

Configuração de E1 R2 Signaling e Troubleshooting

Índice

[Introdução](#)

[Pré-requisitos](#)

[Requisitos](#)

[Componentes Utilizados](#)

[Convenções](#)

[Configurar](#)

[AS5300: Cisco IOS - Voice Feature Card \(VFC\) Software Compatibility](#)

[Configurar o E1 R2](#)

[Diagrama de Rede](#)

[Configurações](#)

[Verificar](#)

[Troubleshooting](#)

[Pesquise defeitos falhas do E1 R2](#)

[comandos debug e show](#)

[Exemplo de debug](#)

[Informações Relacionadas](#)

[Introdução](#)

Este documento oferece as entradas do comando progressive que são necessárias para implantar a sinalização E1R2. Este documento também oferece informações de troubleshooting com comandos debug.

Nota: Antes que você use este documento, recomenda-se que você lê primeiramente a [teoria de sinalização do E1 R2](#).

[Pré-requisitos](#)

[Requisitos](#)

Antes que você tente esta configuração, assegure-se de que você encontre estas condições prévias:

- A sinalização R2 aplica-se ao E1 somente.
- A sinalização R2 não é apoiada no roteador de Cisco MC3810.
- A fim executar a sinalização R2 em Cisco 2600/3600 Series Router, este hardware é

exigido:VVIC-1MFT-E1 ou VVIC-2MFT-E1 ou VVIC-2MFT-E1-DI junto com um destes módulos da densidade da Voz: [NM-HDV](#) (módulo de red de voz de gran densidad) ou NM-HD-2VE (módulo de rede de voz/fax das Comunicações IP 2-slot).

- Defina o comando ds0-group (ou o CAS-grupo, com base na versão de Cisco IOS®) nos controladores E1 (Roteadores do AS5x00, do Cisco 2600/3600).
- Use o comando cas-custom a fim personalizar as variações do E1 R2 para países diferentes ou regiões.

[Componentes Utilizados](#)

A informação neste documento é baseada nesta versão de software e hardware:

- Cisco AS5300 com Cisco IOS Software Release 12.0.7T

Nota: A sinalização do E1 R2 foi introduzida aos Cisco 2600/3600 Series Router nos Cisco IOS Software Releases 12.1.2XH e 12.1(3)T.

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a sua rede estiver ativa, certifique-se de que entende o impacto potencial de qualquer comando.

[Convenções](#)

Para obter mais informações sobre convenções de documento, consulte as [Convenções de dicas técnicas Cisco](#).

[Configurar](#)

Esta seção apresenta-o com a informação que você pode se usar a fim configurar o E1 R2.

Nota: A fim encontrar a informação adicional nos comandos que este documento se usa, refere-se a [ferramenta de consulta de comandos \(clientes registrados somente\)](#).

[AS5300: Cisco IOS - Voice Feature Card \(VFC\) Software Compatibility](#)

Antes que você execute o E1 R2 que sinaliza em um Cisco AS5300 Router, assegure-se de que sua versão de Cisco IOS Software esteja compatível com o Cisco VCWare no módulo E1. A fim verificar a compatibilidade de Cisco IOS Software, refira a [matriz de compatibilidade do Cisco VCWare para o Cisco AS5300](#). Se as versões são incompatíveis, os módulos do processador do sinal digital (DSP) na placa de voz não carregam e o processamento de sinal de voz não ocorre.

Tipicamente, se a versão do Cisco VCWare é incompatível com o Cisco IOS Software, você pode inscrever o **comando show vfc slot_number interface** a fim ver este segundo as indicações deste exemplo.

```
eefje#show vfc 1 interface Rx: in ptr 18, outptr 0 Tx: in ptr 14 outptr 14 0 in hw queue, 0
queue head , 0 queue tail Hardware is VFC out-of-band channel Interface : state RESET DSP
instance (0x61048284) dsp_number 0, Channel ID 0 TX outstanding 0, max TX outstanding 0 Received
18 packets, 1087 bytes, 0 giant packets 0 drops, 0 no buffers, 0 input errors 121 bytes output,
14 frames output 0 bounce errors 0 DSP module 1 is not installed DSP module 2 is not installed
```

DSP module 3 is not installed DSP module 4 is not installed DSP module 5 is not installed

Nas primeiras saídas de exemplo do comando **show vfc slot_number interface**, o número do módulo DSP não é indicações instaladas mostra que as versões são incompatíveis para esse número de módulo.

Este segundo grupo de saída é um exemplo dos módulos DSP que têm a versão correta do Cisco VCWare carregada:

```
eefje#show vfc 1 interface Rx: in ptr 24, outptr 0 TX: in ptr 15 outptr 15 0 in hw queue, 0
queue head , 0 queue tail Hardware is VFC out-of-band channel Interface : state RESET DSP
instance (0x618C6088) dsp_number 0, Channel ID 0 TX outstanding 0, max TX outstanding 0 Received
283288 packets, 15864278 bytes, 0 giant packets 0 drops, 0 no buffers, 0 input errors 1416459
bytes output, 141647 frames output 0 bounce errors 0 Slot 1, DSPM 1 (C542), DSP 1, Channel 1
State RESET, DSP instance (0x61914BDC) TX outstanding 0, max TX outstanding 8 Received 0
packets, 0 bytes, 0 giant packets 0 drops, 0 no buffers, 0 input errors 0 bytes output, 0 frames
output 0 bounce errors 0 Slot 1, DSPM 1 (C542), DSP 2, Channel 1 State RESET, DSP instance
(0x6191510C) TX outstanding 0, max TX outstanding 8 Received 0 packets, 0 bytes, 0 giant packets
0 drops, 0 no buffers, 0 input errors 0 bytes output, 0 frames output 0 bounce errors 0
```

A fim verificar a versão instalada do Cisco VCWare, inscreva o comando **show vfc slot_number version vcware**, segundo as indicações deste exemplo:

```
eefje#show vfc 1 version vcware Voice Feature Card in Slot 1: VCware Version : 4.10 ROM Monitor
Version : 1.2 DSPware Version : Technology : C542
```

Nota: Certifique-se que a versão de tecnologia do Cisco VCWare (c549 ou c542) combina a tecnologia de DSP instalada VFC (DSPM-542: suporte de voz de densidade única ou DSPM-549: suporte de voz de alta densidade).

[Configurar o E1 R2](#)

Termine estas etapas a fim configurar o E1 R2:

1. Estabelecer o controlador E1 que conecta à private automatic branch exchange (posto privado de comutação automática) (PBX) ou ao interruptor. Assegure-se de que a moldação e a codificação de linha do E1 estejam ajustadas corretamente.
2. Para o E1 que molda, escolha o **CRC** ou o **NON-CRC**.
3. Para a codificação de linha E1, escolha o **HDB3** ou o **AMI**.
4. Para o origem do relógio E1, escolha **interno** ou a **linha**. Lembre-se de que PBXs diferentes possuem requisitos diferentes na fonte de tempo.
5. [Configurar o sinal de linha.](#)
6. [Configurar a sinalização entre registros.](#)
7. Personalize a configuração com o comando **cas-custom**.

[Configurar o sinal de linha](#)

Use esta sequência de comandos a fim definir seu sinal de linha.

```
eefje(config)#controller E1 0 eefje(config-controller)#ds0-group 1 timeslots 1-15 type ? ...
r2-analog R2 ITU Q411 r2-digital R2 ITU Q421 r2-pulse R2 ITU Supplement 7 ...
```

Esta é a sequência de comandos para o Cisco IOS Software Release 11.3.

```
eefje(config)#controller E1 0 eefje(config-controller)#cas-group 1 timeslot 1-15 type ? ...
```

Nota: Se você promove do Cisco IOS Software Release 11.3 a 12.0, o comando **new** substitui velho automaticamente.

[Configurar a sinalização entre registros](#)

Este exemplo da sequência de comandos ilustra como configurar os tipos diferentes de sinalização entre registros:

```
eefje(config)#controller E1 0 eefje(config-controller)#ds0-group 1 timeslots 1-15 type r2-digital ? dtmf DTMF tone signaling r2-compelled R2 Compelled Register Signaling r2-non-compelled R2 Non Compelled Register Signaling r2-semi-compelled R2 Semi Compelled Register Signaling
```

A implementação Cisco da sinalização R2 tem o apoio do Dialed Number Identification Service (DNIS) permitido à revelia. Se você permite a opção da identificação de número automática (ANI), a reunião de informação DNIS está executada ainda. A especificação da opção ANI não desabilita a coleção DNIS. O DNIS é o número que é chamado. O ANI é o número do chamador. Por exemplo, se você configura um roteador chamado A para chamar um roteador chamado B, a seguir o número DNIS é atribuído ao roteador B e o número ANI é atribuído ao roteador que o A. ANI é similar ao ID de chamada.

[Customização de E1 R2 com o comando cas-custom](#)

Os subcommands sob o comando cas-custom são usados a fim acomodar as variantes do país. São usados igualmente a fim personalizar parâmetros da sinalização associada a canal (CAS). Esta sequência de comandos ilustra como você pode ver todas as opções do **comando cas-custom**.

```
eefje(config)#controller E1 0 eefje(config-controller)#cas-custom 1 eefje(config-ctrl-cas)#? CAS custom commands: ani-digits Expected number of ANI digits ani-timeout Timeout for ANI digits answer-guard-time Wait Between Group-B Answer Signal And Line Answer answer-signal Answer signal to be used caller-digits Digits to be collected before requesting CallerID category Category signal country Country Name debounce-time Debounce Timer default Set a command to its defaults dnis-complete Send I-15 after DNIS digits for dial-out dnis-digits Expected number of DNIS digits exit Exit from cas custom mode groupa-callerid-end Send Group-A Caller ID End invert-abcd invert the ABCD bits before TX and after rx ka kA Signal kd KD Signal metering R2 network is sending metering signal nc-congestion Non Compelled Congestion signal no Negate a command or set its defaults proceed-to-send Suppress proceed-to-send signal for pulsed line signaling release-ack Send Release Acknowledgment to Clear Forward release-guard-time Release Guard Timer request-category DNIS Digits to be collected before requesting category seizure-ack-time Seizure to Acknowledge timer unused-abcd Unused ABCD bit values
```

Para obter mais informações sobre dos **parâmetros de comando cas personalizado**, refira a [personalização e1 r2 com o comando cas-custom](#).

[Diagrama de Rede](#)

Este documento utiliza a seguinte configuração de rede.

