

# Configuración y resolución de problemas de la señalización E1 R2

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## [Introducción](#)

En este documento se muestran los comandos que deben ingresarse progresivamente para implementar la señalización E1 R2. Este documento también ofrece información de Troubleshooting con los comandos debug.

**Note:** Antes de que usted utilice este documento, se recomienda que usted primero lee la [teoría de la señalización del E1 R2](#).

## [prerrequisitos](#)

### [Requisitos](#)

Antes de que usted intente esta configuración, asegúrese de que usted resuelva estos requisitos previos:

- La señalización del r2 se aplica al e1 solamente.
- La señalización del r2 no se soporta en el router del Cisco MC3810.
- Para ejecutar el r2 que señala en los Cisco 2600/3600 Series Router, se requiere este

hardware:VVIC-1MFT-E1 o VVIC-2MFT-E1 o VVIC-2MFT-E1-DI junto con uno de estos módulos de la densidad de la Voz: [NM-HDV](#) (módulo de red de voz de gran densidad) o NM-HD-2VE (Módulo de red de voz/fax de las Comunicaciones IP 2-slot).

- Defina el comando ds0-group (o al CAS-grupo, sobre la base de la versión de Cisco IOS®) en los reguladores del e1 (Routers del AS5x00, del Cisco 2600/3600).
- Utilice el comando cas-custom para personalizar las variantes del E1 R2 para los países diferentes o las regiones.

## [Componentes Utilizados](#)

La información en este documento se basa en esta versión de software y hardware:

- Cisco AS5300 con el Cisco IOS Software Release 12.0.7T

**Note:** La señalización del E1 R2 fue introducida a los Cisco 2600/3600 Series Router en los Cisco IOS Software Releases 12.1.2XH y 12.1(3)T.

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si la red está funcionando, asegúrese de haber comprendido el impacto que puede tener cualquier comando.

## [Convenciones](#)

Para obtener más información sobre las convenciones del documento, consulte las [Convenciones de Consejos Técnicos de Cisco](#).

## [Configurar](#)

Esta sección le presenta con la información que usted puede utilizar para configurar el E1 R2.

**Note:** Para encontrar la información adicional en los comandos que este documento utiliza, que refiera a la [herramienta de búsqueda de comandos](#) ([clientes registrados solamente](#)).

## [AS5300: Compatibilidad del software Cisco IOS con la tarjeta de función de voz \(VFC\)](#)

Antes de que usted implemente el E1 R2 que señala en un Cisco AS5300 Router, asegúrese de que su versión del Cisco IOS Software sea compatible con el Cisco VCWare en el módulo del e1. Para verificar la compatibilidad de Cisco IOS Software, refiera a la [matriz de compatibilidad del Cisco VCWare para el Cisco AS5300](#). Si las versiones son incompatibles, los módulos del procesador de señales digitales (DSP) en la placa de voz no cargan y el procesamiento de la señal de voz no ocurre.

Típicamente, si la versión del Cisco VCWare es incompatible con el Cisco IOS Software, usted puede ingresar el **comando show vfc slot\_number interface** para ver esto tal y como se muestra en de este ejemplo.

```
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
```

En la primera salida de ejemplo del comando **show vfc slot\_number interface**, el número del módulo DSP no es declaraciones instaladas muestra que las versiones son incompatibles para ese número de módulo.

Este segundo conjunto de salida es un ejemplo de los módulos DSP que tienen la versión correcta del Cisco VCWare cargada:

```
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
```

Para marcar la versión instalada del Cisco VCWare, ingrese el comando **show vfc slot\_number version vcware**, tal y como se muestra en de este ejemplo:

```
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

**Note:** Asegúrese la versión de tecnología del Cisco VCWare (c549 o c542) hace juego la tecnología DSP instalada VFC (DSPM-542: soporte de voz de una densidad o DSPM-549: soporte de voz de alta densidad).

## E1 R2 de la configuración

Complete estos pasos para configurar el E1 R2:

1. Configure el e1 del regulador que conecta con la central telefónica automática privada (el PBX) o el Switch. Asegúrese de que el enmarcar y el linecoding del e1 estén fijados correctamente.
2. Para el e1 que enmarca, elija el **CRC** o el **NON-CRC**.
3. Para el linecoding del e1, elija el **HDB3** o el **AMI**.
4. Para la fuente de reloj del e1, elija **interno** o la **línea**. Tenga en cuenta que los diferentes PBX tienen diferentes requisitos en la fuente de reloj.
5. [Configure la señalización de línea.](#)
6. [Configure la señalización entre registros.](#)
7. Personalice la configuración con el **comando cas-custom**.

## Configure la señalización de línea

Utilice esta secuencia de comandos para definir su señalización de línea.

