

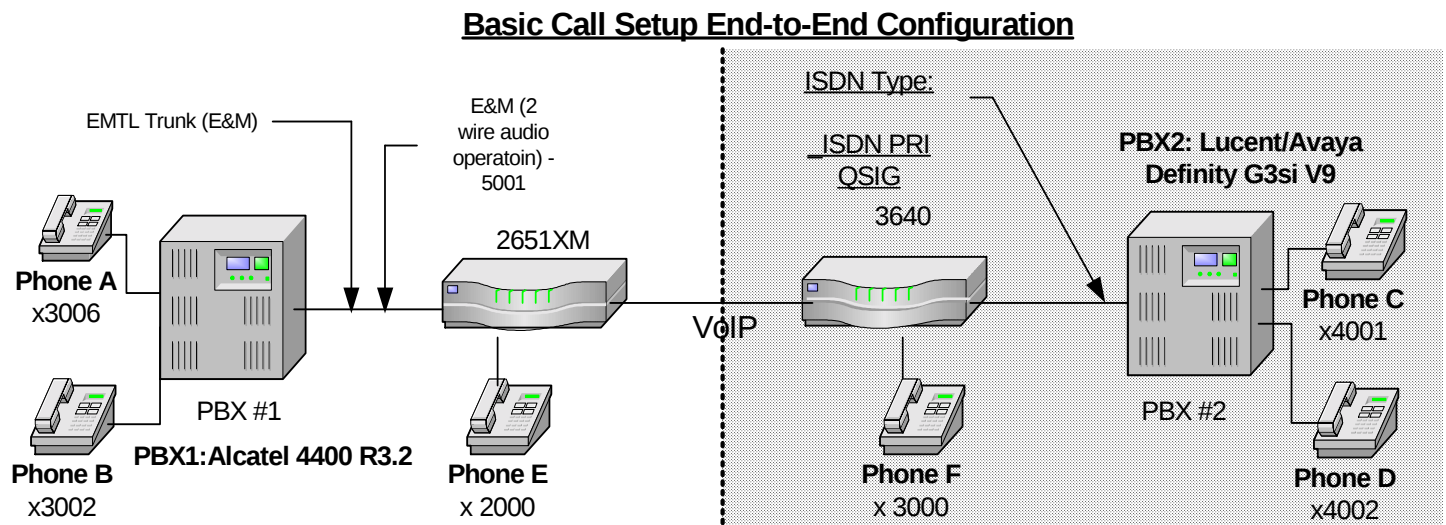
Cisco 2651XM-PBX Interoperability: Alcatel 4400 R3.2 PBX with an Analog E&M Interface

Introduction

- This note describes interoperability of the Alcatel 4400 PBX R3.2 with a Cisco 2651XM through Analog E&M signaling (2-wire audio operation with immediate start) voice port (VIC 2E/M).
- The Network Topology diagram shows the test set-up for end-to-end interoperability between Cisco 2651XM and Cisco 3640 connected to the PBX through an analog E&M signaling (2 wire audio operation with immediate start) voice port (VIC 2E/M) on one router (Cisco 2651XM) and E1 ISDN PRI interface on another router (Cisco 3640) with Alcatel 4400 R3.2 and Lucent/Avaya Definity G3si V9 PBXs connected at each end.
- Connectivity is achieved by using the analog E&M signaling voice port (VIC 2E/M) on Cisco 2651XM connects to the EMTL Trunk circuit port (E&M interface) on Alcatel 4400 R3.2 PBX.
- The Cisco 2651X E&M signaling (2 wire audio operation with immediate start) voice port (VIC 2E/M) connected to the PBX EMTL Trunk circuit port answers the call (goes off-hook) before the dialed analog phone on Cisco 3640 or Lucent digital phone is answered.

Network Topology

Figure 1. Network Topology





Limitations

To place a VoIP call from analog phone on the Cisco 3640 router through the Cisco 2651XM router's E&M signaling (2 wire audio operation with immediate start) voice port to the Alcatel 4400 R3.2 PBX's EMTL Trunk and ring the Alcatel digital phone , "dtmf relay h245-alphanumeric" has to be enabled on Cisco 3640 router.

System Components

Hardware Requirements

- Cisco 2651XM Gateway with VIC 2E/M, 800-02497-02B0
- Cisco 3640 Gateway with E1 interface cards
- Alcatel E&M circuit card - EMTL - 3BA53116AAAB03

Software Requirements

- Cisco IOS Software Release 12.2(11)T
- Alcatel 4400 R3.2 PBX Software Version: R3.2

Configuration

Configuration Tasks

- Configure EMTL Board
- Configure Trunk Group
- Configure Analog Station
- Configure Digital Station

Configuring the Alcatel 4400 R3.2 PBX

EMTL Board Configuration

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Board
Board Address 8
Interface Type EMTL
Administrative status Enabled
Usage StateActive
Operational State Enabled
Main/Standby State Main (Master)
Number Of Sets Being Connect. 2
Remote Shelf Address 255
Remote Board Address 255
Synchronisation Priority 255
IO2 with SPB NO
AUXU Parameters 1 None
AUXU Parameters 2 None
AUXU Parameters 3 None
AUXU Parameters 4 None
CRC4 NO
Country Protocol Type USA
Time Slots\0 0
Time Slots\1 1
Time Slots\2 1
Time Slots\3 1
Time Slots\4 1
Time Slots\5 1
Time Slots\6 1
Time Slots\7 1
Time Slots\8 1
Time Slots\9 1
Time Slots\10 1
Time Slots\11 1
Time Slots\12 1
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Time Slots\13 1
Time Slots\14 1
Time Slots\15 1
Time Slots\16 0
Time Slots\17 1
Time Slots\18 1
Time Slots\19 1
Time Slots\20 1
Time Slots\21 1
Time Slots\22 1
Time Slots\23 1
Time Slots\24 1
Time Slots\25 1
Time Slots\26 1
Time Slots\27 1
Time Slots\28 1
Time Slots\29 1
Time Slots\30 1
Time Slots\31 1
Voice-->Data TS YES
SU shelf Type 2 PCM Shelf
DECT Location area number 255
Send Init Dynamic Msg False
Param By Default False
Clock Mode Internal
CPU with Optimized B ChannelAccess NO
Board with DTM False
Incidents Teleservice NO
Max.VG Recording Duration 0
DASS2 Simulate Network NO
DPNSS Layer 2 Address A
ISDN Board Layer 2 Parameters\Retransmission Timer 100
ISDN Board Layer 2 Parameters\TEI Identity Check Timer 100
ISDN Board Layer 2 Parameters\Polling Timer 1000
ISDN Board Layer 2 Parameters\Nb_Of_Retransmission 3
ISDN Board Layer 2 Parameters\Max Frame Size (Bytes) 260
ISDN Board Layer 2 Parameters\Window Size In Frames SAPI S T0 1
ISDN Board Layer 2 Parameters\Window Size In Frames SAPI P T0 3
ISDN Board Layer 2 Parameters\Window Size In Frames SAPI S T2 7
ISDN Board Layer 2 Parameters\Window Size In Frames SAPI P T2 7
Number of configurated ports 2
Associated CPU 255
Number of configurated E1 ports 8
Synchronisation mode Adaptive method
In Band Signalling NO
Passive board NO
SS7 signalling NO
PRA7 TS signalling 16
Use Data Compression NO
Mutual Aid YES
LIO Daughter Board 6 Compressors
Tone on Board R2 Tone
Number of Used Compressors0
GNISC in Rack 255
GNISC in position 255
Usage StateSuite Slave
Atm address
TS used on PCM 0 0
TS used on PCM 1 0
TS used on PCM 2 0
TS used on PCM 3 0
TS used on PCM 4 0
TS used on PCM 5 0
TS used on PCM 6 0
TS used on PCM 7 0
Daughter board equipped NO
Number of Used Compressors0
Mode Gateway IP
Embedded Ethernet YES
Voice Guide Lang Index 1
CLIP Signalization No CLIP



