

Information Note

Configuring R2 MFC on Vega gateways



Configuring Vega Gateways to support R2 MFC signalling

As well as supporting ISDN on T1 and E1 interfaces, line signalling based CAS signalling on T1 interfaces, Vega gateways also support R2 MFC based CAS signalling on E1 interfaces. R2 MFC based CAS signalling uses both line states and tones to provide the call signalling.

Configure CAS R2 on the signalling interfaces

In order to configure a Vega for R2 MFC operation, on the Vega web browser select [DSL](#)

- select the Network Topology as E1
- select and then click "[here](#)" to return

For each port ID in the **Port Configuration** section,

- select [Modify](#)

In the **Port Configuration** section,

- set Network Type as CAS-R2
- set Framing as auto or CRC4
- set Line Encoding as auto or HDB3
- select and then click "[here](#)" to return

- scroll down to the **E1 CAS R2 MFC Configuration** section

- select the appropriate E1 CAS R2 MFC Profile - (to configure these, see below)
- select the appropriate Operation Mode
- select the appropriate Category
- select and then click ["here"](#) to return

Configuring E1 CAS R2 MFC Profiles

On the Vega web browser select [DSL](#)

- scroll down to the **CAS R2 Profiles** section

E1 CAS R2 MFC Profiles				
Profile	Name	Variant		Chg?
1	ITU	ITU		Modify
2	Brazil	Brazil		Modify
3	Argentina	Argentina		Modify
4	Mexico	Mexico		Modify
5	default	ITU		Modify

You can either modify the default Profiles or a new Profile.

Against the chosen profile:

- select

In the **E1 CAS R2 MFC Profile** section

- set up an appropriate Name
- select a base Variant of R2 to use for this profile.

To configure the tone settings, select in the Registers column

Timers	
Forward Tone Timer (mSec)	15000
Forward Silence Timer	24000
Backward First Tone Timer	14000
Backward Next Tone Timer	14000
<input type="button" value="Submit"/>	

- Set up required Tone and Silence timer values

Register Signal Configuration		
<input type="button" value="Set standard values for Brazil"/>		
Forward group Signal Configuration	Default Brazil Values	Current
Select signal designation in decimal [1 - 15]		
Digit 1	1	1
Digit 2	2	2
Digit 3	3	3
Digit 4	4	4
Digit 5	5	5
Digit 6	6	6

To initialize the 'Current' values to the selected R2 standard's values click the button 'Set standard values for xxxx'

Now change any values that need to be different to that base standard. (You'll notice that parameters that are different to the default values are displayed in red to highlight that they are different)

Register Signal Configuration		
<input type="button" value="Set standard values for Brazil"/>		
Forward group Signal Configuration	Default Brazil Values	Current
Select signal designation in decimal [1 - 15]		
Digit 1	1	1
Digit 2	2	2
Digit 3	3	8
Digit 4	4	4
Digit 5	5	5
Digit 6	6	6

Once all required changes have been made:

- select and then click "[here](#)" to return

The full list of values that can be configured may be found in 'Annex 1 – R2 Register signalling values'

Return to the **E1 CAS R2 MFC Profile** section

E1 CAS R2 MFC Profile 5			
Name	Variant	Registers	Line Settings
<input type="text" value="My_R2"/>	Brazil <input type="button" value="v"/>	Modify	Modify
<input type="button" value="Submit"/>			

To configure the line signalling settings, select [Modify](#) in the Line Settings column

Line Signal Configuration		
<input type="button" value="Set standard values for Brazil"/>		
Line Signal Configuration	Default Brazil Values	Current
Select Line Signal designation in binary [0000 - 1111] and time in milli-seconds		
Seize in pattern	0001	<input type="text" value="0001"/>
Seize out pattern	0001	<input type="text" value="0001"/>
Seize receive time	10 ms	<input type="text" value="50"/> ms
Seize Acknowledge in pattern	1101	<input type="text" value="1101"/>
Seize Acknowledge out pattern	1101	<input type="text" value="1101"/>
Seize Acknowledge receive time	300 ms	<input type="text" value="300"/> ms
Answer in pattern	0101	<input type="text" value="0101"/>
Answer out pattern	0101	<input type="text" value="0101"/>
Answer receive time	1000 ms	<input type="text" value="1000"/> ms
Answer delay time	100 ms	<input type="text" value="100"/> ms
Blocking in pattern	1101	<input type="text" value="1101"/>
Blocking out pattern	1101	<input type="text" value="1101"/>

To initialize the 'Current' values to the selected R2 standard's values click the button 'Set standard values for xxxx'

Now change any values that need to be different to that base standard. (You'll notice that parameters that are different to the default values are displayed in red to highlight that they are different)

Once all required changes have been made:

- select and then click ["here"](#) to return

The full list of values that can be configured may be found in 'Annex 2 – R2 Line signalling values'

Troubleshooting

If there are inter-op problems, the signalling can be traced using Command Line Interface commands. On a Telnet login, or a Serial interface login take a trace by typing:

- debug enable _cas 46
- debug enable router rs
- debug on
- log display on

_cas 4 enables display of R2 tone signalling

_cas 6 enables display of line signalling

An example trace of a complete call is shown in Annex 3

Annex 1 – R2 Register signalling values

Forward group I Signal Configuration	Default Brazil Values	Current
Select signal designation in decimal [1 - 15]		
Digit 1	1	<input type="text" value="1"/>
Digit 2	2	<input type="text" value="2"/>
Digit 3	3	<input type="text" value="3"/>
Digit 4	4	<input type="text" value="4"/>
Digit 5	5	<input type="text" value="5"/>
Digit 6	6	<input type="text" value="6"/>
Digit 7	7	<input type="text" value="7"/>
Digit 8	8	<input type="text" value="8"/>
Digit 9	9	<input type="text" value="9"/>
Digit 0	10	<input type="text" value="10"/>
Language Digit	2	<input type="text" value="2"/>
Discriminating Digit	10	<input type="text" value="10"/>
Country Code Indicator	11	<input type="text" value="11"/>
Outgoing Half Echo Suppressor Required	11	<input type="text" value="11"/>
Incoming Operator	11	<input type="text" value="11"/>
No Echo Suppressor Required	12	<input type="text" value="12"/>
Delay Operator	12	<input type="text" value="12"/>
Test Call Indicator	13	<input type="text" value="13"/>
Access to Test Equipment	13	<input type="text" value="13"/>
Outgoing Half Echo Suppressor Inserted	14	<input type="text" value="14"/>
End of ANI	15	<input type="text" value="15"/>
End of DNI	15	<input type="text" value="15"/>
Digit B	11	<input type="text" value="11"/>
Digit C	12	<input type="text" value="12"/>
Digit D	13	<input type="text" value="13"/>
Digit E	14	<input type="text" value="14"/>
Digit F	15	<input type="text" value="15"/>

Forward group II Signal Configuration	Default Brazil Values	Current
Select signal designation in decimal [1 - 15]		
Subscriber without priority	1	<input type="text" value="1"/>
Subscriber with priority	2	<input type="text" value="2"/>
Maintenance equipment	3	<input type="text" value="3"/>
Call from Operator	4	<input type="text" value="4"/>
Data Transmission call	6	<input type="text" value="6"/>
Subscriber with Forward transfer	10	<input type="text" value="10"/>
Subscriber without Forward transfer	7	<input type="text" value="7"/>

