

Comm Type: voice Auth Code? n Digit Absorption List:

Prefix-1? n Trunk Flash? n Toll Restricted? n

TRUNK PARAMETERS

Trunk Type: loop-start

Outgoing Dial Type: tone Cut-Through? y

Trunk Termination: 600ohm Disconnect Timing(msec): 500

Auto Guard? n Call Still Held? n Sig Bit Inversion: none

Terminal Balanced? n RA Trunk Loss: 0db

Trunk Gain: high

Disconnect Supervision - In? y Out? n Cyclical Hunt? n

Answer Supervision Timeout: 10 Receive Answer Supervision? n

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

Ready NUM



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1 2 3 4 5 6 7 8 9 10 11

TRUNK GROUP

ADMINISTRABLE TIMERS

| | | | |
|------------------------------|------|---------------------------------|------|
| Incoming Disconnect(msec): | 500 | Outgoing Disconnect(msec): | 500 |
| Incoming Glare Guard(msec): | 1500 | Outgoing Dial Guard(msec): | 1600 |
| | | Outgoing Glare Guard(msec): | 1500 |
| Ringing Monitor(msec): | 5200 | Incoming Seizure(msec): | 500 |
| Outgoing End of Dial(sec): | 10 | Outgoing Seizure Response(sec): | 5 |
| Programmed Dial Pause(msec): | 1500 | | |
| Flash Length(msec): | 540 | | |

END TO END SIGNALING

| | | | |
|-------------|-----|--------------|-----|
| Tone(msec): | 350 | Pause(msec): | 150 |
|-------------|-----|--------------|-----|

OUTPUTSING INFORMATION

| | | | | | | | |
|------|----|-------------|----|--------------|----|------|---|
| PPS: | 10 | Make(msec): | 40 | Break(msec): | 60 | PPM? | n |
|------|----|-------------|----|--------------|----|------|---|

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1 2 3 4 5 6 7 8 9 10 11

ATMS THRESHOLDS

TTL Type: 105-w-r1 Far End Test No:

TTL Vendor: TTL Contact:

Trunk Vendor: Trunk Contact:

Trunk Length:

| | MARGINAL | | UNACCEPTABLE | |
|--------------------------|----------|------|--------------|------|
| | Min | Max | Min | Max |
| 1004 Hz Loss: | -2 | 21 | -2 | 21 |
| | -Dev | +Dev | -Dev | +Dev |
| 404 Hz Loss: | 9 | 9 | 9 | 9 |
| 2804 Hz Loss: | 9 | 9 | 9 | 9 |
| Maximum C Message Noise: | 55 | | 55 | |
| Maximum C Notched Noise: | 74 | | 74 | |
| Minimum SRL-HI: | 0 | | 0 | |
| Minimum SRL-LO: | 0 | | 0 | |
| Minimum ERL: | 0 | | 0 | |

Allow ATMS Busyout, Error Logging and Alarming? n

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change trunk-group 7 send (return) help (F5) cancel (esc) enter (F3) schedule (F9) next (F7) previous

1 2 3 4 5 6 7 8 9 10 11

TRUNK GROUP

Administered Members (min/max): 1/1
Total Administered Members: 1

GROUP MEMBER ASSIGNMENTS

| | Port | Code | Sfx | Name | Night | Mode | Type | Ans | Delay |
|-----|---------|-------|-----|------------|-------|------|------|-----|-------|
| 1: | 01A0701 | TN747 | B | CO-TRK-701 | | | | | |
| 2: | | | | | | | | | |
| 3: | | | | | | | | | |
| 4: | | | | | | | | | |
| 5: | | | | | | | | | |
| 6: | | | | | | | | | |
| 7: | | | | | | | | | |
| 8: | | | | | | | | | |
| 9: | | | | | | | | | |
| 10: | | | | | | | | | |
| 11: | | | | | | | | | |
| 12: | | | | | | | | | |
| 13: | | | | | | | | | |
| 14: | | | | | | | | | |
| 15: | | | | | | | | | |

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Ready NUM

Configuring the Cisco 2651XM

```
Router# show running config
```

```
Building configuration...
```

```
Current configuration : 1591 bytes
```

```
!
```

```
version 12.2
```

```
service timestamps debug datetime msec
```

```
service timestamps log uptime
```

```
no service password-encryption
```

```
!
```

```
hostname C2651XM
```



```
!  
boot system flash:c2600-jsx-mz-v122_15_zj_throttle.0.5.0  
logging queue-limit 100  
logging buffered 1000000 debugging  
!  
ip subnet-zero  
ip tcp synwait-time 13  
!  
no ip domain lookup  
!  
mpls ldp logging neighbor-changes  
!  
voice-card 1  
!  
voice call carrier capacity active  
!  
no voice hpi capture buffer  
no voice hpi capture destination  
!  
!  
mta receive maximum-recipients 0  
!  
interface FastEthernet0/0  
ip address 100.1.1.2 255.255.255.0  
no ip mroute-cache  
duplex auto  
speed 100  
!  
interface FastEthernet0/1  
ip address 172.20.8.30 255.255.255.0  
no ip mroute-cache  
duplex auto
```



```
speed auto
!
ip http server
ip classless
ip route 0.0.0.0 0.0.0.0 FastEthernet0/1
!
dialer-list 1 protocol ip permit
!
call rsvp-sync
!
voice-port 1/1/0
!
voice-port 1/1/1
!
mgcp profile default
!
dial-peer cor custom
!
dial-peer voice 2 voip
  destination-pattern 20..
  session target ipv4:100.1.1.1
!
dial-peer voice 1 voip
  destination-pattern 3000
  session target ipv4:100.1.1.1
!
dial-peer voice 3 pots
  destination-pattern 26..
  prefix 26
!
dial-peer voice 4 pots
  destination-pattern 4000
```



```
port 1/1/0
!
dial-peer voice 999 pots
  incoming called-number .
  destination-pattern 26..
  direct-inward-dial
!
dial-peer voice 5 pots
  destination-pattern 4004
  port 1/1/1
!
gatekeeper
  shutdown
!
line con 0
  exec-timeout 0 0
line aux 0
  exec-timeout 0 0
line vty 0 4
  exec-timeout 0 0
  password c
  no login
line vty 5 15
  no login
!
end
```




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