IVR Protocol No IVR Protocol Protocol
4615 Present NO
LIOE coupler 1 address 255
LIOE coupler 2 address 255
Associated BBC2 coupler 255
Associated BBC2 access 255
Use of volume in system YES
Local volume (dB) 0

Trunk Group1 configuration:

Trunk Groups
Trunk Group Id 3
Trunk Group Type LIA
Trunk Group Name E M 2W
Node number 1
Transcom Trunk Group False
Auto.reserv.by Attendant False
Overflow trunk group No. -1
Tone on seizure True
Private Trunk Group False
Paging Trunk Group False
Paging Table Id -1
Paging Signalization NDDI
Security Patrol False
Q931 signal variant FRANCE ISDN
Operator IdANSI
Number Compatible With -1
Prefix Sending False
Number Of Digits To Send 4
Channel selection type Quantum
Remote Network 15
Shared Trunk Group False
T.line Calling last dig.length 0
auto.DTMF dialing on outgoing call YES
T2 Specificity None
Public Network Category 0
DDI transcoding False
Special Services Nothing
Can support UUS in SETUP True
Register Signalling Decadic/MF Q23

Trunk Group2 configuration:

Trunk Group
Instance (reserved) 1
Trunk Group Type LIA
Public Network Ref.
Dialling end to end NO
DTMF end to end signal. NO
Paying Incoming Calls NO
TS Permanently assigned YES
Min. Nb.of digits on seize 0
Signal.with access code NO
Trunk group used in DISA NO
DISA Secret Code
VG for non-existent No. YES
Routing To Executive NO
Trunk Category Id -1
Nb of digits unused (ISDN) 0
B Channel Choice NO
Channels Reserved By Attend. 0
Dissuasion For ACD NO
DTO joining NO
Enquiry Call On B Channel NO
DDI Mode NO
Automated Attendant NO



Calling party Rights category 0
Entity Number 0
TS Overflow YES
Number To Be Added
Supervised by Routing NO
Access Cluster Id -1
VPN Cost Limit for Incom.Calls 0
Immediat Trk Listening For VPNCall NO
VPN TS % 50
Csta Monitored NO
Max.% of trunks out CCD 0
Charge Calling And ADN Creation NO
Ratio analog.to ISDN tax
Collect Calls Allowed YES
Priority of Call NO
PCM Network Mode NO
LogicalChannel 1__15 & 17__31
TS Distribution on Accesses YES
Use Split Acces NO
Heterogeneous Remote Network NO
Barring mode Not barred
ARS class of service 31
Quality profile for voice on IP Profile #1
IP compression type Default
Use of volume in system YES
Local volume (dB) 0

Trunk Group3 configuration:

Trunk
Physical Address 0-8-1
Trunk Category Id 15
Directory Name
Trunk Routing Number
Channel Specialization Mixed
Trunk Number 61
Data Transparency NO

Trunk Group Category:

Trunk Category
Trunk Category Id 15
Connection Category Id 5
Waiting Guide False
Overflow Timer on No Reply 300
Overflow Timer on Waiting 300
Trunk Type IACE (Status Line TL)
Signalling Type Not Relevant
NDDI Trunk\Exchange Type W48
NDDI Trunk\Line Type Short line
NDDI Trunk\Wait for Seizure Ack.Timer 20
NDDI Trunk\Default Transmission False
NDDI Trunk\Default Transmission Delay 1
NDDI Trunk\Type of Dialling D 66 33
NDDI Trunk\Interdigit Timer on Sending 0
NDDI Trunk\End of Selection False
NDDI Trunk\Off-hook Presumption Timer 80
NDDI Trunk\Battery Inversion Masking False
NDDI Trunk\Masking Release False
NDDI Trunk\Wait for Called Party Answer False
NDDI Trunk\Wait for Called Answer Timer 0
NDDI Trunk\Charging on Answer False
NDDI Trunk\Wait for Called Party Reanswer False
NDDI Trunk\Wait for Caller Release Timer 0
NDDI Trunk\Unavailable Time Betw.2 Seizes 0
NDDI Trunk\Loop Detection on Seizure False
NDDI Trunk\Min.Incoming Seizure Time 0
NDDI Trunk\Loop Feeding Digit Break Time 0