Backward group A Signal Configuration	Default Brazil Values	Current
Select signal designation in decimal [1 - 15]		
Send next digit	1	<input type="text" value="1"/>
Send n-1 digit	9	<input type="text" value="9"/>
Send n-2 digit	7	<input type="text" value="7"/>
Send n-3 digit	8	<input type="text" value="8"/>
Addr complete-receive group B	3	<input type="text" value="3"/>
Addr complete-charge-setup speech	6	<input type="text" value="6"/>
Send language/discriminating digit	12	<input type="text" value="12"/>
Congestion-INTL	15	<input type="text" value="15"/>
Congestion-NTL	4	<input type="text" value="4"/>
Calling party category	5	<input type="text" value="5"/>
Use of Echo Suppressor Info	14	<input type="text" value="14"/>
Country Code Indicator	11	<input type="text" value="11"/>
Nature of Circuit	13	<input type="text" value="13"/>
Repeat DID digits from beginning	2	<input type="text" value="2"/>
Send next ANI digit	5	<input type="text" value="5"/>
Send last digit again	0	<input type="text" value="0"/>

Backward group B Signal Configuration	Default Brazil Values	Current
Select signal designation in decimal [1 - 15]		
SPL tone(Indicating that called number cannot be reached)	0	<input type="text" value="0"/>
Line busy	2	<input type="text" value="2"/>
Congestion	4	<input type="text" value="4"/>
Unallocated number	7	<input type="text" value="7"/>
Line free charge	1	<input type="text" value="1"/>
Line free no charge	5	<input type="text" value="5"/>
Out of order	8	<input type="text" value="8"/>
Number Idle or Idle Level	7	<input type="text" value="7"/>
<input type="button" value="Submit"/>		

Annex 2 – R2 Line signalling values

Line Signal Configuration	Default Brazil Values	Current
Select Line Signal designation in binary [0000 - 1111] and time in milli-seconds		
Seize in pattern	0001	<input type="text" value="0001"/>
Seize out pattern	0001	<input type="text" value="0001"/>
Seize receive time	10 ms	<input type="text" value="10"/> ms
Seize Acknowledge in pattern	1101	<input type="text" value="1101"/>
Seize Acknowledge out pattern	1101	<input type="text" value="1101"/>
Seize Acknowledge receive time	300 ms	<input type="text" value="300"/> ms
Answer in pattern	0101	<input type="text" value="0101"/>
Answer out pattern	0101	<input type="text" value="0101"/>
Answer receive time	1000 ms	<input type="text" value="1000"/> ms
Answer delay time	100 ms	<input type="text" value="100"/> ms
Blocking in pattern	1101	<input type="text" value="1101"/>
Blocking out pattern	1101	<input type="text" value="1101"/>
Blocking receive time	200 ms	<input type="text" value="200"/> ms
Clear Forward in pattern	1001	<input type="text" value="1001"/>
Clear Forward out pattern	1001	<input type="text" value="1001"/>
Clear Forward receive time	150 ms	<input type="text" value="150"/> ms
Clear Back in pattern	1101	<input type="text" value="1101"/>
Clear Back out pattern	1101	<input type="text" value="1101"/>
Clear Back receive time	180 ms	<input type="text" value="180"/> ms
Idle in pattern	1001	<input type="text" value="1001"/>
Idle out pattern	1001	<input type="text" value="1001"/>
Idle receive time	100 ms	<input type="text" value="100"/> ms
Error signal in pattern	0000	<input type="text" value="0000"/>
Error signal out pattern	0000	<input type="text" value="0000"/>

Billing Configuration	Default Brazil Values	Current
Select Billing signal designation in binary [0000 - 1111] and time in milli-seconds		
Enable Billing	0	<input type="checkbox"/> (check to enable)
Use Force Disconnect instead of Clear Back Out	0	<input type="checkbox"/> (check to enable)
Force Disconnect pattern	0001	<input type="text" value="0001"/>
Billing in pattern	1101	<input type="text" value="1101"/>
Billing out pattern	1101	<input type="text" value="1101"/>
Billing pulse on time	0 ms	<input type="text" value="0"/>
Billing pulse off time	0 ms	<input type="text" value="0"/>

Annex 3 – R2 MFC debug output

This trace shows an R2 MFC trace of a call using ITU line and register signalling.

The first trace shows a call being made from SIP to R2MFC, dialling 602.

The second trace shows that call being received over R2MFC.

The logging enabled was:

- debug enable _cas 46
- debug enable router rs
- debug on
- log display on

SIP to R2MFC (calling 602)

```
MsgRx : 3031525: 58645:ROUTER : to: ROUTER from: SIP msg: CALL_CONTROL - CC_SETUP_IND (F1001BBA)
ctxt=[f10002fc] key=d3000054 port:grp:bc=1:0:0, BC cs:cap:rate:mode=00:00:10:00, Enbloc
calling_pn=TEL:118,TELC:118,DISP:Steve Hight,TA:172.19.1.58 (0,0,0,0)
called_pn=602 (0,0)
MsgTx : 3031525: 00000:ROUTER : from: ROUTER to: PACING msg: CALL_CONTROL - CC_SETUP_IND (F1001BBA)
ctxt=[f10002fc] key=d3000054 port:grp:bc=1:0:0, BC cs:cap:rate:mode=00:00:10:00, Enbloc
calling_pn=TEL:118,TELC:118,DISP:Steve Hight,TA:172.19.1.58 (0,0,0,0)
called_pn=602 (0,0)
MsgRx : 3031528: 00003:ROUTER : to: ROUTER from: SIP msg: CALL_CONTROL - CC_SETUP_IND (F1001BBA)
ctxt=[f10002fc] key=d3000054 port:grp:bc=1:0:0, BC cs:cap:rate:mode=00:00:10:00, Enbloc
calling_pn=TEL:118,TELC:118,DISP:Steve Hight,TA:172.19.1.58 (0,0,0,0)
called_pn=602 (0,0)
MsgTx : 3031535: 00007:ROUTER : from: ROUTER to: ISDN msg: CALL_CONTROL - CC_SETUP_RQ (F1001BBB)
ctxt=[f10002fc] key=d4000055 port:grp:bc=3:0:255, BC cs:cap:rate:mode=00:00:10:00, Enbloc
calling_pn=TEL:118,TELC:118,DISP:Steve Hight,TA:172.19.1.58,IF:9901 (0,0,0,0)
called_pn=TEL:602 (0,0)
MsgTx : 3031535: 00000:ROUTER : from: ROUTER to: SIP msg: CALL_CONTROL - CC_PROCEEDING_RQ (F1001BBC)
ctxt=[f10002fc] key=d3000054
MsgRx : 3031535: 00000:ISDN : to: ISDN from: ROUTER msg: CALL_CONTROL - CC_SETUP_RQ (F1001BBB)
ctxt=[f10002fc] key=d4000055 port:grp:bc=3:0:255, BC cs:cap:rate:mode=00:00:10:00, Enbloc
calling_pn=TEL:118,TELC:118,DISP:Steve Hight,TA:172.19.1.58,IF:9901 (0,0,0,0)
called_pn=TEL:602 (0,0)
MsgTx : 3031545: 00010:ISDN : from: ISDN to: ROUTER msg: CALL_CONTROL - CC_SETUPPACK_IND (F1001BBD)
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ctxt=[f10002fc] key=d4000055
MsgRx : 3031545: 00000:ROUTER : to:  ROUTER   from: ISDN   msg: CALL_CONTROL - CC_SETUPACK_IND (F1001BBD)
ctxt=[f10002fc] key=d4000055
LOG: 11/07/2006 09:49:43.090 ROUTER (I)R0bc00 FINDROUTE profile:1(default) plan:5
      call ref=[f10002fc]
      <-- SIP      [2,1] dest=TEL:602
      --> ISDN    [4,1] dest=TEL:602

LOG: 11/07/2006 09:49:43.092 ROUTER (I)R0bc00 call proceeding
      call ref=[f10002fc]

LOG: 11/07/2006 09:49:43.102 ISDN   (I)R02C62 outgoing
      call ref=[f10002fc]
      dest=TEL:602
_CAS   :ABCD   : 3031568: 00023:TN   :CAS-ABCD: Setting ITU ABCD Bits:0x00 on LineNumber:98 in State:BW_SEIZING   :(tnif.c;1658)
_CAS   :R2     : 3031568: 00000:TN   :R2: Out_Line_Mapper: Mapped 0x00 to 0x01 in State:168   :(tnif.c;1658)
_CAS   :R2     : 3031648: 00080:TN   :R2: In_Line_Mapper(Line_State_Valid): Mapped 0x0d to 0x0c in State:168   :(tnif.c;1658)
_CAS   :R2     : 3031668: 00020:TN   :R2: OutRegMapper: Mapped tone 0x06 to 0x06 in Peer state R2TI_CALLEDNUM(3) :(tnif.c;1658)
_CAS   :R2     : 3031668: 00000:TN   :R2: SendToneReq Tone:0x06   :(tnif.c;1658)
MsgRx  : 3031668: 00000:ISDN   : to:  ISDN   from: ISDNDVR  msg: ISDNDVR_IND - ISDN_CCEV_CAS_TONE (F1001ED7)

MsgRx  : 3031670: 00002:ISDN   : ISDN/CAS DVR msg: ISDN_CCEV_SEIZE (F1001EDA)
Handle 0x00038010
MsgRx  : 3031675: 00005:ISDN   : to:  ISDN   from: ISDNDVR  msg: ISDNDVR_IND - ISDN_CCEV_CAS_PPKT (F1001ED8)

MsgRx  : 3031675: 00000:ISDN   : ISDN/CAS DVR msg: ISDN_CCEV_PROCEEDING (F1001EDB)
Handle 0x00038010
MsgRx  : 3031675: 00000:ISDN   : to:  ISDN   from: ISDNDVR  msg: ISDNDVR_IND - ISDN_CCEV_CAS_TONE (F1001ED9)

MsgRx  : 3031675: 00000:ISDN   : ISDN/CAS DVR msg: ISDN_CCEV_TONE_REQ (F1001EDC)
Handle 0x00038010 MCTone 46
MsgRx  : 3031803: 00128:ISDN   : to:  ISDN   from: DSP     msg: MC_IND - MC_IND_DTMF_DIGIT (F10003AD)
pcall=00038010 index=0 Digit 5 start at 20687
_CAS   :R2     : 3031828: 00025:TN   :R2: Received Tone from Host:0x05 for Line:98 in Current Tone State:R2TO_TXCALLED(13) :(tnif.c;1658)
_CAS   :R2     : 3031828: 00000:TN   :R2: InRegMapper(Tone)[0]: Mapped Tone 0x15 to Reg 0x09 in State:R2TO_TXCALLED(13) :(tnif.c;1658)
_CAS   :R2     : 3031828: 00000:TN   :R2: InRegMapper(Tone): Tone 0x15 => ITU 0x15 in State:R2TO_TXCALLED(13), New Peer State:R2TI_CATEGORY(5) :(tnif.c;1658)
_CAS   :R2     : 3031828: 00000:TN   :R2: Send Register 0x40, new state R2TO_WAIT4SILENCE(18)   :(tnif.c;1658)
_CAS   :R2     : 3031828: 00000:TN   :R2: SendToneReq Tone:0x40   :(tnif.c;1658)
MsgRx  : 3031828: 00000:ISDN   : to:  ISDN   from: ISDNDVR  msg: ISDNDVR_IND - ISDN_CCEV_CAS_TONE (F1001EDD)

MsgRx  : 3031830: 00002:ISDN   : ISDN/CAS DVR msg: ISDN_CCEV_TONE_REQ (F1001EDE)
Handle 0x00038010 MCTone 0
MsgRx  : 3031953: 00123:ISDN   : to:  ISDN   from: DSP     msg: MC_IND - MC_IND_DTMF_DIGIT (F10003AE)
pcall=00038010 index=0 Digit 5 end at 20847
_CAS   :R2     : 3031988: 00035:TN   :R2: Received Tone from Host:0x40 for Line:98 in Current Tone State:R2TO_WAIT4SILENCE(18):(tnif.c;1658)
_CAS   :R2     : 3031988: 00000:TN   :R2: InRegMapper(Cmd): Mapped 0x40 to 0x40 in State:R2TO_WAIT4SILENCE(18), New Peer State:R2TI_CATEGORY(-1) :(tnif.c;1658)
_CAS   :R2     : 3031988: 00000:TN   :R2: Send Register 0x01, new state R2TO_TXCALLED(13)   :(tnif.c;1658)
