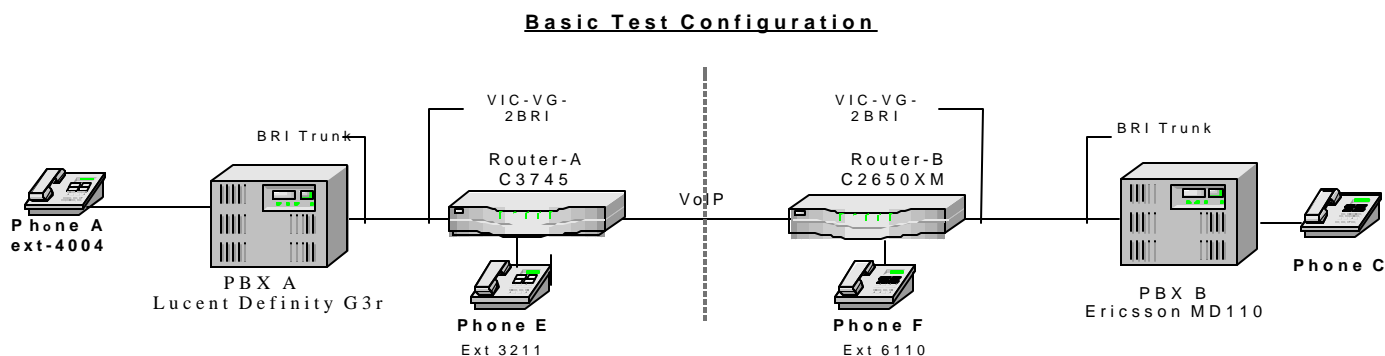


Cisco 2650XM Gateway-PBX Interoperability: Ericsson MD110 PBX Using Q.931 BRI Interfaces to an H.323 Gateway

Introduction

- This note describes the interoperability of a Ericsson MD110 PBX to a Cisco 2650XM router.
- The network topology diagram shows the set up for end-to-end interoperability between PBXs.

Network Topology



System Components

Hardware Requirements

- Cisco Hardware
Cisco 2650XM router with IP Communications Voice or Fax Network Module using the Voice Interface Card (VIC)-Voice Grade (VG)-dual Basic Rate Interface (BRI)
- PBX Hardware.
Ericsson MD110 – BC11 SPB / R4A

Software Requirements

- Cisco IOS Software Release 12.2(15)ZJ
- PBX Software Release 4A



Configuration

Configuring the Ericsson MD110 PBX BRI

CO Trunk

SYSTEM EQUIPMENT DATA

EQU	BOARDID	TYPE	DIR	ROU/TRU
001-0-42-00	58	SL60		40/001-01
001-0-42-01	58	SL60		40/001-02

Trunk Group

IDENTITY=D+S-EURO-TEST

VERSION=CXP1010001/3/BC11SP8/R4A

EXTERNAL DESTINATION ROUTE DATA

DEST	DRN	ROU	CHO	CUST	ADC	TRC	SRT	NUMACK	PRE
35		40			12250000000002501020011	0	3	0	

ROUTE CATEGORY DATA

ROU	SEL	TRM	SERV	NODG	DIST	DISL	TRAF	SIG	BCAP
40	211000000070001	5	0010000011	0	30	128	00151515	111110000031	001100

ROUTE DATA

ROU	TYPE	VARC	VARI	VARO	FILTER
40	SL60	H'00000B14	H'3A820000	H'46415000	NO

ROUTE EQUIPMENT DATA

ROU	TRU	EQU	SQU	INDDAT
40	001-1	001-0-42-00		H'000000000000
40	001-2	001-0-42-01		H'000000000000

ROU	TRU	TYPE	TRAFFIC	STATE/PTR	LINE	STATE/PTR	ADD	INFO
40	001-1	TL60	IDLE	#00D1	FREE	#00BD		
40	001-2	TL60	IDLE	#00D0	FREE	#00BC		



Configuring the Cisco 2651XM Router

Building configuration...

Current configuration : 2191 bytes

```
!  
version 12.2  
service timestamps debug uptime  
service timestamps log uptime  
no service password-encryption  
!  
hostname C2651XM  
!  
boot system flash:c2600-js-mz-mcebu_sb.0.5.0  
logging buffered 1000000 debugging  
enable password cisco  
!  
ip subnet-zero  
ip tcp synwait-time 13  
!  
no ip domain lookup  
!  
mpls ldp logging neighbor-changes  
isdn switch-type basic-net3  
!  
voice-card 1  
!  
voice call carrier capacity active  
!  
no voice hpi capture buffer  
no voice hpi capture destination  
!
```



```
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 10.1.1.9 255.255.255.0

  no ip mroute-cache

  duplex auto

  speed auto

!

interface BRI1/0

  no ip address

  no ip route-cache

  no ip mroute-cache

  isdn switch-type basic-net3

  isdn overlap-receiving

  isdn protocol-emulate network

  isdn layer1-emulate network

  isdn incoming-voice voice

  isdn static-tei 0

  isdn skipsend-idverify

!

interface BRI1/1

  no ip address

  shutdown

  isdn switch-type basic-net3

!

ip http server

ip classless
```



```
!  
dialer-list 1 protocol ip permit  
!  
call rsvp-sync  
!  
voice-port 1/0/0  
    compand-type a-law  
!  
voice-port 1/0/1  
!  
voice-port 1/1/0  
!  
voice-port 1/1/1  
!  
mgcp profile default  
!  
dial-peer cor custom  
!  
dial-peer voice 2 voip  
    destination-pattern 2...  
    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 1...  
    direct-inward-dial  
    port 1/0/0  
    prefix 1
```



```
!  
dial-peer voice 4 pots  
    destination-pattern 4000  
!  
!  
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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