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NDDI Trunk\Loop Feeding Digit Make Time 0
NDDI Trunk\Answer Signal Time 0
DDI Trunk\Line Signalling Default Signalling
DDI Trunk\Exchange Type W48
DDI Trunk\Line Type Short line
DDI Trunk\Send Ready to Receive True
DDI Trunk\Delay Dialling False
DDI Trunk\Incoming DTMF Received False
DDI Trunk\Delay Between Digits on Receiving 90
DDI Trunk\Routing to Attendant Not used
DDI Trunk\First Digit Authorized\Digit 0 1
DDI Trunk\First Digit Authorized\Digit 1 1
DDI Trunk\First Digit Authorized\Digit 2 1
DDI Trunk\First Digit Authorized\Digit 3 1
DDI Trunk\First Digit Authorized\Digit 4 1
DDI Trunk\First Digit Authorized\Digit 5 1
DDI Trunk\First Digit Authorized\Digit 6 1
DDI Trunk\First Digit Authorized\Digit 7 1
DDI Trunk\First Digit Authorized\Digit 8 1
DDI Trunk\First Digit Authorized\Digit 9 1
DDI Trunk\Number of Digits Received 4
DDI Trunk\Number of Digits Used 3
DDI Trunk\Open Dialling False
DDI Trunk\End of SelectionFalse
DDI Trunk\Wait for Caller Release Timer 900
DDI Trunk\Seizure Validation Time 0
DDI Trunk\Loop Feeding Digit Break Time 0
DDI Trunk\Loop Feeding Digit Make Time 0
DDI Trunk\Answer Signal Time 0
DDI Trunk\Caller Release Validation Time 0
DDI Trunk\Incoming Call Unavailable Time 0
PCM P0 Trunk\Wait for Seizure Ack.Timer 200
PCM P0 Trunk\Type of Dialling D 66 33
PCM P0 Trunk\Interdigit Timer on Sending 0
PCM P0 Trunk\Wait for Called Party AnswerFalse
PCM P0 Trunk\Wait for Called Answer Timer80
PCM P0 Trunk\Release Method Non Compelled Control
PCM P0 Trunk\Wait for Caller Release Timer 300
PCM P0 Trunk\Incoming DTMF Received False
PCM P0 Trunk\Delay Between Digits on Receiving 90
PCM P0 Trunk\First Digit Authorized\Digit 0 1
PCM P0 Trunk\First Digit Authorized\Digit 1 1
PCM P0 Trunk\First Digit Authorized\Digit 2 1
PCM P0 Trunk\First Digit Authorized\Digit 3 1
PCM P0 Trunk\First Digit Authorized\Digit 4 1
PCM P0 Trunk\First Digit Authorized\Digit 5 1
PCM P0 Trunk\First Digit Authorized\Digit 6 1
PCM P0 Trunk\First Digit Authorized\Digit 7 1
PCM P0 Trunk\First Digit Authorized\Digit 8 1
PCM P0 Trunk\First Digit Authorized\Digit 9 1
PCM P0 Trunk\Routing to Attendant Not used
PCM P0 Trunk\Open DiallingFalse
PCM P0 Trunk\Number of Digits Received 4
PCM P0 Trunk\Number of Digits Used 3
R2 Trunk\Voice Guide - Busy Cd party 22
R2 Trunk\Voice Guide - Inacc. Cd party 17
R2 Trunk\Voice Guide - Wrong Number 210
R2 Trunk\Congestion Voice Guide 136
R2 Trunk\Register Signalling Compelled
R2 Trunk\Line Signalling Default Signalling
R2 Trunk\Exchange TypeW48
R2 Trunk\Line Type Short line
R2 Trunk\2 or 4 Voice Wires 2 Wires
R2 Trunk\Short Pulse Duration (x10ms) 15
R2 Trunk\Long Pulse Duration (x10ms) 60
NDDI R2 Trunk\Receive Ready to Receive True
NDDI R2 Trunk\Seizure Acknowledgment Timer 0
NDDI R2 Trunk\Dial Tone Detection False
NDDI R2 Trunk\Default Transmission False
NDDI R2 Trunk\Default Transmission Delay 1
NDDI R2 Trunk\Wait for Called Party Answer True
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NDDI R2 Trunk\Wait for Called Answer Timer 1200
NDDI R2 Trunk\Charging on Answer False
NDDI R2 Trunk\Release Method Non Compelled Control
NDDI R2 Trunk\Wait for Called Re-Answer Timer 150
NDDI R2 Trunk\Special Tones Receiving False
NDDI R2 Trunk\T.for Compelling MF R2 Signals 0
NDDI R2 Trunk\Max.Tim.Without Send Signals 0
NDDI R2 Trunk\Max.Duration Of Pulse 0
NDDI R2 Trunk\PABX Call No.
NDDI R2 Trunk\Nb Of Digits In Partial Identif. 3
NDDI R2 Group I Signals\Caller Subscriber Category R2AV F1
NDDI R2 Group I Signals\Request Not Accepted R2AV F12
NDDI R2 Group I Signals\End Of Caller Identification R2AV F15
NDDI R2 Group I Signals\End Of Called Party Dialling Not used
NDDI R2 Group II Signals\Subscriber Without Priority R2AV F1
NDDI R2 Group II Signals\Attendant R2AV F5
NDDI R2 Group II Signals\Data Transmission R2AV F6
NDDI R2 Group II Signals\Toll Call R2AV F2
NDDI R2 Group II Signals\Local Call Voice R2AV F3
NDDI R2 Group II Signals\Local Call Fax or Data R2AV F4
NDDI R2 Group A Signals\Send Next Digit Called Party A-1
NDDI R2 Group A Signals\Send Last But 1 Digit A-2
NDDI R2 Group A Signals\End Of Dialling & Wait B Signal A-3
NDDI R2 Group A Signals\Congestion A-4
NDDI R2 Group A Signals\Caller Category Request A-5
NDDI R2 Group A Signals\Complete Dialling & Conversation A-6
NDDI R2 Group A Signals\Send Last But 2 Digit A-7
NDDI R2 Group A Signals\Send Last But 3 Digit A-8
NDDI R2 Group A Signals\Send First Digit A-9
NDDI R2 Group A Signals\Send Last Digit Not used
NDDI R2 Group A Signals\Complete Caller Identification Not used
NDDI R2 Group A Signals\Partial Caller Identification Not used
NDDI R2 Group A Signals\Send Next Digit Caller Not used
NDDI R2 Group A Signals\Wrong Called Number Not used
NDDI R2 Group B Signals\B-1 Called Party Free Charged
NDDI R2 Group B Signals\B-2 Called Party Inaccessible
NDDI R2 Group B Signals\B-3 Called Party Busy
NDDI R2 Group B Signals\B-4 Congestion
NDDI R2 Group B Signals\B-5 Called Party Inaccessible
NDDI R2 Group B Signals\B-6 Called Party Free Charged
NDDI R2 Group B Signals\B-7 Called Party Free Charged
NDDI R2 Group B Signals\B-8 Called Party Inaccessible
NDDI R2 Group B Signals\B-9 Called Party Inaccessible
NDDI R2 Group B Signals\B-10 Called Party Inaccessible
NDDI R2 Group B Signals\B-11 Called Party Inaccessible
NDDI R2 Group B Signals\B-12 Called Party Inaccessible
NDDI R2 Group B Signals\B-13 Called Party Inaccessible
NDDI R2 Group B Signals\B-14 Called Party Inaccessible
NDDI R2 Group B Signals\B-15 Called Party Inaccessible
NDDI R2 Group C Signals\Send First / Next Digit Caller C-1
NDDI R2 Group C Signals\Change in Gr.A, Send First Digit C-2
NDDI R2 Group C Signals\End Of Dialling & Wait B Signal C-3
NDDI R2 Group C Signals\Congestion C-4
NDDI R2 Group C Signals\Change in Gr.A, Send Next Digit C-5
NDDI R2 Group C Signals\Change in Gr.A, Send Last Digit C-6
NDDI R2 Trunk (continued)\Called Release Val.Time 0
NDDI R2 Trunk (continued)\Called Answer Val.Timer 0
NDDI R2 Trunk (continued)\Malicious Call Val.Max.Timer 0
NDDI R2 Trunk (continued)\Malicious Call Val.Min.Timer 0
NDDI R2 Trunk (continued)\Malicious Call Signal Time 0
NDDI R2 Trunk (continued)\Unavailable T.Betw.2 Seizes 40
NDDI Not R2 Trunk With DDI R2\Default Transmission False
NDDI Not R2 Trunk With DDI R2\Default Transmission Delay 1
NDDI Not R2 Trunk With DDI R2\Type of Dialling D 66 33
NDDI Not R2 Trunk With DDI R2\Wait for Called Answer Timer 1200
DDI R2 Trunk\Send Ready to Receive True
DDI R2 Trunk\Dial Tone Connection False
DDI R2 Trunk\Number of Digits Received 4
DDI R2 Trunk\Number of Digits Used 4
DDI R2 Trunk\Routing to Attendant Not used
DDI R2 Trunk\Open Dialling False
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DDI R2 Trunk\Ringback Tone Connection True
DDI R2 Trunk\Time Before Send Ringback Tone 5
DDI R2 Trunk\Forced Release False
DDI R2 Trunk\Forced Release Timer 2
DDI R2 Trunk\Send Called Party Answer True
DDI R2 Trunk\Release Method Non Compelled Control
DDI R2 Trunk\Wait for Called Re-Answer Timer 150
DDI R2 Trunk\Intrude On Busy Cd party False
DDI R2 Trunk\Intrude On Cd party Hang Up False
DDI R2 Trunk\Groupe B Signal Transmission True
DDI R2 Trunk\Caller Identification Not Requested
DDI R2 Trunk\Time Before 1st Digit Detection 0
DDI R2 Trunk\Delay Between Digits on Receiving 0
DDI R2 Trunk\Time Wait.For Group II Signal 0
DDI R2 Trunk\Pulse Transmission Duration 0
DDI R2 Trunk\Compelling Timer 0
DDI R2 Group I Signals\Request Not Accepted I-12
DDI R2 Group I Signals\End Of Caller Identification I-15
DDI R2 Group I Signals\End Of Called Party Dialling Not used
DDI R2 Group II Signals\II-1 Normal Routing
DDI R2 Group II Signals\II-2 Normal Routing
DDI R2 Group II Signals\II-3 Normal Routing
DDI R2 Group II Signals\II-4 Normal Routing
DDI R2 Group II Signals\II-5 Attendant
DDI R2 Group II Signals\II-6 Data Routing
DDI R2 Group II Signals\II-7 Attendant
DDI R2 Group II Signals\II-8 Attendant
DDI R2 Group II Signals\II-9 No routing
DDI R2 Group II Signals\II-10 No routing
DDI R2 Group II Signals\II-11 No routing
DDI R2 Group II Signals\II-12 No routing
DDI R2 Group II Signals\II-13 No routing
DDI R2 Group II Signals\II-14 No routing
DDI R2 Group II Signals\II-15 No routing
DDI R2 Group II Signals\Caller Identification For Gr.II\II-1 1
DDI R2 Group II Signals\Caller Identification For Gr.II\II-2 0
DDI R2 Group II Signals\Caller Identification For Gr.II\II-3 0
DDI R2 Group II Signals\Caller Identification For Gr.II\II-4 0
DDI R2 Group II Signals\Caller Identification For Gr.II\II-5 1
DDI R2 Group II Signals\Caller Identification For Gr.II\II-6 0
DDI R2 Group II Signals\Caller Identification For Gr.II\II-7 0
DDI R2 Group II Signals\Caller Identification For Gr.II\II-8 0
DDI R2 Group II Signals\Caller Identification For Gr.II\II-9 0
DDI R2 Group II Signals\Caller Identification For Gr.II\II-10 0
DDI R2 Group II Signals\Caller Identification For Gr.II\II-11 0
DDI R2 Group II Signals\Caller Identification For Gr.II\II-12 0
DDI R2 Group II Signals\Caller Identification For Gr.II\II-13 0
DDI R2 Group II Signals\Caller Identification For Gr.II\II-14 0
DDI R2 Group II Signals\Caller Identification For Gr.II\II-15 0
DDI R2 Group II Signals\II-1 Toll Call - No Control
DDI R2 Group II Signals\II-2 Toll Call - No Control
DDI R2 Group II Signals\II-3 Local Voice Call - No Ctrl
DDI R2 Group II Signals\II-4 Local Call Fax or Data
DDI R2 Group II Signals\II-5 No routing
DDI R2 Group II Signals\II-6 No routing
DDI R2 Group II Signals\II-7 No routing
DDI R2 Group II Signals\II-8 No routing
DDI R2 Group II Signals\II-9 No routing
DDI R2 Group II Signals\II-10 No routing
DDI R2 Group II Signals\II-11 No routing
DDI R2 Group II Signals\II-12 No routing
DDI R2 Group II Signals\II-13 No routing
DDI R2 Group II Signals\II-14 No routing
DDI R2 Group II Signals\II-15 No routing
DDI R2 Group II Signals\Caller Subscriber Category\I-1 1
DDI R2 Group II Signals\Caller Subscriber Category\I-2 1
DDI R2 Group II Signals\Caller Subscriber Category\I-3 1
DDI R2 Group II Signals\Caller Subscriber Category\I-4 1
DDI R2 Group II Signals\Caller Subscriber Category\I-5 0
DDI R2 Group II Signals\Caller Subscriber Category\I-6 0
DDI R2 Group II Signals\Caller Subscriber Category\I-7 0
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DDI R2 Group II Signals\Caller Subscriber Category\I-8 0
DDI R2 Group II Signals\Caller Subscriber Category\I-9 0
DDI R2 Group II Signals\Caller Subscriber Category\I-10 0
DDI R2 Group II Signals\Caller Subscriber Category\I-11 0
DDI R2 Group II Signals\Caller Subscriber Category\I-12 0
DDI R2 Group II Signals\Caller Subscriber Category\I-13 0
DDI R2 Group II Signals\Caller Subscriber Category\I-14 0
DDI R2 Group II Signals\Caller Subscriber Category\I-15 0
DDI R2 Group A Signals\Send Next Digit Called Party R2AR F1
DDI R2 Group A Signals\End Of Dialling & Wait B Signal R2AR F3
DDI R2 Group A Signals\Congestion R2AR F4
DDI R2 Group A Signals\Gr.I or Gr.II Signal Not Receiv. R2AR F4
DDI R2 Group A Signals\Caller Category Request R2AR F5
DDI R2 Group A Signals\Caller Identification R2AR F5
DDI R2 Group A Signals\Send Next Digit Caller R2AR F1
DDI R2 Group A Signals\Complete Dialling & Conversation R2AR F6
DDI R2 Group B Signals\Cd Party Free Malicious Call CtrlNot used
DDI R2 Group B Signals\Specific Tone Sent To Caller R2AR F2
DDI R2 Group B Signals\Called Party Busy R2AR F3
DDI R2 Group B Signals\Congestion After Change in Gr.B R2AR F4
DDI R2 Group B Signals\Wrong Called Number R2AR F5
DDI R2 Group B Signals\Called Party Free Charged R2AR F6
DDI R2 Group B Signals\Called Party Free Non Charged R2AR F7
DDI R2 Group B Signals\Out Of Service Subscriber Line R2AR F3
DDI R2 Group B Signals\Toll Free CallNot used
DDI R2 Group B Signals\Collect Calls Restriction Not used
DDI R2 Group C Signals\Send First / Next Digit Caller R2AR F1
DDI R2 Group C Signals\End Of Dialling & Wait B Signal R2AR F3
DDI R2 Group C Signals\Congestion R2AR F4
DDI R2 Trunk (continued)\Seizure Validation Time 0
DDI R2 Trunk (continued)\Caller Release Validation Time 0
DDI R2 Trunk (continued)\Max.Attend.signal valid Time 0
DDI R2 Trunk (continued)\Min.Attend.signal valid.Time 0
DDI R2 Trunk (continued)\Incoming Call Unavailable Time 0
DDI R2 Trunk (continued)\Answer Signal Time 0
DDI R2 Trunk (continued)\Malicious Call Signal Time 0
Tie Line Trunks\Type of Dialling MF Q23
Tie Line Trunks\Delay Before Availability3
Tie Line Trunks\Delay Between Digits on Receiving 150
Tie Line Trunks\Dial Tone Connection True
Tie Line Trunks\Ringback Tone Connection True
Tie Line Trunks\Incoming DTMF Received True
Tie Line Trunks\Line Type Short line
Tie Line Trunks\Digit Pulse Duration (ms)50
Tie Line Trunks\Digit Pause Duration (ms)50
Tie Line Trunks\2 or 4 Voice Wires 2 Wires
Tie Line Trunks\End of Selection False
MCOL/SCOL Tie Line Trunks\Type 4 Wires E-M
MCOL/SCOL Tie Line Trunks\Receive Ready to Receive True
MCOL/SCOL Tie Line Trunks\Send Ready to Receive True
MCOL/SCOL Tie Line Trunks\Delay Waiting for Ready to Receive 0
MCOL/SCOL Tie Line Trunks\Delay Between Digits on Sending 0
MCOL/SCOL Tie Line Trunks\Delay Before Send Ready to Receive 0
MCOL/SCOL Tie Line Trunks\Delay Before Outdialling 5
MCOL/SCOL Tie Line Trunks\Send Reply True
MCOL/SCOL Tie Line Trunks\Wait for Reply Timer 0
MCOL/SCOL Tie Line Trunks\Ignore Call Conflict False
MCOL/SCOL Tie Line Trunks\ITTR feature / DC5A Inverted False
IACE Tie Line Trunks\Receive Ready to Receive False
IACE Tie Line Trunks\Send Ready to Receive False
IACE Tie Line Trunks\Send Pulse Ready to Receive False
IACE Tie Line Trunks\Delay Dialling False
IACE Tie Line Trunks\Delay Before Send Ready to Receive 2
IACE Tie Line Trunks\Delay Waiting for Ready to Receive 30
IACE Tie Line Trunks\Dial Tone Detection False
IACE Tie Line Trunks\Default TransmissionFalse
IACE Tie Line Trunks\Delay Before Outdialling 5
IACE Tie Line Trunks\Receiving the Dialling True
IACE Tie Line Trunks\Delay Between Digits on Sending 10
IACE Tie Line Trunks\Busy Tone ConnectionFalse
IACE Tie Line Trunks\Send Reply True
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IACE Tie Line Trunks\Reply by Pulse False
IACE Tie Line Trunks\Delay Waiting for Reply 0
IACE Tie Line Trunks\ITTR feature / DC5A Inverted False
IACE Tie Line Trunks\Controlled Release False
IACE Tie Line Trunks\Release Acknowledge Timer 16
IACE Tie Line Trunks\Input Output Level Trunk
IACE Tie Line Trunks\Trunk Type Loop
IACE Tie Line Trunks\Paging False
IACE Tie Line Trunks\Loop Feeding Signal Break Time 0
IACE Tie Line Trunks\Loop Feeding Sign.Make Time 0
IACI tie Line Trunks\Type 4 Wires E-M
IACI tie Line Trunks\Delay Waiting for Ready to Receive 0
IACI tie Line Trunks\Delay Between Digits on Sending 0
IACI tie Line Trunks\Delay Before Send Ready to Receive 0
IACI tie Line Trunks\Delay Before Outdialling 5
IACI tie Line Trunks\Send Reply True
IACI tie Line Trunks\Receive Reply True
IACI tie Line Trunks\Reply Waiting / Presumption Timer 0
IACI tie Line Trunks\Ignore Call Conflict False
IACI tie Line Trunks\Release by double pulse False
AC15A/DC5 TL Trunks\Receive Ready to Receive True
AC15A/DC5 TL Trunks\Send Ready to Receive True
AC15A/DC5 TL Trunks\Delay Waiting for Ready to Receive 0
AC15A/DC5 TL Trunks\Delay Between Digits on Sending 0
AC15A/DC5 TL Trunks\Delay Before Send Ready to Receive 0
AC15A/DC5 TL Trunks\Delay Before Outdialling 5
AC15A/DC5 TL Trunks\Dial Tone Detection False
AC15A/DC5 TL Trunks\Default Transmission False
AC15A/DC5 TL Trunks\ITTR feature / DC5A Inverted False
AC15A/DC5 TL Trunks\Busy Tone Connection False
AC15A/DC5 TL Trunks\Send Reply True
AC15A/DC5 TL Trunks\Receive Reply True
AC15A/DC5 TL Trunks\Reply Waiting / Presumption Timer 0
AC15A/DC5 TL Trunks\Earth On Idle True
AC15A/DC5 TL Trunks\Ready to Receive Duration (x10ms) 20
AC15C Tie line Trunks\Dial Tone Detection False
AC15C Tie line Trunks\Default Transmission False
AC15C Tie line Trunks\ITTR feature / DC5A Inverted False
AC15C Tie line Trunks\Busy Tone Connection False
L0 Tie Line Trunks\Type 4 Wires E-M
L0 Tie Line Trunks\Receive Ready to Receive True
L0 Tie Line Trunks\Send Ready to Receive True
L0 Tie Line Trunks\Delay Waiting for Ready to Receive 0
L0 Tie Line Trunks\Delay Between Digits on Sending 0
L0 Tie Line Trunks\Delay Before Send Ready to Receive 0
L0 Tie Line Trunks\Delay Before Outdialling 5
L0 Tie Line Trunks\Send Reply True
L0 Tie Line Trunks\Receiving the Dialling True
L0 Tie Line Trunks\Delay Waiting for Reply 0
L0 Tie Line Trunks\Variable Gain False
L0 Tie Line Trunks\Ignore Call Conflict False
L0 Tie Line Trunks\ITTR feature / DC5A Inverted False
L0 Tie Line Trunks\Dial Tone Detection False
L0 Tie Line Trunks\Default Transmission False
EMPULSE Tie Line Trunks\Type 4 Wires E-M
EMPULSE Tie Line Trunks\Receive Ready to Receive True
EMPULSE Tie Line Trunks\Send Ready to Receive True
EMPULSE Tie Line Trunks\Delay Waiting for Ready to Receive 0
EMPULSE Tie Line Trunks\Delay Between Digits on Sending 0
EMPULSE Tie Line Trunks\Delay Before Send Ready to Receive 0
EMPULSE Tie Line Trunks\Delay Before Outdialling 5
EMPULSE Tie Line Trunks\Send Reply True
EMPULSE Tie Line Trunks\Receiving the Dialling True
EMPULSE Tie Line Trunks\Delay Waiting for Reply 0
EMPULSE Tie Line Trunks\Protocol Type 0
EMPULSE Tie Line Trunks\Caller Release Ack True
EMPULSE Tie Line Trunks\Caller Very Long Release False
EMPULSE Tie Line Trunks\Caller Very Long Release Ack False
EMPULSE Tie Line Trunks\Called Release Ack True
EMPULSE Tie Line Trunks\Called Very Long Release False
EMPULSE Tie Line Trunks\Called Very Long Release Ack False
```