[Configurações](#)

Com a finalidade deste documento, estas são as três configurações R2 diferentes que são mostradas através da relação E1:

- [Digital non-compelled R2](#)
- [R2 Digital Semi-obrigada](#)
- [R2 ANI obrigado Digitas](#)

As configurações foram alteradas a fim mostrar somente à informação que este documento discute.

eefje configurado para o digital non-compelled R2

```
hostname eefje
!
controller E1 0
  clock source line primary
  dso-group 1 timeslots 1-15 type r2-digital r2-non-
  compelled
  cas-custom 1
!--- For more information on these commands !--- refer
to ds0-group and cas-custom. ! voice-port 0:1 cptone BE
!--- The cptone command is country specific. For more !-
-- information on this command, refer to cptone. !
dial-peer voice 123 pots destination-pattern 123 direct-
inward-dial port 0:1 prefix 123 ! dial-peer voice 567
voip destination-pattern 567 session target ipv4:2.0.0.2
!
```

eefje configurado para R2 Digital Semi-obrigada

```
hostname eefje
!
controller E1 0
  clock source line primary
  ds0-group 1 timeslots 1-15 type r2-digital r2-semi-
  compelled
  cas-custom 1
!--- For more information on these commands !--- refer
to ds0-group and cas-custom. ! voice-port 0:1 cptone BE
!--- The cptone command is country specific. For more !-
-- information on this command, refer to cptone. dial-
peer voice 123 pots destination-pattern 123 direct-
inward-dial port 0:1 prefix 123 ! dial-peer voice 567
voip destination-pattern 567 session target ipv4:2.0.0.2
!
```

eefje configurado para R2 ANI obrigado Digitas

```
hostname eefje
! controller E1 0 clock source line primary ds0-group
1 timeslots 1-15 type r2-digital r2-compelled ani cas-
custom 1
!--- For more information on these commands !--- refer
to ds0-group and cas-custom. voice-port 0:1 cptone BE
!--- The cptone command is country specific. For more !-
-- information on this command, refer to cptone. dial-
peer voice 123 pots destination-pattern 123 direct-
inward-dial port 0:1 prefix 123 ! dial-peer voice 567
voip destination-pattern 567 session target ipv4:2.0.0.2
!
```

Verificar

No momento, não há procedimento de verificação disponível para esta configuração.

Troubleshooting

Esta seção fornece informações que podem ser usadas para o troubleshooting da sua configuração.

Pesquise defeitos falhas do E1 R2

Esta é a informação de Troubleshooting relevante a esta configuração. Siga estas instruções a fim pesquisar defeitos sua configuração.

1. Verifique que o controlador E1 0 está acima. Se está para baixo, verifique a moldação, codificação de linha, origem do relógio, alarma, substituem o cabo, assentam o cartão, e assim por diante. Use o documento da [personalização e1 r2 com o comando cas-custom](#) como uma referência.
2. Se você usa um AS5300, certifique-se dos DSP estejam instalados corretamente com o **comando show vfc slot number interface**.
3. Configurar o Direct Inward Dial (FEZ) no par do serviço de telefonia tradicional (POTS), de modo que os dígitos recebidos sejam usados para escolher um peer de saída.
4. Especifique o [cptone](#) (o **cptone** é específico para seu país) nas portas de voz. Um **comando cptonecountry** deve ser configurado a fim combinar o **comando cas-custom country**. Os conjuntos de parâmetro do `cptone` os toms de progresso de chamada para um país particular, e ajustam mais importante a codificação ao a-law ou à u-lei, que depende do país. A codificação do padrão para os E.U. é u-lei.
5. Disposições da linha de compatibilidade e da sinalização de registro à configuração de switch.
6. Gire sobre algum do **debuga** mostrado neste documento e estudam as saídas.
7. Verifique para ver se há uma comunicação entre o roteador e o PBX ou comute: A linha está capturada? O roteador recebe/envia dígitos? Encontre que tomam partido espaços livres o atendimento. Se possível, use os Cisco IOS Software Release os mais atrasados disponíveis no [cisco.com](#).

[comandos debug e show](#)

A [Output Interpreter Tool](#) ([somente clientes registrados](#)) oferece suporte a determinados comandos show, o que permite exibir uma análise da saída do comando show.

Nota: Antes que você emita **comandos debug**, refira a [informação importante em comandos Debug](#).

Nota: Para o Cisco IOS Software Release 12.0, use estes **debuga**:

- **debugar o cas** - Para o sinal de linha.
- **debug csm voice** - Para a sinalização entre registros.
- **debugar a ordem tudo do vtsp** para ter a saída de todas as mensagens (dígitos) trocadas entre o PBX e o roteador.

Para o Cisco IOS Software Release IO 11.3, use estes comandos:

- **modem-Mgmt csm debugar-RBS** - Para o sinal de linha (você necessidade de especificar primeiramente o **serviço interno no** modo de configuração.).
- **debug csm voice** - Para a sinalização entre registros.
- **debugar a ordem tudo do vtsp** para ter a saída de todas as mensagens (dígitos) trocadas entre o PBX e o roteador.

Para as Plataformas AS5400 e AS5350, use estes debuga:

- **debugar o r2 do sigsm** - Para a sinalização entre registros
- **debugar a ordem tudo do vtsp** para ter a saída de todas as mensagens (dígitos) trocadas

entre o PBX e o roteador.

Exemplo de debug

Desde que há três configurações diferentes mostradas previamente neste documento, estão aqui três diferentes **debugam**:

Digital non-compelled R2: Chamada recebida a 567

A fim compreender melhor este **resultado do debug**, refira a [teoria de sinalização do E1 R2](#).

```
eefje#show debug CAS: Channel Associated Signaling debugging is on CSM Voice: Voice Call
Switching Module debugging is on Voice Telephony session debugging is on Voice Telephony dsp
debugging is on Voice Telephony error debugging is on eefje# eefje# eefje# Jan 6 10:41:28.677:
from NEAT(0): (0/0): Rx SEIZURE (ABCD=0001) Jan 6 10:41:28.717: VDEV_ALLOCATE: failed to
allocate a device Jan 6 10:41:28.717: VDEV_ALLOCATE: 1/28 is allocated Jan 6 10:41:28.721:
csm_vtsp_init_tdm (voice_vdev=0x620BF874) Jan 6 10:41:28.721: csm_vtsp_init_tdm:
dsprm_tdm_allocate: tdm slot 2, dspm 1, dsp 5, dsp_channel 1 Jan 6 10:41:28.721:
csm_vtsp_init_tdm: dsprm_tdm_allocate: tdm stream 5, channel 3, bank 1, bp_channel 4, BP_stream
255 Jan 6 10:41:28.721: CSM_RX_CAS_EVENT_FROM_NEAT:(cid0018): EVENT_CALL_DIAL_IN at slot 2 and
port 16 Jan 6 10:41:28.721: CSM_PROC_IDLE: CSM_EVENT_START_DIGIT_COLLECT at slot 2, port 16 Jan
6 10:41:28.721: csm_vtsp_start_digit_collect (voice_vdev=0x620BF874) Jan 6 10:41:28.721: Enter
csm_connect_pri_vdev function Jan 6 10:41:28.721: csm_connect_pri_vdev:tdm_allocate_BP_ts()call.
BP TS allocated at BP_stream0, BP_Ch28,vdev_common 0x6 20BF8E4 Jan 6 10:41:28.721: to
NEAT:(cid0018) EVENT_CHANNEL_LOCK for slot0 ctrlr0 chan0 Jan 6 10:41:28.721:
vtsp_do_call_setup_ind Jan 6 10:41:28.721: vtsp_do_call_setup_ind: Call ID=65681, guid=61FAF610
Jan 6 10:41:28.721: vtsp_do_call_setup_ind: type=0, under_spec=0, name=, id0=0, id1=0, id2=0,
calling=, called= Jan 6 10:41:28.721: vtsp_do_call_setup_ind: redirect DN = reason =
0vtsp_open_voice_and_set_params Jan 6 10:41:28.721: dsp_close_voice_channel: [0:1:0]
packet_len=8 channel_id =8529 packet_id=75 Jan 6 10:41:28.721: dsp_open_voice_channel_20:
[0:1:0] packet_Len=16 channel_id =8529 packet_id=74 alaw_ulaw_select=1
associated_signaling_channel=0 time_slot=0 serial_port=0 Jan 6 10:41:28.721:
dsp_encap_config_20: [0:1:0] packet_Len=24 channel_id=8529 packet_id=92 TransportProtocol 2
t_ssrc=0x0 r_ssrc=0x0 t_vpxcc=0x0 r_vpxcc=0x0 Jan 6 10:41:28.721: dsp_set_payout: [0:1:0]
packet_Len=18 channel_id=8529 packet_id=76 mode=1 initial=60 min=4 max=200 fax_nom=300 Jan 6
10:41:28.721: dsp_echo_canceller_control: [0:1:0] packet_Len=10 channel_id=8529 packet_id=66
flags=0x0 Jan 6 10:41:28.721: dsp_set_gains: [0:1:0] packet_Len=12 channel_id=8529 packet_id=91
in_gain=0 out_gain=0 Jan 6 10:41:28.721: dsp_vad_enable: [0:1:0] packet_Len=10 channel_id=8529
packet_id=78 thresh=-38 Jan 6 10:41:28.721: dsp_voice_mode: [0:1:0] packet_Len=24
channel_id=8529 packet_id=73 coding_type=1 voice_field_size=80 V AD_flag=0 echo_length=64
comfort_noise=1 inband_detect=1 digit_relay=2 AGC_flag=0vtsp_do_r2_start_digit():
dsp_dtmf_mode() dsp_dtmf_mode(VTSP_TONE_R2_MF_FORWARD_MODE) Jan 6 10:41:28.725: dsp_dtmf_mode:
[0:1:0] packet_Len=10 channel_id=8529 packet_id=65
dtmf_or_mf=1vtsp_do_r2_start_digit():fsm_push(vtsp_r2_state_table) Jan 6 10:41:28.725:
csm_vtsp_call_setup_resp (vdev_info=0x620BF874, vtsp_cdb=0x621C5F3C) Jan 6 10:41:28.725:
csm_vtsp_call_setup_resp:vdev_common BP TS allocatedat BP_stream0,BP_Ch28 Jan 6 10:41:28.725:
csm_vtsp_call_setup_resp:dst_tdm_chnl call. BP TS allocatedat stream 5, chan 3,BP_stream 255,
BP_ch 4 Jan 6 10:41:28.725: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream
5, chan 3,BP_stream 0, BP_ch 28 Jan 6 10:41:28.725: CSM_PROC_IC1_COLLECT_ADDR_INFO:
CSM_EVENT_MODEM_OFFHOOK (DNIS=, ANI=) at slot 2, port 16 Jan 6 10:41:28.725: R2 Incoming
Voice(2/16): DSX (E1 0:0): STATE: R2_IN_IDLE R2 Got Event R2_START Jan 6 10:41:28.821:
CSM_RX_CAS_EVENT_FROM_NEAT:(0018):EVENT_START_RX_TONE at slot 2 and port 16 Jan 6 10:41:28.821:
from NEAT(0): (0/0): TX SEIZURE_ACK (ABCD=1101) !--- Digit 5 is sent: Forward Signal Group I-5.
Jan 6 10:41:29.233: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN: digit=5,
rtp_timestamp=0x0CA95D43 dc_digit_up Jan 6 10:41:29.233: csm_vtsp_digit_ready_up
(vtsp_cdb=0x621C5F3C) received digit (5) Jan 6 10:41:29.233: CSM voice (2/16): Rcvd Digit
detected(5) Jan 6 10:41:29.233: R2 Incoming Voice(2/16): DSX (E1 0:0): STATE: R2_IN_COLLECT_DNIS
R2 Got Event 5 Jan 6 10:41:29.365: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=5,
duration=8321dc_digit Jan 6 10:41:29.365: csm_vtsp_digit_ready (vtsp_cdb=0x621C5F3C) received
digit (5) Jan 6 10:41:29.365: CSM voice (2/16): Rcvd Digit detected(5) Jan 6 10:41:29.365: R2
```