_CAS   :R2     : 3031988: 00000:TN   :R2: OutRegMapper: Mapped tone 0x01 to 0x01 in Peer state R2TI_CATEGORY(5)   :(tnif.c;1658)

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8)
_CAS      :R2      : 3031988: 00000:TN      :R2: SendToneReq Tone:0x01      :(tnif.c;1658)
MsgRx    : 3031988: 00000:ISDN      : to:   ISDN      from: ISDN_DVR msg: ISDN_DVR_IND - ISDN_CCEV_CAS_TONE (F1001EDF)

MsgRx    : 3031990: 00002:ISDN      : ISDN/CAS DVR msg: ISDN_CCEV_TONE_REQ (F1001EE0)
Handle 0x00038010 MCTone 41
MsgRx    : 3032128: 00138:ISDN      : to:   ISDN      from: DSP      msg: MC_IND - MC_IND_DTMF_DIGIT (F10003AF)
pcall=00038010 index=0 Digit 1 start at 21012
_CAS      :R2      : 3032168: 00040:TN      :R2: Received Tone from Host:0x01 for Line:98 in Current Tone State:R2TO_TXCALLED(13) :(tnif.c;1658)
_CAS      :R2      : 3032168: 00000:TN      :R2: InRegMapper(Tone)[0]: Mapped Tone 0x11 to Reg 0x00 in State:R2TO_TXCALLED(13)      :(tnif.c;1658)
_CAS      :R2      : 3032168: 00000:TN      :R2: InRegMapper(Tone): Tone 0x11 => ITU 0x11 in State:R2TO_TXCALLED(13), New Peer State:R2TI_CALLEDNUM(3)      :(tnif.c;1658)
_CAS      :R2      : 3032168: 00000:TN      :R2: Send Register 0x40, new state R2TO_WAIT4SILENCE(18)      :(tnif.c;1658)
_CAS      :R2      : 3032168: 00000:TN      :R2: SendToneReq Tone:0x40      :(tnif.c;1658)
MsgRx    : 3032170: 00002:ISDN      : to:   ISDN      from: ISDN_DVR msg: ISDN_DVR_IND - ISDN_CCEV_CAS_TONE (F1001EE1)

MsgRx    : 3032170: 00000:ISDN      : ISDN/CAS DVR msg: ISDN_CCEV_TONE_REQ (F1001EE2)
Handle 0x00038010 MCTone 0
MsgRx    : 3032293: 00123:ISDN      : to:   ISDN      from: DSP      msg: MC_IND - MC_IND_DTMF_DIGIT (F10003B0)
pcall=00038010 index=0 Digit 1 end at 21187
_CAS      :R2      : 3032328: 00035:TN      :R2: Received Tone from Host:0x40 for Line:98 in Current Tone State:R2TO_WAIT4SILENCE(18):(tnif.c;1658)
_CAS      :R2      : 3032328: 00000:TN      :R2: InRegMapper(Cmd): Mapped 0x40 to 0x40 in State:R2TO_WAIT4SILENCE(18), New Peer State:R2TI_CALLEDNUM(-1)      :(tnif.c;1658)
_CAS      :R2      : 3032328: 00000:TN      :R2: Send Register 0x0A, new state R2TO_TXCALLED(13)      :(tnif.c;1658)
_CAS      :R2      : 3032328: 00000:TN      :R2: OutRegMapper: Mapped tone 0x0a to 0x0a in Peer state R2TI_CALLEDNUM(3)      :(tnif.c;1658)
8)
_CAS      :R2      : 3032328: 00000:TN      :R2: SendToneReq Tone:0x0a      :(tnif.c;1658)
MsgRx    : 3032328: 00000:ISDN      : to:   ISDN      from: ISDN_DVR msg: ISDN_DVR_IND - ISDN_CCEV_CAS_TONE (F1001EE3)

MsgRx    : 3032330: 00002:ISDN      : ISDN/CAS DVR msg: ISDN_CCEV_TONE_REQ (F1001EE4)
Handle 0x00038010 MCTone 50
MsgRx    : 3032468: 00138:ISDN      : to:   ISDN      from: DSP      msg: MC_IND - MC_IND_DTMF_DIGIT (F10003B1)
pcall=00038010 index=0 Digit 1 start at 21352
_CAS      :R2      : 3032508: 00040:TN      :R2: Received Tone from Host:0x01 for Line:98 in Current Tone State:R2TO_TXCALLED(13) :(tnif.c;1658)
_CAS      :R2      : 3032508: 00000:TN      :R2: InRegMapper(Tone)[0]: Mapped Tone 0x11 to Reg 0x00 in State:R2TO_TXCALLED(13)      :(tnif.c;1658)
_CAS      :R2      : 3032508: 00000:TN      :R2: InRegMapper(Tone): Tone 0x11 => ITU 0x11 in State:R2TO_TXCALLED(13), New Peer State:R2TI_CALLEDNUM(3)      :(tnif.c;1658)
_CAS      :R2      : 3032508: 00000:TN      :R2: Send Register 0x40, new state R2TO_WAIT4SILENCE(18)      :(tnif.c;1658)
_CAS      :R2      : 3032508: 00000:TN      :R2: SendToneReq Tone:0x40      :(tnif.c;1658)
MsgRx    : 3032508: 00000:ISDN      : to:   ISDN      from: ISDN_DVR msg: ISDN_DVR_IND - ISDN_CCEV_CAS_TONE (F1001EE5)

MsgRx    : 3032510: 00002:ISDN      : ISDN/CAS DVR msg: ISDN_CCEV_TONE_REQ (F1001EE6)
Handle 0x00038010 MCTone 0
MsgRx    : 3032633: 00123:ISDN      : to:   ISDN      from: DSP      msg: MC_IND - MC_IND_DTMF_DIGIT (F10003B2)
pcall=00038010 index=0 Digit 1 end at 21527
_CAS      :R2      : 3032668: 00035:TN      :R2: Received Tone from Host:0x40 for Line:98 in Current Tone State:R2TO_WAIT4SILENCE(18):(tnif.c;1658)

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_CAS :R2 : 3032668: 0000:TN :R2: InRegMapper(Cmd): Mapped 0x40 to 0x40 in State:R2TO_WAIT4SILENCE(18), New Peer State:
R2TI_CALLEDNUM(-1) : (tnif.c;1658)
_CAS :R2 : 3032668: 0000:TN :R2: Send Register 0x02, new state R2TO_TXCALLED(13) : (tnif.c;1658)
_CAS :R2 : 3032668: 0000:TN :R2: OutRegMapper: Mapped tone 0x02 to 0x02 in Peer state R2TI_CALLEDNUM(3) : (tnif.c;165
8)
_CAS :R2 : 3032668: 0000:TN :R2: SendToneReq Tone:0x02 : (tnif.c;1658)
MsgRx : 3032670: 00002:ISDN : to: ISDN from: ISDN_DVR msg: ISDN_DVR_IND - ISDN_CCEV_CAS_TONE (F1001EE7)

MsgRx : 3032670: 00000:ISDN : ISDN/CAS DVR msg: ISDN_CCEV_TONE_REQ (F1001EE8)
Handle 0x00038010 MCTone 42
MsgRx : 3032808: 00138:ISDN : to: ISDN from: DSP msg: MC_IND - MC_IND_DTMF_DIGIT (F10003B3)
pcall=00038010 index=0 Digit 1 start at 21692
_CAS :R2 : 3032848: 00040:TN :R2: Received Tone from Host:0x01 for Line:98 in Current Tone State:R2TO_TXCALLED(13) : (tn
if.c;1658)
_CAS :R2 : 3032848: 00000:TN :R2: InRegMapper(Tone)[0]: Mapped Tone 0x11 to Reg 0x00 in State:R2TO_TXCALLED(13) : (tn
if.c;1658)