```
EMPULSE Tie Line Trunks\Variable Gain False
EMPULSE Tie Line Trunks\Ignore Call Conflict False
EMPULSE Tie Line Trunks\ITTR feature / DC5A Inverted False
Manual Tie Line Trunks\Send Release Signal True
Manual Tie Line Trunks\Send Ringing Tone Signal True
Manual Tie Line Trunks\Timer Before Availaibility 100
Manual Tie Line Trunks\Seizure Duration in Transm. 25
Manual Tie Line Trunks\Release Duration in Transm. 25
Manual Tie Line Trunks\Min.Dur.Of Seiz.in Recept. 12
Manual Tie Line Trunks\Max.Dur.Of Seiz.in Recept. 37
Manual Tie Line Trunks\Min.Dur.Of Releas.in Recept. 100
Manual Tie Line Trunks\Max.Dur.Of Releas.in Recept. 250
Manual Tie Line Trunks\Line Type Short line
T2 T0 ABC-F ISDN Trunks\Timer T303 0
T2 T0 ABC-F ISDN Trunks\Timer T304 0
T2 T0 ABC-F ISDN Trunks\Timer T310 0
T2 T0 ABC-F ISDN Trunks\Timer T313 4
T2 T0 ABC-F ISDN Trunks\Timer T305 0
T2 T0 ABC-F ISDN Trunks\Timer T308 4
T2 T0 ABC-F ISDN Trunks\Timer T309 0
T2 T0 ABC-F ISDN Trunks\Timer T302 0
ABC-F Trunks\Timer T306 300
ABC-F Trunks\Timer T314 40
ABC-F Trunks\Timer T381 1200
ABC-F Trunks\Timer T383 1200
ABC-F Trunks\Timer T384 300
ABC-F Trunks\Timer T386 200
ABC-F Trunks\Timer T388 350
ABC-F Trunks\Timer T389 100
ABC-F Trunks\Timer T390 1800
ABC-F Trunks\Timer T392 50
ABC-F Trunks\Timer T397 100
ISDN trunks\Timer T301 1800
ISDN trunks\Timer T306 300
ISDN trunks\Timer T316 1200
ISDN trunks\Timer T317 900
ISDN trunks\Timer T322 40
DASS2 Trunks\Wait for Reply To Mess.Timer 100
DASS2 Trunks\Additionnal Info Timer 150
DASS2 Trunks\Illegal o/g Channel Timer 35
DPNSS Trunks\Wait for Reply To Mess.Timer 100
DPNSS Trunks\Additionnal Info Timer 150
DPNSS Trunks\Illegal o/g Channel Timer 40
DPNSS Trunks\DPNSS Inter Message Timer 40
DPNSS Trunks\Resolve Collision X (X/Y) True
DDI NDDI Trunks - German\Line Type Short line
DDI NDDI Trunks - German\Wait For Release Timer 300
DDI NDDI Trunks - German\DDI-Time Betw.Digits Recept. 150
DDI NDDI Trunks - German\NDDI-Loop feeding dig.mak.t. 60
DDI NDDI Trunks - German\NDDI-Loop feeding dig.brk t. 40
DDI NDDI Trunks - German\NDDI-Time Between Digits Send 8
DDI NDDI Trunks - German\NDDI-Timer Between Digits 150
DDI NDDI Trunks - German\NDDI-Default Transmission NO
DDI NDDI Trunks - German\NDDI Def Trans Or Waiting Timer 100
DDI NDDI Trunks - German\NDDI Time For Availability 300
DDI NDDI Trunks - German\NDDI Off hook-presumpt.Time 0
ICNS Trunks\Timer T303 100
ICNS Trunks\Timer T305 30
ICNS Trunks\Timer T308 40
ICNS Trunks\Timer T316 1200
ICNS Trunks\Timer T399 200
MF CGCT Tie line Trunks\Wait Proceed To Send Timer 360
MF CGCT Tie line Trunks\Wait bef.sending acc.code 0
MF CGCT Tie line Trunks\Interdigit Timer on Sending 0
MF CGCT Tie line Trunks\Wait for Back Signal Timer 360
MF CGCT Tie line Trunks\Wait for Called Answer Timer 0
MF CGCT Tie line Trunks\Unavailable T.Betw.2 Seizes 10
MF CGCT Tie line Trunks\Received Nr Broadcasting NO
MF CGCT Tie line Trunks\Wait bef.send.Proc.To Send 0
MF CGCT Tie line Trunks\Wait for Forward Signal Time 150
MF CGCT Tie line Trunks\Delay Between Digits on Receiving 300
```