Incoming Voice(2/16): DSX (E1 0:0): **STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF !--- Digit 6 is sent: Forward Signal Group I-6.** Jan 6 10:41:29.593: vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_BEGIN: digit=6, rtp_timestamp=0x0CA95D43 dc_digit_up** Jan 6 10:41:29.593: csm_vtsp_digit_ready_up (vtsp_cdb=0x621C5F3C) received digit (6) Jan 6 10:41:29.593: CSM voice (2/16): Rcvd Digit detected(6) Jan 6 10:41:29.593: R2 Incoming Voice(2/16): DSX (E1 0:0): **STATE: R2_IN_COLLECT_DNIS R2 Got Event 6** Jan 6 10:41:29.725: vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_OFF: digit=6, duration=8321dc_digit** Jan 6 10:41:29.725: csm_vtsp_digit_ready (vtsp_cdb=0x621C5F3C) received digit (6) Jan 6 10:41:29.725: CSM voice (2/16): Rcvd Digit detected(6) Jan 6 10:41:29.725: R2 Incoming Voice(2/16): DSX (E1 0:0): **STATE: R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF !--- Digit 7 is sent: Forward Signal Group I-7.** Jan 6 10:41:29.953: vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_BEGIN: digit=7, rtp_timestamp=0x0CA95D43 dc_digit_up** Jan 6 10:41:29.953: csm_vtsp_digit_ready_up (vtsp_cdb=0x621C5F3C) received digit (7) Jan 6 10:41:29.953: CSM voice (2/16): Rcvd Digit detected(7) Jan 6 10:41:29.953: R2 Incoming Voice(2/16): DSX (E1 0:0): **STATE:R2_IN_COLLECT_DNIS R2 Got Event 7** Jan 6 10:41:30.085: vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_OFF: digit=7, duration=8321dc_digit** Jan 6 10:41:30.085: csm_vtsp_digit_ready (vtsp_cdb=0x621C5F3C)received digit (7) Jan 6 10:41:30.085: CSM voice (2/16): Rcvd Digit detected(7) Jan 6 10:41:30.085: R2 Incoming Voice(2/16): DSX (E1 0:0): **STATE: R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF !--- Timeout: 3 seconds (default timer - AS5300 assumes DNIS is finished).** Jan 6 10:41:32.953: R2 Incoming Voice(2/16): DSX (E1 0:0): **STATE: R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_TIMER !--- Send digit 6: Backward Signal Group B-6 (subscriber's line free-charge).** Jan 6 10:41:32.953: vtsp_r2_generate_digits: vdev_common=0x620BF8E4, string=567dc_dial() vtsp_dial_nopush **dsp_dtmf_dialing(): dial_string = 6#** Jan 6 10:41:32.953: dsp_dtmf_dialing: [0:1:0] packet_Len=36 channel_id=8529 packet_id=90 string=6# digits=2, time_on=150, time_off=30 Jan 6 10:41:32.953:& digit=e, components=2, freq_of_first=900, freq_of_second=780, amp_of_first=8192, amp_of_second=8192 Jan 6 10:41:32.953: digit=o, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 Jan 6 10:41:33.313: vtsp_process_dsp_message: **MSG_TX_DIALING_DONE dc_dialing_done()** Jan 6 10:41:33.313: R2 Incoming Voice(2/16): DSX (E1 0:0): **STATE:R2_IN_ANSWER_PULSE R2 Got Event R2_DIGITS_GENR2_ALERTING** Jan 6 10:41:34.313: R2 Incoming Voice(2/16): DSX (E1 0:0): **STATE: R2_IN_ANSWER_PULSE R2 Got Event R2_TONE_TIMER** Jan 6 10:41:34.313: R2_IN_IDLE:2 r2_in_connect called Jan 6 10:41:34.313: CSM_PROC_IC1_COLLECT_ADDR_INFO: CSM_EVENT_ADDR_INFO_COLLECTED (DNIS=567, ANI=) at slot 2, port 16 Jan 6 10:41:34.313: vtsp_tsp_call_accept_check (sdb=0x61B8F0E0, calling_number= called_number=567): peer_tag=0 Jan 6 10:41:34.313: VDEV_ALLOCATE: failed to allocate a device Jan 6 10:41:34.313: VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 6 10:41:34.313: VDEV_ALLOCATE: failed to allocate a device Jan 6 10:41:34.313: VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 6 10:41:34.313: VDEV_ALLOCATE: failed to allocate a device Jan 6 10:41:34.313: VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 6 10:41:34.313: CSM_PROC_IC3_WAIT_FOR_RES_RESP: CSM_EVENT_RESOURCE_OK at slot 2, port 16 Jan 6 10:41:34.313: vtsp_ic_switch : (voice_vdev= 0x620BF874) Jan 6 10:41:34.313: vtsp_tsp_call_switch_ind (cdb=0x621C5F3C, tsp_info=0x620BF874, calling_number= called_number=567 redir ect_number=): peer_tag=123dc_switch: fsm_pop() Jan 6 10:41:34.313: vtsp_do_call_setup_ind Jan 6 10:41:34.313: vtsp_do_call_setup_ind: Call ID=65683, guid=61FAF610 Jan 6 10:41:34.313: vtsp_do_call_setup_ind: type=0, under_spec=0, name=ab^Lx, id0=1, id1=0, id2=0, calling=123, called=567 Jan 6 10:41:34.317: dsp_cp_tone_off: [] packet_Len=8 channel_id=8529 packet_id=71 Jan 6 10:41:34.317: dsp_idle_mode: [] packet_Len=8 channel_id=8529 packet_id=68 Jan 6 10:41:34.317: dsp_close_voice_channel: [] packet_Len=8 channel_id=8529 packet_id=75 Jan 6 10:41:34.317: vtsp_timer_stop: 67475758 Jan 6 10:41:34.317: csm_vtsp_call_setup_resp (vdev_info=0x620BF874, vtsp_cdb=0x621C5F3C) Jan 6 10:41:34.317: csm_vtsp_call_setup_resp:vdev_common BP TS allocatedat BP_stream0, BP_Ch28 Jan 6 10:41:34.317: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream 5, chan 3,BP_stream 0, BP_ch 28 Jan 6 10:41:34.317: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream 5, chan 3,BP_stream 0, BP_ch 28vt sp_open_voice_and_set_params Jan 6 10:41:34.317: dsp_close_voice_channel: [0:1 (54)] packet_Len=8 channel_id=8529 packet_id=75 Jan 6 10:41:34.317: dsp_open_voice_channel_20: [0:1 (54)] packet_Len=16 channel_id=8529 packet_id=74 alaw_ulaw_select=1 associated_signaling_channel=0 time_slot=0 serial_port=0 Jan 6 10:41:34.317: dsp_encap_config_20: [0:1 (54)] packet_Len=24 channel_id=8529 packet_id=92 TransportProtocol 2 t_ssrc=0x0 r_ssrc=0x0 t_vpxcc=0x0 r_vpxcc=0x0 Jan 6 10:41:34.317: dsp_set_playout: [0:1 (54)] packet_Len=18 channel_id=8529 packet_id=76 mode=1 initial=60 min=4 max=200 fax_nom=300 Jan 6 10:41:34.317: dsp_echo_canceller_control: [0:1 (54)] packet_Len=10 channel_id=8529 packet_id=66 flags=0x0 Jan 6 10:41:34.317: dsp_set_gains: [0:1 (54)] packet_Len=12 channel_id=8529 packet_id=91 in_gain=0 out_gain=0 Jan 6 10:41:34.317: dsp_vad_enable: [0:1 (54)] packet_Len=10 channel_id=8529 packet_id=78 thresh=-38act_proceeding Jan 6 10:41:34.321: csm_vtsp_call_proceeding:DST_tdm_chnl call. BP TS allocatedstream 5, chan 3,BP_stream 0, BP_ch

