

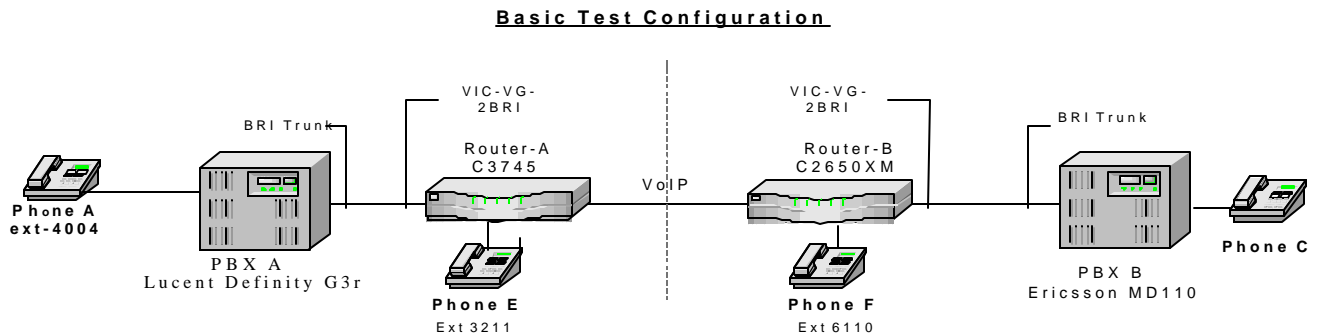
Cisco 2651XM Gateway - PBX Interoperability: Ericsson MD-110 PBX using Q.931 BRI User Side Interfaces to an H.323 Gateway

Introduction

- This note describes the interoperability between the Ericsson MD110 PBX using Q.931 BRI user side interfaces to a Cisco 2651XM gateway.
- The Network Topology diagram shows the end-to-end interoperability.

Network Topology

Figure 1. Network Topology



Limitations

- None noted.

System Components

Hardware Requirements

- Ericsson MD110 PBX
- Cisco 2651XM gateway
- VIC-VG-2BRI

Software Requirements

- Cisco IOS Software Release 12.2(15)ZJ
- PBX Software Release, BC11 SPB/R4A



Configuration

Configuring the Ericsson MD110

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

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

```
C2651XM#wr t
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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**Corporate Headquarters**

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters

Cisco Systems International BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: 31 0 20 357 1000
Fax: 31 0 20 357 1100

Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters

Cisco Systems, Inc.
Capital Tower
168 Robinson Road
#22-01 to #29-01
Singapore 068912
www.cisco.com
Tel: +65 317 7777
Fax: +65 317 7799

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