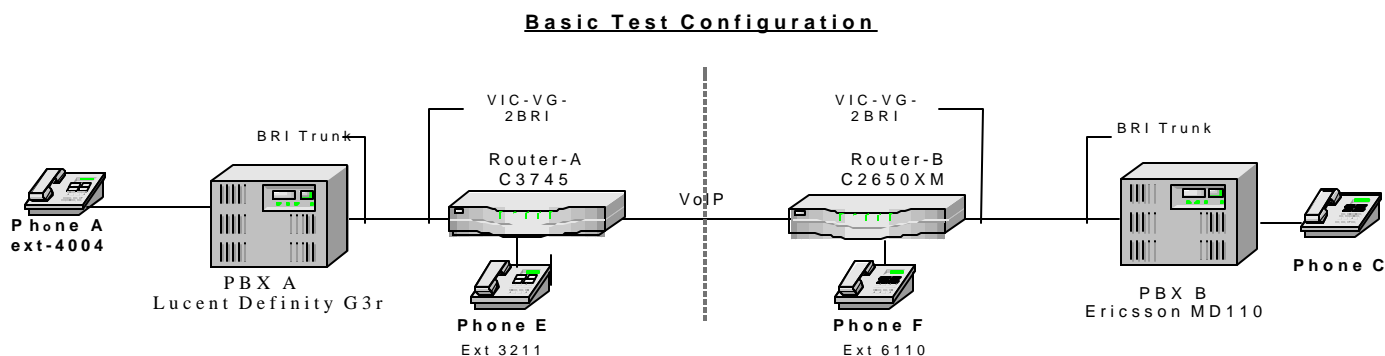# Cisco 2650XM Gateway-PBX Interoperability: Ericsson MD110 PBX Using Q.931 BRI Interfaces to an H.323 Gateway

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

Basic Test Configuration

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

EDCS#280785

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
CNTRL				
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-emlulate 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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