28act_alert Jan 6 10:41:34.345: vtsp_ring_noan_timer_start: 67475761 Jan 6 10:41:34.345:
csm_vtsp_call_alert (vtsp_cdb=0x621C5F3C)act_bridge act_caps_ind Jan 6 10:41:34.589:
act_caps_ind:Encap 1, Vad 2, Codec 0x4, CodecBytes 20, FaxRate 2, FaxBytes 20 SignalType 0
DtmfRelay 1, Modem lact_caps_ack Jan 6 10:41:34.589: dsp_idle_mode: [0:1 (54)] packet_Len=8
channel_id=8529 packet_id=68 Jan 6 10:41:34.589: act_caps_ack: codec = 15, ret = 1 Jan 6
10:41:34.589: dsp_cp_tone_off: [0:1 (54)] packet_Len=8 channel_id=8529 packet_id=71 Jan 6
10:41:34.589: dsp_idle_mode: [0:1 (54)] packet_Len=8 channel_id=8529 packet_id=68 Jan 6
10:41:34.589: dsp_encap_config_20: [0:1 (54)] packet_Len=24 channel_id=8529 packet_id=92
TransportProtocol 2 t_ssrc=0x0 r_ssrc=0x0 t_vpxcc=0x0 r_vpxcc=0x0 Jan 6 10:41:34.589:
dsp_voice_mode: [0:1 (54)] packet_Len=24 channel_id=8529 packet_id=73 coding_type=20
voice_field_size=20 VAD_flag=1 echo_length=64 comfort_noise=1 inband_detect=1 digit_relay=2
AGC_flag=0act_alert_connect Jan 6 10:41:36.857: vtsp_ring_noan_timer_stop: 67476012 Jan 6
10:41:36.857: dsp_cp_tone_off: [0:1 (54)] packet_Len=8 channel_id=8529 packet_id=71 Jan 6
10:41:36.857: csm_vtsp_call_connect (vtsp_cdb=0x621C5F3C, voice_vdev=0x620BF874) Jan 6
10:41:36.857: CSM_IC5_WAIT_FOR_SWITCH_OVER: CSM_EVENT_MODEM_OFFHOOK at slot 2, port 16 Jan 6
10:41:36.917: CSM_RX_CAS_EVENT_FROM_NEAT:(0018): EVENT_CHANNEL_CONNECTED at slot 2 and port 16
Jan 6 10:41:36.917: CSM_PROC_IC6_WAIT_FOR_CONNECT: CSM_EVENT_DSX0_CONNECTED at slot 2, port 16
Jan 6 10:41:36.921: from NEAT(0): (0/0): **TX ANSWERED**(ABCD=0101) eefje#

[R2 Digital Semi-obrigada: Chamada recebida a 567](#)

A fim compreender melhor este **resultado do debug**, refira a [teoria de sinalização do E1 R2](#).

eefje#**show debug** CAS: Channel Associated Signaling debugging is on CSM Voice: Voice Call
Switching Module debugging is on Voice Telephony session debugging is on Voice Telephony dsp
debugging is on Voice Telephony error debugging is on eefje# eefje# eefje# Jan 6 09:53:42.389:
from NEAT(0): (0/2): **Rx SEIZURE**(ABCD=0001) Jan 6 09:53:42.433: VDEV_ALLOCATE: failed to allocate
a device Jan 6 09:53:42.433: VDEV_ALLOCATE: 1/27 is allocated Jan 6 09:53:42.433:
csm_vtsp_init_tdm (voice_vdev=0x620BF320) Jan 6 09:53:42.433: csm_vtsp_init_tdm:
dsprm_tdm_allocate: tdm slot 2, dspm 1, dsp 4, dsp_channel 4 Jan 6 09:53:42.433:
csm_vtsp_init_tdm: dsprm_tdm_allocate: tdm stream 7, channel 0, bank 4, BP_channel 3, BP_stream
255 Jan 6 09:53:42.433: CSM_RX_CAS_EVENT_FROM_NEAT:(cid0017): EVENT_CALL_DIAL_IN at slot 2 and
port 15 Jan 6 09:53:42.433: CSM_PROC_IDLE: CSM_EVENT_START_DIGIT_COLLECT at slot 2, port 15 Jan
6 09:53:42.433: csm_vtsp_start_digit_collect (voice_vdev=0x620BF320) Jan 6 09:53:42.433: Enter
csm_connect_pri_vdev function Jan 6 09:53:42.433: csm_connect_pri_vdev:tdm_allocate_BP_Ts()call.
BP TS allocated at BP_stream0, BP_Ch27,vdev_common 0x6 20BF390 Jan 6 09:53:42.433: to
NEAT:(cid0017) EVENT_CHANNEL_LOCK for slot0 ctrl0 chan2 Jan 6 09:53:42.433:
vtsp_do_call_setup_ind Jan 6 09:53:42.433: vtsp_do_call_setup_ind: Call ID=65675, guid=61FAF610
Jan 6 09:53:42.433: vtsp_do_call_setup_ind: type=0, under_spec=0, name=, id0=0, id1=0, id2=0,
calling=, called= Jan 6 09:53:42.433: vtsp_do_call_setup_ind: redirect DN = reason =
0vtsp_open_voice_and_set_params Jan 6 09:53:42.433: dsp_close_voice_channel: [0:1:2]
packet_Len=8 channel_id=8516 packet_id=75 Jan 6 09:53:42.433: dsp_open_voice_channel_20: [0:1:2]
packet_Len=16 channel_id=8516 packet_id=74 alaw_ulaw_select=1 associated_signaling_channel=0
time_slot=1 serial_port=1 Jan 6 09:53:42.433: dsp_encap_config_20: [0:1:2] packet_Len=24
channel_id=8516 packet_id=92 TransportProtocol 2 t_ssrc=0x0 r_ssrc=0x0 t_vpxcc=0x0 r_vpxcc=0x0
Jan 6 09:53:42.433: dsp_set_payout: [0:1:2] packet_Len=18 channel_id=8516 packet_id=76 mode=1
initial=60 min=4 max=200 fax_nom=300 Jan 6 09:53:42.433: dsp_echo_canceller_control: [0:1:2]
packet_Len=10 channel_id=8516 packet_id=66 flags=0x0 Jan 6 09:53:42.437: dsp_set_gains:[0:1:2]
packet_Len=12 channel_id=8516 packet_id=91 in_gain=0 out_gain=0 Jan 6 09:53:42.437:
dsp_vad_enable: [0:1:2] packet_Len=10 channel_id=8516 packet_id=78 thresh=-38 Jan 6
09:53:42.437: dsp_voice_mode: [0:1:2] packet_Len=24 channel_id=8516 packet_id=73 coding_type=1
voice_field_size=80 VAD_flag=0 echo_length=64 comfort_noise=1 inband_detect=1 digit_relay=2
AGC_flag=0vtsp_do_r2_start_digit(): dsp_dtmf_mode() dsp_dtmf_mode(VTSP_TONE_R2_MF_FORWARD_MODE)
Jan 6 09:53:42.437: dsp_dtmf_mode: [0:1:2] packet_Len=10 channel_id=8516 packet_id=65
dtmf_or_mf=1vtsp_do_r2_start_digit(): fsm_push(vtsp_r2_state_table) Jan 6 09:53:42.437:
csm_vtsp_call_setup_resp (vdev_info=0x620BF320, vtsp_cdb=0x621C5F3C) Jan 6 09:53:42.437:
csm_vtsp_call_setup_resp:vdev_common BP TS allocatedat BP_stream0, BP_Ch27 Jan 6 09:53:42.437:
csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream 7, chan 0,BP_stream 255,
BP_ch 3 Jan 6 09:53:42.437: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream
7, chan 0,BP_stream 0, BP_ch 27 Jan 6 09:53:42.437: CSM_PROC_IC1_COLLECT_ADDR_INFO:
CSM_EVENT_MODEM_OFFHOOK (DNIS=, ANI=) at slot 2, port 15 Jan 6 09:53:42.437: R2 Incoming
Voice(2/15): DSX (E1 0:2): STATE:R2_IN_IDLE R2 Got Event R2_START Jan 6 09:53:42.533:
CSM_RX_CAS_EVENT_FROM_NEAT:(0017):EVENT_START_RX_TONE at slot 2 and port 15 Jan 6 09:53:42.533:

from NEAT(0): (0/2): **TX SEIZURE_ACK (ABCD=1101) !--- Digit 5 is sent: Forward Signal Group I-5.**
Jan 6 09:53:42.641: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN: digit=5,
rtp_timestamp=0x9330B42B dc_digit_up Jan 6 09:53:42.641: csm_vtsp_digit_ready_up
(vtsp_cdb=0x621C5F3C) received digit (5) Jan 6 09:53:42.641: CSM voice (2/15): Rcvd Digit
detected(5) Jan 6 09:53:42.641: R2 Incoming Voice(2/15): DSX (E1 0:2): **STATE:R2_IN_COLLECT_DNIS**
R2 Got Event 5 !--- Digit 1 sent (pulse): Backward Signal Group A-1 (Send next digit) !--- "#"
this indicates that it is a pulse). Jan 6 09:53:42.641: vtsp_r2_generate_digits:
vdev_common=0x620BF390, string=5dc_dial() vtsp_dial_nopush **dsp_dtmf_dialing(): dial_string = 1#**
Jan 6 09:53:42.641: dsp_dtmf_dialing: [0:1:2] packet_Len=36 channel_id=8516 packet_id=90
string=1# digits=2, time_on=150, time_off=30 Jan 6 09:53:42.641: digit=` , components=2,
freq_of_first=1020, freq_of_second=1140, amp_of_first=8192, amp_of_second=8192 Jan 6
09:53:42.641: digit=o, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1,
amp_of_second=1 Jan 6 09:53:42.741: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=5,
duration=8291dc_digit Jan 6 09:53:42.741: csm_vtsp_digit_ready (vtsp_cdb=0x621C5F3C) received
digit (5) Jan 6 09:53:42.741: CSM voice (2/15): Rcvd Digit detected(5) Jan 6 09:53:42.741: R2
Incoming Voice(2/15): DSX (E1 0:2): **STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF !--- Digit**
6 is sent: Forward Signal Group I. Jan 6 09:53:42.881: vtsp_process_dsp_message:
MSG_TX_DTMF_DIGIT_BEGIN: digit=6, rtp_timestamp=0x9330B42B dc_digit_up Jan 6 09:53:42.881:
csm_vtsp_digit_ready_up (vtsp_cdb=0x621C5F3C)received digit (6) Jan 6 09:53:42.881: CSM voice
(2/15): Rcvd Digit detected(6) Jan 6 09:53:42.881: R2 Incoming Voice(2/15): DSX (E1 0:2):
STATE:R2_IN_COLLECT_DNIS R2 **Got Event 6 !--- Digit 1 sent (pulse): Backward Signal Group A-1.**
(Send next digit.) Jan 6 09:53:42.881: vtsp_r2_generate_digits: vdev_common=0x620BF390,
string=56dc_dial() vtsp_dial_nopush **dsp_dtmf_dialing(): dial_string = 1#** Jan 6 09:53:42.881:
dsp_dtmf_dialing: [0:1:2] packet_Len=36 channel_id=8516 packet_id=90 string=1# digits=2,
time_on=150, time_off=30 Jan 6 09:53:42.881: digit=` , components=2, freq_of_first=1020,
freq_of_second=1140, amp_of_first=8192, amp_of_second=8192 Jan 6 09:53:42.881: digit=o,
components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 Jan 6
09:53:42.981: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=6, duration=8291dc_digit
Jan 6 09:53:42.981: csm_vtsp_digit_ready (vtsp_cdb=0x621C5F3C) received digit (6) Jan 6
09:53:42.981: CSM voice (2/15): Rcvd Digit detected(6) Jan 6 09:53:42.981: R2 Incoming
Voice(2/15): DSX (E1 0:2): **STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF !--- Digit 7 is**
sent: Forward Signal Group I-7. Jan 6 09:53:43.121: vtsp_process_dsp_message:
MSG_TX_DTMF_DIGIT_BEGIN: digit=7, rtp_timestamp=0x9330B42B dc_digit_up Jan 6 09:53:43.121:
csm_vtsp_digit_ready_up (vtsp_cdb=0x621C5F3C)received digit (7) Jan 6 09:53:43.121: CSM voice
(2/15): Rcvd Digit detected(7) Jan 6 09:53:43.121: R2 Incoming Voice(2/15): DSX (E1 0:2):
STATE:R2_IN_COLLECT_DNIS R2 **Got Event 7 !--- Send digit 1 (pulse): Backward Signal Group A-1.**
Jan 6 09:53:43.121: vtsp_r2_generate_digits: vdev_common=0x620BF390, string=567dc_dial()
vtsp_dial_nopush **dsp_dtmf_dialing(): dial_string = 1#** Jan 6 09:53:43.121: dsp_dtmf_dialing:
[0:1:2] packet_Len=36 channel_id=8516 packet_id=90 string=1# digits=2, time_on=150, time_off=30
Jan 6 09:53:43.121: digit=` , components=2, freq_of_first=1020, freq_of_second=1140,
amp_of_first=8192, amp_of_second=8192 Jan 6 09:53:43.121: digit=o, components=2,
freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 Jan 6 09:53:43.221:
vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=7, duration=8291dc_digit Jan 6
09:53:43.221: csm_vtsp_digit_ready (vtsp_cdb=0x621C5F3C) received digit (7) Jan 6 09:53:43.221:
CSM voice (2/15): Rcvd Digit detected(7) Jan 6 09:53:43.221: R2 Incoming Voice(2/15): DSX (E1
0:2): **STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF** Jan 6 09:53:43.489:
vtsp_process_dsp_message: MSG_TX_DIALING_DONEdc_dialing_done() **!--- Timeout is 3 seconds.** Jan 6
09:53:46.121: R2 Incoming Voice(2/15): DSX (E1 0:2): **STATE:R2_IN_COLLECT_DNIS R2 Got Event**
R2_TONE_TIMER !--- Digit 3 sent(pulse): Backward Signal Group A-3. !--- (Address-complete,
changeover to reception of Group-B signals). Jan 6 09:53:46.121: vtsp_r2_generate_digits:
vdev_common=0x620BF390, string=567dc_dial() vtsp_dial_nopush **dsp_dtmf_dialing(): dial_string =**
3# Jan 6 09:53:46.121: dsp_dtmf_dialing: [0:1:2] packet_Len=36 channel_id=8516 packet_id=90
string=3# digits=2, time_on=150, time_off=30 Jan 6 09:53:46.121: digit=b, components=2,
freq_of_first=1020, freq_of_second=900, amp_of_first=8192, amp_of_second=8192 Jan 6
09:53:46.121: digit=o, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1,
amp_of_second=1 **!--- Digit 1 is sent: Forward Signal Group II-1 !--- (subscriber without**
priority). Jan 6 09:53:46.361: vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_BEGIN: digit=1,**
rtp_timestamp=0x9330B42B dc_digit_up Jan 6 09:53:46.361: csm_vtsp_digit_ready_up
(vtsp_cdb=0x621C5F3C) received digit (1) Jan 6 09:53:46.361: CSM voice (2/15): Rcvd Digit
detected(1) Jan 6 09:53:46.361: R2 Incoming Voice(2/15): DSX (E1 0:2): **STATE:R2_IN_CATEGORY R2**
Got Event 1 Jan 6 09:53:46.361: r2_comp_category:R2_ALERTING **!--- Digit 6 sent (pulse): Backward**
Signal Group B-6 !--- (the subscriber line free of charge). Jan 6 09:53:46.361:
vtsp_r2_generate_digits: vdev_common=0x620BF390, string=567dc_dial() vtsp_dial_nopush
dsp_dtmf_dialing(): dial_string = 6# Jan 6 09:53:46.361: dsp_dtmf_dialing: [0:1:2] packet_Len=36

channel_id=8516 packet_id=90 string=6# digits=2, time_on=150, time_off=30 Jan 6 09:53:46.361: digit=e, components=2, freq_of_first=900, freq_of_second=780, amp_of_first=8192, amp_of_second=8192 Jan 6 09:53:46.361: digit=o, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 Jan 6 09:53:46.461: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF:digit=1, duration=8291dc_digit Jan 6 09:53:46.461: csm_vtsp_digit_ready (vtsp_cdb=0x621C5F3C)received digit (1) Jan 6 09:53:46.461: CSM voice (2/15): Rcvd Digit detected(1) Jan 6 09:53:46.461: R2 Incoming Voice(2/15): DSX (E1 0:2): STATE:R2_IN_COMPLETE R2 **Got Event R2_TONE_OFF** Jan 6 09:53:46.729: vtsp_process_dsp_message: MSG_TX_DIALING_DONEdc_dialing_done() Jan 6 09:53:47.461: R2 Incoming Voice(2/15): DSX (E1 0:2): STATE:R2_IN_WAIT_GUARD R2 **Got Event R2_TONE_TIMER** Jan 6 09:53:47.461: R2_IN_IDLE:2 r2_in_connect called Jan 6 09:53:47.461: CSM_PROC_IC1_COLLECT_ADDR_INFO: CSM_EVENT_ADDR_INFO_COLLECTED (DNIS=567, ANI=) at slot 2, port 15 Jan 6 09:53:47.461: vtsp_tsp_call_accept_check (sdb=0x61B8F0E0,calling_number= called_number=567): peer_tag=0 Jan 6 09:53:47.461: VDEV_ALLOCATE: failed to allocate a device Jan 6 09:53:47.461: VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 6 09:53:47.461: VDEV_ALLOCATE: failed to allocate a device Jan 6 09:53:47.461: VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 6 09:53:47.461: VDEV_ALLOCATE: failed to allocate a device Jan 6 09:53:47.461: VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 6 09:53:47.461: CSM_PROC_IC3_WAIT_FOR_RES_RESP: CSM_EVENT_RESOURCE_OK at slot 2, port 15 Jan 6 09:53:47.461: vtsp_IC_switch : (voice_vdev= 0x620BF320) Jan 6 09:53:47.461: vtsp_tsp_call_switch_ind (cdb=0x621C5F3C,tsp_info=0x620BF320, calling_number= called_number=567 redirect_number=): peer_tag=123dc_switch: fsm_pop() Jan 6 09:53:47.461: vtsp_do_call_setup_ind Jan 6 09:53:47.461: vtsp_do_call_setup_ind: Call ID=65677, guid=61FAF610 Jan 6 09:53:47.461: vtsp_do_call_setup_ind: type=0, under_spec=0, name=AB^Lo, id0=3, id1=0, id2=0, calling=123, called=567 Jan 6 09:53:47.465: dsp_cp_tone_off: [] packet_Len=8 channel_id=8516 packet_id=71 Jan 6 09:53:47.465: dsp_idle_mode: [] packet_Len=8 channel_id=8516 packet_id=68 Jan 6 09:53:47.465: dsp_close_voice_channel: [] packet_Len=8 channel_id=8516 packet_id=75 Jan 6 09:53:47.465: vtsp_timer_stop: 67189073 Jan 6 09:53:47.465: csm_vtsp_call_setup_resp (vdev_info=0x620BF320, vtsp_cdb=0x621C5F3C) Jan 6 09:53:47.465: csm_vtsp_call_setup_resp:vdev_common BP TS allocatedat BP_stream0, BP_Ch27 Jan 6 09:53:47.465: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream 7, chan 0,BP_stream 0, BP_ch 27 Jan 6 09:53:47.465: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream 7, chan 0,BP_stream 0, BP_ch 27vtsp_open_voice_and_set_params Jan 6 09:53:47.465: dsp_close_voice_channel: [0:1 (52)] packet_Len=8 channel_id=8516 packet_id=75 Jan 6 09:53:47.465: dsp_open_voice_channel_20: [0:1 (52)] packet_Len=16 channel_id=8516 packet_id=74 alaw_ulaw_select=1 associated_signaling_channel=0 time_slot=1 serial_port=1 Jan 6 09:53:47.465: dsp_encap_config_20: [0:1 (52)] packet_Len=24 channel_id=8516 packet_id=92 TransportProtocol 2 t_ssrc=0x0 r_ssrc=0x0 t_vpxcc=0x0 r_vpxcc=0x0 Jan 6 09:53:47.465: dsp_set_playout: [0:1 (52)] packet_Len=18 channel_id=8516 packet_id=76 mode=1 initial=60 min=4 max=200 fax_nom=300 Jan 6 09:53:47.465: dsp_echo_canceller_control: [0:1 (52)] packet_Len=10 channel_id=8516 packet_id=66 flags=0x0 Jan 6 09:53:47.465: dsp_set_gains: [0:1 (52)] packet_Len=12 channel_id=8516 packet_id=91 in_gain=0 out_gain=0 Jan 6 09:53:47.465: dsp_vad_enable: [0:1 (52)] packet_Len=10 channel_id=8516 packet_id=78 thresh=-38act_proceeding Jan 6 09:53:47.469: csm_vtsp_call_proceeding:DST_tdm_chnl call. BP TS allocatedstream 7, chan 0,BP_stream 0, BP_ch 27act_alert Jan 6 09:53:47.493: vtsp_ring_noan_timer_start: 67189076 Jan 6 09:53:47.493: csm_vtsp_call_alert (vtsp_cdb=0x621C5F3C) act_bridge act_caps_ind Jan 6 09:53:47.737: act_caps_ind:Encap 1, Vad 2, Codec 0x4, CodecBytes 20, FaxRate 2, FaxBytes 20 SignalType 0 DtmfRelay 1, Modem lact_caps_ack Jan 6 09:53:47.737: dsp_idle_mode: [0:1 (52)] packet_Len=8 channel_id=8516 packet_id=68 Jan 6 09:53:47.737: act_caps_ack: codec = 15, ret = 1 Jan 6 09:53:47.737: dsp_cp_tone_off: [0:1 (52)] packet_Len=8 channel_id=8516 packet_id=71 Jan 6 09:53:47.737: dsp_idle_mode: [0:1 (52)] packet_Len=8 channel_id=8516 packet_id=68 Jan 6 09:53:47.737: dsp_encap_config_20: [0:1 (52)] packet_Len=24 channel_id=8516 packet_id=92 TransportProtocol 2 t_ssrc=0x0 r_ssrc=0x0 t_vpxcc=0x0 r_vpxcc=0x0 Jan 6 09:53:47.737: dsp_voice_mode: [0:1 (52)] packet_Len=24 channel_id=8516 packet_id=73 coding_type=20 voice_field_size= 20 VAD_flag=1 echo_length=64 comfort_noise=1 inband_detect=1 digit_relay=2 AGC_flag=0act_alert_connect Jan 6 09:53:49.461: vtsp_ring_noan_timer_stop: 67189273 Jan 6 09:53:49.461: dsp_cp_tone_off: [0:1 (52)] packet_Len=8 channel_id=8516 packet_id=71 Jan 6 09:53:49.461: csm_vtsp_call_connect (vtsp_cdb=0x621C5F3C, voice_vdev=0x620BF320) Jan 6 09:53:49.461: CSM_IC5_WAIT_FOR_SWITCH_OVER: CSM_EVENT_MODEM_OFFHOOK at slot 2, port 15 Jan 6 09:53:49.617: CSM_RX_CAS_EVENT_FROM_NEAT:(0017): EVENT_CHANNEL_CONNECTED at slot 2 and port 15 Jan 6 09:53:49.617: CSM_PROC_IC6_WAIT_FOR_CONNECT: CSM_EVENT_DSX0_CONNECTED at slot 2, port 15 Jan 6 09:53:49.621: from NEAT(0): (0/2): **TX ANSWERED**(ABCD=0101) eefje# eefje#