_CAS :R2 : 3032848: 00000:TN :R2: InRegMapper(Tone): Tone 0x11 => ITU 0x11 in State:R2TO_TXCALLED(13), New Peer State:R
2TI_CALLEDNUM(3) : (tnif.c;1658)
_CAS :R2 : 3032848: 00000:TN :R2: InRegMapper(Cmd): Mapped 0x48 to 0x48 in State:R2TO_TXCALLED(13), New Peer State:R2TI
_CALLEDNUM(-1) : (tnif.c;1658)
_CAS :R2 : 3032848: 00000:TN :R2: Send Register 0x00, new state R2TO_TXCALLED(13) : (tnif.c;1658)
_CAS :R2 : 3032848: 00000:TN :R2: Send Register 0x40, new state R2TO_WAIT4SILENCE(18) : (tnif.c;1658)
_CAS :R2 : 3032848: 00000:TN :R2: SendToneReq Tone:0x40 : (tnif.c;1658)
MsgRx : 3032850: 00002:ISDN : to: ISDN from: ISDN_DVR msg: ISDN_DVR_IND - ISDN_CCEV_CAS_TONE (F1001EE9)

MsgRx : 3032850: 00000:ISDN : ISDN/CAS DVR msg: ISDN_CCEV_TONE_REQ (F1011D0A)
Handle 0x00038010 MCTone 0
MsgRx : 3032973: 00123:ISDN : to: ISDN from: DSP msg: MC_IND - MC_IND_DTMF_DIGIT (F10003B4)
pcall=00038010 index=0 Digit 1 end at 21867
_CAS :R2 : 3033008: 00035:TN :R2: Received Tone from Host:0x40 for Line:98 in Current Tone State:R2TO_WAIT4SILENCE(18):
(tnif.c;1658)
_CAS :R2 : 3033008: 00000:TN :R2: InRegMapper(Cmd): Mapped 0x40 to 0x40 in State:R2TO_WAIT4SILENCE(18), New Peer State:
R2TI_CALLEDNUM(-1) : (tnif.c;1658)
_CAS :R2 : 3033008: 00000:TN :R2: Send Register 0x0F, new state R2TO_TXADDR_DONE(16) : (tnif.c;1658)
_CAS :R2 : 3033008: 00000:TN :R2: OutRegMapper: Mapped tone 0x0f to 0x0f in Peer state R2TI_CALLEDNUM(3) : (tnif.c;165
8)
_CAS :R2 : 3033008: 00000:TN :R2: SendToneReq Tone:0x0f : (tnif.c;1658)
MsgRx : 3033008: 00000:ISDN : to: ISDN from: ISDN_DVR msg: ISDN_DVR_IND - ISDN_CCEV_CAS_TONE (F1011D0B)

MsgRx : 3033010: 00002:ISDN : ISDN/CAS DVR msg: ISDN_CCEV_TONE_REQ (F1011D0C)
Handle 0x00038010 MCTone 55
MsgRx : 3033148: 00138:ISDN : to: ISDN from: DSP msg: MC_IND - MC_IND_DTMF_DIGIT (F10003B5)
pcall=00038010 index=0 Digit 3 start at 22032
_CAS :R2 : 3033188: 00040:TN :R2: Received Tone from Host:0x03 for Line:98 in Current Tone State:R2TO_TXADDR_DONE(16) :
(tnif.c;1658)
_CAS :R2 : 3033188: 00000:TN :R2: InRegMapper(Tone)[0]: Mapped Tone 0x13 to Reg 0x04 in State:R2TO_TXADDR_DONE(16) : (tn
if.c;1658)
_CAS :R2 : 3033188: 00000:TN :R2: InRegMapper(Tone): Tone 0x13 => ITU 0x13 in State:R2TO_TXADDR_DONE(16), New Peer Stat
e:R2TI_CATEGORY(5) : (tnif.c;1658)
_CAS :R2 : 3033188: 00000:TN :R2: Send Register 0x40, new state R2TO_WAIT4SILENCE(18) : (tnif.c;1658)
_CAS :R2 : 3033188: 00000:TN :R2: SendToneReq Tone:0x40 : (tnif.c;1658)
MsgRx : 3033188: 00000:ISDN : to: ISDN from: ISDN_DVR msg: ISDN_DVR_IND - ISDN_CCEV_CAS_TONE (F1011D0D)

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MsgRx : 3033190: 00002:ISDN      : ISDN/CAS DVR msg: ISDN_CCEV_TONE_REQ (F1011D0F)
Handle 0x00038010 MCTone 0
MsgRx : 3033328: 00138:ISDN      : to:   ISDN      from: DSP        msg: MC_IND - MC_IND_DTMF_DIGIT (F10003B6)
pcall=00038010 index=0 Digit 3 end at 22222
_CAS      :R2      : 3033368: 00040:TN      :R2: Received Tone from Host:0x40 for Line:98 in Current Tone State:R2TO_WAIT4SILENCE(18):(tnif.c;1658)
_CAS      :R2      : 3033368: 00000:TN      :R2: InRegMapper(Cmd): Mapped 0x40 to 0x40 in State:R2TO_WAIT4SILENCE(18), New Peer State:R2TI_CATEGORY(-1)
:(tnif.c;1658)
_CAS      :R2      : 3033368: 00000:TN      :R2: Send Register 0x01, new state R2TO_GROUPB(20)      :(tnif.c;1658)
_CAS      :R2      : 3033368: 00000:TN      :R2: OutRegMapper: Mapped tone 0x01 to 0x01 in Peer state R2TI_CATEGORY(5)      :(tnif.c;1658)
_CAS      :R2      : 3033368: 00000:TN      :R2: SendToneReq Tone:0x01      :(tnif.c;1658)
MsgRx : 3033368: 00000:ISDN      : to:   ISDN      from: ISDNDVR    msg: ISDNDVR_IND - ISDN_CCEV_CAS_TONE (F1011D0E)

MsgRx : 3033370: 00002:ISDN      : ISDN/CAS DVR msg: ISDN_CCEV_TONE_REQ (F1011D13)
Handle 0x00038010 MCTone 41
MsgRx : 3033673: 00303:ISDN      : to:   ISDN      from: DSP        msg: MC_IND - MC_IND_DTMF_DIGIT (F10003B7)
pcall=00038010 index=0 Digit 6 start at 22557
_CAS      :R2      : 3033708: 00035:TN      :R2: Received Tone from Host:0x06 for Line:98 in Current Tone State:R2TO_GROUPB(20)      :(tnif.c;1658)
_CAS      :R2      : 3033708: 00000:TN      :R2: InRegMapper(Tone)[0]: Mapped Tone 0x16 to Reg 0x04 in State:R2TO_GROUPB(20)      :(tnif.c;1658)
_CAS      :R2      : 3033708: 00000:TN      :R2: InRegMapper(Tone): Tone 0x16 => ITU 0x16 in State:R2TO_GROUPB(20), New Peer State:R2TI_IDLE(2)
:(tnif.c;1658)
_CAS      :R2      : 3033708: 00000:TN      :R2: Send Register 0x40, new state R2TO_WAIT4SILENCE(18)      :(tnif.c;1658)
_CAS      :R2      : 3033708: 00000:TN      :R2: SendToneReq Tone:0x40      :(tnif.c;1658)
MsgRx : 3033710: 00002:ISDN      : to:   ISDN      from: ISDNDVR    msg: ISDNDVR_IND - ISDN_CCEV_CAS_PPKT (F1011D10)

MsgRx : 3033710: 00000:ISDN      : ISDN/CAS DVR msg: ISDN_CCEV_INFORMATION (F1011D11)
Handle 0x00038010,,,64,
MsgTx : 3033710: 00000:ISDN      : from: ISDN      to:   ROUTER     msg: CALL_CONTROL - CC_ALERTING_IND (F1001BBE)
ctxt=[f10002fc] key=d4000055
MsgRx : 3033710: 00000:ISDN      : to:   ISDN      from: ISDNDVR    msg: ISDNDVR_IND - ISDN_CCEV_CAS_TONE (F1011D14)

MsgRx : 3033710: 00000:ISDN      : ISDN/CAS DVR msg: ISDN_CCEV_TONE_REQ (F1011D15)