```
MF CGCT Tie line Trunks\Back Signal Sending Delay    0
MF CGCT Tie line Trunks\Wait for Cd Release Timer    200
MF CGCT Tie line Trunks\Wait bef.send.Contr.Freq.    0
MF CGCT Tie line Trunks\Max.Sequence Duration    20
MF CGCT Tie line Trunks\Signal uphold Delay    0
5200 Trunks\T303    100
5200 Trunks\T308    40
Outgoing R1.5 Trunk\Type of dialling D 50 50
Outgoing R1.5 Trunk\Interface Type NDDI R1.5 Local
Outgoing R1.5 Trunk\Wait for Seizure Ack.Timer    10
Outgoing R1.5 Trunk\1st default dialling em. True
Outgoing R1.5 Trunk\1st Default dial.Em.Delay    4
Outgoing R1.5 Trunk\2nd default dialling em. False
Outgoing R1.5 Trunk\2nd Default dial.Em.Delay    10
Outgoing R1.5 Trunk\Timer End Of Dialing    80
Outgoing R1.5 Trunk\Timer Wait for Cd Answer    6000
Outgoing R1.5 Trunk\PABX Call No.
Outgoing R1.5 Trunk\Fill Digit For Caller Id.    2
Outgoing R1.5 Trunk\Deft Category for Caller Ident.    4
Outgoing R1.5 Trunk\Special Tones Receiving False
Outgoing R1.5 Trunk\VG For Called Party Busy    22
Outgoing R1.5 Trunk\Congestion Voice Guide    136
Outgoing R1.5 Trunk\Dec.Digit Pulse Duration    50
Outgoing R1.5 Trunk\Dec.Digit Pause Duration    50
Outgoing R1.5 Trunk\Dec.Inter Digit Time    7
Outgoing R1.5 Trunk\R1.5 Pulse Em.Delay    70
Outgoing R1.5 Trunk\R1.5 pulse duration    45
Outgoing R1.5 Trunk\R1.5 Pulse Detect Delay    30
Outgoing R1.5 Trunk\R1.5 Puls.Max.Valid.time    100
Outgoing R1.5 Trunk\Timer Wait For R1.5 Pulse    4000
Outgoing R1.5 Trunk\Line Type Short line
Outgoing R1.5 Trunk\MF R1 Level Low Level
Outgoing R1.5 Trunk\Trunk Signaling Type Normal Bits
Incoming R1.5 Trunk\Type of dialling D 50 50
Incoming R1.5 Trunk\Interface Type DDI R1.5 Local
Incoming R1.5 Trunk\Number of Digits Received    4
Incoming R1.5 Trunk\Number of Digits Used    4
Incoming R1.5 Trunk\Caller Identification Requested
Incoming R1.5 Trunk\VG on Busy Cd party    22
Incoming R1.5 Trunk\VG on Inacc.Cd party    17
Incoming R1.5 Trunk\Congestion Voice Guide    136
Incoming R1.5 Trunk\Max.Dec.Digit Pulse Dur.    150
Incoming R1.5 Trunk\Max.Dec.Digit Pause Dur.    150
Incoming R1.5 Trunk\Dec.Inter Digit Time    200
Incoming R1.5 Trunk\R1.5 Pulse Em.Delay    70
Incoming R1.5 Trunk\R1.5 pulse duration    45
Incoming R1.5 Trunk\R1.5 Pulse Detect Delay    30
Incoming R1.5 Trunk\R1.5 Puls.Max.Valid.time    100
Incoming R1.5 Trunk\Timer Wait For R1.5 Pulse    250
Incoming R1.5 Trunk\Line Type Short line
Incoming R1.5 Trunk\MF R1 Level Low Level
Incoming R1.5 Trunk\Trunk Signaling Type Normal Bits
Incoming R1.5 Trunk\R1.5 First Signal B2 Signal
Mixed Trunk\Line Signalling Default Signalling
Mixed Trunk\Exchange Type W48
Mixed Trunk\Line Type Short line
Mixed Trunk\2 or 4 Voice Wires    2 Wires
Mixed Trunk\Short Pulse Duration (x10ms)    15
Mixed Trunk\Long Pulse Duration (x10ms)    60
Outgoing Mixed Trunk\Receive Ready to Receive    True
Outgoing Mixed Trunk\Delay Dialling    False
Outgoing Mixed Trunk\Seizure Acknowledgment Timer    0
Outgoing Mixed Trunk\Dial Tone Detection    False
Outgoing Mixed Trunk\Default Transmission    False
Outgoing Mixed Trunk\Default Transmission Delay    1
Outgoing Mixed Trunk\Type of Dialling MF Q23
Outgoing Mixed Trunk\Digit Pulse Duration (ms)    0
Outgoing Mixed Trunk\Digit Pause Duration (ms)    0
Outgoing Mixed Trunk\Interdigit Timer on Sending    7
Outgoing Mixed Trunk\Wait for Called Party Answer    True
Outgoing Mixed Trunk\Wait for Called Answer Timer    1800
```