```
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
...
```

Ésta es la secuencia de comandos para el Cisco IOS Software Release 11.3.

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

**Note:** Si usted actualiza del Cisco IOS Software Release 11.3 a 12.0, el comando new substituye el viejo automáticamente.

## Señalización entre registros de la configuración

Este ejemplo de la secuencia de comandos ilustra cómo configurar los diversos tipos de señalización 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
```

La implementación de Cisco de la señalización del r2 tiene soporte del Dialed Number Identification Service (DNIS) habilitado por abandono. Si usted habilita la opción de la identificación de número automática (ANI), la recolección de información DNIS todavía se realiza. La especificación de la opción ANI no inhabilita la recopilación de DNIS. El DNIS es el número se llama que. El ANI es el número del llamador. Por ejemplo, si usted configura a un router llamado A para llamar a un router llamado B, después el número DNIS se asigna al router B y el número ANI se asigna al router que el A. ANI es similar al Identificador de llamada.

## [Personalización de los enlaces E1 R2 con el comando cas-custom](#)

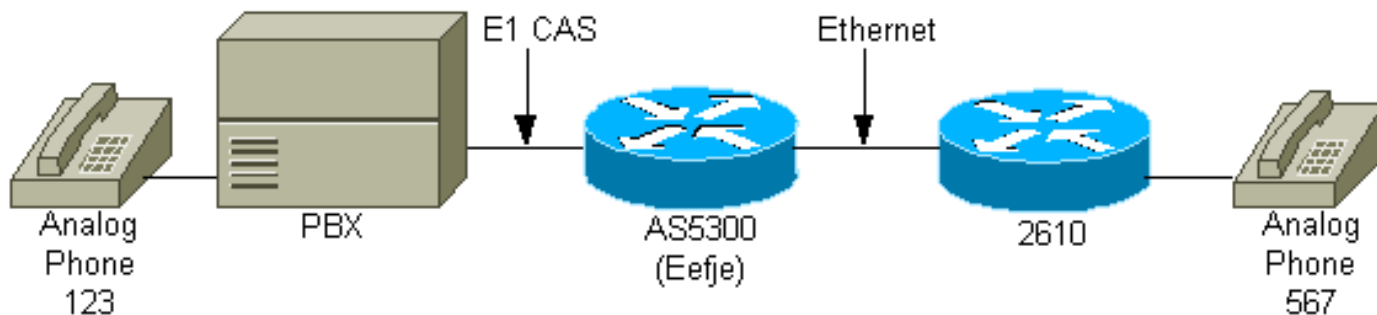
El subcomandos del comando cas-custom se utiliza para acomodar las variantes de país. También se utilizan para personalizar los parámetros del Señalización asociada al canal (CAS). Esta secuencia de comandos ilustra cómo usted puede ver todas las opciones del **comando cas-custom**.

```
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 más información sobre los parámetros de [comando cas-custom, refiérase](#).

## [Diagrama de la red](#)

Este documento utiliza esta configuración de red:



## Configuraciones

Con el fin de este documento, éstas son las tres diversas configuraciones del r2 que se muestran a través de la interfaz del e1:

- [Digital non-compelled del r2](#)
- [R2 Digital Semi-obligada](#)
- [R2 ANI obligado Digitaces](#)

Las configuraciones se han modificado para mostrar solamente a la información que este documento discute.

### **eefje configurado para el digital non-compelled del r2**

```
hostname eefje
!
controller E1 0
  clock source line primary
  ds0-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 el r2 Digital Semi-obligada**

```
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 el r2 ANI obligado Digitaces**