Handle 0x00038010 MCTone 0
MsgRx : 3033713: 00003:ROUTER    : to:   ROUTER    from: ISDN      msg: CALL_CONTROL - CC_ALERTING_IND (F1001BBE)
ctxt=[f10002fc] key=d4000055
MsgTx : 3033713: 00000:ROUTER    : from: ROUTER    to:   SIP        msg: CALL_CONTROL - CC_ALERTING_RQ (F1001BBF)
ctxt=[f10002fc] key=d3000054
_CAS      :R2      : 3047348: 13635:TN      :R2: In_Line_Mapper(Line_State_Valid): Mapped 0x05 to 0x04 in State:142      :(tnif.c;1658)
MsgRx : 3047368: 00020:ISDN      : to:   ISDN      from: ISDNDVR    msg: ISDNDVR_IND - ISDN_CCEV_CAS_PPKT (F1011D12)

MsgRx : 3047368: 00000:ISDN      : ISDN/CAS DVR msg: ISDN_CCEV_CONNECT (F1011D17)
Handle 0x00038010
MsgTx : 3047370: 00002:ISDN      : from: ISDN      to:   ROUTER     msg: CALL_CONTROL - CC_CONNECT_IND (F1001BC0)
ctxt=[f10002fc] key=d4000055
MsgRx : 3047370: 00000:ROUTER    : to:   ROUTER    from: ISDN      msg: CALL_CONTROL - CC_CONNECT_IND (F1001BC0)
ctxt=[f10002fc] key=d4000055
MsgTx : 3047373: 00003:ROUTER    : from: ROUTER    to:   SIP        msg: CALL_CONTROL - CC_CONNECT_RQ (F1001BC1)
ctxt=[f10002fc] key=d3000054
LOG: 11/07/2006 09:49:58.927 ISDN      (I)R03C62 connect g711Alaw64k
call ref=[f10002fc]
LOG: 11/07/2006 09:49:58.945 SIP        (I)R03C25 connect g711Ulaw64k (Profile 0 - Voice)
call ref=[00000000]

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_CAS      :R2      : 3067048: 19675:TN      :R2: In_Line_Mapper(Line_State_Valid): Mapped 0x0d to 0x0c in State:144      :(tnif.c:1658)
MsgRx    : 3067068: 00020:ISDN      : to:   ISDN      from: ISDNDVR  msg: ISDNDVR_IND - ISDN_CCEV_CAS_PPKT (F1011D16)

MsgRx    : 3067068: 00000:ISDN      : ISDN/CAS DVR msg: ISDN_CCEV_DISCONNECT (F1011D19)
Handle 0x00038010 Cause 16
MsgTx    : 3067068: 00000:ISDN      : from: ISDN      to:   ROUTER  msg: CALL_CONTROL - CC_DISCONNECT_IND (F1001BC2)
      ctxt=[f10002fc] key=d4000055 cause=16
MsgRx    : 3067075: 00007:ROUTER      : to:   ROUTER  from: ISDN      msg: CALL_CONTROL - CC_DISCONNECT_IND (F1001BC2)
      ctxt=[f10002fc] key=d4000055 cause=16
MsgTx    : 3067075: 00000:ROUTER      : from: ROUTER  to:   SIP      msg: CALL_CONTROL - CC_DISCONNECT_RQ (F1001BC3)
      ctxt=[f10002fc] key=d3000054 cause=16
MsgRx    : 3067083: 00008:ROUTER      : to:   ROUTER  from: SIP      msg: CALL_CONTROL - CC_DISCONNECT_IND (F1001BC4)
      ctxt=[f10002fc] key=d3000054 cause=16
_CAS      :ABCD     : 3067108: 00025:TN      :CAS-ABCD: Setting ITU ABCD Bits:0x08 on LineNumber:98 in State:OUT_CLRFWD      :(tnif.c:1658)
_CAS      :R2      : 3067108: 00000:TN      :R2: Out_Line_Mapper: Mapped 0x08 to 0x09 in State:158      :(tnif.c:1658)
LOG: 11/07/2006 09:50:18.625 ISDN      (I)R04C62 disconnect 16
      call ref=[f10002fc]
LOG: 11/07/2006 09:50:18.627 ISDN      (I)R04C62 send release 16
      call ref=[f10002fc]
LOG: 11/07/2006 09:50:18.635 SIP      (I)R04C25 disconnect(disc req) 16
      call ref=[f10002fc]
_CAS      :R2      : 3067248: 00140:TN      :R2: In_Line_Mapper(Line_State_Valid): Mapped 0x09 to 0x08 in State:158      :(tnif.c:1658)
MsgRx    : 3067288: 00040:ISDN      : to:   ISDN      from: ISDNDVR  msg: ISDNDVR_IND - ISDN_CCEV_CAS_PPKT (F1011D18)

MsgRx    : 3067288: 00000:ISDN      : ISDN/CAS DVR msg: ISDN_CCEV_RELEASE_COMPLETE (F1011D1C)
Handle 0x00038010 Cause 16

admin >

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R2MFC to SIP (calling 602)

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admin >
admin >
admin > sip monitor off
admin >
admin >
admin >
_CAS :R2 : 1092305: 99100:TN :R2: In_Line_Mapper(Line_State_Valid): Mapped 0x01 to 0x00 in State:166 :(tnif.c;1658)
_CAS :R2 : 1092325: 00020:TN :CAS-ABCD: Setting ITU ABCD Bits:0x0c on LineNumber:66 in State:IN_SEIZE_ACK :(tnif.c;1658)
_CAS :R2 : 1092325: 00000:TN :R2: Out_Line_Mapper: Mapped 0x0c to 0x0d in State:111 :(tnif.c;1658)
_CAS :R2 : 1092465: 00140:TN :R2: Received Tone from Host:0x06 for Line:66 in Current Tone State:R2TI_IDLE(2) :(tnif.c;1658)
_CAS :R2 : 1092465: 00000:TN :R2: InRegMapper(Tone)[0]: Mapped Tone 0x06 to Reg 0x05 in State:R2TI_IDLE(2) :(tnif.c;1658)
_CAS :R2 : 1092465: 00000:TN :R2: InRegMapper(Tone): Tone 0x06 => ITU 0x06 in State:R2TI_IDLE(2), New Peer State:R2TO_TXCALLED(13)
:(tnif.c;1658)
_CAS :R2 : 1092465: 00000:TN :R2: Send Register 0x15, new state R2TI_WAIT4SILENCE(8) :(tnif.c;1658)
_CAS :R2 : 1092465: 00000:TN :R2: OutRegMapper: Mapped tone 0x15 to 0x15 in Peer state R2TO_TXCALLED(13) :(tnif.c;1658)
_CAS :R2 : 1092467: 00002:TN :R2: SendToneReq Tone:0x15 :(tnif.c;1658)
_CAS :R2 : 1092625: 00158:TN :R2: Received Tone from Host:0x40 for Line:66 in Current Tone State:R2TI_WAIT4SILENCE(8) :(tnif.c;1658)
_CAS :R2 : 1092625: 00000:TN :R2: InRegMapper(Cmd): Mapped 0x40 to 0x40 in State:R2TI_WAIT4SILENCE(8), New Peer State:R2TO_TXCALLED(-1)
:(tnif.c;1658)
_CAS :R2 : 1092625: 00000:TN :R2: Send Register 0x50, new state R2TI_CATEGORY(5) :(tnif.c;1658)
_CAS :R2 : 1092625: 00000:TN :R2: SendToneReq Tone:0x40 :(tnif.c;1658)
_CAS :R2 : 1092785: 00160:TN :R2: Received Tone from Host:0x01 for Line:66 in Current Tone State:R2TI_CATEGORY(5) :(tnif.c;1658)
