

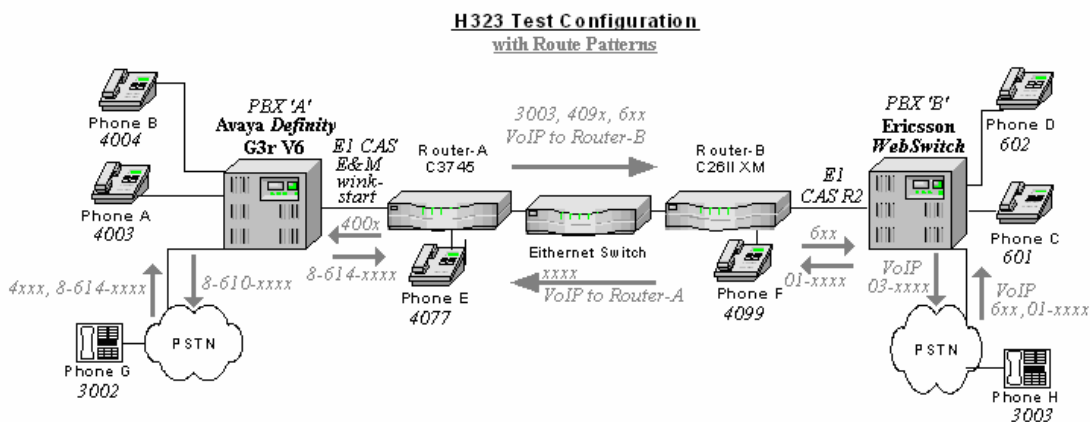
Cisco 2611XM Gateway-PBX Interoperability: Ericsson WebSwitch 2000 Using NM-HDV2-E1 CAS with H.323

Introduction

This document describes interoperability between a Cisco 2611XM gateway and an Ericsson WebSwitch 2000 PBX using an NM-HDV2-E1 CAS with H.323 VoIP.

Network Topology

The figure shows two Cisco voice gateways connected through an Ethernet switch and controlled via H.323. This document pertains to the right side that shows the Ericsson WebSwitch PBX. Network Topology



Limitations

- The correct position of jumper J7 on the NM-HDV2-T1/E1 is critical to establish Layer 1 connectivity. Looking into the NM-HDV2-T1/E1 in the direction of insertion into the router, the jumper should be placed to connect the left and middle pins.



System Components

Hardware Requirements

- Cisco 2611XM with an NM-HDV2-1T1/E1
- Ericsson WebSwitch 2000 PBX

Software Requirements

- Cisco IOS software, C2600 software (C2600-ADVENTERPRISEK9-M), Version 12.3(7)T, RELEASE SOFTWARE (fc1)
- Ericsson WebSwitch 2000 Net Manager Ver. 3.1.5, build 6, 13-May-04

Configuration

Configuring the Avaya Definity G3 V6 T1 Trunk Configuration

```
display trunk-group 14                                     Page 1 of 11
TRUNK GROUP
Group Number: 14          Group Type: tie          CDR Reports: y
Group Name: E1 E&M wink   COR: 1          TN: 1          TAC: 614
Direction: two-way       Outgoing Display? y   Trunk Signaling Type:
Dial Access? y           Busy Threshold: 99    Night Service:
Queue Length: 0          Incoming Destination:
Comm Type: voice         Auth Code? n
                          Trunk Flash? n

TRUNK PARAMETERS
Trunk Type (in/out): wink/wink   Incoming Rotary Timeout(sec):
Outgoing Dial Type: tone         Incoming Dial Type: tone
Wink Timer(msec): 300           Disconnect Timing(msec):
Digit Treatment:                Digits:
                                  Sig Bit Inversion: none
Connected to Toll? n           STT Loss: normal      DTT to DCO Loss: normal
Incoming Dial Tone? y

Disconnect Supervision - In? y  Out? y
Answer Supervision Timeout: 0   Receive Answer Supervision? y

CANCEL  REFRESH  [ ]  [ ]  HELP  GO TO  NEXT  PREV
          [ ]  [ ]  [ ]  PAGE  PAGE  PAGE
```



```
display trunk-group 14                                     Page 2 of 11
TRUNK FEATURES
  ACA Assignment? n           Measured: none
                             Internal Alert? n       Maintenance Tests? y
                             Data Restriction? n
                             Glare Handling: none
  Used for DCS? n
  Suppress # Outpulsing? n
                             Seize When Maintenance Busy: neither-end

Incoming Tone (DTMF) ANI? n
  Connected to CO? n
```