```
Outgoing Mixed Trunk\Release Method Non Compelled Control
Outgoing Mixed Trunk\Wait for Called Re-Answer Timer 150
Outgoing Mixed Trunk\Unavailable Time Betw.2 Seizes 10
Incoming Mixed Trunk\Send Ready to Receive True
Incoming Mixed Trunk\Dial Tone ConnectionFalse
Incoming Mixed Trunk\Number of Digits Received 4
Incoming Mixed Trunk\Number of Digits Used 4
Incoming Mixed Trunk\Incoming DTMF Received True
Incoming Mixed Trunk\Delay Between Digits on Receiving 150
Incoming Mixed Trunk\First Digit Authorized\Digit 0 1
Incoming Mixed Trunk\First Digit Authorized\Digit 1 1
Incoming Mixed Trunk\First Digit Authorized\Digit 2 1
Incoming Mixed Trunk\First Digit Authorized\Digit 3 1
Incoming Mixed Trunk\First Digit Authorized\Digit 4 1
Incoming Mixed Trunk\First Digit Authorized\Digit 5 1
Incoming Mixed Trunk\First Digit Authorized\Digit 6 1
Incoming Mixed Trunk\First Digit Authorized\Digit 7 1
Incoming Mixed Trunk\First Digit Authorized\Digit 8 1
Incoming Mixed Trunk\First Digit Authorized\Digit 9 1
Incoming Mixed Trunk\Routing to AttendantNot used
Incoming Mixed Trunk\Open Dialling False
Incoming Mixed Trunk\End of Selection False
Incoming Mixed Trunk\Send Called Party Answer True
Incoming Mixed Trunk\Release Method Non Compelled Control
Incoming Mixed Trunk\Wait for Called Re-Answer Timer 150
Trunk MF R1.5\Type of dialling D 50 50
Trunk MF R1.5\Interface Type MF R1.5 Local
Trunk MF R1.5\Wait for Seizure Ack.Timer 10
Trunk MF R1.5\1st default dialling em. True
Trunk MF R1.5\1st Default dial.Em.Delay 4
Trunk MF R1.5\2nd default dialling em. False
Trunk MF R1.5\2nd Default dial.Em.Delay 10
Trunk MF R1.5\Timer End Of Dialling 80
Trunk MF R1.5\Timer Wait for Cd Answer 6000
Trunk MF R1.5\PABX Call No.
Trunk MF R1.5\Fill Digit For Caller Id. 2
Trunk MF R1.5\Deft Category for Caller Ident. 4
Trunk MF R1.5\Special Tones Receiving False
Trunk MF R1.5\Number of Digits Received 4
Trunk MF R1.5\Number of Digits Used 4
Trunk MF R1.5\Caller Identification Requested
Trunk MF R1.5\VG on Busy Cd party 22
Trunk MF R1.5\VG on Inacc.Cd party 17
Trunk MF R1.5\Congestion Voice Guide 136
Trunk MF R1.5\Dec.Digit Pulse Duration 50
Trunk MF R1.5\Dec.Digit Pause Duration 50
Trunk MF R1.5\Dec.Inter Digit Time 200
Trunk MF R1.5\R1.5 Pulse Em.Delay 70
Trunk MF R1.5\R1.5 pulse duration 45
Trunk MF R1.5\R1.5 Pulse Detect Delay 30
Trunk MF R1.5\R1.5 Puls.Max.Valid.time 100
Trunk MF R1.5\Timer Wait For R1.5 Pulse 250
Trunk MF R1.5\Line Type Short line
Trunk MF R1.5\MF R1 Level Low Level
Trunk MF R1.5\Trunk Signaling Type Normal Bits
Trunk MF R1.5\R1.5 First Signal B2 Signal
```

Analog Station Detail:

```
Users
Directory Number 3033
Directory name Daddy Doe
Directory First Name
Location Node 1
Shelf Address 0
Board Address 7
Equipment Address 1
Set Type ANALOG
Entity Number 1
Set Function Default
Profile Name
```



Key ProfileNone
Identifier of Domain 0
Add On Module 1 None
Add On Module 2 None
Add On Module 3 None
External Alphanumeric Keyboard None
Internal Alphanum.KeyboardNone
V24 Extension False
S0 Extension False
Mac/PC NO
Z Adaptor False
Language Id. 1
Secret Code 6<"
Associated Set No. 3033
Cost Center Id 255
Cost Center Name
Charging Category Justified
Public Network Category 2
External Forwarding Category 255
Tel.Facility Category Id 0
Connection Category Id 0
Hunting Group Dir No.
ACD Group Directory No.
Pick up Group Name
Reserved Time Slot False
Voice Mail Dir.No.
Voice Mail Type No Voice Mail
Voice Mail access without Code False
Paging Trunk Group 255
Paging Beeper
Called Associated Dect set
Tele-Marketing Agent False
ISDN Subscr.\External True
ISDN Subscr.\Internal False
ISDN Teleservice Phone
Hotel-Set Function Administrative
Type of room 1
Use Type Of Dir. No. Normal
Number Of Set Users 1
Call by name and mini mailNO
Multiline station NO
Multi-Line Properties\Automatic Incoming Seizure False
Multi-Line Properties\Automatic Outgoing Seizure False
Multi-Line Properties\Selective FilteringFalse
Multi-Line Properties\Overflow on no reply False
Multi-Line Properties\Overflow on busy False
Multi-Line Properties\Take supervision off-hook False
S0 Facility\User By Default False
S0 Facility\Sub Address Use False
Dialled number masked NO
Access Code to UUS messages NO
Routing Table 0
Associated Videophone False
VIP (Very Important Pers.)False
Secretary Directory Number 3033
Calls Priority 0
DATA Cx Category Id 0
Message LedFalse
4040 With Minitel NO
Minitel-4040 Connection Cat. 0
Pub Cat Id Minitel 4040 0
PCBT Associated NO
Urgent CallNO
Ext.Alarm Equipment Alarm On Opened Loop
4630 Mail Box\4630 Voice Mail Type Answer.-Recorder machine
4630 Mail Box\4630 COS\Network Prefixes authorized YES
4630 Mail Box\4630 COS\Personal lists authorized NO
4630 Mail Box\4630 COS\General Lists authorized YES
4630 Mail Box\4630 COS\Voice Mail ManagerNO
4630 Mail Box\4630 COS\Ref.duration of Greeting Normal
4630 Mail Box\4630 COS\Conversation authorized YES



4630 Mail Box\4630 COS\Category of Greeting Personal
4635 Mail Box\4635 Voice Mail Type Voice Mail
4635 Mail Box\4635 COS 10
X25 dte False
PIN (Personal Ident.No.)\PIN No.
PIN (Personal Ident.No.)\PIN With Secret Code True
PIN (Personal Ident.No.)\Type of control By category
PIN (Personal Ident.No.)\PIN group number 1
Can Be Called By Name YES
Phone book Name (Call by name) Daddy Doe
Phone book First Name
Displayed Name Daddy Doe
Modem Trunk Group Info\Trunk Group Id 255
Modem Trunk Group Info\Trunk Number 255
Remote UA False
Count Errors Of Secret Code 0
ACD station NO
NS Right (Notification server) NO
Incidents Teleservice NO
Ghost Z False
Ghost Z Feature Without
CSTA routing False
Cmf 4600 (DTMF frequencies) False
Voice Guide listening Class 7
Caller Category 4
VSI Transparency False
Type of Keyboard Default keyboard
Count Errors Of Business Code 0
Stap Off-hook
Tandem\Tandem Directory Number
Tandem\Main set in the tandem False
Use Personal Calling Number False
Private Calling Number
UA 3G features\Emulation UA 3G
4035 Features\Navigator UA 3G
PIN group control No group
User PIN group 1
CCA operator False
A4980 No 4980
Z IVR False
NOMADIC False
4615 Mail Box\4615 Voice Mail Type Standard
4615 Mail Box\Notification Type No Notification
TAPI Premium Server NO

Digital Station Detail:

Users
Directory Number 3006
Directory name Doe Doe
Directory First Name
Location Node 1
Shelf Address 0
Board Address 2
Equipment Address 6
Set Type 4035T
Entity Number 1
Set Function Default
Profile Name
Key Profile None
Identifier of Domain 0
Add On Module 1 None
Add On Module 2 None
Add On Module 3 None
External Alphanumeric Keyboard None
Internal Alphanumeric Keyboard English
V24 Extension False
S0 Extension False
Mac/PC NO
Z Adaptor False
Language Id. 2



Secret Code 6<"
Associated Set No. 3006
Cost Center Id 255
Cost Center Name
Charging Category Justified
Public Network Category 2
External Forwarding Category 255
Tel.Facility Category Id 0
Connection Category Id 0
Hunting Group Dir No.
ACD Group Directory No.
Pick up Group Name
Reserved Time Slot False
Voice Mail Dir.No.
Voice Mail Type No Voice Mail
Voice Mail access without Code False
Paging Trunk Group 255
Paging Beeper
Called Associated Dect set
Tele-Marketing Agent False
ISDN Subscr.\External True
ISDN Subscr.\Internal False
ISDN Teleservice Phone
Hotel-Set Function Administrative
Type of room 1
Use Type Of Dir. No. Normal
Number Of Set Users 1
Call by name and mini mailNO
Multiline station NO
Multi-Line Properties\Automatic Incoming Seizure False
Multi-Line Properties\Automatic Outgoing Seizure False
Multi-Line Properties\Selective FilteringFalse
Multi-Line Properties\Overflow on no reply False
Multi-Line Properties\Overflow on busy False
Multi-Line Properties\Take supervision off-hook False
S0 Facility\User By Default False
S0 Facility\Sub Address Use False
Dialled number masked NO
Access Code to UUS messages NO
Routing Table 0
Associated Videophone False
VIP (Very Important Pers.)False
Secretary Directory Number 3006
Calls Priority 0
DATA Cx Category Id 0
Message LedFalse
4040 With Minitel NO
Minitel-4040 Connection Cat. 0
Pub Cat Id Minitel 4040 0
PCBT Associated NO
Urgent CallNO
Ext.Alarm Equipment Alarm On Opened Loop
4630 Mail Box\4630 Voice Mail Type Answer.-Recorder machine
4630 Mail Box\4630 COS\Network Prefixes authorized YES
4630 Mail Box\4630 COS\Personal lists authorized NO
4630 Mail Box\4630 COS\General Lists authorized YES
4630 Mail Box\4630 COS\Voice Mail ManagerNO
4630 Mail Box\4630 COS\Ref.duration of Greeting Normal
4630 Mail Box\4630 COS\Conversation authorized YES
4630 Mail Box\4630 COS\Category of Greeting Personal
4635 Mail Box\4635 Voice Mail Type Voice Mail
4635 Mail Box\4635 COS 10
X25 dte False
PIN (Personal Ident.No.)\PIN No.
PIN (Personal Ident.No.)\PIN With Secret Code True
PIN (Personal Ident.No.)\Type of control By category
PIN (Personal Ident.No.)\PIN group number 1
Can Be Called By Name YES
Phone book Name (Call by name) Doe Doe
Phone book First Name
Displayed Name Doe Doe