_CAS :R2 : 1092785: 00000:TN :R2: InRegMapper(Tone)[0]: Mapped Tone 0x01 to Reg 0x00 in State:R2TI_CATEGORY(5) :(tnif.c;1658)
_CAS :R2 : 1092785: 00000:TN :R2: InRegMapper(Tone): Tone 0x01 => ITU 0x01 in State:R2TI_CATEGORY(5), New Peer State:R2TO_TXCALLED(13)
:(tnif.c;1658)
_CAS :R2 : 1092785: 00000:TN :R2: Send Register 0x11, new state R2TI_WAIT4SILENCE(8) :(tnif.c;1658)
_CAS :R2 : 1092785: 00000:TN :R2: OutRegMapper: Mapped tone 0x11 to 0x11 in Peer state R2TO_TXCALLED(13) :(tnif.c;1658)
_CAS :R2 : 1092787: 00002:TN :R2: SendToneReq Tone:0x11 :(tnif.c;1658)
_CAS :R2 : 1092965: 00178:TN :R2: Received Tone from Host:0x40 for Line:66 in Current Tone State:R2TI_WAIT4SILENCE(8) :(tnif.c;1658)
_CAS :R2 : 1092965: 00000:TN :R2: InRegMapper(Cmd): Mapped 0x40 to 0x40 in State:R2TI_WAIT4SILENCE(8), New Peer State:R2TO_TXCALLED(-1)
:(tnif.c;1658)
_CAS :R2 : 1092965: 00000:TN :R2: Send Register 0x50, new state R2TI_CALLEDNUM(3) :(tnif.c;1658)
_CAS :R2 : 1092965: 00000:TN :R2: SendToneReq Tone:0x40 :(tnif.c;1658)
_CAS :R2 : 1093125: 00160:TN :R2: Received Tone from Host:0x0a for Line:66 in Current Tone State:R2TI_CALLEDNUM(3) :(tnif.c;1658)
_CAS :R2 : 1093125: 00000:TN :R2: InRegMapper(Tone)[0]: Mapped Tone 0x0a to Reg 0x09 in State:R2TI_CALLEDNUM(3) :(tnif.c;1658)
_CAS :R2 : 1093125: 00000:TN :R2: InRegMapper(Tone): Tone 0x0a => ITU 0x0a in State:R2TI_CALLEDNUM(3), New Peer State:R2TO_TXCALLED(13)
:(tnif.c;1658)
_CAS :R2 : 1093125: 00000:TN :R2: Send Register 0x11, new state R2TI_WAIT4SILENCE(8) :(tnif.c;1658)
_CAS :R2 : 1093125: 00000:TN :R2: OutRegMapper: Mapped tone 0x11 to 0x11 in Peer state R2TO_TXCALLED(13) :(tnif.c;1658)
_CAS :R2 : 1093127: 00002:TN :R2: SendToneReq Tone:0x11 :(tnif.c;1658)
_CAS :R2 : 1093305: 00178:TN :R2: Received Tone from Host:0x40 for Line:66 in Current Tone State:R2TI_WAIT4SILENCE(8) :(tnif.c;1658)
_CAS :R2 : 1093305: 00000:TN :R2: InRegMapper(Cmd): Mapped 0x40 to 0x40 in State:R2TI_WAIT4SILENCE(8), New Peer State:R2TO_TXCALLED(-1)
:(tnif.c;1658)
_CAS :R2 : 1093305: 00000:TN :R2: Send Register 0x50, new state R2TI_CALLEDNUM(3) :(tnif.c;1658)
_CAS :R2 : 1093305: 00000:TN :R2: SendToneReq Tone:0x40 :(tnif.c;1658)
_CAS :R2 : 1093465: 00160:TN :R2: Received Tone from Host:0x02 for Line:66 in Current Tone State:R2TI_CALLEDNUM(3) :(tnif.c;1658)
_CAS :R2 : 1093465: 00000:TN :R2: InRegMapper(Tone)[0]: Mapped Tone 0x02 to Reg 0x01 in State:R2TI_CALLEDNUM(3) :(tnif.c;1658)
_CAS :R2 : 1093465: 00000:TN :R2: InRegMapper(Tone): Tone 0x02 => ITU 0x02 in State:R2TI_CALLEDNUM(3), New Peer State:R2TO_TXCALLED(13)
:(tnif.c;1658)
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_CAS :R2 : 1093465: 0000:TN :R2: Send Register 0x11, new state R2TI_WAIT4SILENCE(8) :(tnif.c;1658)
_CAS :R2 : 1093465: 0000:TN :R2: OutRegMapper: Mapped tone 0x11 to 0x11 in Peer state R2TO_TXCALLED(13) :(tnif.c;1658)
_CAS :R2 : 1093467: 00002:TN :R2: SendToneReq Tone:0x11 :(tnif.c;1658)
_CAS :R2 : 1093645: 00178:TN :R2: Received Tone from Host:0x40 for Line:66 in Current Tone State:R2TI_WAIT4SILENCE(8) :(tnif.c;1658)
_CAS :R2 : 1093645: 00000:TN :R2: InRegMapper(Cmd): Mapped 0x40 to 0x40 in State:R2TI_WAIT4SILENCE(8), New Peer State:R2TO_TXCALLED(-1)
:(tnif.c;1658)
_CAS :R2 : 1093645: 00000:TN :R2: Send Register 0x50, new state R2TI_CALLEDNUM(3) :(tnif.c;1658)
_CAS :R2 : 1093645: 00000:TN :R2: SendToneReq Tone:0x40 :(tnif.c;1658)
_CAS :R2 : 1093805: 00160:TN :R2: Received Tone from Host:0x0f for Line:66 in Current Tone State:R2TI_CALLEDNUM(3) :(tnif.c;1658)
_CAS :R2 : 1093805: 00000:TN :R2: InRegMapper(Tone)[0]: Mapped Tone 0x0f to Reg 0x14 in State:R2TI_CALLEDNUM(3) :(tnif.c;1658)
_CAS :R2 : 1093805: 00000:TN :R2: InRegMapper(Tone)[1]: Mapped Tone 0x0f to Reg 0x15 in State:R2TI_CALLEDNUM(3) :(tnif.c;1658)
_CAS :R2 : 1093805: 00000:TN :R2: InRegMapper(Tone): Tone 0x0f => ITU 0x0f in State:R2TI_CALLEDNUM(3), New Peer State:R2TO_TXCALLED(13)
:(tnif.c;1658)
_CAS :R2 : 1093807: 00002:TN :R2: Send Register 0x13, new state R2TI_WAIT4SILENCE(8) :(tnif.c;1658)
_CAS :R2 : 1093807: 00000:TN :R2: OutRegMapper: Mapped tone 0x13 to 0x13 in Peer state R2TO_TXCALLED(13) :(tnif.c;1658)
_CAS :R2 : 1093807: 00000:TN :R2: SendToneReq Tone:0x13 :(tnif.c;1658)
MsgRx : 1093950: 00143:ROUTER : to: ROUTER from: ISDN msg: CALL_CONTROL - CC_SETUP_IND (F1001B5A)
ctxt=[f10002e0] key=d3000011 port:grp:bc=2:0:2, BC cs:cap:rate:mode=00:00:10:00, Enbloc
calling_pn= (0,0,254,254)
called_pn=TEL:602 (0,0)
MsgTx : 1093950: 00000:ROUTER : from: ROUTER to: PACING msg: CALL_CONTROL - CC_SETUP_IND (F1001B5A)
ctxt=[f10002e0] key=d3000011 port:grp:bc=2:0:2, BC cs:cap:rate:mode=00:00:10:00, Enbloc
calling_pn= (0,0,254,254)
called_pn=TEL:602 (0,0)
MsgRx : 1093952: 00002:ROUTER : to: ROUTER from: ISDN msg: CALL_CONTROL - CC_SETUP_IND (F1001B5A)
ctxt=[f10002e0] key=d3000011 port:grp:bc=2:0:2, BC cs:cap:rate:mode=00:00:10:00, Enbloc
calling_pn= (0,0,254,254)
called_pn=TEL:602 (0,0)
MsgTx : 1093955: 00003:ROUTER : from: ROUTER to: SIP msg: CALL_CONTROL - CC_SETUP_RQ (F1001B5B)
ctxt=[f10002e0] key=d4000012 port:grp:bc=1:0:255, BC cs:cap:rate:mode=00:00:10:00, Enbloc
calling_pn=IF:0403 (0,0,254,254)