```

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
!

```

## Verificación

Actualmente, no hay un procedimiento de verificación disponible para esta configuración.

## Troubleshooting

En esta sección encontrará información que puede utilizar para solucionar problemas de configuración.

### Errores del E1 R2 del Troubleshooting

Ésta es la información de Troubleshooting relevante a esta configuración. Siga estas instrucciones para resolver problemas su configuración.

1. Verifique que el e1 0 del regulador esté para arriba. Si está abajo, marque enmarcar, codificación de línea, fuente de reloj, alarma, substituye el cable, vuelven a sentar el indicador luminoso LED amarillo de la placa muestra gravedad menor, y así sucesivamente. Utilice el documento de la [Personalización de los links E1 R2 con el comando cas-custom](#) como referencia.
2. Si usted utiliza un AS5300, marque que el DSPs está instalado correctamente con el **comando show vfc slot number interface**.
3. Configure el Direct Inward Dial (HIZO) en el par del Servicio telefónico sencillo antiguo (POTS), para los dígitos recibidos eligieran a un peer saliente.
4. Especifique el **cptone** (el **cptone** es específico para su país) en los puertos de voz. Un **comando cptonecountry** debe ser configurado para hacer juego el **comando cas-custom country**. Los parámetros configurados del `cptone` los tonos de progreso de llamada para un país determinado, y lo que es más importante fijan la codificación a la uno-ley o a la ley u, que dependen del país. La codificación predeterminada para los E.E.U.U. es ley u.
5. Disposiciones de la Línea de coincidencia y de la señalización de registro a la configuración del switch.
6. Gire algunos de los **debugs** mostrados en este documento y estudie las salidas.
7. Marque para saber si hay comunicación entre el router y el PBX o conmute: ¿La línea está fija? ¿El router recibe/envía dígitos? Descubra que echan a un lado los claros la llamada. Si es posible, utilice las últimas versiones de Cisco IOS Software disponibles en el cisco.com.

## [Comandos debug y show](#)

La herramienta [Output Interpreter](#) (sólo para clientes [registrados](#)) permite utilizar algunos comandos "show" y ver un análisis del resultado de estos comandos.

**Note:** Antes de que usted publique los **comandos debug**, refiera a la [información importante en los comandos Debug](#).

**Note:** Para el Cisco IOS Software Release 12.0, utilice estos **debugs**:

- **debug cas** - Para la señalización de línea.
- **debug csm voice** - Para la señalización entre registros.
- orden **todo incluido del vtsp del debug** tener la salida de todos los mensajes (dígitos) intercambiados entre el PBX y el router.

Para IOS 11.3 de la versión de Cisco IOS Software, utilice estos comandos:

- **módem-mgmt csm debug-RBS** - Para la señalización de línea (usted necesidad de especificar el **servicio interno** en el modo de configuración primero.).
- **debug csm voice** - Para la señalización entre registros.
- orden **todo incluido del vtsp del debug** tener la salida de todos los mensajes (dígitos) intercambiados entre el PBX y el router.

Para las Plataformas AS5400 y AS5350, utilice estos debugs:

- **haga el debug del r2 del sigsm** - Para la señalización entre registros
- **haga el debug de la orden todo incluido del vtsp** para tener la salida de todos los mensajes (dígitos) intercambiados entre el PBX y el router.



## Ejemplo de resultado del comando debug

Puesto que hay tres diversas configuraciones mostradas previamente en este documento, aquí están tres diversos **debugs**:

### Digital non-compelled del r2: Llamada entrante a 567

Para entender esta **salida de los debugs** mejor, refiera a la [teoría de la señalización del 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 ctrl0 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_src=0x0 r_src=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 1act_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-obligada: Llamada entrante a 567](#)

Para entender esta salida de los debugs mejor, refiera a la [teoría de la señalización del 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\_src=0x0 r\_src=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_payout: [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 1act_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 obligado Digitaces: Llamada entrante a 567](#)

Para entender esta **salida de los debugs** mejor, refiera a la [teoría de la señalización del 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\_payout: [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,**  
rtsp\_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=30*dc\_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



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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_defaultds_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
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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#
```

## [Información Relacionada](#)

- [E1 R2 que señala para la voz sobre IP en el Servidor de acceso Cisco AS5300](#)
- [E1 R2 que señala para los Cisco 3620 y 3640 Series Router](#)
- [Personalización de los enlaces E1 R2 con el comando cas-custom](#)
- [E1 R2 y configuración de la señalización asociada al canal](#)
- [E1 R2 que señala para el Cisco AS5300 y el Access Servers del Cisco AS5200](#)
- [Soporte de tecnología de voz](#)
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