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```
display trunk-group 14                                     Page 3 of 11
TRUNK GROUP
ADMINISTRABLE TIMERS
  Incoming Disconnect(msec): 500      Outgoing Disconnect(msec): 500
  Incoming Dial Guard(msec): 70       Outgoing Dial Guard(msec): 1600
  Incoming Glare Guard(msec): 1500    Outgoing Glare Guard(msec): 1500

                                     Outgoing Seizure Response(sec): 5
  Programmed Dial Pause(msec): 1500   Disconnect Signal Error(sec): 240
  Flash Length(msec): 540             Incoming Incomplete Dial Alarm(sec): 255

END TO END SIGNALING
  Tone(msec): 350      Pause(msec): 150

OUTPULSING INFORMATION
  PPS: 10      Make(msec): 40      Break(msec): 60
```

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```
display trunk-group 14                                     Page 4 of 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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```

```
display trunk-group 14                                     Page 5 of 11
TRUNK GROUP
Administered Members (min/max): 1/29
GROUP MEMBER ASSIGNMENTS      Total Administered Members: 29

Port   Code Sfx Name      Night      Mode      Type      Ans Delay
1: 01A1401 TN464 F
2: 01A1402 TN464 F
3: 01A1403 TN464 F
4: 01A1404 TN464 F
5: 01A1405 TN464 F
6: 01A1406 TN464 F
7: 01A1407 TN464 F
8: 01A1408 TN464 F
9: 01A1409 TN464 F
10: 01A1410 TN464 F
11: 01A1411 TN464 F
12: 01A1412 TN464 F
13: 01A1413 TN464 F
14: 01A1414 TN464 F
15: 01A1415 TN464 F

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```



```
display trunk-group 14                                     Page 6 of 11
```

TRUNK GROUP							
						Administered Members (min/max):	1/29
GROUP MEMBER ASSIGNMENTS						Total Administered Members: 29	
Port	Code	Sfx	Name	Night	Mode	Type	Ans Delay
16:	01A1417	TN464	F				
17:	01A1418	TN464	F				
18:	01A1419	TN464	F				
19:	01A1420	TN464	F				
20:	01A1421	TN464	F				
21:	01A1422	TN464	F				
22:	01A1423	TN464	F				
23:	01A1424	TN464	F				
24:	01A1425	TN464	F				
25:	01A1426	TN464	F				
26:	01A1427	TN464	F				
27:	01A1428	TN464	F				
28:	01A1429	TN464	F				
29:	01A1430	TN464	F				
30:							

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Configuring the Cisco 2611XM

```
2611XM-B# show running-config
```

```
Building configuration...
```

```
Current configuration : 1657 bytes
```

```
!  
version 12.3  
service timestamps debug datetime msec  
service timestamps log datetime msec  
no service password-encryption  
!  
hostname 2611XM-B  
!  
boot-start-marker  
boot-end-marker  
!
```



```
card type e1 1 1
!
no network-clock-participate slot 1
no network-clock-participate wic 0
ip subnet-zero
!
ip cef
ip audit po max-events 100
no aaa new-model
no ftp-server write-enable
isdn switch-type primary-net5
voice-card 1
!
voice rtp send-recv
!
voice class h323 1
!
controller E1 1/0
  ds0-group 1 timeslots 1-15,17-31 type r2-digital dtmf dnis
  description connection from 2611XM to WEBSWITCH
!
no crypto isakmp enable
!
interface FastEthernet0/0
  ip address 172.20.43.155 255.255.255.0
  duplex auto
  speed auto
!
interface FastEthernet0/1
  no ip address
  shutdown
  duplex auto
```



```
speed auto
!
ip classless
ip route 0.0.0.0 0.0.0.0 172.20.43.1
ip route 0.0.0.0 255.255.255.0 FastEthernet0/0
!
no ip http server
no ip http secure-server
!
control-plane
!
voice-port 1/0/0
  compand-type a-law
  station-id name phone F
  station-id number 4099
  caller-id enable
!
voice-port 1/0/1
  station-id name phone FF
  station-id number 4098
  caller-id enable
!
voice-port 1/0/2
!
voice-port 1/0/3
!
voice-port 1/0:1
!
dial-peer voice 1 voip
  destination-pattern ....
  session target ipv4:172.20.43.151
  ip qos dscp cs1 media
```



```
!  
dial-peer voice 100 pots  
  destination-pattern 4099  
  port 1/0/0  
!  
dial-peer voice 101 pots  
  destination-pattern 6..  
  port 1/0:1  
  forward-digits all  
!  
dial-peer voice 1016 pots  
  destination-pattern 03....  
  port 1/0:1  
  forward-digits all  
!  
line con 0  
line aux 0  
line vty 0 4  
  login  
!  
end
```



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