called_pn=TEL:602,TELC:201 (0,0)
MsgTx : 1093955: 00000:ROUTER : from: ROUTER to: ISDN msg: CALL_CONTROL - CC_PROCEEDING_RQ (F1001B5C)
ctxt=[f10002e0] key=d3000011
MsgRx : 1093960: 00005:ROUTER : to: ROUTER from: SIP msg: CALL_CONTROL - CC_SETUPPACK_IND (F1001B5D)
ctxt=[f10002e0] key=d4000012
_CAS :R2 : 1093985: 00025:TN :R2: Received Tone from Host:0x40 for Line:66 in Current Tone State:R2TI_WAIT4SILENCE(8) :(tnif.c;1658)
_CAS :R2 : 1093985: 00000:TN :R2: InRegMapper(Cmd): Mapped 0x40 to 0x40 in State:R2TI_WAIT4SILENCE(8), New Peer State:R2TO_TXCALLED(-1)
:(tnif.c;1658)
_CAS :R2 : 1093985: 00000:TN :R2: Send Register 0x50, new state R2TI_2GRP_B(6) :(tnif.c;1658)
_CAS :R2 : 1093985: 00000:TN :R2: SendToneReq Tone:0x40 :(tnif.c;1658)
LOG: 11/07/2006 10:49:42.742 ISDN (I)R01C42 incoming
call ref=[f10002e0] srce= [0]
LOG: 11/07/2006 10:49:42.747 ROUTER (I)R0bc00 FINDROUTE profile:2(Steves) plan:1
call ref=[f10002e0] <-- ISDN [3,1] dest=TEL:602
--> SIP [2,1] dest=TEL:602,TELC:201
LOG: 11/07/2006 10:49:42.747 ROUTER (I)R0bc00 call proceeding
call ref=[f10002e0]
_CAS :R2 : 1094165: 00180:TN :R2: Received Tone from Host:0x01 for Line:66 in Current Tone State:R2TI_2GRP_B(6) :(tnif.c;1658)
_CAS :R2 : 1094165: 00000:TN :R2: InRegMapper(Tone)[0]: Mapped Tone 0x01 to Reg 0x00 in State:R2TI_2GRP_B(6) :(tnif.c;1658)
_CAS :R2 : 1094165: 00000:TN :R2: InRegMapper(Tone): Tone 0x01 => ITU 0x01 in State:R2TI_2GRP_B(6), New Peer State:R2TO_GROUPB(20)
:(tnif.c;1658)

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_CAS      :R2      : 1094165: 00000:TN      :R2: Send Register 0x00, new state R2TI_WAIT4HOST(9)      :(tnif.c;1658)
MsgRx    : 1094297: 00132:ROUTER  : to:   ROUTER   from: SIP      msg: CALL_CONTROL - CC_ALERTING_IND (F1001B5E)
        ctxt=[f10002e0] key=d4000012
MsgTx    : 1094297: 00000:ROUTER  : from: ROUTER   to:   ISDN     msg: CALL_CONTROL - CC_ALERTING_RQ (F1001B5F)
        ctxt=[f10002e0] key=d3000011
_CAS      :R2      : 1094325: 00028:TN      :R2: InRegMapper(Cmd): Mapped 0x41 to 0x41 in State:R2TI_WAIT4HOST(9), New Peer State:R2TO_GROUPB(-1)
:(tnif.c;1658)
_CAS      :R2      : 1094325: 00000:TN      :R2: Send Register 0x16, new state R2TI_TONEDONE(7)      :(tnif.c;1658)
_CAS      :R2      : 1094325: 00000:TN      :R2: OutRegMapper: Mapped tone 0x16 to 0x16 in Peer state R2TO_GROUPB(20)      :(tnif.c;1658)
_CAS      :R2      : 1094325: 00000:TN      :R2: SendToneReq Tone:0x16      :(tnif.c;1658)
_CAS      :R2      : 1094505: 00180:TN      :R2: Received Tone from Host:0x40 for Line:66 in Current Tone State:R2TI_TONEDONE(7)      :(tnif.c;1658)
_CAS      :R2      : 1094505: 00000:TN      :R2: InRegMapper(Cmd): Mapped 0x40 to 0x40 in State:R2TI_TONEDONE(7), New Peer State:R2TO_GROUPB(-1)
:(tnif.c;1658)
_CAS      :R2      : 1094505: 00000:TN      :R2: SendToneReq Tone:0x40      :(tnif.c;1658)
_CAS      :R2      : 1094505: 00000:TN      :R2: Send Register 0x00, new state R2TI_IDLE(2)      :(tnif.c;1658)
MsgRx    : 1107982: 13477:ROUTER  : to:   ROUTER   from: SIP      msg: CALL_CONTROL - CC_CONNECT_IND (F1001B60)
        ctxt=[f10002e0] key=d4000012
MsgTx    : 1107982: 00000:ROUTER  : from: ROUTER   to:   ISDN     msg: CALL_CONTROL - CC_CONNECT_RQ (F1001B61)
        ctxt=[f10002e0] key=d3000011
LOG: 11/07/2006 10:49:56.770 SIP      (I)R03C15 connect g711ulaw64k (Profile 0 - Voice)
        call ref=[f10002e0]
_CAS      :ABCD     : 1108025: 00043:TN      :CAS-ABCD: Setting ITU ABCD Bits:0x04 on LineNumber:66 in State:IN_ANSWERED      :(tnif.c;1658)
_CAS      :R2      : 1108025: 00000:TN      :R2: Out_Line_Mapper: Mapped 0x04 to 0x05 in State:114      :(tnif.c;1658)
MsgRx    : 1127682: 19657:ROUTER  : to:   ROUTER   from: SIP      msg: CALL_CONTROL - CC_DISCONNECT_IND (F1001B62)
        ctxt=[f10002e0] key=d4000012 cause=16
MsgTx    : 1127685: 00003:ROUTER  : from: ROUTER   to:   ISDN     msg: CALL_CONTROL - CC_DISCONNECT_RQ (F1001B63)
        ctxt=[f10002e0] key=d3000011 cause=16
_CAS      :ABCD     : 1127725: 00040:TN      :CAS-ABCD: Setting ITU ABCD Bits:0x0c on LineNumber:66 in State:IN_CLRBACK      :(tnif.c;1658)
_CAS      :R2      : 1127725: 00000:TN      :R2: Out_Line_Mapper: Mapped 0x0c to 0x0d in State:116      :(tnif.c;1658)
LOG: 11/07/2006 10:50:16.462 SIP      (I)R04C15 disconnect(disc ind) 16
        call ref=[f10002e0]
LOG: 11/07/2006 10:50:16.482 ISDN     (I)R04C42 send disconnect 16
        call ref=[f10002e0]
_CAS      :R2      : 1127865: 00140:TN      :R2: In_Line_Mapper(Line_State_Valid): Mapped 0x09 to 0x08 in State:116      :(tnif.c;1658)
MsgRx    : 1127885: 00020:ROUTER  : to:   ROUTER   from: ISDN     msg: CALL_CONTROL - CC_DISCONNECT_IND (F1001B64)
        ctxt=[f10002e0] key=d3000011 cause=16
_CAS      :ABCD     : 1127925: 00040:TN      :CAS-ABCD: Setting ITU ABCD Bits:0x08 on LineNumber:66 in State:BW_IN_REL      :(tnif.c;1658)
_CAS      :R2      : 1127925: 00000:TN      :R2: Out_Line_Mapper: Mapped 0x08 to 0x09 in State:184      :(tnif.c;1658)
LOG: 11/07/2006 10:50:16.677 ISDN     (I)R04C42 disconnect 16
        call ref=[f10002e0]
admin >
admin >

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