

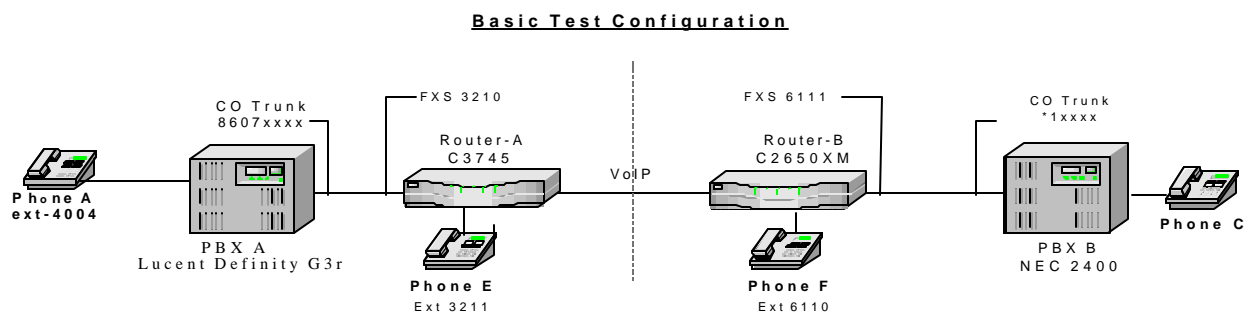
Cisco 3745 Gateway - PBX Interoperability: Avaya Definity G3 PBX using Analog FXS Interfaces to an H.323 Gateway

Introduction

- This note describes the interoperability between the Avaya Definity G3 PBX and a Cisco 3745 Network Module using analog FXS interfaces to an 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 Network Module
- Cisco VIC-VG-2FXS
- Avaya Definity G3r PBX

Software Requirements

- Cisco IOS Software Release 12.2(15)ZJ
- PBX Software Release, Version 6



Configuration

Configuring the Avaya Definity G3r PBX

Configure the Avaya Definity G3r PBX. Use the following screen as a reference.

The screenshot shows the Avaya Site Administration interface for a Lucent_V6 GEDI system. The main window displays the configuration for Trunk Group 7. The interface includes a menu bar (File, Edit, View, System, Action, Tools, Window, Help), a toolbar with various icons, and a command line at the top with the text "change trunk-group 7". Below the command line is a grid of numbers 1 through 11. The main configuration area is titled "TRUNK GROUP" and contains the following fields:

- Group Number: 7
- Group Name: CO TRUNK - SLOT 7
- Direction: two-way
- Queue Length: 0
- Comm Type: voice
- Prefix-1?: n
- Group Type: CO
- COR: 1
- Country: 1
- Auth Code?: n
- Trunk Flash?: n
- CDR Reports: y
- TN: 1
- TAC: 607
- Outgoing Display?: y
- Busy Threshold: 99
- Night Service: [empty]
- Incoming Destination: 4004
- Digit Absorption List: [empty]
- Toll Restricted?: n

Below the main configuration is a section titled "TRUNK PARAMETERS" with the following fields:

- Trunk Type: loop-start
- Outgoing Dial Type: tone
- Trunk Termination: 600ohm
- Auto Guard?: n
- Terminal Balanced?: n
- Call Still Held?: n
- Trunk Gain: high
- Cut-Through?: y
- Disconnect Timing(msec): 500
- Sig Bit Inversion: none
- RA Trunk Loss: 0db

At the bottom of the configuration area, there are two rows of fields:

- Disconnect Supervision - In?: y, Out?: n
- Answer Supervision Timeout: 10
- Cyclical Hunt?: n
- Receive Answer Supervision?: n

At the bottom of the window, there is a status bar that says "Right-click in a field to see a list of valid entries or help text" and "Ready".

Configuring the Cisco 3745 Router

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

```
c3745#show running
Building configuration...

Current configuration : 2038 bytes
!
version 12.3
hostname c3745
!
```



```
boot system slot0:c3745-jsx-mz.mcebu_sb.0.7.0
logging queue-limit 100
logging buffered 1000000 debugging
!
ip subnet-zero
!
no ip domain lookup
!
mpls ldp logging neighbor-changes
isdn switch-type primary-qsig
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
!
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 10.1.1.9 255.255.255.0
  duplex auto
  speed auto
!
ip default-gateway 10.1.1.2
ip http server
ip classless
!
call rsvp-sync
!
voice-port 2/1/0
  ring cadence pattern06
!
voice-port 2/1/1
  ring cadence pattern06
!
voice-port 4/1/0
  no battery-reversal
!
voice-port 4/1/1
!
!
mgcp profile default
!
```



```
!  
dial-peer cor custom  
!  
dial-peer voice 4 voip  
  destination-pattern 6...  
  session target ipv4:100.1.1.2  
!  
dial-peer voice 5 pots  
  destination-pattern 3410  
  port 4/1/0  
!  
dial-peer voice 6 pots  
  destination-pattern 3411  
  port 4/1/1  
!  
dial-peer voice 7 pots  
  destination-pattern 3412  
!  
dial-peer voice 8 pots  
  destination-pattern 3413  
!  
dial-peer voice 11 pots  
  destination-pattern 3211  
  port 2/1/1  
!  
dial-peer voice 10 pots  
  destination-pattern 3210  
  port 2/1/0  
!
```

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