[**R2 ANI obrigado Digitas: Chamada recebida a 567**](#)

A fim compreender melhor este resultado do debug, refira a [teoria de sinalização do E1 R2](#).

```
eefje#debug csm voice Voice Call Switching Module debugging is on eefje#debug cas Channel
Associated Signaling debugging is on Jan 7 10:00:02.907: from NEAT(0): debug-cas is on Jan 7
10:00:02.907: from NEAT(0): special debug-cas is offg vtsp all Voice telephony call control all
debugging is on eefje# eefje# Jan 7 10:00:23.883: from NEAT(0): (0/8): Rx SEIZURE (ABCD=0001)
Jan 7 10:00:23.927: VDEV_ALLOCATE: failed to allocate a device Jan 7 10:00:23.927:
VDEV_ALLOCATE: 1/2 is allocated Jan 7 10:00:23.927: csm_vtsp_init_tdm (voice_vdev=0x61F19688)
Jan 7 10:00:23.927: csm_vtsp_init_tdm: dsprm_tdm_allocate: tdm slot 1, dspm 3, dsp 4,
dsp_channel 1 Jan 7 10:00:23.927: csm_vtsp_init_tdm: dsprm_tdm_allocate: tdm stream 5, channel
13, bank 0, BP_channel 15, BP_stream 255 Jan 7 10:00:23.927:
CSM_RX_CAS_EVENT_FROM_NEAT:(cid0007): EVENT_CALL_DIAL_IN at slot 1 and port 60 Jan 7
10:00:23.927: CSM_PROC_IDLE: CSM_EVENT_START_DIGIT_COLLECT at slot 1, port 60 Jan 7
10:00:23.927: csm_vtsp_start_digit_collect (voice_vdev=0x61F19688) Jan 7 10:00:23.927: Enter
csm_connect_pri_vdev function Jan 7 10:00:23.927: csm_connect_pri_vdev:tdm_allocate_BP_Ts()
call. BP TS allocated at BP_stream0, BP_Ch8,vdev_common 0x6205E5F8 Jan 7 10:00:23.927: to
NEAT:(cid0007) EVENT_CHANNEL_LOCK for slot0 ctrl0 chan8 Jan 7 10:00:23.927:
vtsp_do_call_setup_ind Jan 7 10:00:23.927: vtsp_do_call_setup_ind: Call ID=65579, guid=62031A88
Jan 7 10:00:23.927: vtsp_do_call_setup_ind: type=0, under_spec=0, name=, id0=0, id1=0,id2=0,
calling=, called= Jan 7 10:00:23.927: vtsp_do_call_setup_ind: redirect DN = reason =
0vtsp_do_r2_start_digit(): fsm_push(vtsp_r2_state_table) Jan 7 10:00:23.927:
csm_vtsp_call_setup_resp (vdev_info=0x61F19688, vtsp_cdb=0x61B5BFF8) Jan 7 10:00:23.927:
csm_vtsp_call_setup_resp:vdev_common BP TS allocatedat BP_stream0, BP_Ch8 Jan 7 10:00:23.927:
csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream 5, chan 13,BP_stream 255,
BP_ch 15 Jan 7 10:00:23.927: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat
stream 5, chan 13,BP_stream 0, BP_ch 8 Jan 7 10:00:23.927: CSM_PROC_IC1_COLLECT_ADDR_INFO:
CSM_EVENT_MODEM_OFFHOOK (DNIS=, ANI=) at slot 1, port 60 Jan 7 10:00:23.931: R2 Incoming
Voice(1/60): DSX (E1 0:8): STATE: R2_IN_IDLE R2 Got Event R2_START Jan 7 10:00:24.027:
CSM_RX_CAS_EVENT_FROM_NEAT:(0007): EVENT_START_RX_TONE at slot 1 and port 60 Jan 7 10:00:24.027:
from NEAT(0): (0/8): TX SEIZURE ACK (ABCD=1101)dc_init_dsp vtsp_open_voice_and_set_params Jan 7
10:00:24.151: dsp_close_voice_channel: [0:1:8] packet_Len=8 channel_id=4929 packet_id=75 Jan 7
10:00:24.151: dsp_open_voice_channel_20: [0:1:8] packet_Len=16 channel_id=4929 packet_id=74
alaw_ulaw_select=1 associated_signaling_channel=0 time_slot=0 serial_port=0 Jan 7 10:00:24.151:
dsp_encap_config_20: [0:1:8] packet_Len=24 channel_id=4929 packet_id=92 TransportProtocol 2
t_ssrc=0x0 r_ssrc=0x0 t_vpxcc=0x0 r_vpxcc=0x0 Jan 7 10:00:24.151: dsp_set_playout: [0:1:8]
packet_Len=18 channel_id=4929 packet_id=76 mode=1 initial=60 min=4 max=200 fax_nom=300 Jan 7
10:00:24.151: dsp_echo_canceller_control: [0:1:8] packet_Len=10 channel_id=4929 packet_id=66
flags=0x0 Jan 7 10:00:24.151: dsp_set_gains: [0:1:8] packet_Len=12 channel_id=4929 packet_id=91
in_gain=0 out_gain=0 Jan 7 10:00:24.151: dsp_vad_enable: [0:1:8] packet_Len=10 channel_id=4929
packet_id=78 thresh=-38 Jan 7 10:00:24.151: dsp_voice_mode: [0:1:8] packet_Len=24
channel_id=4929 packet_id=73 coding_type=1 voice_field_size=80 VAD_flag=0 echo_length=64
comfort_noise=1 inband_detect=1 digit_relay=2 AGC_flag=0dsp_dtmf_mode
(VTSP_TONE_R2_MF_FORWARD_MODE) Jan 7 10:00:24.151: dsp_dtmf_mode: [0:1:8] packet_Len=10
channel_id=4929 packet_id=65dtmf_or_mf=1 !--- Digit 5 is sent: Forward Signal Group I-5 (First
DNIS digit). Jan 7 10:00:24.203: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN: digit=5,
rtp_timestamp=0x04030000 dc_digit_up Jan 7 10:00:24.203: csm_vtsp_digit_ready_up
(vtsp_cdb=0x61B5BFF8)received digit (5) Jan 7 10:00:24.203: CSM voice (1/60): Rcvd Digit
detected(5) Jan 7 10:00:24.203: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_PRE_CALLERID
R2 Got Event 5 !--- Send Backward Signal Group A-5 (caller category request). Jan 7
10:00:24.203: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush
dsp_dtmf_dialing(): dial_string = 5 Jan 7 10:00:24.203: dsp_dtmf_dialing: [0:1:8] packet_Len=24
channel_id=4929packet_id=90 string=5 digits=1, time_on=65435, time_off=30 Jan 7 10:00:24.203:
digit=, components=2, freq_of_first=1020, freq_of_second=780, amp_of_first=8192,
amp_of_second=8192 Jan 7 10:00:24.303: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF:digit=5,
duration=30dc_digit Jan 7 10:00:24.303: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received
digit (5) Jan 7 10:00:24.303: CSM voice (1/60): Rcvd Digit detected(5) Jan 7 10:00:24.303: R2
Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CALLERID R2 Got Event R2_TONE_OFF Jan 7
10:00:24.303: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()
vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = # Jan 7 10:00:24.303: dsp_dtmf_dialing:
[0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=# digits=1, time_on=150, time_off=30
Jan 7 10:00:24.303: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1,
amp_of_second=1 !--- Caller Category Forward Signal Group II-1 is sent. Jan 7 10:00:24.403:
vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN: digit=1, rtp_timestamp=0x001E0010 dc_digit_up
```