```
Modem Trunk Group Info\Trunk Group Id 255
Modem Trunk Group Info\Trunk Number 255
Remote UA False
Count Errors Of Secret Code 0
ACD station NO
NS Right (Notification server) NO
Incidents Teleservice NO
Ghost Z False
Ghost Z Feature Without
CSTA routing False
Cmf 4600 (DTMF frequencies) False
Voice Guide listening Class 7
Caller Category 4
VSI Transparency False
Type of Keyboard Default keyboard
Count Errors Of Business Code 0
Stap Off-hook
Tandem\Tandem Directory Number
Tandem\Main set in the tandem False
Use Personal Calling Number False
Private Calling Number
UA 3G features\Emulation UA 3G
4035 Features\Navigator UA 3G
PIN group control No group
User PIN group 1
CCA operator False
A4980 No 4980
Z IVR False
NOMADIC False
4615 Mail Box\4615 Voice Mail Type Standard
4615 Mail Box\Notification Type No Notification
TAPI Premium Server NO
```

Configuring the Cisco 2651XM Router for E&M Immediate Start Signaling Type (2 Wire Audio Operation)

```
2651XM_PRI#sh run
Building configuration...

Current configuration : 1491 bytes
!
version 12.2
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname 2651XM_PRI
!
!
ip subnet-zero
!
no ip domain lookup
!
!
voice call carrier capacity active
!
!
voice class dualtone-detect-params 1
cadence-variation 25
!
!
voice class custom-cptone us-custom
dualtone busy
frequency 480 620
cadence 500 500
dualtone disconnect
frequency 435
cadence 600 400
```



```
!  
!  
fax interface-type fax-mail  
mta receive maximum-recipients 0  
!  
!  
interface FastEthernet0/0  
  no ip address  
  shutdown  
  duplex auto  
  speed auto  
!  
interface FastEthernet0/1  
  ip address 1.1.1.2 255.255.255.0  
  duplex auto  
  speed auto  
!  
ip classless  
ip http server  
!  
!  
dialer-list 1 protocol ip permit  
!  
call rsvp-sync  
!  
voice-port 1/0/0  
!  
voice-port 1/0/1  
!  
voice-port 1/1/0  
  type 5  
  signal immediate  
!  
voice-port 1/1/1  
  type 5  
  signal immediate  
!  
!  
mgcp profile default  
!  
dial-peer cor custom  
!  
!  
dial-peer voice 1 pots  
  destination-pattern 2000  
  port 1/0/0  
!  
dial-peer voice 2 pots  
  destination-pattern 2001  
  port 1/0/1  
!  
dial-peer voice 3 pots  
  destination-pattern 5000  
  port 1/1/0  
!  
dial-peer voice 4 pots  
  destination-pattern 5001  
  port 1/1/1  
!  
dial-peer voice 5 voip  
  destination-pattern 3...  
  session target ipv4:1.1.1.1  
!  
dial-peer voice 6 voip  
  destination-pattern 4...  
  session target ipv4:1.1.1.1  
!  
!  
line con 0  
  exec-timeout 0 0  
line aux 0
```



```
exec-timeout 0 0
line vty 0 4
exec-timeout 0 0
password c
login
line vty 5 15
login
!
!
end
```

2651XM_PRI#sh voice port 1/1/1

```
recEive And transMit 1/1/1 Slot is 1, Sub-unit is 1, Port is 1
Type of VoicePort is E&M
Operation State is DORMANT
Administrative State is UP
The Last Interface Down Failure Cause is Administrative Shutdown
Description is not set
Noise Regeneration is enabled
Non Linear Processing is enabled
Non Linear Mute is disabled
Non Linear Threshold is -21 dB
Music On Hold Threshold is Set to -38 dBm
In Gain is Set to 0 dB
Out Attenuation is Set to 0 dB
Echo Cancellation is enabled
Echo Cancellation NLP mute is disabled
Echo Cancellation NLP threshold is -21 dB
Echo Cancel Coverage is set to 8 ms
Playout-delay Mode is set to default
Playout-delay Nominal is set to 60 ms
Playout-delay Maximum is set to 200 ms
Playout-delay Minimum mode is set to default, value 40 ms
Playout-delay Fax is set to 300 ms
Connection Mode is normal
Connection Number is not set
Initial Time Out is set to 10 s
Interdigit Time Out is set to 10 s
Call Disconnect Time Out is set to 60 s
Ringing Time Out is set to 180 s
Wait Release Time Out is set to 30 s
Companding Type is u-law
Region Tone is set for US
```

Analog Info Follows:

```
Currently processing none
Maintenance Mode Set to None (not in mtc mode)
Number of signaling protocol errors are 19
Impedance is set to 600r Ohm
Station name None, Station number None
Translation profile (Incoming):
Translation profile (Outgoing):
```

Voice card specific Info Follows:

```
Operation Type is 2-wire
E&M Type is 5
Signal Type is immediate
Dial Out Type is dtmf
In Seizure is inactive
Out Seizure is inactive
Digit Duration Timing is set to 100 ms
InterDigit Duration Timing is set to 100 ms
Pulse Rate Timing is set to 10 pulses/second
InterDigit Pulse Duration Timing is set to 750 ms
Clear Wait Duration Timing is set to 400 ms
Wink Wait Duration Timing is set to 200 ms
Wait Wink Duration Timing is set to 550 ms
Wink Duration Timing is set to 200 ms
Delay Start Timing is set to 300 ms
```



Delay Duration Timing is set to 2000 ms
Dial Pulse Min. Delay is set to 140 ms
Percent Break of Pulse is 60 percent
Auto Cut-through is disabled
Dialout Delay is 300 ms

Important Information

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