Jan 7 10:00:24.403: csm_vtsp_digit_ready_up (vtsp_cdb=0x61B5BFF8)received digit (1) Jan 7 10:00:24.403: CSM voice (1/60): Rcvd Digit detected(1) Jan 7 10:00:24.403: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CALLERID R2 Got Event 1 !--- Send Backward Signal Group A-5 (Caller ID request). Jan 7 10:00:24.403: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial() vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = 5 Jan 7 10:00:24.403: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=5 digits=1, time_on=65435, time_off=30 Jan 7 10:00:24.403: digit=, components=2, freq_of_first=1020, freq_of_second=780, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:24.503: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=1, duration=30dc_digit Jan 7 10:00:24.503: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received digit (1) Jan 7 10:00:24.503: CSM voice (1/60): Rcvd Digit detected(1) Jan 7 10:00:24.503: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CALLERID R2 Got Event R2_TONE_OFF Jan 7 10:00:24.503: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial() vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = # Jan 7 10:00:24.503: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=# digits=1, time_on=150, time_off=30 Jan 7 10:00:24.503: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 !--- First ANI digit is sent: Forward Signal Group I-1. Jan 7 10:00:24.603: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN: digit=1, rtp_timestamp=0x001E0010 dc_digit_up Jan 7 10:00:24.603: csm_vtsp_digit_ready_up (vtsp_cdb=0x61B5BFF8) received digit (1) Jan 7 10:00:24.603: CSM voice (1/60): Rcvd Digit detected(1) Jan 7 10:00:24.603: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CALLERID R2 Got Event 1 !--- Send Backward Signal Group A-5 (Caller ID request). Jan 7 10:00:24.603: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = 5 Jan 7 10:00:24.603: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=5 digits=1, time_on=65435, time_off=30 Jan 7 10:00:24.603: digit=, components=2, freq_of_first=1020, freq_of_second=780, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:24.703: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=1, duration=30dc_digit Jan 7 10:00:24.703: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received digit (1) Jan 7 10:00:24.703: CSM voice (1/60): Rcvd Digit detected(1) Jan 7 10:00:24.703: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CALLERID R2 Got Event R2_TONE_OFF Jan 7 10:00:24.703: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = # Jan 7 10:00:24.703: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=# digits=1, time_on=150, time_off=30 Jan 7 10:00:24.703: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 !--- Second ANI digit is sent: Forward Signal Group I-2. Jan 7 10:00:24.803: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN:digit=2, rtp_timestamp=0x001E0010 dc_digit_up Jan 7 10:00:24.803: csm_vtsp_digit_ready_up (vtsp_cdb=0x61B5BFF8) received digit (2) Jan 7 10:00:24.803: CSM voice (1/60): Rcvd Digit detected(2) Jan 7 10:00:24.803: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CALLERID R2 Got Event 2 !--- Send Backward Signal Group A-5 (Caller ID request). Jan 7 10:00:24.803: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = 5 Jan 7 10:00:24.803: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929packet_id=90 string=5 digits=1, time_on=65435, time_off=30 Jan 7 10:00:24.803: digit=, components=2, freq_of_first=1020, freq_of_second=780, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:24.903: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=2, duration=30dc_digit Jan 7 10:00:24.903: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received digit (2) Jan 7 10:00:24.903: CSM voice (1/60): Rcvd Digit detected(2) Jan 7 10:00:24.903: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CALLERID R2 Got Event R2_TONE_OFF Jan 7 10:00:24.903: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = # Jan 7 10:00:24.903: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=# digits=1, time_on=150, time_off=30 Jan 7 10:00:24.903: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 !--- Third ANI digit is sent: Forward Signal Group I-3. Jan 7 10:00:25.003: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN: digit=3, rtp_timestamp=0x001E0010 dc_digit_up Jan 7 10:00:25.003: csm_vtsp_digit_ready_up (vtsp_cdb=0x61B5BFF8) received digit (3) Jan 7 10:00:25.003: CSM voice (1/60): Rcvd Digit detected(3) Jan 7 10:00:25.003: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CALLERID R2 Got Event 3 !--- Send Backward Signal Group A-5 (Caller ID request). Jan 7 10:00:25.003: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = 5 Jan 7 10:00:25.003: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=5 digits=1, time_on=65435, time_off=30 Jan 7 10:00:25.003: digit=, components=2, freq_of_first=1020, freq_of_second=780, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:25.103: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF:digit=3, duration=30dc_digit Jan 7 10:00:25.103: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received digit (3) Jan 7 10:00:25.103: CSM voice (1/60): Rcvd Digit detected(3) Jan 7 10:00:25.103: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CALLERID R2 Got Event R2_TONE_OFF Jan 7

10:00:25.103: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = # Jan 7 10:00:25.103: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=# digits=1, time_on=150, time_off=30 Jan 7 10:00:25.103: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 !--- *Digit 15 is sent: Forward Signal Group I-15 (end of ANI digit).* Jan 7 10:00:25.203: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN: digit=15, rtp_timestamp=0x001E0010 dc_digit_up Jan 7 10:00:25.203: csm_vtsp_digit_ready_up (vtsp_cdb=0x61B5BFF8) received digit (*) Jan 7 10:00:25.203: CSM voice (1/60): Rcvd Digit detected(*) Jan 7 10:00:25.203: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE:R2_IN_CALLERID R2 Got Event 15 !--- Send Backward Signal Group A-1 (next DNIS digit).** Jan 7 10:00:25.203: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush **dsp_dtmf_dialing(): dial_string = 1** Jan 7 10:00:25.203: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=1 digits=1, time_on=65435, time_off=30 Jan 7 10:00:25.203: digit=, components=2, freq_of_first=1020, freq_of_second=1140, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:25.303: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=15, duration=30dc_digit Jan 7 10:00:25.303: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received digit (*) Jan 7 10:00:25.303: CSM voice (1/60): Rcvd Digit detected(*) Jan 7 10:00:25.303: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF** Jan 7 10:00:25.303: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = # Jan 7 10:00:25.303: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=# digits=1, time_on=150, time_off=30 Jan 7 10:00:25.303: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 !--- *Second DNIS digit is sent: Forward Signal Group I-6.* Jan 7 10:00:25.391: vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_BEGIN: digit=6**, rtp_timestamp=0x001E0010 dc_digit_up Jan 7 10:00:25.391: csm_vtsp_digit_ready_up (vtsp_cdb=0x61B5BFF8) received digit (6) Jan 7 10:00:25.391: CSM voice (1/60): Rcvd Digit detected(6) Jan 7 10:00:25.391: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE:R2_IN_COLLECT_DNIS R2 Got Event 6 !--- Send Backward Signal Group A-1.** Jan 7 10:00:25.391: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=56dc_dial() vtsp_dial_nopush **dsp_dtmf_dialing(): dial_string = 1** Jan 7 10:00:25.391: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=1 digits=1, time_on=65435, time_off=30 Jan 7 10:00:25.391: digit=, components=2, freq_of_first=1020, freq_of_second=1140, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:25.491: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=6, duration=30dc_digit Jan 7 10:00:25.491: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received digit (6) Jan 7 10:00:25.491: CSM voice (1/60): Rcvd Digit detected(6) Jan 7 10:00:25.491: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF** Jan 7 10:00:25.491: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=56dc_dial() vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = # Jan 7 10:00:25.491: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=# digits=1, time_on=150, time_off=30 Jan 7 10:00:25.491: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 !--- *Third DNIS digit is sent: Forward Signal Group I-7.* Jan 7 10:00:25.583: vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_BEGIN: digit=7**, rtp_timestamp=0x001E0010 dc_digit_up Jan 7 10:00:25.583: csm_vtsp_digit_ready_up (vtsp_cdb=0x61B5BFF8) received digit (7) Jan 7 10:00:25.583: CSM voice (1/60): Rcvd Digit detected(7) Jan 7 10:00:25.583: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE:R2_IN_COLLECT_DNIS R2 Got Event 7 !--- Send Backward Signal Group A-1.** Jan 7 10:00:25.583: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=567dc_dial()vtsp_dial_nopush **dsp_dtmf_dialing(): dial_string = 1** Jan 7 10:00:25.583: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=1 digits=1, time_on=65435, time_off=30 Jan 7 10:00:25.583: digit=, components=2, freq_of_first=1020, freq_of_second=1140, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:25.683: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=7, duration=30dc_digit Jan 7 10:00:25.683: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received digit (7) Jan 7 10:00:25.683: CSM voice (1/60): Rcvd Digit detected(7) Jan 7 10:00:25.683: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF** Jan 7 10:00:25.683: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=567dc_dial()vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = # Jan 7 10:00:25.683: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=# digits=1, time_on=150, time_off=30 Jan 7 10:00:25.683: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 Jan 7 10:00:25.835: vtsp_process_dsp_message: MSG_TX_DIALING_DONEdc_dialing_done() !--- *Timeout is 3 seconds.* Jan 7 10:00:28.583: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_TIMER !--- Send Backward Signal Group A-3: address-complete, changeover !--- to reception of group-B signal.** Jan 7 10:00:28.583: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=567dc_dial()vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = 3# Jan 7 10:00:28.583: **dsp_dtmf_dialing: [0:1:8] packet_Len=36 channel_id=4929 packet_id=90 string=3# digits=2,**

time_on=150, time_off=30 Jan 7 10:00:28.583: digit=, components=2, freq_of_first=1020, freq_of_second=900, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:28.583: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 *!--- Forward Signal Group II-1 is sent: subscriber without priority.* Jan 7 10:00:28.831: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN: digit=1, rtp_timestamp=0x001E0003 dc_digit_up Jan 7 10:00:28.831: csm_vtsp_digit_ready_up (vtsp_cdb=0x61B5BFF8) received digit (1) Jan 7 10:00:28.831: CSM voice (1/60): Rcvd Digit detected(1) Jan 7 10:00:28.831: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CATEGORY R2 **Got Event 1** Jan 7 10:00:28.831: CSM_PROC_IC1_COLLECT_ADDR_INFO: CSM_EVENT_ADDR_INFO_COLLECTED (DNIS=567, ANI=123) at slot 1, port 60 Jan 7 10:00:28.831: vtsp_tsp_call_accept_check (sdb=0x61DADEE0, calling_number=123 called_number=567): peer_tag=0 Jan 7 10:00:28.835: VDEV_ALLOCATE: failed to allocate a device Jan 7 10:00:28.835: VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 7 10:00:28.835: VDEV_ALLOCATE: failed to allocate a device Jan 7 10:00:28.835: VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 7 10:00:28.835: VDEV_ALLOCATE: failed to allocate a device Jan 7 10:00:28.835: VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 7 10:00:28.835: CSM_PROC_IC3_WAIT_FOR_RES_RESP: CSM_EVENT_RESOURCE_OK at slot 1, port 60 Jan 7 10:00:28.835: vtsp_IC_switch : (voice_vdev=0x61F19688) Jan 7 10:00:28.835: vtsp_tsp_call_switch_ind (cdb=0x61B5BFF8, tsp_info=0x61F19688, calling_number=123 called_number=567 redirect_number=): peer_tag=123dc_switch: fsm_pop() Jan 7 10:00:28.835: vtsp_do_call_setup_ind Jan 7 10:00:28.835: vtsp_do_call_setup_ind: Call ID=65581, guid=62031A88 Jan 7 10:00:28.835: vtsp_do_call_setup_ind: type=0, under_spec=0, name=b`, id0=9, id1=0, id2=0, calling=123, called=567 Jan 7 10:00:28.835: dsp_cp_tone_off: [] packet_Len=8 channel_id=4929 packet_id=71 Jan 7 10:00:28.835: dsp_idle_mode: [] packet_Len=8 channel_id=4929 packet_id=68 Jan 7 10:00:28.835: dsp_close_voice_channel: [] packet_Len=8 channel_id=4929 packet_id=75 Jan 7 10:00:28.835: vtsp_timer_stop: 7063006 Jan 7 10:00:28.839: csm_vtsp_call_setup_resp (vdev_info=0x61F19688, vtsp_cdb=0x61B5BFF8) Jan 7 10:00:28.839: csm_vtsp_call_setup_resp:vdev_common BP TS allocatedat BP_stream0, BP_Ch8 Jan 7 10:00:28.839: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream 5, chan 13,BP_stream 0, BP_ch 8 Jan 7 10:00:28.839: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream 5, chan 13,BP_stream 0, BP_ch 8vtsp_open_voice_and_set_params Jan 7 10:00:28.839: dsp_close_voice_channel: [0:1 (17)] packet_Len=8 channel_id=4929 packet_id=75 Jan 7 10:00:28.839: dsp_open_voice_channel_20: [0:1 (17)] packet_Len=16 channel_id=4929 packet_id=74 alaw_ulaw_select=1 associated_signaling_channel=0 time_slot=0 serial_port=0 Jan 7 10:00:28.839: dsp_encap_config_20: [0:1 (17)] packet_Len=24 channel_id=4929 packet_id=92 TransportProtocol 2 t_ssrc=0x0 r_ssrc=0x0t_vpxcc=0x0 r_vpxcc=0x0 Jan 7 10:00:28.839: dsp_set_playout: [0:1 (17)] packet_Len=18 channel_id=4929 packet_id=76 mode=1 initial=60 min=4 max=200 fax_nom=300 Jan 7 10:00:28.839: dsp_echo_canceller_control: [0:1 (17)] packet_Len=10 channel_id=4929 packet_id=66 flags=0x0 Jan 7 10:00:28.839: dsp_set_gains: [0:1 (17)] packet_Len=12 channel_id=4929 packet_id=91 in_gain=0 out_gain=0 Jan 7 10:00:28.839: dsp_vad_enable: [0:1 (17)] packet_Len=10 channel_id=4929 packet_id=78 thresh=-38act_proceeding Jan 7 10:00:28.839: csm_vtsp_call_proceeding:DST_tdm_chnl call. BP TS allocatedstream 5, chan 13,BP_stream 0, BP_ch 8act_alert Jan 7 10:00:28.867: vtsp_ring_noan_timer_start: 7063009 Jan 7 10:00:28.867: csm_vtsp_call_alert (vtsp_cdb=0x61B5BFF8) Jan 7 10:00:28.867: csm_vtsp_call_alert: CSM_EVENT_ALERTING_RECEIVED Jan 7 10:00:28.867: CSM_IC5_WAIT_FOR_SWITCH_OVER: at slot 1, port 60 Jan 7 10:00:28.867: CSM_EVENT_ALERTING_RECEIVED: Jan 7 10:00:28.867: calling alerting_start_event *!--- Note: For modems, Backward Signal !--- Group B-6 (subscriber's line free, charge) !--- is sent immediately. !--- For voice, it is delayed until alerting is received. !--- Notice that "R2_REJECT" is printed instead of R2_ALERTING. !--- This printing issue is solved in Cisco IOS Software Release 12.1T.* Jan 7 10:00:28.867: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE:R2_IN_IDLE R2 Got Event R2_REJECT** Jan 7 10:00:28.867: **R2_ALERTING:** r2_comp_idle Jan 7 10:00:28.867: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=567act_bridge Jan 7 10:00:28.867: dsp_voice_mode: [0:1 (17)] packet_Len=24 channel_id=4929 packet_id=73 coding_type=1 voice_field_size=80 VAD_flag=0 echo_length=64 comfort_noise=1 inband_detect=1 digit_relay=2 AGC_flag=0dsp_dtmf_mode (VTSP_TONE_R2_MF_FORWARD_MODE) *!--- Answer signal (B-6) is sent after alerting is received. !--- Send Backward Signal Group B6 signal (Subscriber's line free, charge).* Jan 7 10:00:28.871: dsp_dtmf_mode: [0:1 (17)] packet_Len=10 channel_id=4929 packet_id=65 dtmf_or_mf=1vtsp_r2_dial vtsp_r2_dial(): fsm_push(vtsp_r2_state_table) **dsp_dtmf_dialing(): dial_string = 6** Jan 7 10:00:28.871: dsp_dtmf_dialing: [0:1 (17)] packet_Len=24 channel_id=4929 packet_id=90 string=6 digits=1, time_on=65435, time_off=30 Jan 7 10:00:28.871: digit=, components=2, freq_of_first=900, freq_of_second=780, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:28.923: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN: digit=1, rtp_timestamp=0x001E0006 dc_digit_up Jan 7 10:00:28.923: csm_vtsp_digit_ready_up (vtsp_cdb=0x61B5BFF8) received digit (1) Jan 7 10:00:28.923: CSM voice (1/60): Rcvd Digit detected(1) Jan 7 10:00:28.923: R2 Incoming

Voice(1/60): DSX (E1 0:8): **STATE: R2_IN_COMPLETE R2 Got Event** 1 Jan 7 10:00:28.971:
vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=1, duration=30dc_digit Jan 7
10:00:28.971: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received digit (1) Jan 7 10:00:28.971:
CSM voice (1/60): Rcvd Digit detected(1) Jan 7 10:00:28.971: R2 Incoming Voice(1/60): DSX (E1
0:8): **STATE: R2_IN_COMPLETE R2 Got Event R2_TONE_OFF** Jan 7 10:00:28.971:
vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=567dc_dial() vtsp_dial_nopush
dsp_dtmf_dialing(): dial_string = # Jan 7 10:00:28.971: dsp_dtmf_dialing: [0:1 (17)]
packet_Len=24 channel_id=4929 packet_id=90 string=# digits=1, time_on=150, time_off=30 Jan 7
10:00:28.975: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1,
amp_of_second=1ds_dialing_defaulttds_dialing_default Jan 7 10:00:29.127:
vtsp_process_dsp_message: MSG_TX_DIALING_DONEdc_dialing_done() Jan 7 10:00:29.971: R2 Incoming
Voice(1/60): DSX (E1 0:8): STATE: R2_IN_WAIT_GUARD R2 **Got Event R2_TONE_TIMER** Jan 7
10:00:29.971: R2_IN_IDLE:2 r2_in_connect called Jan 7 10:00:29.971: R2_IN_CONNECT: call end dial
Jan 7 10:00:29.971: pop the dial state machine Jan 7 10:00:29.971: vtsp_r2_end_dial:
vdev_common=0x6205E5F8, string=567ds_end_dial(): fsm_pop() act_caps_ind Jan 7 10:00:29.971:
act_caps_ind:Encap 1, Vad 2, Codec 0x4, CodecBytes 20, FaxRate 2, FaxBytes 20 SignalType 0
DtmfRelay 1, Modem lact_caps_ack Jan 7 10:00:29.971: dsp_idle_mode: [0:1 (17)] packet_Len=8
channel_id=4929 packet_id=68 Jan 7 10:00:29.971: act_caps_ack: codec = 15, ret = 1 Jan 7
10:00:29.971: dsp_cp_tone_off: [0:1 (17)] packet_Len=8 channel_id=4929 packet_id=71 Jan 7
10:00:29.971: dsp_idle_mode: [0:1 (17)] packet_Len=8 channel_id=4929 packet_id=68 Jan 7
10:00:29.971: dsp_encap_config_20: [0:1 (17)] packet_Len=24 channel_id=4929 packet_id=92
TransportProtocol 2 t_ssrc=0x0 r_ssrc=0x0 t_vpxcc=0x0 r_vpxcc=0x0 Jan 7 10:00:29.971:
dsp_voice_mode: [0:1 (17)] packet_Len=24 channel_id=4929 packet_id=73 coding_type=19
voice_field_size=20 VAD_flag=1 echo_length=64 comfort_noise=1 inband_detect=1 digit_relay=2
AGC_flag=0act_alert_connect Jan 7 10:00:30.255: vtsp_ring_noan_timer_stop: 7063148 Jan 7
10:00:30.255: dsp_cp_tone_off: [0:1 (17)] packet_Len=8 channel_id=4929 packet_id=71 Jan 7
10:00:30.255: csm_vtsp_call_connect (vtsp_cdb=0x61B5BFF8, voice_vdev=0x61F19688) Jan 7
10:00:30.255: CSM_IC5_WAIT_FOR_SWITCH_OVER: CSM_EVENT_MODEM_OFFHOOK at slot 1, port 60 Jan 7
10:00:30.607: CSM_RX_CAS_EVENT_FROM_NEAT:(0007): EVENT_CHANNEL_CONNECTED at slot 1 and port 60
Jan 7 10:00:30.607: CSM_PROC_IC6_WAIT_FOR_CONNECT: CSM_EVENT_DSX0_CONNECTED at slot 1, port 60
Jan 7 10:00:30.607: from NEAT(0): (0/8): **TX ANSWERED** (ABCD=0101) eefje#

[Informações Relacionadas](#)

- [E1 R2 que sinaliza para a Voz sobre o IP no Servidor de Acesso Cisco AS5300](#)
- [E1 R2 que sinaliza para os Cisco 3620 e 3640 Series Router](#)
- [Customização de E1 R2 com o comando cas-custom](#)
- [E1 R2 e configuração do Channel-Associated Signaling](#)
- [E1 R2 que sinaliza para o Cisco AS5300 e os servidores de acesso do Cisco AS5200](#)
- [Suporte à Tecnologia de Voz](#)
- [Suporte ao Produto de Voz e Comunicações Unificadas](#)
- [Troubleshooting da Telefonia IP Cisco](#)
- [Suporte Técnico e Documentação - Cisco Systems](#)